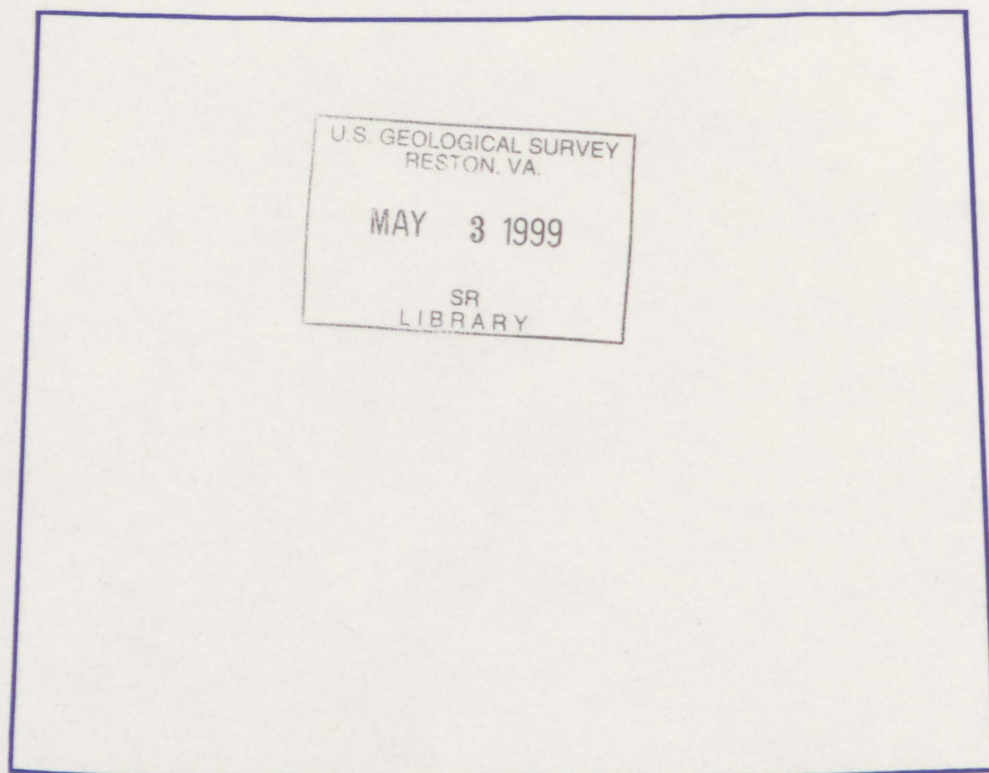


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Water Resources Data Wyoming Water Year 1996



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-96-1
Prepared in cooperation with the State of Wyoming
and with other agencies

CALENDAR FOR WATER YEAR 1996

1995

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

1996

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23
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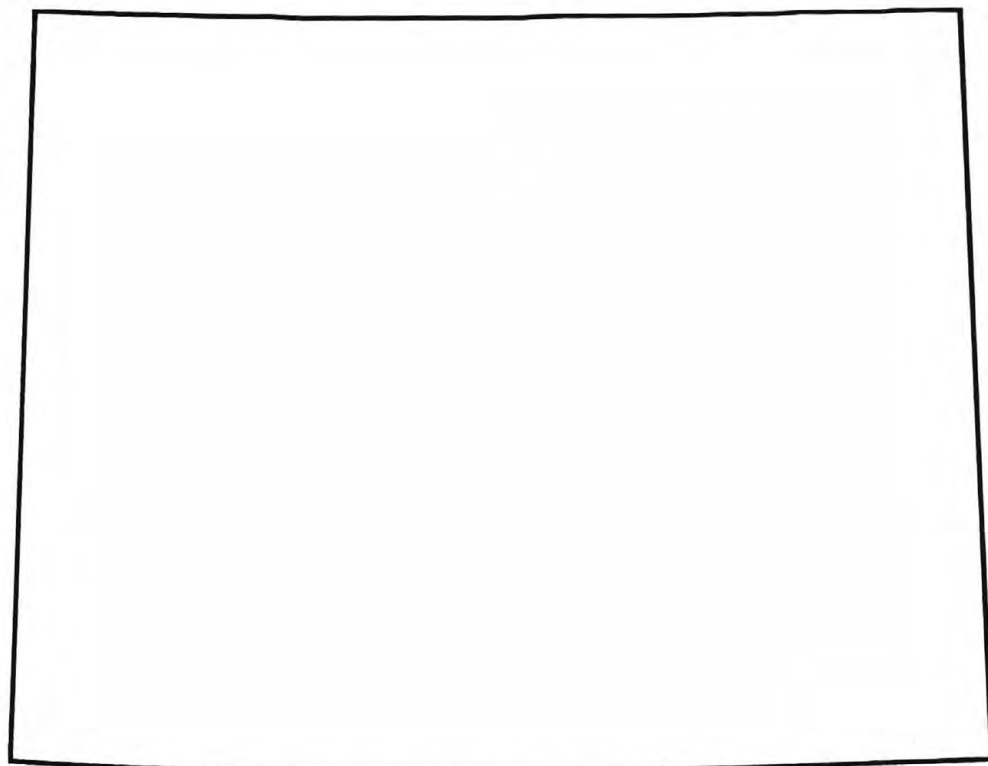
APRIL							MAY							JUNE						
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28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
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14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
2	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Wyoming Water Year 1996

by M. L. Smalley, R. E. Woodruff, M. L. Clark, and W. J. Sadler



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-96-1
Prepared in cooperation with the State of Wyoming
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Gordon P. Eaton, Director

For information on the water program in Wyoming write to
District Chief, Water Resources Division
U.S. Geological Survey
2617 East Lincolnway, Suite B
Cheyenne, Wyoming 82001

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	C. Miller	T. F. Werth
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L. S. Burt	T. J. Leman	T. A. Pointon	L. D. Young
J. R. Elliott	L. Littau	N. K. Ruby	
N. Friday	J. P. Mason	W. J. Sadler	
S. L. Green	G. J. Metzger	K. R. Watson	

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

[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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CROW CREEK NEAR CARPENTER, WY (d)	06756100	337
<u>COLORADO RIVER BASIN</u>		
GREEN RIVER BASIN		
GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY (d)	09188500	340
NEW FORK RIVER:		
PINE CREEK ABOVE FREMONT LAKE, WY (d,t)	09196500	342
PINE CREEK BELOW FREMONT LAKE, WY (d)	09197000	346
NEW FORK RIVER NEAR BIG PINEY, WY (d)	09205000	348
GREEN RIVER NEAR LA BARGE, WY (d)	09209400	350
FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY (d)	09210500	352
FONTENELLE RESERVOIR NEAR FONTENELLE, WY (e,v)	09211150	354
GREEN RIVER BELOW FONTENELLE RESERVOIR, WY (d,c)	09211200	355
BIG SANDY RIVER NEAR FARSON, WY (d)	09213500	359
BIG SANDY RESERVOIR NEAR FARSON, WY (v)	09213700	361
BIG SANDY RIVER BELOW FARSON, WY (d,c)	09215550	362
BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY (d,c)	09216050	365
GREEN RIVER NEAR GREEN RIVER, WY (d,c)	09217000	368
GREEN RIVER BELOW GREEN RIVER, WY (c)	09217010	371
BLACKS FORK NEAR ROBERTSON, WY (d)	09217900	372
BLACKS FORK NEAR MILLBURNE, WY (d)	09218500	374
EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY (d)	09220000	376
BLACKS FORK NEAR LYMAN, WY (c,s)	09222000	378
HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY (d)	09223000	379
HAMS FORK NEAR DIAMONDVILLE, WY (c,m)	09224050	381
BLACKS FORK NEAR LITTLE AMERICA, WY (d,c,t)	09224700	382
FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT (v)	09234400	387
GREEN RIVER NEAR GREENDALE, UT (d)	09234500	388
YAMPA RIVER:		
BATTLE CREEK:		
WEST FORK BATTLE CREEK:		
HAGGARTY CREEK ABOVE BELVIDERE DITCH, NEAR ENCAMPMENT, WY (c)	09253455	392
WEST FORK BATTLE CREEK ABOVE BATTLE CREEK CAMPGROUND, NEAR SAVERY, WY (c)	09253465	393
SLATER FORK NEAR SLATER, CO (d)	09255000	394

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<u>COLORADO RIVER BASIN--CONTINUED</u>		
GREEN RIVER BASIN--CONTINUED		
YAMPA RIVER--CONTINUED		
LITTLE SNAKE RIVER NEAR DIXON, WY (d)	09257000	396
LITTLE SNAKE RIVER BELOW BAGGS, WY (c,s)	09259050	398
<u>GREAT SALT LAKE BASIN</u>		
BEAR RIVER BASIN		
BEAR RIVER NEAR UTAH-WYOMING STATE LINE (d)	10011500	399
SULPHUR CREEK ABOVE RESERVOIR, BELOW LA CHAPELLE CREEK, NEAR EVANSTON, WY (d)	10015700	401
SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (d)	10015900	403
BEAR RIVER AT EVANSTON, WY (d)	10016900	405
BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT (d,c,s)	10020100	407
WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT (v)	10020200	410
BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (d)	10020300	411
TWIN CREEK AT SAGE, WY (c,s)	10027000	413
BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (d)	10028500	414
SMITHS FORK NEAR BORDER, WY (d)	10032000	416
SMITHS FORK AT COKEVILLE, WY (c,s)	10035000	418
BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY (d,c,m)	10038000	419
BEAR RIVER AT BORDER, WY (d)	10039500	422
<u>SNAKE RIVER BASIN</u>		
SNAKE RIVER ABOVE JACKSON LAKE, AT FLAGG RANCH, WY (d,c,s,t)	13010065	424
JACKSON LAKE NEAR MORAN, WY (v)	13010500	430
SNAKE RIVER NEAR MORAN, WY (d)	13011000	431
PACIFIC CREEK BASIN		
PACIFIC CREEK AT MORAN, WY (d)	13011500	433
BUFFALO CREEK BASIN		
BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY (d)	13011900	435
SPREAD CREEK BASIN		
SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY (d)	13012490	437
SNAKE RIVER AT MOOSE, WY (d,c,s)	13013650	439
GROS VENTRE RIVER BASIN		
GROS VENTRE RIVER AT ZENITH, WY (d)	13015000	445
FISH CREEK BASIN		
LAKE CREEK BELOW GRANITE CREEK SUPPLEMENTAL, NEAR MOOSE, WY (d)	13016240	447
GRANITE CREEK ABOVE GRANITE CREEK SUPPLEMENTAL, NEAR MOOSE, WY (d)	13016305	449
GRANITE CREEK SUPPLEMENTAL ABOVE LAKE CREEK, NEAR MOOSE, WY (d)	13016310	451
GRANITE CREEK SUPPLEMENTAL BELOW LAKE CREEK, NEAR MOOSE, WY (d)	13016315	453
FISH CREEK AT WILSON, WY (d)	13016450	455
FLAT CREEK BASIN		
CACHE CREEK NEAR JACKSON, WY (d,c,m,r,s)	13018300	457
FLAT CREEK BELOW CACHE CREEK, NEAR JACKSON, WY (d)	13018350	460
SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY (d)	13018750	462
SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY (d)	13022500	464
GREYS RIVER BASIN		
GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY (d)	13023000	466
SALT RIVER BASIN		
SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY (d)	13027500	468
HENRYS FORK BASIN		
FALLS RIVER:		
BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY (d)	13046680	470

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 (1996) 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	1983-95.	--	1983-93.	1988-93.	--	
Gibbon River near West Yellowstone, Mont	06037000	118	1913-16;1983-95.	--	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.	--	

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.	--	--	--	--

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.	--	--	

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								
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 Arapahoe Agency)	06228000	2,309	1906-8;1911-	--	1947-50; 1965-95.	1949-51; 1959-65; 1971;1977; 1985-95.	1973-78; 1986-95.	
South Fork Little Wind River above Washakie Reservoir, near Fort Washakie								
South Fork Little Wind River below Washakie Reservoir, near Fort Washakie	06228350	90.3	1976-	--	1976-92.	--	--	
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; 1979-95.	--	1966-92.	--	1973-77; 1989-92.	
Middle (Middle Fork) Popo Agie River (Popo Agie River) near Lander.....	06231500	86.5	1911-12;1918-24.	--	--	--	--	
Middle Popo Agie River below The Sinks, near Lander.....	06231600	87.5	1959-68.	1969-74.	--	1965.	--	
Baldwin Creek below Dickinson Creek, at Lander.....	06231930	--	--	--	1989-	1989-	--	
Little Dickinson Creek at Lander (formerly Baldwin Creek at Lander).....	06231950	--	--	--	1981.	--	1981.	
North Popo Agie River near Milford.....	06232000	98.4	1945-63.	--	1990.	--	--	
North (North Fork) Popo Agie River near Lander.....	06232500	134	1938-53.	--	--	--	--	
Popo Agie River at Hudson Siding, near Lander ...	06232600	--	--	--	1983-	--	1983-89.	
Little Popo Agie River near Atlantic City	06232800	5.99	1957-73.	--	--	--	--	
Little Popo Agie River near Lander	06233000	125	1946-	--	--	--	--	

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							
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.	--	--	--	--
Big Sand Draw:	06234700	3.88	--	1960-72.	--	--	--
Bobcat Draw near Sand Draw	06234800	b2.89	--	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	
<u>MISSOURI RIVER BASIN--continued</u>								
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.	--	--	--	--	

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.	--	--	--	--	

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.	

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 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	661	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.	

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								
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.	--	--	--	--	

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.	--	--

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-	--	1996-	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.	

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	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	
MISSOURI RIVER BASIN--continued								
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.	--	--	

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.....								
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.	--	--	--	--	

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.	--	--	--	--	

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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							
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-	--	--	--	--
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	1990-94;1995-	--	--	--	--
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.	--	--	--	--

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.	--	--	--	

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;1982-93.	--	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.	--	--	--	--	

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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								
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.	

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								
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.....								
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.	--	--	--	--	

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	
MISSOURI RIVER BASIN--continued								
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.	
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.	
Coal Creek near Piney.....	06425750	71.8	1980-83.	--	1981-83.	1981-83.	1981.	
Belle Fourche River above Dry Creek, near Piney	06425780	594	1975-83.	--	1975-83.	1976-83.	1976-77; 1980-82.	

Footnotes at end of table.

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

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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	
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.

WATER RESOURCES DATA - WYOMING, 1996

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.....								
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 .								
06620000	1,431	1904;1915-	--	1965-86.	1971-74.	1973-82.		
Douglas Creek above 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.

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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							
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.	--	--

WATER RESOURCES DATA - WYOMING, 1996

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)								
Big Ditch:	06630000	b4,175	1939-	--	1960-	1974;1986-	1973-	
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								
East Fork Medicine Bow River near Elk Mountain...	06630440	28.7	1972-75.	--	--	--	--	
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.	--	--	--	

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 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.	--	

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;1987-96.	--	--	--	--	
Smith Creek at Otter Creek, near Casper	06645160	10.9	1974-79.	--	--	--	--	
Otter Creek at mouth, near Casper	06645164	6.50	1987-96.	--	--	--	--	
Smith Creek below Otter Creek, near Casper	06645166	18.5	1987-96.	--	--	--	--	
Beaver Creek above Pole Creek, near Casper.....	06645174	4.67	1987-96.	--	--	--	--	
Pole Creek near Casper	06645178	2.70	1987-96.	--	--	--	--	
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.....								
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								
Little Box Elder Creek near Careyhurst.....	06647810	138	1981-84.	--	--	--	--	
Little Box Elder Creek at Little Box Elder Cave, 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.	--	--	--	

MISSOURI RIVER BASIN--continued

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
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;1988-96.	--	1965.	--	--
Horseshoe Creek near Glendo.....	06653500	211	1916-18;1921-24; 1928-33;1935-70; 1988-96.	--	--	--	--
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.	--	--	--	--

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.....	06657000	b16,237	1909-	--	1970-76.	--	1974.	
Laramie River near (at) Glendevvey, 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.	--	--	--	--	
Sybilie Creek above Mule Creek, near Wheatland	06664400	194	1974-	--	1984-87.	--	--	
Sybilie Creek below Mule Creek, near Wheatland	06664490	219	1968-73.	--	--	--	--	
Sybilie Creek above Bluegrass Creek, near Wheatland	06664500	225	1941-68.	--	--	--	--	
Bluegrass Creek near Wheatland.....	06664900	139	1958-63;1968-79.	--	--	--	--	
Sybilie Creek below Bluegrass Creek, near Wheatland	06665000	366	1950-68.	--	1965.	--	--	
Wheatland Canal No. 1 near Wheatland	06665500	--	1952-63.	--	1958-59.	--	--	
Sybilie 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	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)	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.	--	--	--	

WATER RESOURCES DATA - WYOMING, 1996

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
MISSOURI RIVER BASIN--continued							
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	124,300	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	1994-96.	--	1986-92.	--	--
Diamond Creek below Roundtop Road, at F. E. Warren Air Force Base	06755840	10.75	1994-96.	--	--	--	--
Diamond Creek at F.E. Warren Air Force Base	06755860	10.8	1992-96.	--	--	--	--
Diamond Creek at mouth, at F.E. Warren Air Force Base	06755880	10.9	1992-96.	--	--	--	--
Crow Creek at F.E. Warren Air Force Base	06755950	253	1994-96.777	--	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	1990-96.	--	1990-92.	--	1990-92.
Lodgepole Creek near Federal	06761000	25	1933-38.	--	--	--	--
South Fork Lodgepole Creek near Federal.....	06761500	16	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.	--	--	--

WATER RESOURCES DATA - WYOMING, 1996

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.

WATER RESOURCES DATA - WYOMING, 1996

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;1988-95.	--	--	--	--	
Highland Ditch near Pinedale.....	09196960	--	1985-86;1988-95.	--	--	--	--	
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.	--	--	--	--	

WATER RESOURCES DATA - WYOMING, 1996

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.	--	--	--	--	

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.	--	--	--	

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.

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; 1996-	1971-81.	1973-80.	

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	
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.	--	

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	1953-93.	--	--	--	--	
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.	

WATER RESOURCES DATA - WYOMING, 1996

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	1965-96.	--	--	--	--
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-	--	--	--	--

WATER RESOURCES DATA - WYOMING, 1996

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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>GREAT SALT LAKE BASIN--continued</u>								
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.	--	--	--	--	
Snow Snake River above Jackson Lake, at Flagg Ranch.....	13010065	486	1987-	--	1987-	1987-92.	1987-93.	
Snow 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	
<u>SNAKE RIVER BASIN--continued</u>								
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 at Wilson	13016450	--	1994-	--	--	--	--	
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;1989-93.	1994-96.	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;1989-93.	1994-96.	1981-82.	--	1981-82.	
Snake River below Flat Creek, near Jackson	13018750	2,627	1975-	--	--	--	--	
Horse Creek near Cheney	13019000	37.9	1917-18.	--	--	--	--	

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	63.60	--	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.	--	--

WATER RESOURCES DATA - WYOMING, 1996

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--continued								
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 172 gaging stations; stage and contents for 16 lakes and reservoirs; water quality at 30 gaging stations and 23 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.

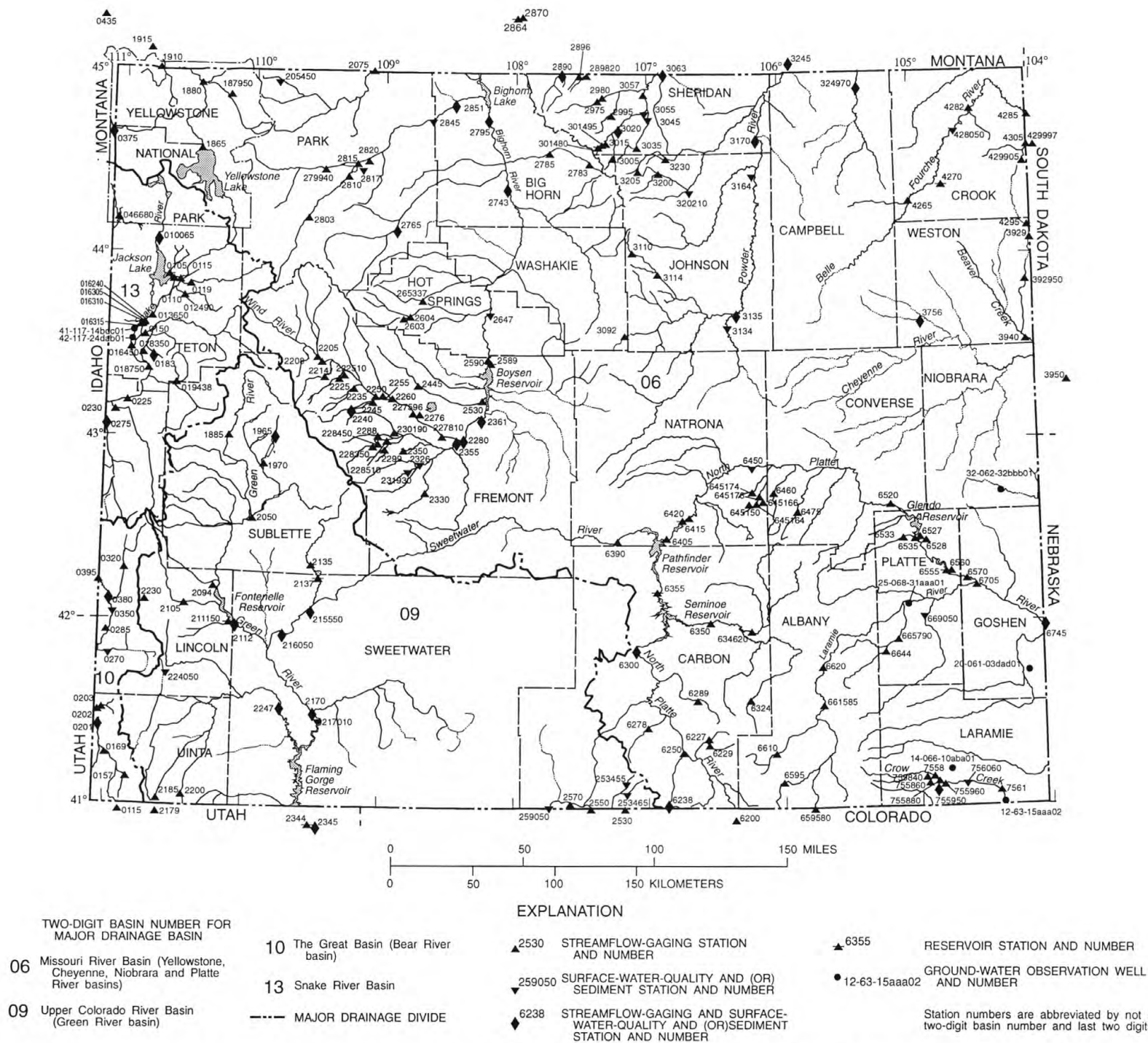


Figure 1. Location of surface-water stations, water-quality stations, stage and/or content stations, and ground-water observation wells, 1996 water year.

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:

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

Wyoming State Engineer, Gordon W. Fassett

Wyoming Department of Agriculture, Ronald Micheli, Commissioner of Agriculture

Wyoming Department of Environmental Quality, Dennis Hemmer, Director

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

Wyoming Water Development Commission, Michael K. Purcell, Administrator

Teton County, County Commissioners

City of Cheyenne, Leo Pando, Mayor

City of Evanston, Dennis J. Ottley, Mayor

Town of Torrington, Ed Jolovich, Mayor

Lingle-Ft. Laramie Conservation District, John Rose, Chairman

Saratoga, Encampment, Rawlins Conservation District, James Wiant, Chairman

Star Valley Conservation District, Le Ron Allred, Chairman

Teton County Natural Resource District, William Glenn, Chairman

Midvale Irrigation District, Bill Brown, Manager

Shoshone Heart Mountain Irrigation District, Dean House, Manager

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

Colorado State University, Dr. Albert Yates, President

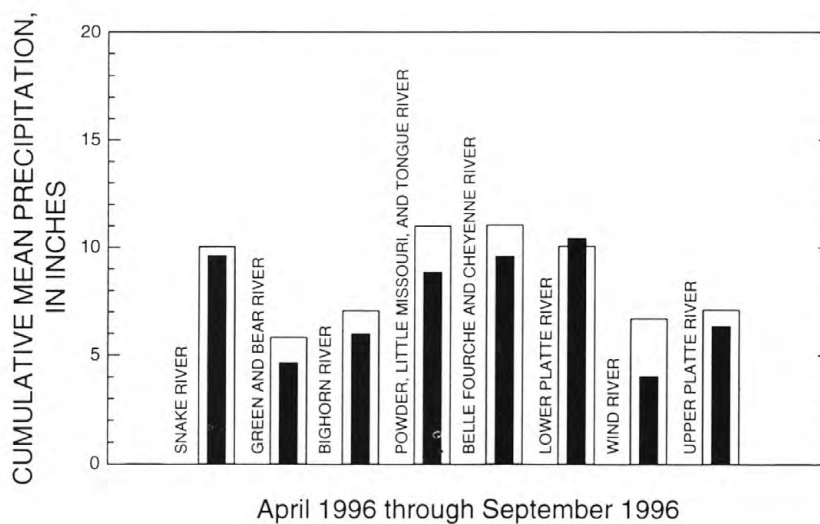
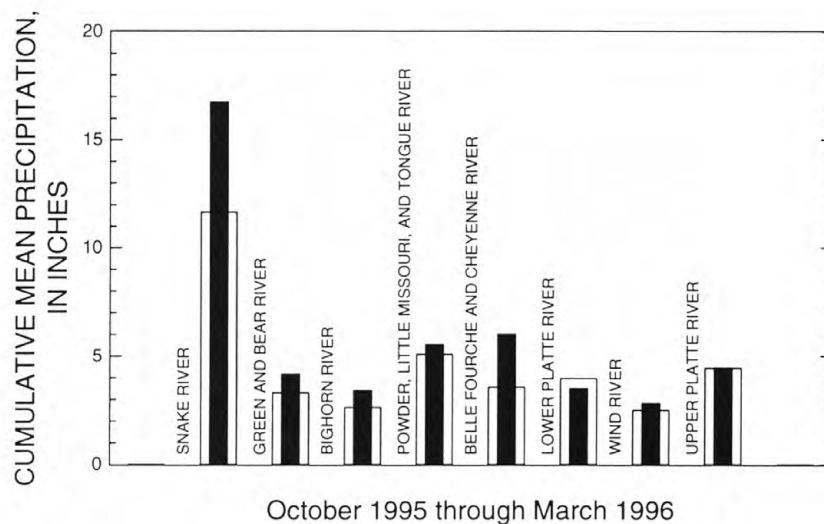
Assistance in the form of funds or services was given by the Bureau of Reclamation, U.S. Department of the Interior for 6 streamflow-gaging stations, 3 water-quality stations, and 2 reservoir stations; by the Corps of Engineers, U.S. Army for 2 streamflow-gaging stations; U.S. Air Force, Department of Defense for 5 streamflow-gaging stations; and National Park Service, Grand Teton National Park, U.S. Department of the Interior for 49 ground-water monitoring wells, published in this report.

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation was near normal to above normal during water year 1996 throughout most of the State. Streamflow at most streamflow-gaging stations in water year 1996 was greater than normal. Localized flooding as a result of snowmelt occurred in parts of the State during water year 1996. Evaluation of a statistical summary of specific conductance indicates no significant change in the general quality of the stream water at five of the six gaging stations at which measurements were made. Ground-water levels collected in observation wells across most of the State were higher in 1996 than in 1995.

Precipitation

Precipitation was near normal to above normal (average for 1961-90) during water year 1996 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 1996 were separated into two time periods (October 1995 through March 1996, and April through September 1996).



EXPLANATION

- Cumulative mean precipitation by major division for portion of year indicated, water year 1996
- Cumulative mean 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 1996 and mean cumulative normal precipitation for 1961-90 by major divisions in Wyoming.

division. Precipitation for the same period was near normal for most of the other divisions. Precipitation from April through September 1996 was less than normal for most of the divisions.

Most of the precipitation data compiled for figure 2 are from 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 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, 1996, prior to the normal intense snowmelt period, was near normal to much greater than normal statewide except for the Belle Fourche and Cheyenne River drainage basins. The snowmelt period in 1996, however, was delayed by about one month in most parts of the State because of lower than normal temperatures. Additional precipitation in combination with the delayed snowmelt caused the mountain snowpack to increase during May 1996. As of June 1, 1996, the mountain snowpack was greater to much greater than normal statewide except for the northeast. The ranges 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, 1996 are listed in the following table:

Drainage basin	Range of snowpack, in percent of normal	
	As of May 1, 1996	As of June 1, 1996
Snake River	112 to 176	169 to 280
Green and Bear Rivers	112 to 173	-- to 353
Bighorn River	118 to 155	154 to 400
Powder and Tongue Rivers	103 to 140	121 to 715
Belle Fourche and Cheyenne Rivers	81	--
Lower Platte River	93 to 138	76 to 152
Wind River	97 to 152	120 to 233
Upper Platte River	111 to 131	106 to 167

Streamflow

Streamflow at most streamflow-gaging stations across the State in water year 1996 was greater than normal. 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 1996 was greater than the median average annual discharge for the period of record. New maximum average monthly and average annual discharges were established for station 06285100 (Shoshone River near Lovell). Average monthly discharge also was much greater than the median average monthly discharge for station 13022500 (Snake River above reservoir, near Alpine) for June, 1996.

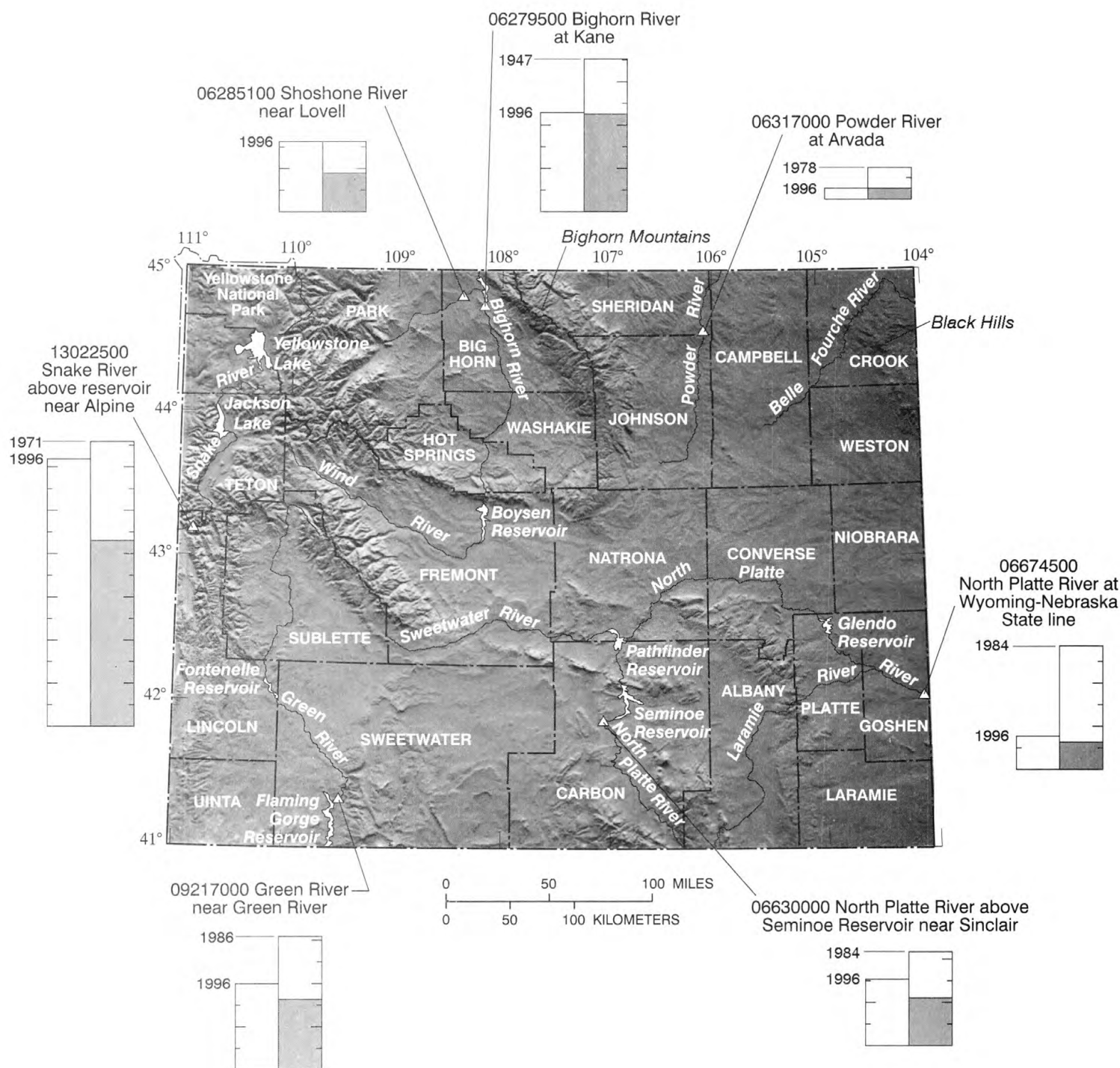
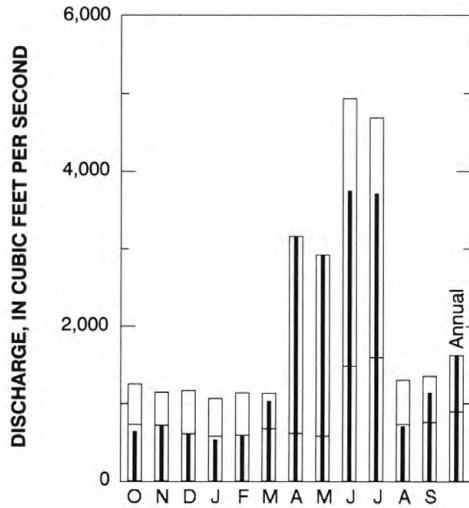
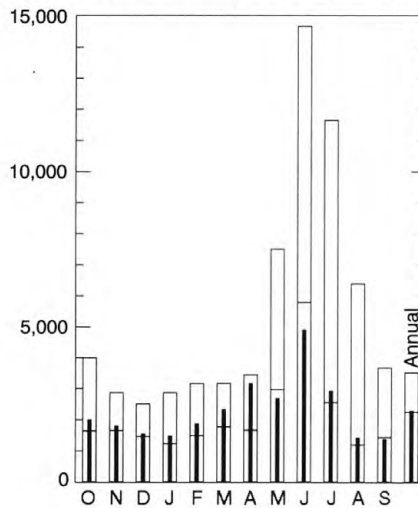


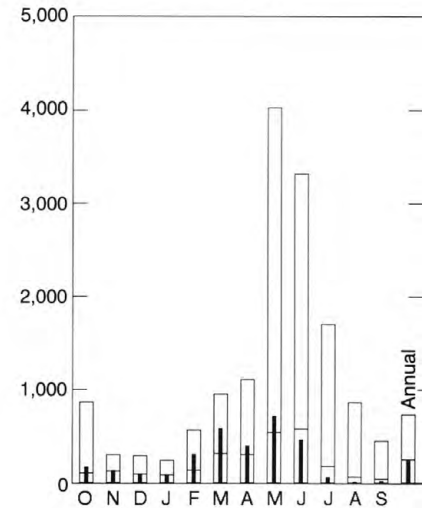
Figure 3. Monthly and annual average discharge of major rivers in Wyoming for water year 1996, and monthly and annual maximum and median discharge for period of record.



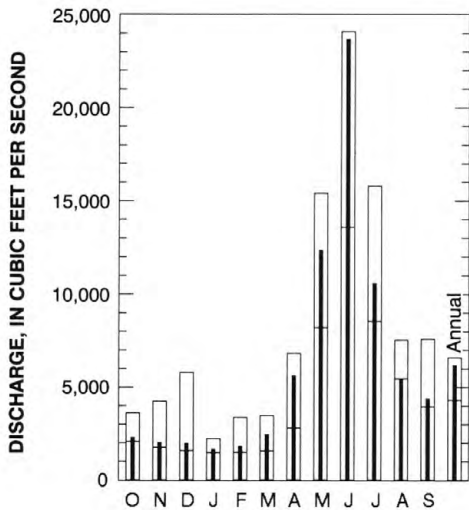
06285100 Shoshone River near Lovell, 1967-96



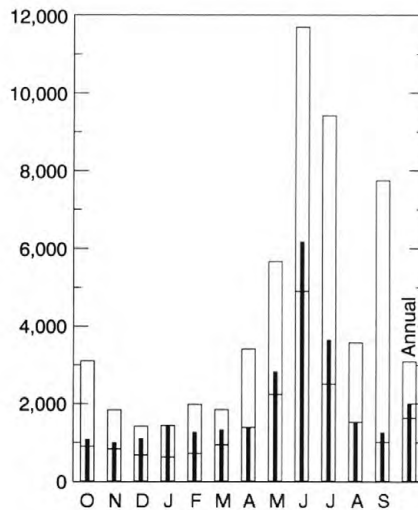
06279500 Bighorn River at Kane, 1930-96



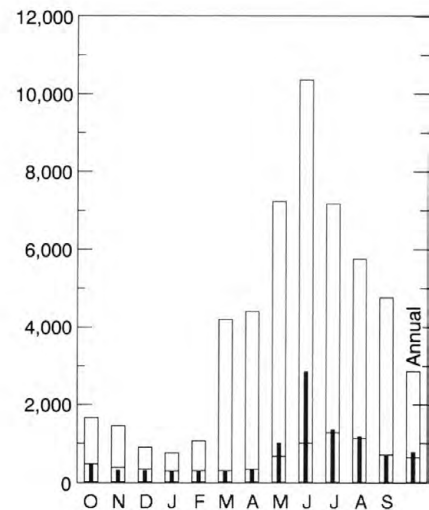
06317000 Powder River at Arvada, 1931-96



13022500 Snake River above reservoir near Alpine, 1954-96



09217000 Green River near Green River, 1952-96



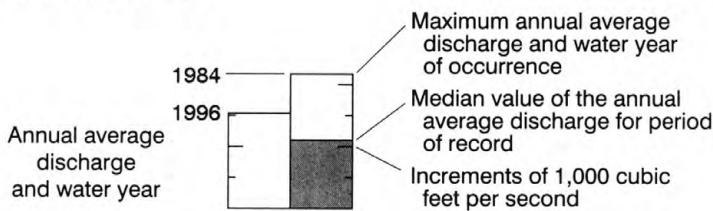
06674500 North Platte River at Wyoming-Nebraska State line, 1929-96

EXPLANATION

COMPARISON OF ANNUAL AVERAGE DISCHARGE

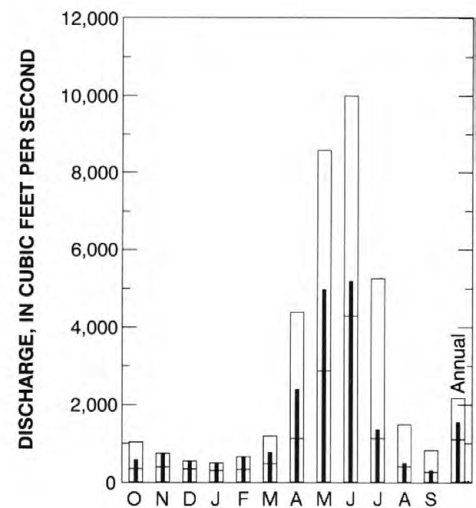
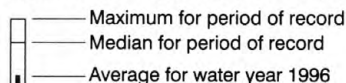
Data for water year 1996

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



06630000 North Platte River above Seminole Reservoir near Sinclair, 1939-96

Floods

Localized flooding as a result of snowmelt occurred in parts of the State during water year 1996. Instantaneous peak discharges recorded in early June 1996, exceeded peaks of record at ten streamflow-gaging stations in northwestern Wyoming. Instantaneous discharge, date of occurrence, and period of operation for peaks of record at those gaging stations are listed in the following table.

Station number	Station name	Peak of record		
		Discharge, in cubic feet per second	Date	Period of operation, water years
06191500	Yellowstone River at Corwin Springs, Montana	32,200	06/10/96	1889-93, 1910-96
06220800	Wind River above Red Creek, near Dubois	7,940	06/10/96	1990-96
06279940	North Fork Shoshone River at Wapiti	11,000	06/09/96	1990-96
13010065	SNAKE River above Jackson Lake, at Flagg Ranch	15,000	06/05/96	1984-96
13013650	SNAKE River at Moose	22,000	06/16/96	1995-96
13015000	Gros Ventre River at Zenith	5,240	06/10/96	1987-96 ¹
13016305	Granite Creek above Granite Creek Supplemental, near Moose	404	06/11/96	1995-96
13016450	Fish Creek at Wilson	1,080	06/16/96	1994-96
13018750	SNAKE River below Flat Creek, near Jackson	24,800	06/11/96	1975-96
13022500	SNAKE River above reservoir, near Alpine	31,600 ²	06/11/96	1937-39, 1953-96

¹ Seasonal station.

² New maximum mean daily discharge.

Chemical Quality of Stream Water

The specific conductance of stream-water samples was measured at six stations from five selected streams in Wyoming during water year 1996 to describe the general chemical quality of the stream water. Specific conductance typically varies directly with the dissolved-solids concentration; thus, specific conductance 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 stations is shown in table 1. The table lists the mean, standard deviation, median, and maximum and minimum specific-conductance values for water year 1996 and for the 10-year period of water years 1986-1995. The mean of the specific conductance values measured in water year 1996 at the six stations was within one standard deviation of the statistical mean established for the previous 10-year period of record for sites on the Bighorn River (06279500), Shoshone River (06285100), Powder River (06317000), North Platte River (06630000), North Platte River (06674500), and Green River (09217000), indicating no significant change has occurred in the general quality of the stream water.

Table 1.--Statistical summary of specific-conductance measurements for selected water samples at selected locations for the 1996 and 1986-1995 water years.

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

Specific Conductance												
Water Year 1996							Water years 1986-1995					
Stream name and station number	Number of values	Mean	Standard deviation	Median	Maximum	Minimum	Number of values	Mean	Standard deviation	Median	Maximum	Minimum
Bighorn River 06279500	8	883	227	860	1160	480	94	969	237	950	1850	458
Shoshone River 06285100	8	692	369	664	1490	276	89	914	310	860	1990	296
Powder River 06317000	5	2180	1040	2110	3650	1080	75	2607	1080	2400	6200	880
North Platte River 06630000	10	357	76	384	431	200	67	404	116	425	700	158
North Platte River 06674500	10	801	92	802	910	684	90	873	101	890	1060	627
Green River 09217000	4	521	74	494	630	468	74	583	175	580	1000	270

Ground-Water Levels

Ground-water levels were monitored in a statewide network of 80 observation wells. Wells are completed in the High Plains aquifer and are located in areas of ground-water withdrawal in southeastern and south-central Wyoming make up 65 percent of the observation-well network. Ground water is withdrawn from the High Plains aquifer for irrigation in Niobrara, Platte, Goshen, and eastern Laramie Counties. Ground water also is withdrawn from the High Plains aquifer for domestic use in central Laramie County. In northeastern Wyoming, water levels are monitored in several wells completed in Paleozoic aquifers.

Water levels were measured in at least one observation well in 15 of the 23 counties in Wyoming. During 1996, 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, or an air line.

Changes in water levels for the entire statewide observation-well network, wells completed in the High Plains aquifer, and wells completed in the Madison and Pahasapa Formations of Lower Mississippian age are summarized in table 2. The changes in water levels from water year 1995 to water year 1996 were determined from the difference between the highest water levels measured each year. Some wells in the network were not included in the comparison of water-level changes between years because insufficient data were collected at the wells for an accurate comparison. Most of the wells that were not included in the comparison of water-level changes between years were hand-measured wells, where only two or three measurements per year were taken.

Table 2--Changes in ground-water levels in statewide network of 80 observation wells, wells in the High Plains aquifer, and wells completed in the Madison and Pahasapa Formations

	Years	Increase in water level (number of wells)	Average increase (in feet)	Decrease in water level (number of wells)	Average decrease (in feet)	No change in water level (number of wells)	Insufficient data for comparison (number of wells)
Total network	1995-96	39	1.40	27	-1.09	2	12
High plains aquifer	1995-96	24	.78	23	-.66	1	4
Madison and Pahasapa Formations	1995-96	6	5.19	0	--	1	5

Hydrographs for representative observation wells in southeastern Wyoming are shown in figure 4. The location of all wells in the network, hydrographs, and selected ground-water-level statistics are published in separate reports. The most recent report "Ground-Water Levels in Wyoming, January 1986 through September 1995," U.S. Geological Survey Open-File Report 96-648 by J.P. Mason and S.L. Green, is available for inspection at the USGS in Cheyenne, Wyoming.

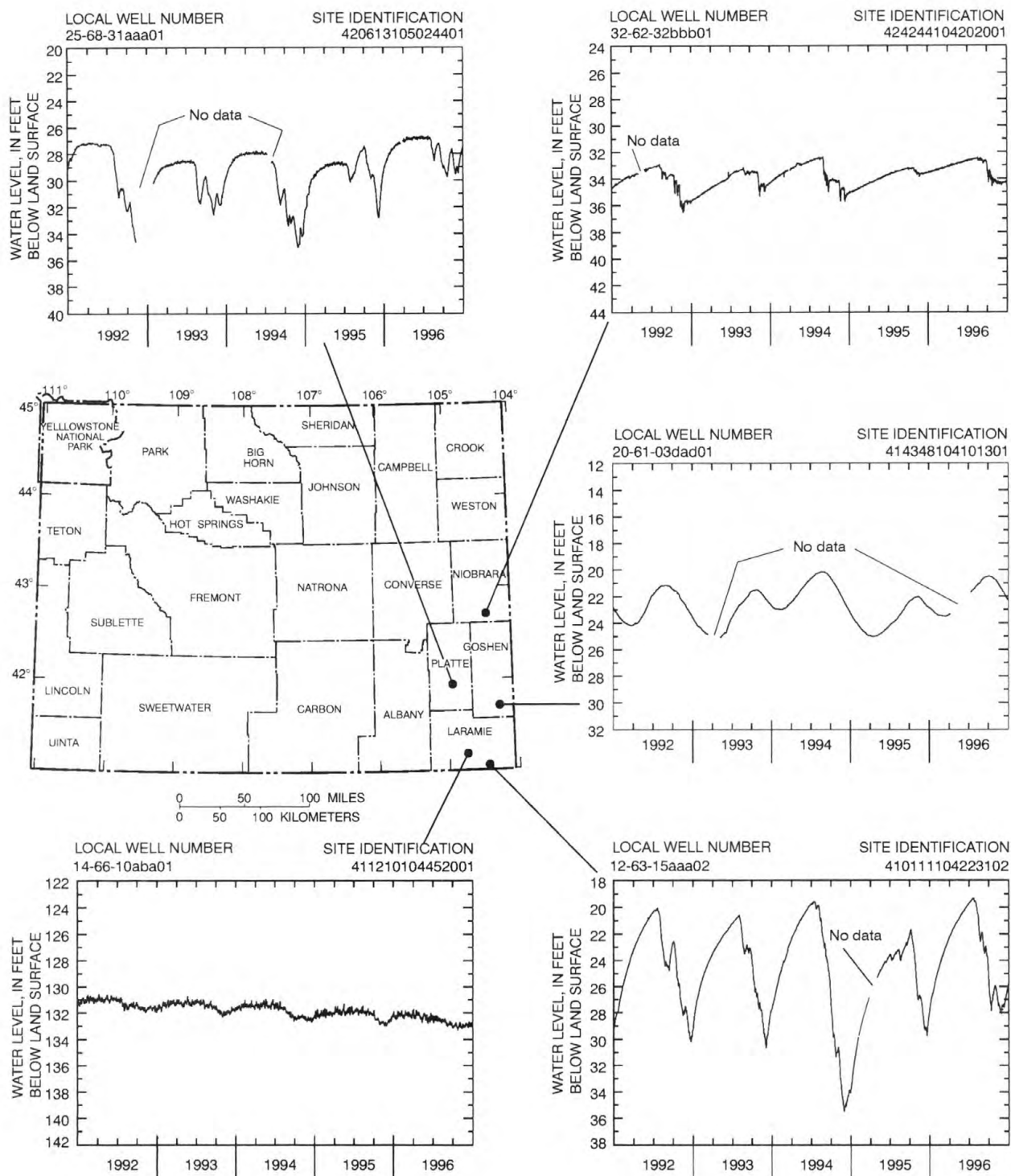


Figure 4. Water-level hydrographs for observation wells in areas of extensive ground-water withdrawals, October 1991 to September 1996.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 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) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determine global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) to provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) to provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

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

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://www.rvares.er.usgs.gov/nawqa/nawqa_home.html

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 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 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 surface-water stations, the "latitude-longitude" system is used for wells and, in Wyoming, for surface-water stations where only miscellaneous measurements are made.

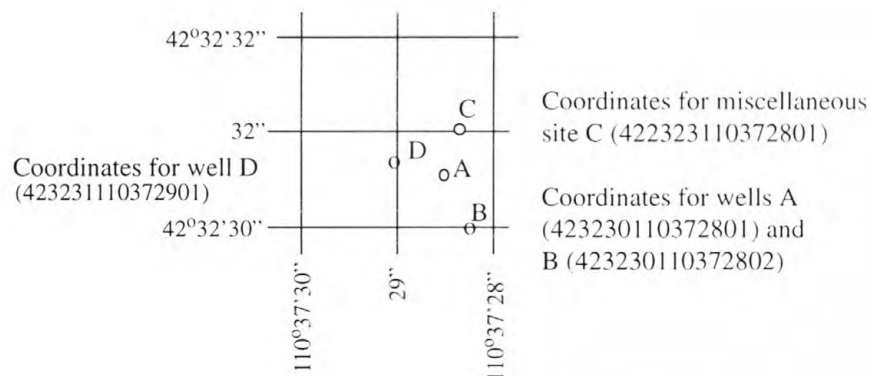
Downstream-Order System

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 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

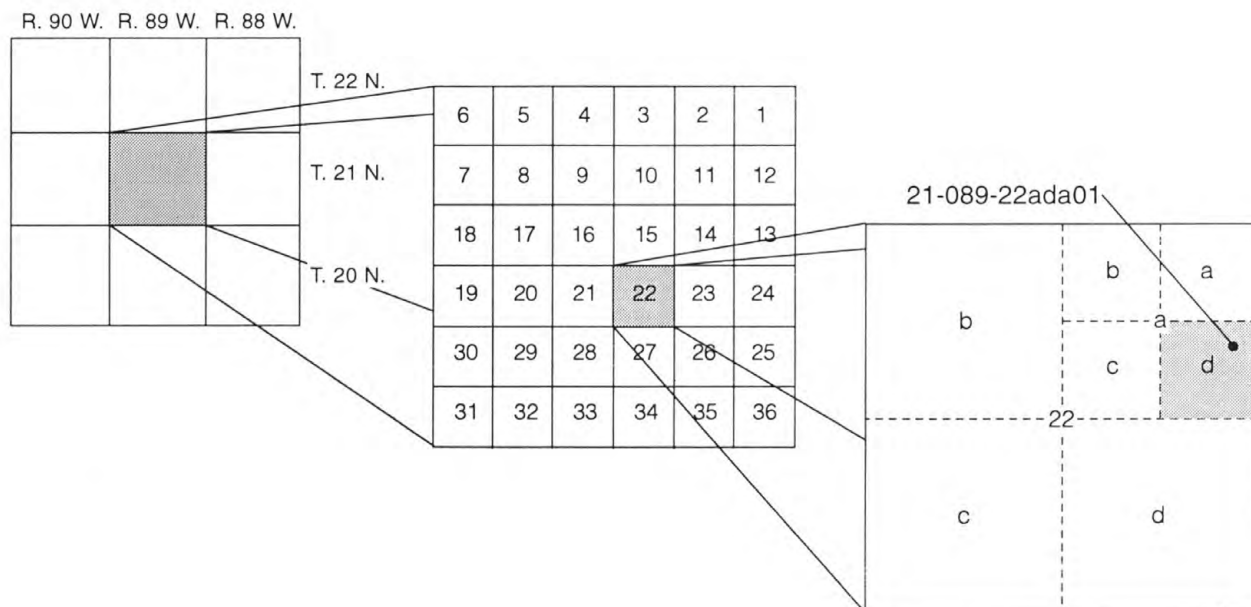
The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of north latitude, the next seven digits denote degrees, minutes, 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, northwestern, southwestern, and southeastern 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 northeastern 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 continuous or partial. Continuous 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. Continuous 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 continuous-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data obtained at a continuous-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 continuous-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 Investigations, 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 reasonably can 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 to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

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

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

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

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were 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 always is 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 usually is 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 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.

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 at 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 0.0027.

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 are 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. Samples for suspended-sediment are analyzed at the U.S. Geological Survey laboratory in Helena, Montana. Samples for all other constituents 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 identified 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 continuing-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.

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 as follows:

- 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 provided the public with direct access to WATSTORE. The signing of a Memorandum of Agreement with the U.S. Geological 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.

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 Benchmark Network is a network of about 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 an aqueous 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 at 25 degrees Celsius). 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 μ m 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.

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.

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.

TWRI is used as an abbreviation for "Techniques of Water-Resources Investigations" in reference to previously published reports.

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 abbreviation 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 publication as the need arises.

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

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

MADISON RIVER BASIN

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.

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 times during 1927-30.

REMARKS.--Records good. No regulation or diversions upstream from station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	441	592	444	e380	431	435	629	1750	812	601	536
2	429	414	707	438	e360	429	468	676	1780	796	599	533
3	444	427	535	457	e370	432	445	677	2010	785	580	533
4	524	433	521	454	e380	464	435	646	2280	770	581	539
5	475	440	487	447	e400	466	419	624	2300	752	581	557
6	464	454	497	436	e420	440	426	626	2100	733	611	558
7	481	450	487	444	441	437	450	758	1910	714	599	543
8	487	457	480	447	458	439	511	780	1900	696	581	539
9	473	524	465	449	466	440	577	920	1970	683	573	534
10	468	478	484	460	447	457	675	1020	1920	666	568	531
11	468	465	490	447	429	459	737	1100	1810	646	563	533
12	495	482	506	441	426	462	689	1260	1680	636	560	559
13	503	475	585	441	432	456	622	1350	1570	633	560	551
14	477	500	526	441	439	444	560	1540	1510	623	563	561
15	487	509	500	450	434	442	538	1820	1460	628	604	559
16	480	492	494	459	429	432	576	2040	1390	637	576	586
17	472	486	479	468	432	432	642	2640	1320	677	566	605
18	505	485	459	405	442	423	599	2750	1280	651	561	579
19	506	513	455	458	454	415	570	2590	1160	630	557	577
20	464	472	456	452	448	421	537	2160	1070	618	551	578
21	472	456	459	470	443	431	521	1760	1040	613	547	563
22	480	465	451	464	458	440	501	1570	1100	608	544	559
23	454	460	453	458	438	452	496	1580	1110	603	541	549
24	458	463	460	463	449	423	567	1550	1000	599	538	548
25	470	471	445	460	463	408	654	1350	963	596	544	559
26	476	548	441	447	445	416	657	1430	927	590	550	563
27	472	498	441	452	421	419	682	1660	901	587	552	557
28	461	491	450	474	406	448	607	1730	895	588	575	556
29	465	483	441	456	419	450	589	1930	878	597	557	557
30	468	533	448	458	---	432	582	2040	839	726	548	549
31	458	---	458	e400	---	427	---	1960	---	636	540	---
TOTAL	14669	14265	15152	13940	12429	13567	16767	45166	43823	20529	17571	16651
MEAN	473	475	489	450	429	438	559	1457	1461	662	567	555
MAX	524	548	707	474	466	466	737	2750	2300	812	611	605
MIN	429	414	441	400	360	408	419	624	839	587	538	531
AC-FT	29100	28290	30050	27650	24650	26910	33260	89590	86920	40720	34850	33030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1996, BY WATER YEAR (WY)*

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	428	418	409	398	394	401	491	833	808	495	428	422
MAX	710	697	568	582	572	539	671	1457	1461	917	759	704
(WY)	1914	1914	1914	1914	1914	1917	1925	1996	1996	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

06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1913 - 1996*	
ANNUAL TOTAL	207079		244529		--	
ANNUAL MEAN	567		668		492	
HIGHEST ANNUAL MEAN	--		--		668	
LOWEST ANNUAL MEAN	--		--		337	
HIGHEST DAILY MEAN	1650	Jun 6	2750	May 18	2750	May 18 1996
LOWEST DAILY MEAN	340	Jan 2	360	Feb 2	245	Jan 1 1942
ANNUAL SEVEN-DAY MINIMUM	372	Jan 1	387	Jan 31	267	Aug 6 1931
INSTANTANEOUS PEAK FLOW	--		2820	May 18	2820 ^b	May 18 1996
INSTANTANEOUS PEAK STAGE	--		3.78	May 18	10.00 ^c	Jan 8 1937
INSTANTANEOUS LOW FLOW	--		355 ^a	Feb 28	100 ^d	Feb 7 1933
ANNUAL RUNOFF (AC-FT)	410700		485000		356500	
10 PERCENT EXCEEDS	923		1290		739	
50 PERCENT EXCEEDS	470		517		427	
90 PERCENT EXCEEDS	422		433		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).

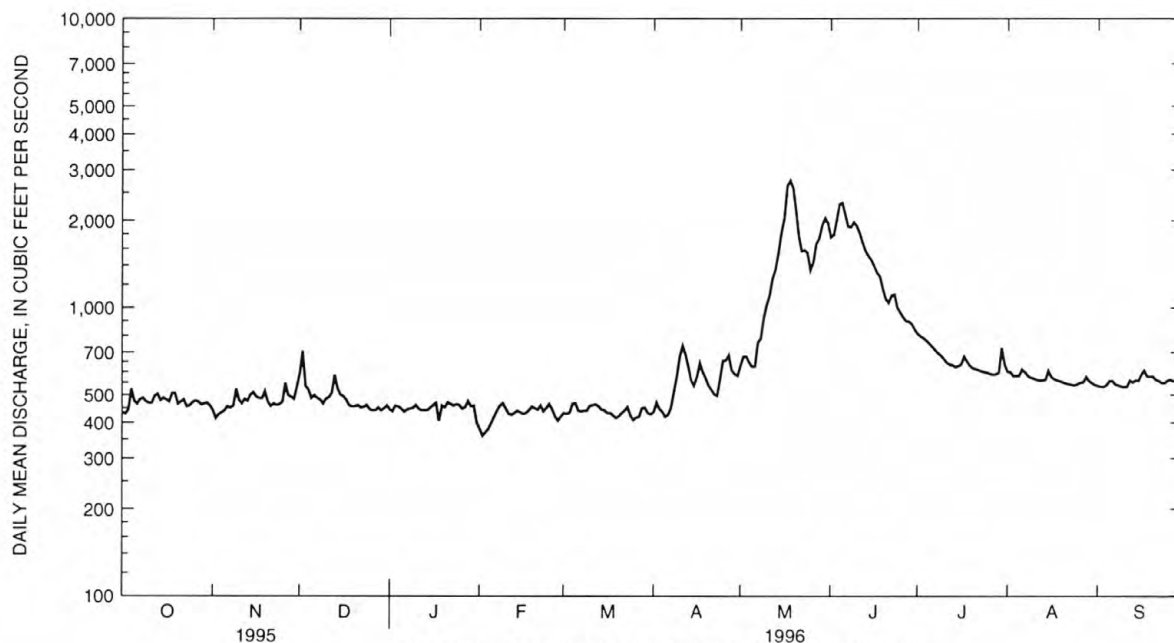
a Gage height, 1.77 ft, may have been less during ice-affected period.

b Gage height, 3.78 ft.

c About; backwater from ice.

d Result of freezeup.

e Estimated.



06037500 MADISON RIVER NEAR WEST YELLOWSTONE, WY

GALLATIN RIVER BASIN

06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MT

LOCATION.--Lat 45°29'51", long 111°16'11" in 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 except those for estimated daily discharges, which are fair. Diversions for irrigation of about 1,400 acres upstream from station. U.S. Geological Survey data collection platform with satellite telemetry at station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	402	465	e240	e270	e250	365	564	3170	2440	828	515
2	488	321	500	e220	e220	e260	377	580	3280	2460	817	510
3	516	354	390	e210	e200	e250	326	572	3830	2390	785	505
4	569	400	423	e210	e220	e240	334	549	4790	2310	779	501
5	526	448	323	e220	e240	e240	312	525	5630	2370	759	513
6	506	452	334	e240	e250	e250	354	529	5400	2190	745	525
7	542	433	355	e270	e270	e260	453	556	5280	1890	720	504
8	521	463	307	e300	292	e270	583	613	5890	1750	695	494
9	521	487	289	346	315	297	725	689	6380	1670	680	486
10	513	443	398	348	325	322	926	808	6760	1640	664	479
11	542	433	434	337	287	344	1020	935	6520	1560	652	474
12	594	465	438	323	280	373	749	1180	6230	1460	641	487
13	561	449	425	322	305	365	605	1800	6110	1390	624	491
14	535	449	390	312	321	322	541	2490	6110	1330	643	492
15	558	443	378	341	319	341	544	3160	5720	1280	690	497
16	553	439	384	341	304	340	615	3570	5510	1270	638	564
17	534	430	350	326	306	327	681	4080	5480	1260	624	560
18	598	436	279	276	319	310	577	4080	5250	1180	630	514
19	541	437	e260	286	323	289	542	3390	4250	1140	621	503
20	504	385	e250	317	310	311	511	2750	3570	1080	595	505
21	542	389	e250	328	314	363	497	2460	3260	1030	579	495
22	520	452	e240	311	325	359	474	2520	3750	995	572	484
23	458	422	e230	293	298	340	485	2650	3380	962	562	473
24	500	416	e230	294	285	271	701	2330	3090	933	552	472
25	514	427	e220	304	274	257	691	2150	3200	905	545	485
26	511	439	e220	308	254	299	669	2320	3220	879	545	485
27	492	419	e220	286	e240	304	663	2650	3190	858	539	482
28	464	419	e220	284	e230	298	595	2850	2990	838	558	487
29	509	426	e230	e270	e230	298	574	3260	2720	848	553	486
30	478	460	e250	e280	---	287	562	3530	2530	921	537	474
31	410	---	e250	e300	---	298	---	3360	---	848	523	---
TOTAL	16125	12838	9932	9043	8126	9335	17051	63500	136490	44077	19895	14942
MEAN	520	428	320	292	280	301	568	2048	4550	1422	642	498
MAX	598	487	500	348	325	373	1020	4080	6760	2460	828	564
MIN	410	321	220	210	200	240	312	525	2530	838	523	472
AC-FT	31980	25460	19700	17940	16120	18520	33820	126000	270700	87430	39460	29640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1996, BY WATER YEAR (WY)*

MEAN	456	382	322	306	304	310	503	1789	2944	1299	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

GALLATIN RIVER BASIN

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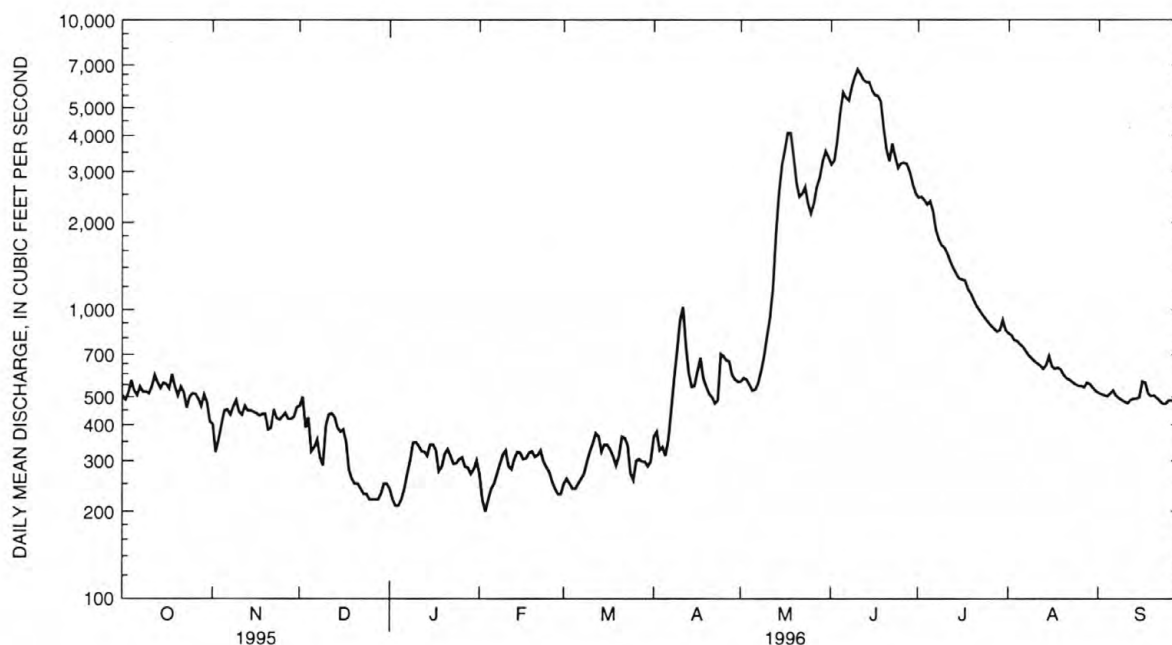
06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1889 - 1996*	
ANNUAL TOTAL	384849		361354		--	
ANNUAL MEAN	1054		987		813	
HIGHEST ANNUAL MEAN	--		--		1184	1976
LOWEST ANNUAL MEAN	--		--		408	1934
HIGHEST DAILY MEAN	6670	Jun 6	6760	Jun 10	8970	Jun 17 1974
LOWEST DAILY MEAN	200	Jan 4	200	Feb 3	174	Nov 21 1931
ANNUAL SEVEN-DAY MINIMUM	224	Dec 23	224	Dec 23	182	Jan 18 1931
INSTANTANEOUS PEAK FLOW	--		7010	Jun 11	9100	Jun 17 1974
INSTANTANEOUS PEAK STAGE	--		6.11	Jun 11	7.38	Jun 17 1974
INSTANTANEOUS LOW FLOW	--		--		117 ^a	Jan 19 1935
ANNUAL RUNOFF (AC-FT)	763300		716700		588700	
10 PERCENT EXCEEDS	3300		2890		2040	
50 PERCENT EXCEEDS	502		496		430	
90 PERCENT EXCEEDS	290		267		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, 0.68 ft, result of freezeup.

e Estimated.



06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MT

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 upstream from station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	706	660	e570	e500	e570	e580	652	2960	8490	4280	1870
2	1050	700	674	e560	e500	e570	e580	657	3080	8410	4160	1810
3	1050	688	659	e560	e500	e570	581	667	3190	8350	4030	1770
4	1050	685	667	e560	e500	e570	577	668	3470	8310	3870	1720
5	1030	679	656	e550	e500	e580	576	673	3770	8290	3760	1690
6	1010	673	656	e550	e510	e580	572	673	4080	8220	3580	1650
7	1000	670	652	e550	e510	e580	569	672	4370	8080	3520	1600
8	988	666	638	e540	e510	e580	568	676	4720	7940	3420	1570
9	977	671	635	e540	e510	e590	565	677	5110	7790	3320	1530
10	964	665	639	e540	e520	e590	564	682	5560	7670	3240	1500
11	947	674	642	e530	e520	e590	566	690	6020	7520	3160	1470
12	945	676	649	e530	e520	e590	570	705	6440	7360	3060	1460
13	939	675	664	e530	e520	598	573	735	6850	7200	2990	1430
14	920	672	656	e530	e530	600	576	806	7210	7000	2890	1410
15	912	664	651	e520	e530	597	574	918	7600	6830	2830	1400
16	906	660	642	e520	e530	594	575	1060	7950	6690	2760	1380
17	891	655	637	e520	e530	590	580	1260	8250	6600	2700	1350
18	886	657	630	e520	e540	587	586	1470	8510	6420	2640	1330
19	876	649	624	e520	e540	582	601	1660	8660	6230	2530	1300
20	862	641	619	e520	e540	578	600	1770	8690	6080	2470	1270
21	846	634	613	e510	e540	576	602	1850	8640	5910	2400	1240
22	829	630	607	e510	e550	e570	605	1930	8620	5710	2330	1230
23	827	625	605	e510	e550	e570	610	2020	8720	5540	2280	1190
24	813	617	604	e510	e550	e570	632	2100	8690	5360	2230	1170
25	802	633	603	e510	e550	e570	645	2130	8640	5210	2180	1150
26	782	644	e590	e510	e560	e570	642	2210	8650	5050	2130	1110
27	767	644	e590	e510	e560	e570	643	2290	8690	4890	2080	1090
28	754	647	e580	e510	e560	e580	648	2390	8730	4770	2040	1080
29	746	646	e580	e500	e560	e580	648	2510	8690	4650	1990	1070
30	737	657	e570	e500	---	e580	649	2690	8580	4550	1960	1050
31	724	---	e570	e500	---	e580	---	2850	---	4410	1920	---
TOTAL	27900	19803	19462	16340	15340	18002	17857	42741	203140	205530	88750	41890
MEAN	900	660	628	527	529	581	595	1379	6771	6630	2863	1396
MAX	1070	706	674	570	560	600	649	2850	8730	8490	4280	1870
MIN	724	617	570	500	500	570	564	652	2960	4410	1920	1050
AC-FT	55340	39280	38600	32410	30430	35710	35420	84780	402900	407700	176000	83090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1996, BY WATER YEAR (WY)*

MEAN	802	606	472	391	380	441	544	1135	3621	4048	2221	1215
MAX	1259	984	775	639	628	717	801	2194	6771	7160	4031	1954
(WY)	1973	1951	1951	1971	1971	1962	1952	1952	1996	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

06186500 YELLOWSTONE RIVER AT YELLOWSTONE LAKE OUTLET, YELLOWSTONE NATIONAL PARK--Continued

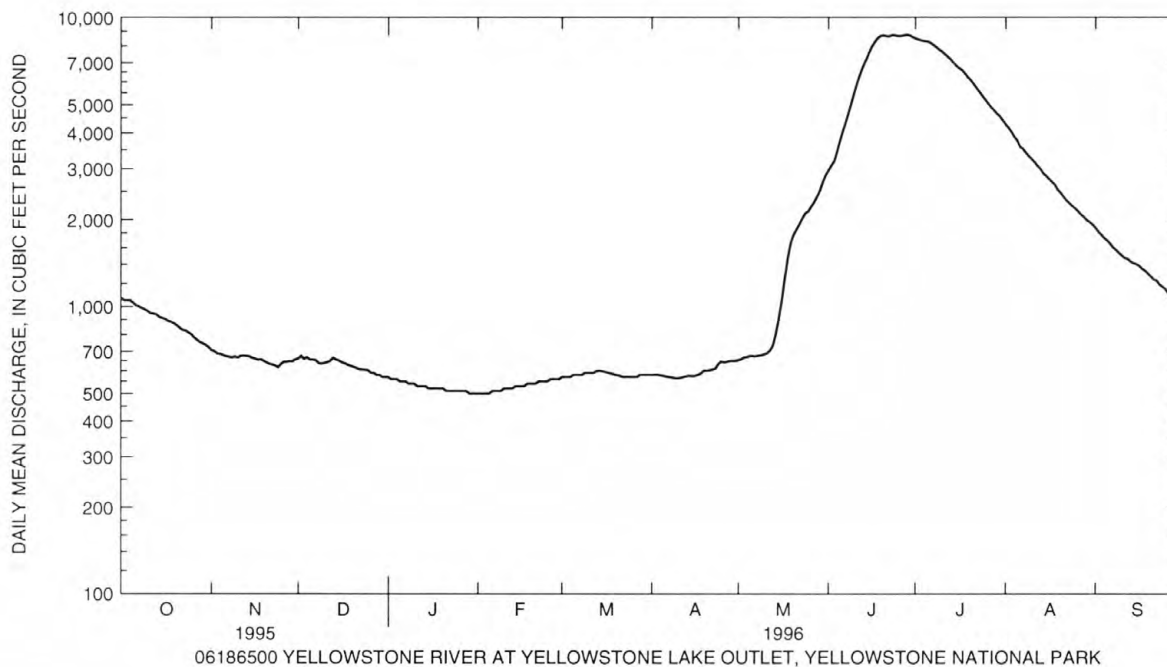
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1927 - 1996*	
ANNUAL TOTAL	546917		716755		--	
ANNUAL MEAN	1498		1958		1328	
HIGHEST ANNUAL MEAN	--		--		1958	1996
LOWEST ANNUAL MEAN	--		--		682	1934
HIGHEST DAILY MEAN	5730	Jul 13	8730	Jun 28	9120	Jun 28 1974
LOWEST DAILY MEAN	250	Jan 1	500	Jan 29	100 ^a	Feb 18 1993
ANNUAL SEVEN-DAY MINIMUM	253	Jan 1	500	Jan 29	113	Feb 11 1989
INSTANTANEOUS PEAK FLOW	--		8770	Jun 28	9170 ^b	Jun 28 1974
INSTANTANEOUS PEAK STAGE	--		8.25	Jun 28	8.25	Jun 28 1996
ANNUAL RUNOFF (AC-FT)	1085000		1422000		962200	
ANNUAL RUNOFF (CFSM)	1.49		1.95		1.32	
ANNUAL RUNOFF (INCHES)	20.22		26.50		17.94	
10 PERCENT EXCEEDS	4620		6430		3460	
50 PERCENT EXCEEDS	667		675		676	
90 PERCENT EXCEEDS	310		530		332	

* During periods of operation (October 1926 to September 1982, October 1983 to September 1986, October 1988 to current year).

a May have been less during periods of ice effect.

b Gage height, 8.20 ft.

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 for June, which are fair. No regulation or diversion upstream of station. U.S. Geological Survey data collection platform with satellite telemetry at station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	30	49	28	e21	e23	24	70	650	747	183	66
2	49	e32	51	e28	e20	23	24	71	741	794	176	65
3	52	e34	38	28	e21	23	23	71	1050	801	166	64
4	54	e37	41	e28	e23	24	22	67	1550	780	153	64
5	50	39	e28	e28	e25	24	22	66	1900	773	143	65
6	48	39	e27	e29	e26	e23	25	69	1720	709	144	64
7	50	38	e28	30	e27	23	27	73	1750	620	133	60
8	49	41	e26	29	27	23	33	75	2020	569	126	58
9	49	45	e25	30	27	24	42	83	2070	539	123	57
10	49	40	e31	30	e26	24	56	94	1990	540	119	56
11	50	37	37	30	e24	24	64	105	1720	509	115	53
12	55	42	38	e29	e24	25	62	136	1540	471	113	57
13	55	44	39	e28	e25	24	55	250	1500	441	112	55
14	53	45	38	e28	25	22	55	397	1550	415	112	60
15	53	45	38	29	e24	23	60	584	1420	394	141	73
16	53	44	38	30	e23	23	68	739	1410	399	114	68
17	53	43	33	e28	e23	23	70	855	1340	367	107	79
18	55	45	e30	e25	24	21	63	679	1230	334	108	69
19	53	47	e28	e26	25	e20	60	546	961	319	100	67
20	49	33	e27	e28	24	22	58	446	812	292	93	63
21	50	33	29	29	24	23	57	401	785	265	88	60
22	49	43	e28	28	24	21	57	412	958	258	85	59
23	40	40	e27	e28	e22	20	58	417	875	248	83	57
24	44	39	e26	28	e23	e20	83	360	817	234	80	56
25	46	40	e25	28	23	e20	83	369	907	225	78	58
26	47	42	e24	e27	e22	e21	83	440	950	218	77	57
27	45	35	e23	e28	e21	22	78	438	948	208	76	52
28	44	34	e23	e28	e21	e21	71	535	854	200	76	50
29	47	35	e23	e27	e22	e21	69	709	764	200	74	55
30	45	46	24	e25	---	22	67	734	749	231	71	53
31	39	---	25	e23	---	23	---	686	---	195	69	---
TOTAL	1527	1187	967	868	686	695	1619	10977	37531	13295	3438	1820
MEAN	49.3	39.6	31.2	28.0	23.7	22.4	54.0	354	1251	429	111	60.7
MAX	55	47	51	30	27	25	83	855	2070	801	183	79
MIN	39	30	23	23	20	20	22	66	650	195	69	50
AC-FT	3030	2350	1920	1720	1360	1380	3210	21770	74440	26370	6820	3610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	42.5	31.5	24.5	23.7	21.7	23.0	68.7	406
MAX	50.5	39.6	31.2	28.0	25.8	31.0	127	580
(WY)	1993	1996	1996	1996	1992	1992	1990	1993
MIN	27.8	21.4	16.0	16.7	16.9	20.1	32.3	217
(WY)	1989	1995	1989	1989	1995	1989	1993	1995

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

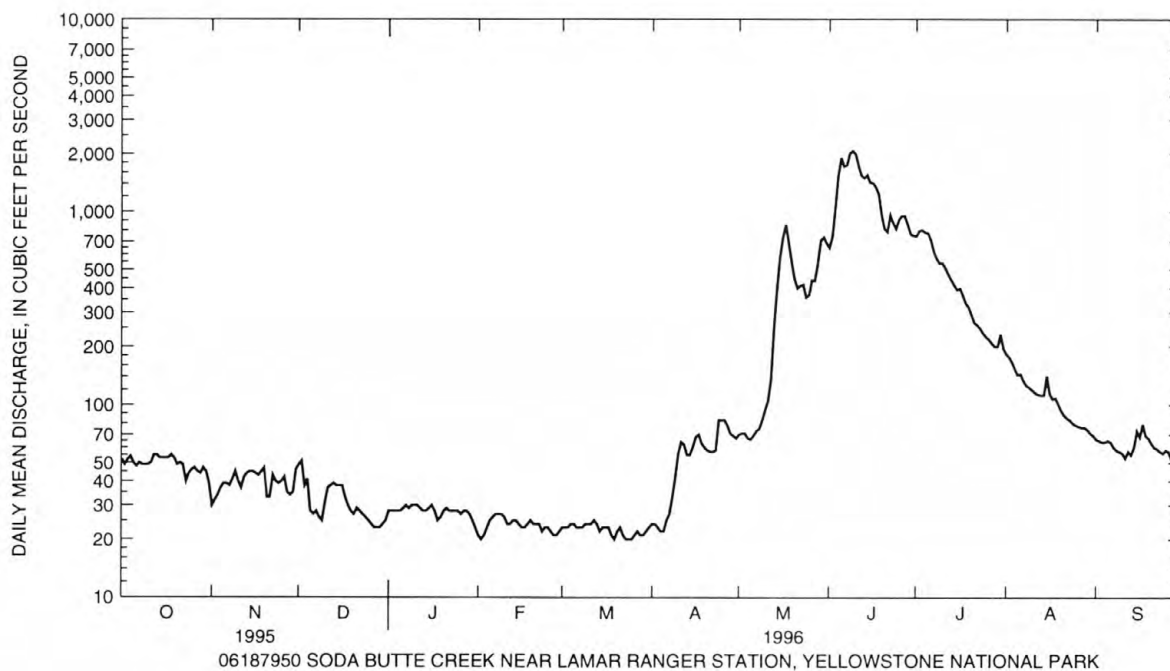
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	56338		74610		--	
ANNUAL MEAN	154		204		151	
HIGHEST ANNUAL MEAN	--		--		204	1996
LOWEST ANNUAL MEAN	--		--		108	1994
HIGHEST DAILY MEAN	1810	Jun 6	2070	Jun 9	2070	Jun 9 1996
LOWEST DAILY MEAN	12	Jan 3	20	Feb 2	12 ^b	Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	14	Feb 10	21	Mar 22	13	Feb 2 1989
INSTANTANEOUS PEAK FLOW	--		2450	Jun 8	2450 ^c	Jun 8 1996
INSTANTANEOUS PEAK STAGE	--		5.61	Jun 8	5.64	Jun 6 1995
INSTANTANEOUS LOW FLOW	--		15 ^a	Mar 19	11	Jan 31 1989
ANNUAL RUNOFF (AC-FT)	111700		148000		109600	
10 PERCENT EXCEEDS	557		735		509	
50 PERCENT EXCEEDS	46		52		44	
90 PERCENT EXCEEDS	18		23		21	

a Result of freezeup; may have been lower during periods of ice effect.

b Also occurred Jan. 3, 1995.

c Gage height, 5.61 ft.

e Estimated.



YELLOWSTONE RIVER BASIN

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. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	e150	263	e150	e110	e110	e140	732	5840	4200	701	e220
2	187	e160	332	e140	e100	e120	e150	771	6410	4350	657	e220
3	187	e170	217	e150	e110	e120	e140	769	8120	4270	611	e210
4	235	e190	237	e140	e110	e130	e130	721	10200	4080	579	e210
5	212	e200	e200	e140	e120	e120	e130	648	12000	3840	545	e210
6	194	e200	e170	e150	e120	e110	e150	630	10800	3440	e550	223
7	206	e190	e180	e160	e130	e120	e220	e700	10900	2910	e520	208
8	221	e200	e160	e160	e140	e130	329	e800	12900	2580	e500	201
9	207	e220	e150	e160	e130	e140	512	e900	15000	2340	e480	193
10	207	e200	e180	e160	e120	e140	878	e1000	15600	2340	e460	190
11	226	e170	e200	e160	e110	e150	1260	e1200	14500	2260	e440	187
12	272	e180	e220	e150	e110	e150	1050	e1500	12900	1980	e430	194
13	268	e190	e230	e140	e120	e140	773	e2500	12400	1800	e420	196
14	242	e190	e220	e140	e120	e140	660	e4000	12500	1680	e420	194
15	249	e190	e220	e150	e110	e130	672	e6000	11500	1560	e480	268
16	254	e180	e200	e150	e110	e130	871	e8000	11100	1510	e450	247
17	245	176	e170	e140	e120	e130	985	e9000	10200	1540	e400	314
18	249	175	e160	e120	e130	e120	806	e7000	9770	1350	e380	303
19	260	195	e150	e130	e130	e120	681	e6000	7210	1240	e350	275
20	210	155	e150	e140	e130	e130	593	e5000	5840	1150	e320	254
21	222	e170	e160	e150	e130	e140	552	e4000	5630	1040	e300	247
22	219	204	e150	e140	e120	e140	517	e4100	6710	985	e280	238
23	169	176	e150	e140	e110	e130	516	4180	6090	935	e270	231
24	169	167	e140	e140	e120	e130	775	3450	5410	882	e260	212
25	204	176	e140	e140	e110	e120	929	3480	5950	842	e250	218
26	199	200	e140	e130	e110	e120	928	4240	5990	817	e250	219
27	188	175	e130	e140	e100	e130	937	4160	5740	778	e240	209
28	173	161	e130	e140	e100	e140	791	5050	5210	747	e240	202
29	195	176	e130	e130	e110	e140	770	6510	4550	725	e230	251
30	186	213	e140	e130	---	e130	712	6500	4350	917	e230	245
31	157	---	e160	e120	---	e140	---	5900	---	782	e220	---
TOTAL	6613	5499	5579	4430	3390	4040	18557	109441	271320	59870	12463	6789
MEAN	213	183	180	143	117	130	619	3530	9044	1931	402	226
MAX	272	220	332	160	140	150	1260	9000	15600	4350	701	314
MIN	157	150	130	120	100	110	130	630	4350	725	220	187
AC-FT	13120	10910	11070	8790	6720	8010	36810	217100	538200	118800	24720	13470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1996, BY WATER YEAR (WY)*

	MEAN	214	156	120	106	101	108	450	2738	4209	1353	352	227
MAX	485	330	202	200	171	204	1684	6885	9044	3256	886	518	
(WY)	1942	1928	1951	1969	1969	1992	1990	1928	1996	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	

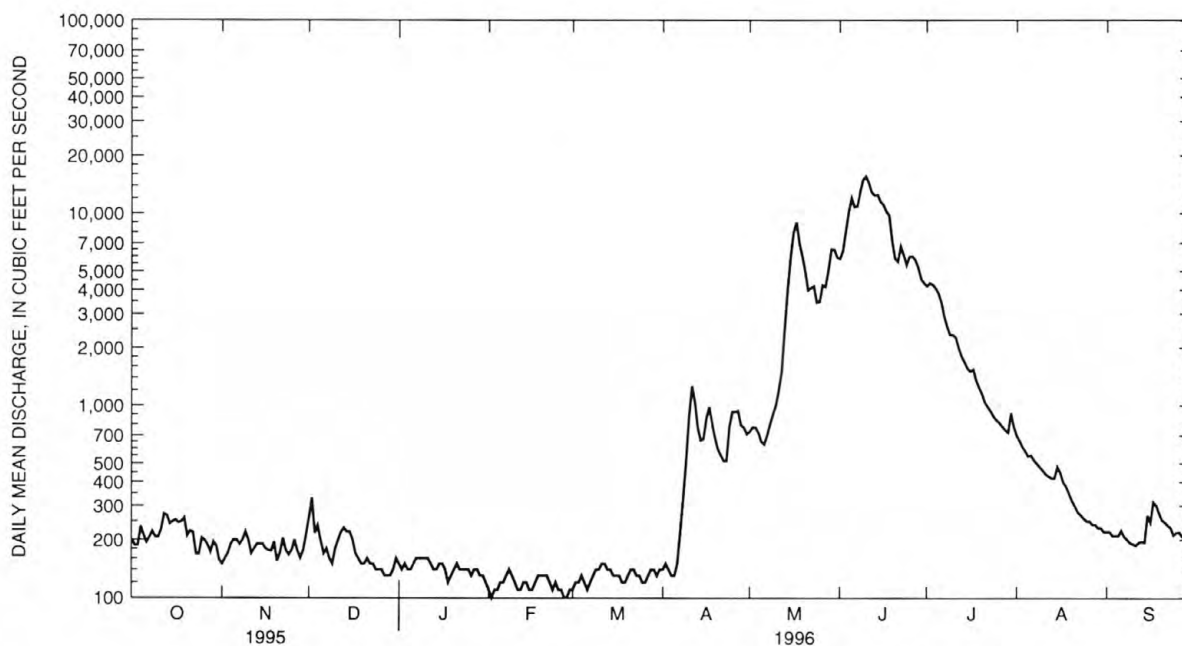
06188000 LAMAR RIVER NEAR TOWER FALLS RANGER STATION, YELLOWSTONE NATIONAL PARK--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1923 - 1996*	
ANNUAL TOTAL	367581		507991		--	
ANNUAL MEAN	1007		1388		851	
HIGHEST ANNUAL MEAN	--		--		1388	1996
LOWEST ANNUAL MEAN	--		--		525	1934
HIGHEST DAILY MEAN	11200	Jun 6	15600	Jun 10	15600	Jun 10 1996
LOWEST DAILY MEAN	60	Feb 11	100	Feb 2	45	Mar 23 1964
ANNUAL SEVEN-DAY MINIMUM	66	Feb 10	109	Feb 23	57	Mar 5 1964
INSTANTANEOUS PEAK FLOW	--		19500	Jun 10	19500	Jun 10 1996
INSTANTANEOUS PEAK STAGE	--		12.15	Jun 10	12.15	Jun 10 1996
INSTANTANEOUS LOW FLOW	--		--		40 ^a	Mar 16 1945
ANNUAL RUNOFF (AC-FT)	729100		1008000		616300	
10 PERCENT EXCEEDS	3540		5100		2930	
50 PERCENT EXCEEDS	220		218		188	
90 PERCENT EXCEEDS	90		130		90	

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

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

e Estimated.



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

06191000 GARDNER RIVER NEAR MAMMOTH, YELLOWSTONE NATIONAL PARK

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.

DRAINAGE AREA.--202 mi².

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

REVISED RECORDS.--WSP 1729: Drainage area.

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. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	117	165	123	e80	e90	119	235	966	528	222	157
2	149	110	177	109	e80	e95	120	280	1000	525	215	157
3	166	120	143	121	e85	e95	115	271	1140	517	210	157
4	175	125	128	119	e90	e100	113	244	1350	498	210	156
5	160	129	121	112	e95	e95	111	219	1490	489	205	163
6	155	133	127	113	e100	e85	116	223	1410	464	213	160
7	159	132	131	125	e100	e90	135	256	1320	423	203	156
8	154	137	115	119	e106	e90	172	302	1490	394	194	153
9	153	145	115	118	106	e87	212	379	1590	382	192	152
10	150	131	144	117	105	88	251	433	1570	389	191	151
11	150	127	134	117	102	93	248	488	1640	353	188	150
12	159	133	134	115	108	91	205	612	1450	337	185	157
13	155	141	142	115	122	91	179	748	1390	321	184	157
14	152	142	135	115	117	101	166	895	1400	308	186	164
15	154	139	132	116	113	110	170	1210	1310	300	198	158
16	152	137	132	115	112	109	194	1610	1270	302	187	163
17	149	136	121	112	113	110	209	1700	1220	310	181	167
18	159	138	113	86	114	108	181	1740	1150	286	181	161
19	150	140	107	127	114	107	171	1300	973	272	178	159
20	144	125	109	118	114	110	163	962	816	261	175	159
21	148	127	130	112	114	114	158	810	753	254	171	155
22	144	135	104	115	114	114	154	823	809	250	170	153
23	134	132	106	114	102	113	160	851	777	244	169	152
24	143	132	111	118	109	102	248	716	702	238	167	150
25	144	132	111	115	113	102	239	677	712	233	167	153
26	146	137	112	107	97	110	247	798	697	228	166	153
27	143	126	111	115	e90	109	241	795	685	225	164	152
28	139	118	111	116	e85	108	218	924	644	223	167	154
29	142	131	122	111	e90	112	214	1100	589	227	164	150
30	140	144	128	101	---	109	209	1120	553	257	162	150
31	132	---	125	e90	---	110	---	1120	---	231	159	---
TOTAL	4653	3951	3896	3526	2990	3148	5438	23841	32866	10269	5724	4679
MEAN	150	132	126	114	103	102	181	769	1096	331	185	156
MAX	175	145	177	127	122	114	251	1740	1640	528	222	167
MIN	132	110	104	86	80	85	111	219	553	223	159	150
AC-FT	9230	7840	7730	6990	5930	6240	10790	47290	65190	20370	11350	9280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)*

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
MEAN	126	111	101	95.2	91.3	91.7	139	497	721	305	162	137
MAX	175	136	126	118	116	116	304	811	1354	662	236	190
(WY)	1969	1969	1996	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

06191000 GARDNER RIVER NEAR MAMMOTH, YELLOWSTONE NATIONAL PARK--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996*	
ANNUAL TOTAL	93863		104981		--	
ANNUAL MEAN	257		287		215	
HIGHEST ANNUAL MEAN	--		--		313	1971
LOWEST ANNUAL MEAN	--		--		138	1988
HIGHEST DAILY MEAN	1430	Jun 6	1740	May 18	1830	May 29 1956
LOWEST DAILY MEAN	58	Feb 11	80	Feb 1	53	Dec 15 1988
ANNUAL SEVEN-DAY MINIMUM	82	Feb 6	89	Jan 31	61	Feb 1 1989
INSTANTANEOUS PEAK FLOW	--		2000	May 16	2080 ^b	Jun 4 1956
INSTANTANEOUS PEAK STAGE	--		4.98	May 16	4.98	May 16 1996
INSTANTANEOUS LOW FLOW	--		68 ^a	Jan 18	35 ^c	Mar 28 1942
ANNUAL RUNOFF (AC-FT)	186200		208200		155700	
10 PERCENT EXCEEDS	668		796		520	
50 PERCENT EXCEEDS	146		152		120	
90 PERCENT EXCEEDS	89		106		87	

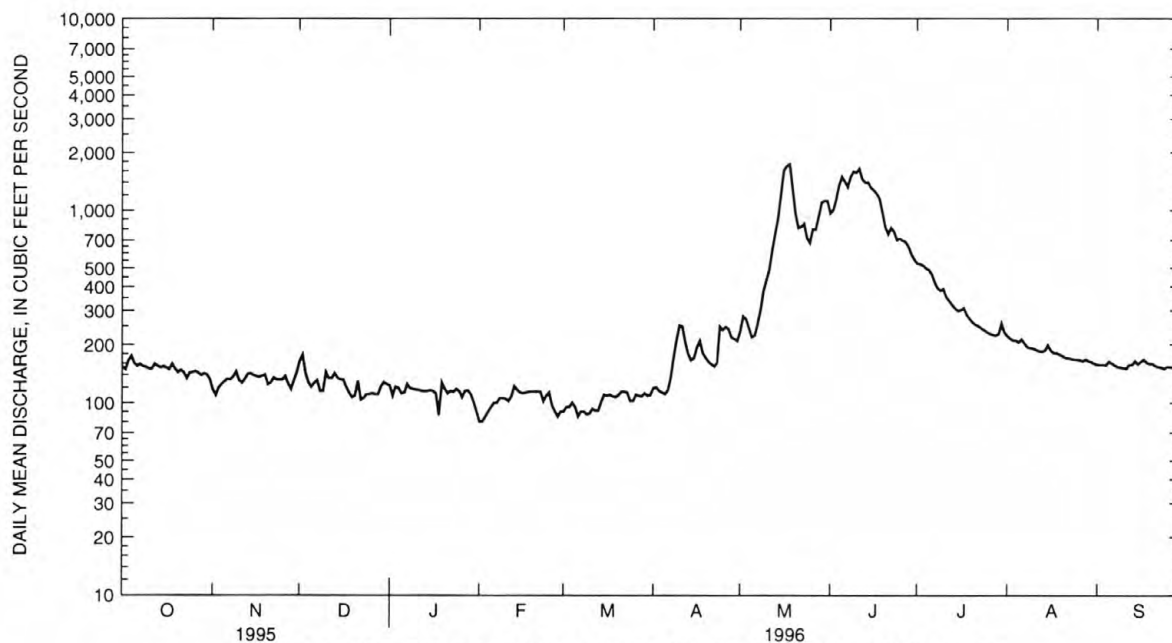
* During periods of operation (October 1938 to September 1972, April 1984 to current year).

a Gage height, 1.85 ft.

b Gage height, 4.46 ft.

c Gage height, 1.08 ft.

e Estimated.



06191000 GARDNER RIVER NEAR MAMMOTH, YELLOWSTONE NATIONAL PARK

YELLOWSTONE RIVER BASIN

06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT

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 10070002, 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.

DRAINAGE AREA.--2,623 mi².

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.

REVISED RECORDS.--WSP 1309: 1912. WSP 1509: 1889-94, 1911, 1913, 1916-18, 1920-21, 1925, 1927. WSP 1559: Drainage area.

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 lie downstream from station. U.S. Geological Survey data collection platform with satellite telemetry at station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	1250	1480	1180	e900	1140	1130	2160	12700	14800	5700	2660
2	1720	1160	1650	1130	e850	1130	1190	2310	13900	14800	5540	2600
3	1720	1190	1410	1150	e900	1130	1150	2350	17000	14600	5390	2540
4	1850	1250	1440	1190	e950	1150	1140	2240	20400	14200	5200	2490
5	1750	1310	1180	1150	e1000	1160	1090	2100	23500	13800	5060	2460
6	1690	1340	1320	e1100	e1050	1050	1130	2050	22300	13200	4980	2450
7	1730	1300	1350	1180	e1100	1140	1240	2200	21900	12300	4810	2360
8	1740	1340	1240	1180	e1200	1140	1490	2340	24900	11600	4650	2310
9	1700	1400	1270	1180	e1300	1150	1870	2820	28000	11100	4510	2250
10	1680	1330	1330	1190	e1200	1170	2410	3570	29300	11000	4380	2200
11	1690	1280	1410	1170	e1100	1210	3050	4070	28500	10600	4280	2160
12	1780	1360	1380	1130	e1100	1190	2740	4930	26600	10100	4180	2170
13	1790	1370	1410	1100	1130	1170	2250	7410	26100	9750	4080	2150
14	1700	1360	1370	1110	1140	1130	1980	10500	26200	9390	4020	2120
15	1690	1360	1330	1150	1130	1130	1930	12700	25100	9080	4100	2140
16	1700	1340	1320	1150	1120	1130	2160	14900	25300	8900	3920	2170
17	1680	1320	1210	1160	1110	1120	2450	17500	24500	8940	3790	2220
18	1690	1320	1140	969	1110	1080	2220	15600	24200	8570	3720	2180
19	1690	1360	e1050	1070	1140	1030	2020	12100	20500	8200	3630	2130
20	1590	1250	e1000	1140	1130	1090	1870	9360	18300	7910	3480	2100
21	1590	1200	e1000	1140	1130	1120	1800	8240	17600	7630	3400	2040
22	1590	1320	e1050	1150	1140	1120	1730	8790	19300	7380	3290	2010
23	1440	1290	e1000	1140	1050	1130	1720	9610	18600	7130	3210	1970
24	1470	1270	e1000	1130	1050	989	2140	8130	17200	6910	3130	1910
25	1530	1270	e1000	1130	1160	967	2600	7910	18000	6720	3060	1900
26	1520	1370	e1000	1120	e1000	1050	2510	9740	18100	6530	2990	1880
27	1480	1300	e1000	1090	e900	1090	2590	9700	17800	6340	2940	1830
28	1430	1290	e1000	1130	e950	1080	2300	11300	16900	6190	2910	1830
29	1460	1300	e1100	1080	e1050	1090	2240	13700	15800	6050	2840	1860
30	1430	1390	e1150	e1050	---	1100	2160	14400	15200	6240	2780	1850
31	1350	---	1210	e950	---	1100	---	13700	---	5930	2720	---
TOTAL	50630	39190	37800	34889	31090	34476	58300	248430	633700	295890	122690	64940
MEAN	1633	1306	1219	1125	1072	1112	1943	8014	21120	9545	3958	2165
MAX	1850	1400	1650	1190	1300	1210	3050	17500	29300	14800	5700	2660
MIN	1350	1160	1000	950	850	967	1090	2050	12700	5930	2720	1830
AC-FT	100400	77730	74980	69200	61670	68380	115600	492800	1257000	586900	243400	128800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1996, BY WATER YEAR (WY) *

	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
MEAN	1525	1188	963	841	828	911	1533	5958	11410	6832	3196	1955
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
MIN	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

YELLOWSTONE RIVER BASIN

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06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1889 - 1996*	
ANNUAL TOTAL	1259614		1652025		3104	
ANNUAL MEAN	3451		4514		4514	1996
HIGHEST ANNUAL MEAN					1903	1934
LOWEST ANNUAL MEAN					32000	Jun 14 1918
HIGHEST DAILY MEAN	20200	Jun 6	29300	Jun 10	380	Feb 5 1989
LOWEST DAILY MEAN	544	Jan 22	850	Feb 2	393	Feb 4 1937
ANNUAL SEVEN-DAY MINIMUM	595	Jan 17	943	Jan 30	32200 ^b	Jun 10 1996
INSTANTANEOUS PEAK FLOW			32200	Jun 10	11.50	Jun 14 1918
INSTANTANEOUS PEAK STAGE			10.92	Jun 10	343 ^c	Feb 2 1989
INSTANTANEOUS LOW FLOW			813 ^a	Mar 25	2249000	
ANNUAL RUNOFF (AC-FT)	2498000		3277000		8450	
10 PERCENT EXCEEDS	10600		14000		1400	
50 PERCENT EXCEEDS	1480		1720		760	
90 PERCENT EXCEEDS	656		1090			

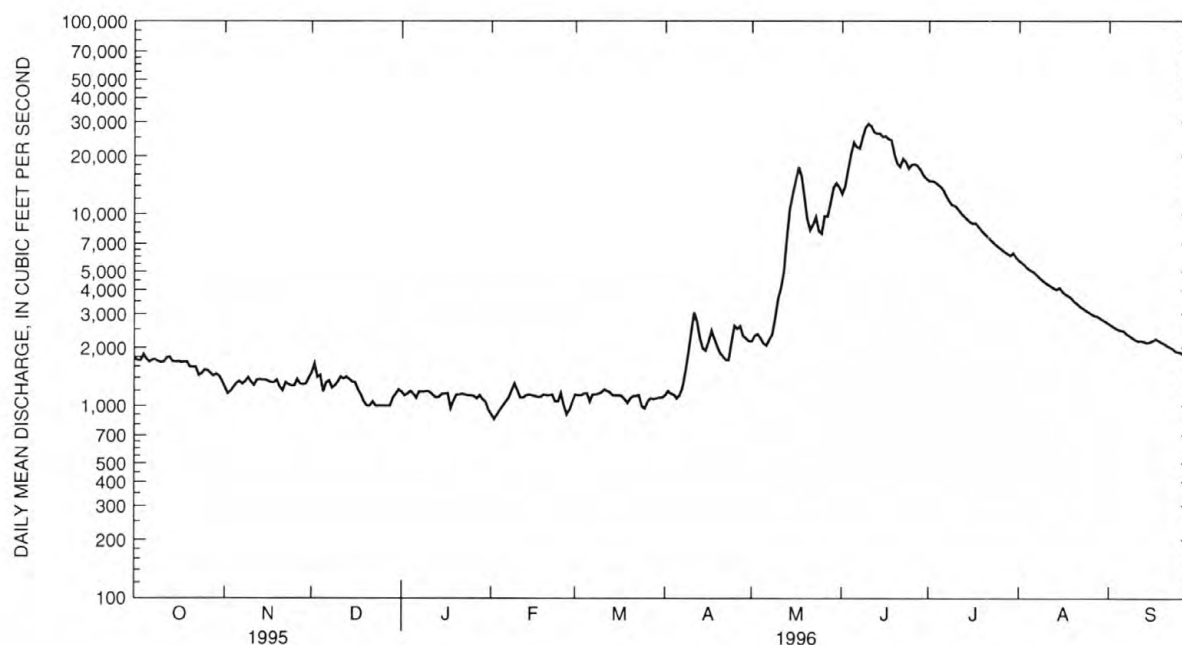
* During periods of operation (August 1889 to November 1893, September 1910 to current year).

a Gage height, 0.84 ft.

b Gage height, 10.92 ft.

c Gage height, 0.12 ft, result of freezeup.

e Estimated.



06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT

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 1995 TO SEPTEMBER 1996

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, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
OCT 31...	1015	14	112	8.6	2.0	-4.0	583	11.1	105	53	17	
MAR 27...	1520	16	104	8.1	0.0	-8.5	585	11.3	101	53	17	
JUN 27...	1115	1350	39	7.9	7.0	18.0	594	10.6	112	17	5.2	
SEP 11...	1150	35	99	7.7	11.0	20.0	600	8.4	97	46	15	
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 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)
OCT 31...	2.6	1.5	0.1	0.4	54	4.8	0.3	<0.1	4.9	64	0.09	
MAR 27...	2.6	1.5	0.1	0.5	53	5.1	0.4	<0.1	5.9	65	0.09	
JUN 27...	0.99	0.7	0.1	0.3	18	2.9	<0.1	<0.1	3.5	25	0.03	
SEP 11...	2.1	1.2	0.1	0.4	48	3.8	<0.1	<0.1	4.7	56	0.08	
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 31...	2.42	<10	<1	18	<0.5	<10	<1.0	<1	<3	<1	<3	
MAR 27...	2.80	10	<1	16	<0.5	<10	<1.0	<1	<3	<1	18	
JUN 27...	--	30	<1	8	<0.5	10	1.0	<1	<3	3	15	
SEP 11...	--	10	<1	16	<0.5	9	<1.0	<1	<3	<1	<3	
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 31...	<1	<4	1	<0.1	<10	<10	<1	<1.0	50	<6	<3	
MAR 27...	<1	<4	1	<0.1	<10	<10	<1	<1.0	44	<6	<3	
JUN 27...	<1	<4	2	<0.1	<10	<10	<1	<1.0	19	<6	<3	
SEP 11...	<1	<4	1	<0.1	<10	<10	<1	<1.0	43	<6	<3	

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.

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.

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 at different datum. July 27, 1951 to Sept. 30, 1953, water-stage recorder at present site at datum 0.98 ft higher.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

MEAN	283	296	261	229	222	220	427	2020	4093	2208	619	320
MAX	725	648	379	345	329	364	1167	5704	7090	5744	1453	834
(WY)	1931	1928	1951	1952	1963	1972	1943	1928	1996	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

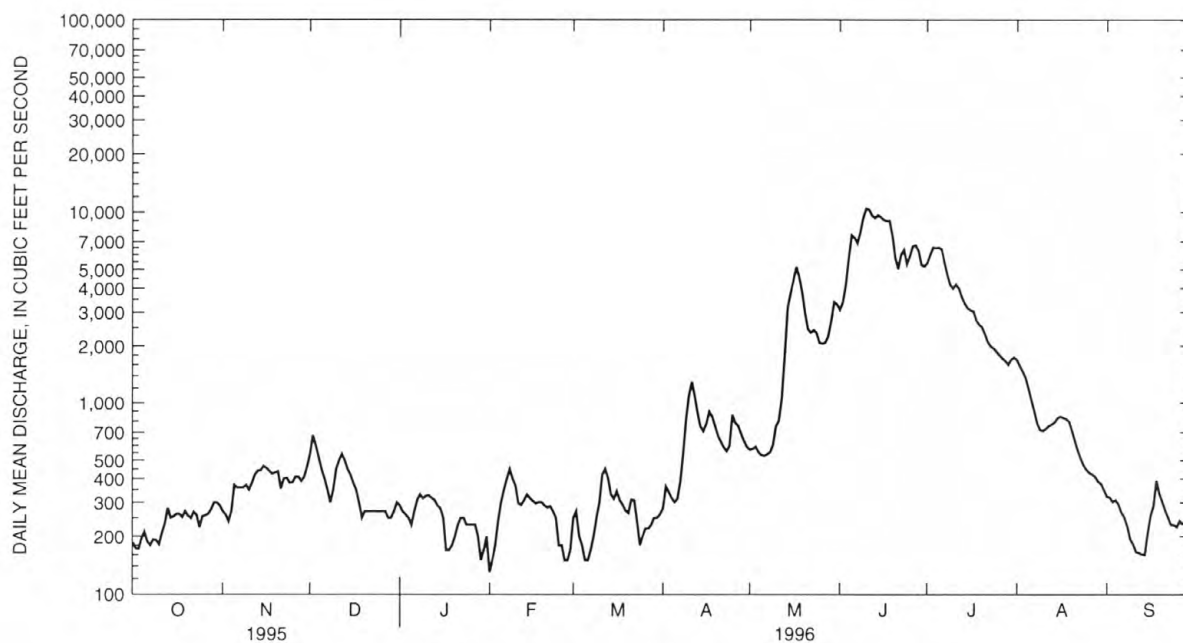
YELLOWSTONE RIVER BASIN

06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1921 - 1996	
ANNUAL TOTAL	367811		491662		--	
ANNUAL MEAN	1008		1343		934	
HIGHEST ANNUAL MEAN	--		--		1458	1928
LOWEST ANNUAL MEAN	--		--		547	1977
HIGHEST DAILY MEAN	8470	Jun 6	10400	Jun 10	12300	Jun 9 1981
LOWEST DAILY MEAN	100	Feb 13	130	Feb 1	33	Apr 26 1961
ANNUAL SEVEN-DAY MINIMUM	132	Feb 10	169	Jan 28	37	Oct 8 1988
INSTANTANEOUS PEAK FLOW	--		11400	Jun 11	14800	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--		8.98	Jun 11	9.97	Jun 9 1981
INSTANTANEOUS LOW FLOW	--		--		32 ^a	Apr 26 1961
ANNUAL RUNOFF (AC-FT)	729600		975200		677000	
10 PERCENT EXCEEDS	3570		4600		2870	
50 PERCENT EXCEEDS	300		380		300	
90 PERCENT EXCEEDS	179		200		170	

a Result of discharge measurement.

e Estimated.



06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MT

51

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.

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.

REMARKS.--Estimated daily discharges: Nov. 2-4, 21-23, Nov. 29 to Mar. 12, and May 27, 28. Records good except those greater than 2,000 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Divisions for irrigation of about 2,000 acres upstream from station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 17	0200	2,260	5.99
June 11	0300	*3,990	*6.78
July 6	0200	1,820	5.85

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	75	80	63	56	54	104	74	452	1180	323	129
2	136	48	56	60	54	58	104	77	550	1340	312	126
3	130	46	48	57	48	62	84	74	891	1340	302	125
4	146	58	48	60	50	68	80	73	1350	1300	272	122
5	139	86	47	56	52	63	63	69	1660	1420	255	117
6	131	84	52	52	58	58	99	73	1550	1250	261	117
7	140	84	52	57	62	62	177	104	1530	1010	254	116
8	131	83	50	63	62	70	297	124	2170	942	232	111
9	101	90	47	66	67	90	447	144	2860	893	227	108
10	96	74	48	69	74	100	568	161	2810	877	221	108
11	95	72	52	67	73	95	452	168	2790	934	219	105
12	98	102	60	63	69	86	271	378	2570	820	215	122
13	92	81	58	68	66	80	194	908	2340	744	217	123
14	101	74	56	70	72	85	168	1470	2160	706	237	108
15	92	58	52	68	73	81	196	1550	2430	685	215	136
16	110	57	50	67	69	85	223	1450	2060	635	198	120
17	111	54	48	52	71	76	215	1510	1850	603	190	159
18	138	56	47	45	76	60	191	1170	1990	560	190	177
19	108	60	47	48	76	60	145	669	1460	563	179	161
20	100	48	55	54	68	65	123	481	1250	522	170	141
21	122	52	56	60	66	87	96	438	1340	447	163	144
22	115	60	58	64	69	76	62	532	1460	434	160	161
23	82	80	60	64	60	75	81	555	1300	430	157	167
24	97	89	62	67	66	62	93	521	1270	416	153	135
25	96	88	64	67	64	55	116	447	1450	385	150	124
26	101	90	62	66	58	51	92	469	1410	389	150	129
27	87	78	60	64	54	61	84	460	1350	363	148	111
28	86	74	60	64	53	59	69	450	1200	354	150	136
29	102	74	62	64	54	61	71	443	1010	359	150	145
30	95	72	64	62	---	68	78	481	1050	414	141	146
31	85	---	68	60	---	78	---	437	---	346	133	---
TOTAL	3415	2147	1729	1907	1840	2191	5043	15960	49563	22661	6344	3929
MEAN	110	71.6	55.8	61.5	63.4	70.7	168	515	1652	731	205	131
MAX	152	102	80	70	76	100	568	1550	2860	1420	323	177
MIN	82	46	47	45	48	51	62	69	452	346	133	105
AC-FT	6770	4260	3430	3780	3650	4350	10000	31660	98310	44950	12580	7790

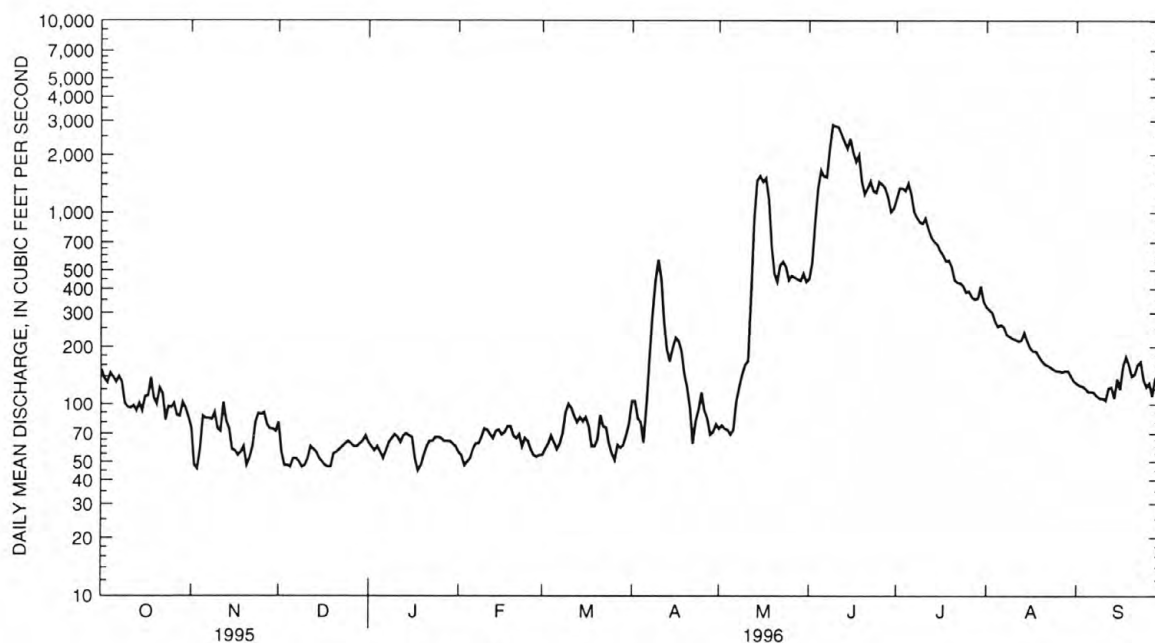
MEAN	95.7	60.6	49.1	46.7	47.7	58.5	155	533	1051	553	189	116
MAX	200	112	87.8	68.8	66.8	92.5	353	1161	1756	1281	461	224
(WY)	1951	1951	1951	1953	1951	1986	1952	1956	1957	1951	1951	1950
MIN	51.7	35.7	28.5	27.4	26.7	39.6	64.4	215	339	106	51.2	34.0
(WY)	1989	1989	1989	1977	1985	1978	1984	1977	1994	1994	1988	1988

YELLOWSTONE RIVER BASIN

06220500 EAST FORK WIND RIVER NEAR DUBOIS, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	111690		116729		--	
ANNUAL MEAN	306		319		245	
HIGHEST ANNUAL MEAN	--		--		414	
LOWEST ANNUAL MEAN	--		--		126	
HIGHEST DAILY MEAN	3180	Jun 14	2860	Jun 9	3740	Jun 1 1956
LOWEST DAILY MEAN	30	Jan 3	45	Jan 18	18	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	33	Jan 1	49	Dec 3	21	Feb 1 1985
INSTANTANEOUS PEAK FLOW	--		3990	Jun 11	5980 ^a	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--		6.78	Jun 11	9.27	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	221500		231500		177500	
10 PERCENT EXCEEDS	1060		1090		696	
50 PERCENT EXCEEDS	89		100		83	
90 PERCENT EXCEEDS	42		56		40	

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



06220500 EAST FORK WIND RIVER 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.

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

REMARKS.--Estimated daily discharges: Jan. 31 to Feb. 5, Feb. 28 to Mar. 4, May 24-27, and June 11-14. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 1,800 acres upstream from station. Wind River Indian Reservation data collection platform with satellite telemetry at station.

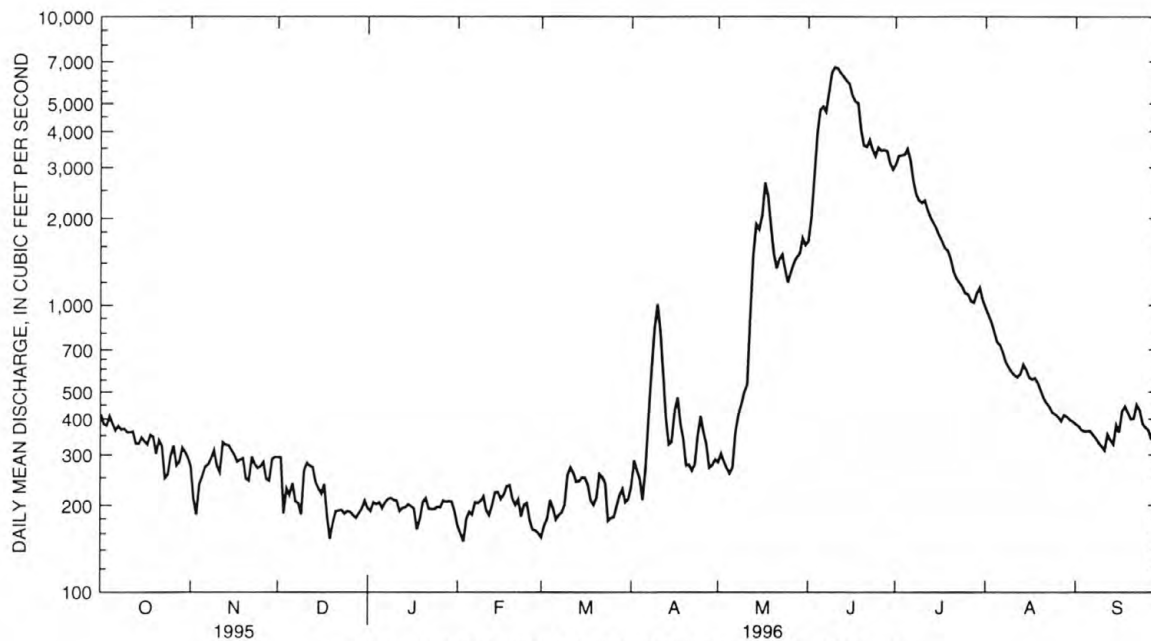
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	415	274	295	196	170	155	234	283	1670	3080	978	384
2	383	211	294	191	160	170	287	303	2020	3290	924	378
3	379	186	188	205	150	180	266	285	2800	3310	872	366
4	409	237	229	202	180	209	248	270	3920	3320	808	362
5	385	253	218	205	190	196	209	259	4760	3480	744	362
6	365	273	239	196	186	179	270	271	4870	3190	728	363
7	378	278	207	205	205	185	409	360	4680	2710	686	352
8	367	293	204	211	204	189	599	415	5480	2430	636	342
9	370	311	186	212	208	201	831	452	6420	2310	609	329
10	359	274	266	209	215	256	1010	498	6700	2270	586	320
11	359	261	281	208	192	271	811	529	6650	2310	570	311
12	361	331	275	191	185	260	581	916	6400	2130	563	352
13	328	325	272	196	200	242	404	1490	6200	2010	577	337
14	328	324	241	197	222	243	326	1910	6000	1930	622	326
15	344	312	229	202	223	250	332	1840	5850	1850	597	380
16	334	300	220	199	211	250	430	2050	5340	1750	562	359
17	326	284	237	195	218	236	478	2660	5070	1670	552	427
18	351	289	184	165	233	208	385	2400	5010	1580	559	444
19	347	292	153	180	235	201	340	1900	4050	1550	537	422
20	303	248	173	206	211	213	276	1520	3580	1450	506	400
21	337	244	191	212	201	257	278	1340	3540	1310	476	401
22	323	296	192	195	210	251	265	1450	3740	1240	457	450
23	249	279	193	194	183	239	278	1500	3460	1200	443	431
24	255	270	187	194	201	177	350	1330	3290	1160	422	385
25	299	274	191	198	204	181	410	1200	3520	1100	416	373
26	323	283	190	197	178	182	359	1300	3430	1090	407	366
27	276	247	185	208	165	199	326	1400	3450	1030	394	339
28	283	244	181	206	164	217	271	1470	3420	1020	414	374
29	318	290	188	207	160	228	276	1510	3100	1100	408	377
30	308	295	195	206	---	205	289	1710	2960	1150	398	366
31	294	---	208	190	---	210	---	1620	---	1040	392	---
TOTAL	10456	8278	6692	6178	5664	6640	11828	36441	131380	60060	17843	11178
MEAN	337	276	216	199	195	214	394	1176	4379	1937	576	373
MAX	415	331	295	212	235	271	1010	2660	6700	3480	978	450
MIN	249	186	153	165	150	155	209	259	1670	1020	392	311
AC-FT	20740	16420	13270	12250	11230	13170	23460	72280	260600	119100	35390	22170

MEAN	298	231	186	169	169	190	308	1252	2559	1379	569	363
MAX	353	295	225	199	195	214	429	1661	4379	2473	789	474
(WY)	1991	1991	1992	1996	1996	1996	1994	1993	1996	1995	1993	1991
MIN	244	171	146	122	144	178	213	621	892	386	349	246
(WY)	1993	1993	1993	1993	1993	1995	1995	1995	1994	1994	1994	1994

YELLOWSTONE RIVER BASIN

06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	281587		312638		--	
ANNUAL MEAN	771		854		640	
HIGHEST ANNUAL MEAN	--		--		854	1996
LOWEST ANNUAL MEAN	--		--		410	1994
HIGHEST DAILY MEAN	6120	Jun 15	6700	Jun 10	6700	Jun 10 1996
LOWEST DAILY MEAN	125	Jan 3	150	Feb 3	90	Jan 13 1993
ANNUAL SEVEN-DAY MINIMUM	132	Jan 1	167	Feb 26	96	Jan 9 1993
INSTANTANEOUS PEAK FLOW	--		7940	Jun 10	7940	Jun 10 1996
INSTANTANEOUS PEAK STAGE	--		8.74	Jun 10	8.74	Jun 10 1996
ANNUAL RUNOFF (AC-FT)	558500		620100		463900	
10 PERCENT EXCEEDS	2720		2500		1710	
50 PERCENT EXCEEDS	295		325		273	
90 PERCENT EXCEEDS	155		191		160	



06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY

06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WY

LOCATION.--Lat 43°20'44", long 109°24'34", in SE¹/₄ SE¹/₄ sec.1, T.4 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 0.5 mi upstream from Upper Dinwoody Lake, 7.0 mi west of Burris, and 17 mi southeast of Dubois.

DRAINAGE AREA.--88.2 mi².

PERIOD OF RECORD.--October 1957 to September 1978, October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,500 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1, 2, Nov. 2-4, Dec. 7-11, 18 to Jan. 2, Jan. 5-12, 17-20, 23-27, 31, Feb. 1, 3-5, 12-15, and Feb. 23 to Mar. 27. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station. U.S. Geological Survey data collection platform with satellite telemetry at 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)
June 10	0845	834	3.90
June 28	0830	738	3.80
July 6	0800	*845	3.92

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

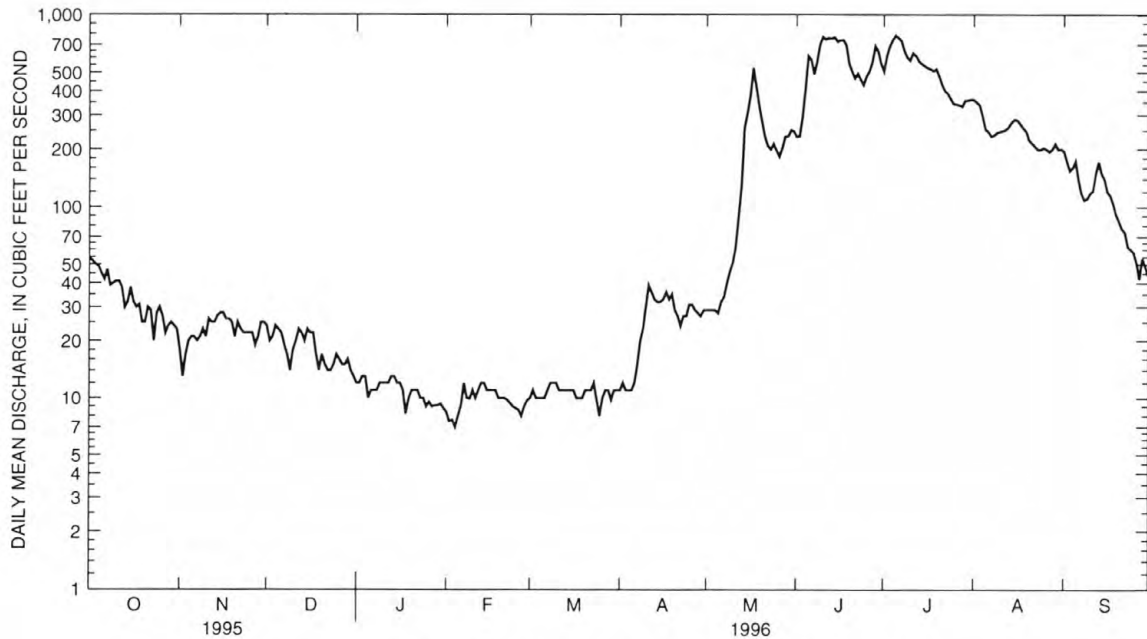
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	18	24	12	8.4	10	11	29	233	511	361	195
2	52	13	20	12	7.5	11	12	29	234	613	350	173
3	50	17	21	13	7.6	10	11	29	295	688	340	155
4	49	20	24	13	7.0	10	11	29	412	742	297	160
5	45	21	23	10	8.0	10	11	28	611	781	254	173
6	42	21	22	11	9.1	10	12	32	586	761	247	139
7	47	20	19	11	12	11	15	34	491	734	234	118
8	39	21	17	11	10	12	20	40	573	650	236	109
9	40	23	14	12	9.9	12	23	46	702	602	244	111
10	41	21	18	12	11	12	30	51	770	581	247	118
11	41	26	20	12	10	11	39	62	749	632	249	122
12	38	25	23	12	11	11	36	89	759	613	253	150
13	30	25	22	13	12	11	33	129	756	575	261	172
14	32	27	20	13	12	11	32	259	764	557	276	149
15	38	28	23	12	11	11	32	312	728	543	285	140
16	32	28	22	12	11	11	33	383	741	531	283	120
17	30	26	22	11	11	10	36	530	741	524	270	115
18	31	26	17	8.2	11	10	33	423	697	510	257	104
19	25	25	14	10	10	10	35	335	560	522	248	91
20	25	21	17	11	10	11	29	277	508	480	223	84
21	30	25	15	11	10	11	27	232	469	433	215	77
22	29	23	14	11	9.8	11	24	208	494	402	207	74
23	20	22	14	10	9.4	12	27	200	461	391	199	62
24	28	22	15	10	9.0	9.8	27	213	433	367	199	60
25	30	22	17	9.0	8.8	8.0	31	197	478	345	203	58
26	27	22	16	9.5	8.6	10	31	184	508	343	199	51
27	22	19	15	9.0	8.0	11	29	203	568	340	194	42
28	24	21	15	9.1	9.0	11	28	233	687	334	200	54
29	25	25	16	9.1	9.7	9.8	27	234	647	358	213	49
30	24	25	14	9.3	---	11	29	251	557	359	199	44
31	23	---	13	8.8	---	11	---	248	---	362	200	---
TOTAL	1063	678	566	337.0	281.8	330.6	774	5549	17212	16184	7643	3269
MEAN	34.3	22.6	18.3	10.9	9.72	10.7	25.8	179	574	522	247	109
MAX	54	28	24	13	12	12	39	530	770	781	361	195
MIN	20	13	13	8.2	7.0	8.0	11	28	233	334	194	42
AC-FT	2110	1340	1120	668	559	656	1540	11010	34140	32100	15160	6480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	42.2	20.1	12.3	8.34	7.34	8.28	19.1	158	455	477	316	132
MAX	72.5	40.6	22.8	19.2	12.5	13.6	60.3	299	739	794	406	250
(WY)	1968	1974	1974	1962	1962	1972	1962	1958	1971	1975	1971	1973
MIN	22.8	9.74	3.79	1.53	2.12	2.31	8.48	71.1	261	280	245	59.2
(WY)	1989	1977	1977	1977	1977	1977	1970	1959	1992	1992	1989	1964

06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	61864.3		53887.4		--	
ANNUAL MEAN	169		147		139	
HIGHEST ANNUAL MEAN	--		--		179	1971
LOWEST ANNUAL MEAN	--		--		95.2	1992
HIGHEST DAILY MEAN	1250	Jun 15	781	Jul 5	1250	Jun 15 1995
LOWEST DAILY MEAN	5.0	Feb 12	7.0	Feb 4	1.0	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	5.5	Feb 10	8.1	Jan 31	1.3	Jan 4 1977
INSTANTANEOUS PEAK FLOW	--		845	Jul 6	1510	Jul 13 1995
INSTANTANEOUS PEAK STAGE	--		3.92	Jul 6	4.50	Jul 13 1995
ANNUAL RUNOFF (AC-FT)	122700		106900		100500	
10 PERCENT EXCEEDS	566		514		438	
50 PERCENT EXCEEDS	26		29		28	
90 PERCENT EXCEEDS	7.2		10		6.9	



06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WY

YELLOWSTONE RIVER BASIN

57

06222500 DRY CREEK NEAR BURRIS, WY

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.

DRAINAGE AREA.--57 mi².

PERIOD OF RECORD.--June 1921 to September 1940, October 1988 to current year (no winter records since 1995).
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: May 17-20. Records fair except those for estimated daily discharges, which are poor. Adjudicated diversion upstream for irrigation of 267 acres. U.S. Geological Survey data collection platform with satellite telemetry at station. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation, are given below:

Oct. 6 . . . 17.9
Nov. 28 . . . 4.78
Jan. 11 . . . 2.98
Mar. 21 . . . 2.70

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.0	11	75	146	76	26
2	---	---	---	---	---	---	3.3	12	81	165	70	25
3	---	---	---	---	---	---	3.2	11	107	181	66	24
4	---	---	---	---	---	---	3.0	10	211	197	60	22
5	---	---	---	---	---	---	3.2	9.7	318	235	53	22
6	---	---	---	---	---	---	3.7	11	289	244	48	23
7	---	---	---	---	---	---	3.9	14	246	195	45	23
8	---	---	---	---	---	---	5.0	19	304	163	40	22
9	---	---	---	---	---	---	6.4	22	370	157	37	20
10	---	---	---	---	---	---	13	35	416	149	36	19
11	---	---	---	---	---	---	18	36	430	150	35	19
12	---	---	---	---	---	---	16	57	397	147	34	20
13	---	---	---	---	---	---	12	79	345	141	33	23
14	---	---	---	---	---	---	11	124	317	136	33	24
15	---	---	---	---	---	---	11	188	297	132	34	26
16	---	---	---	---	---	---	13	262	302	126	33	26
17	---	---	---	---	---	---	14	220	291	121	32	27
18	---	---	---	---	---	---	12	150	259	115	32	27
19	---	---	---	---	---	---	9.9	120	193	113	31	27
20	---	---	---	---	---	---	9.4	65	151	109	31	26
21	---	---	---	---	---	---	8.5	30	142	97	31	25
22	---	---	---	---	---	---	7.3	23	150	88	30	24
23	---	---	---	---	---	---	8.2	27	150	84	29	23
24	---	---	---	---	---	---	10	31	142	81	28	21
25	---	---	---	---	---	---	11	32	155	79	27	19
26	---	---	---	---	---	---	12	32	160	78	27	19
27	---	---	---	---	---	---	12	45	176	76	27	18
28	---	---	---	---	---	---	10	60	203	77	27	17
29	---	---	---	---	---	---	9.6	61	173	79	27	17
30	---	---	---	---	---	---	9.6	74	145	84	27	16
31	---	---	---	---	---	---	---	74	---	80	27	---
TOTAL	---	---	---	---	---	---	272.2	1944.7	6995	4025	1166	670
MEAN	---	---	---	---	---	---	9.07	62.7	233	130	37.6	22.3
MAX	---	---	---	---	---	---	18	262	430	244	76	27
MIN	---	---	---	---	---	---	3.0	9.7	75	76	27	16
AC-FT	---	---	---	---	---	---	540	3860	13870	7980	2310	1330

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

	17.3	10.3	5.97	4.10	2.71	2.91	8.77	83.4	201	121	58.8	30.7
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

YELLOWSTONE RIVER BASIN

06222500 DRY CREEK NEAR BURRIS, WY--Continued

SUMMARY STATISTICS

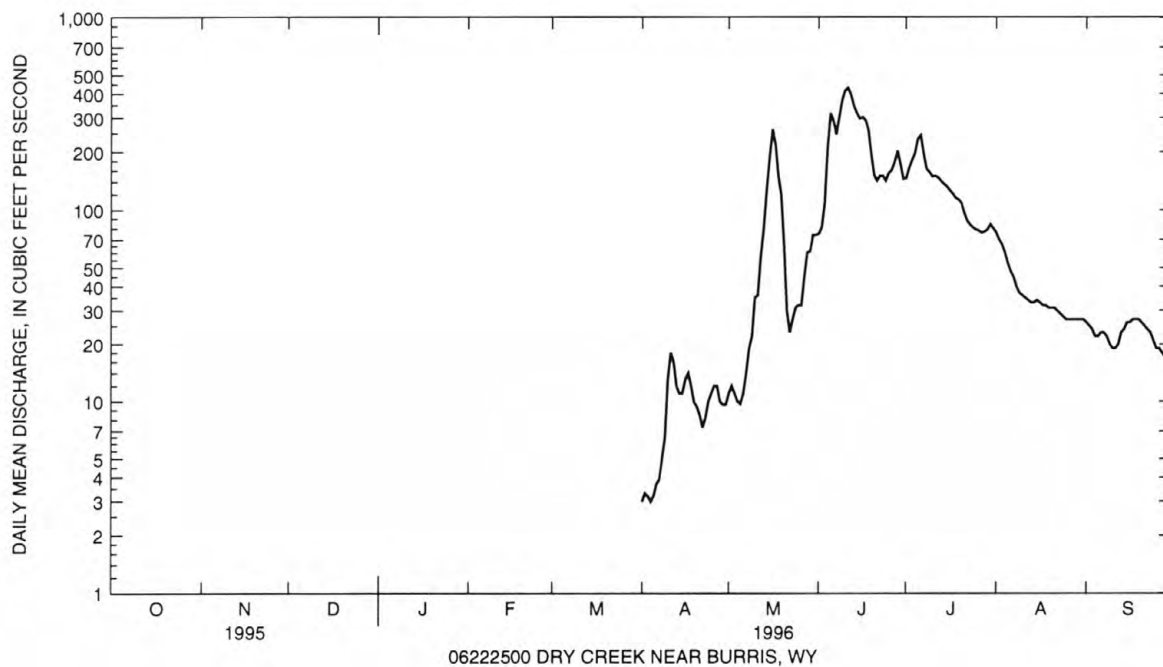
FOR 1996 WATER YEAR

WATER YEARS 1921 - 1995

ANNUAL MEAN	--		44.6	
HIGHEST ANNUAL MEAN	--		73.0	1995
LOWEST ANNUAL MEAN	--		20.1	1940
HIGHEST DAILY MEAN	430	Jun 11	1240	Jun 7 1921#
LOWEST DAILY MEAN	3.0	Apr 1, 4	.00	Mar 1 to
				Apr 11 1934#
ANNUAL SEVEN-DAY MINIMUM	--		.00	Mar 1 1934
INSTANTANEOUS PEAK FLOW	582	Jun 11	1400 ^a	Jun 12 1921#
INSTANTANEOUS PEAK STAGE	5.05	Jun 11	5.84	Jun 14 1995#
ANNUAL RUNOFF (AC-FT)	--		32290	
10 PERCENT EXCEEDS	--		137	
50 PERCENT EXCEEDS	--		14	
90 PERCENT EXCEEDS	--		2.0	

* During period of operation.

For period of record through 1996.

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

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.--Estimated daily discharges: Oct. 12. Records good. Flow is diverted from Dry Creek for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	---	---	---	---	---	---	9.3	106	228	217	179
2	66	---	---	---	---	---	---	13	105	248	210	178
3	63	---	---	---	---	---	---	13	122	259	203	175
4	63	---	---	---	---	---	---	12	151	253	197	174
5	61	---	---	---	---	---	---	11	153	247	196	167
6	58	---	---	---	---	---	---	10	145	222	189	167
7	56	---	---	---	---	---	---	10	166	193	189	160
8	54	---	---	---	---	---	---	11	189	223	195	148
9	51	---	---	---	---	---	---	11	185	246	193	136
10	33	---	---	---	---	---	---	11	177	243	191	128
11	7.4	---	---	---	---	---	---	11	170	246	191	123
12	2.0	---	---	---	---	---	---	14	179	247	192	123
13	---	---	---	---	---	---	---	30	227	244	194	131
14	---	---	---	---	---	---	---	55	250	240	197	144
15	---	---	---	---	---	---	---	92	248	237	196	150
16	---	---	---	---	---	---	---	96	250	240	199	148
17	---	---	---	---	---	---	---	73	246	237	200	144
18	---	---	---	---	---	---	---	87	235	232	198	139
19	---	---	---	---	---	---	---	83	221	231	197	131
20	---	---	---	---	---	---	---	101	200	229	194	118
21	---	---	---	---	---	---	---	104	211	219	188	106
22	---	---	---	---	---	---	---	88	214	212	182	98
23	---	---	---	---	---	---	---	93	190	210	179	90
24	---	---	---	---	---	---	---	97	190	206	176	82
25	---	---	---	---	---	---	---	91	217	204	175	75
26	---	---	---	---	---	---	---	88	245	204	180	70
27	---	---	---	---	---	---	---	94	250	204	190	63
28	---	---	---	---	---	---	---	107	255	203	189	59
29	---	---	---	---	---	---	---	110	239	210	190	57
30	---	---	---	---	---	---	---	119	214	222	190	52
31	---	---	---	---	---	---	---	114	---	220	181	---
TOTAL	---	---	---	---	---	---	---	1858.3	5950	7059	5958	3715
MEAN	---	---	---	---	---	---	---	59.9	198	228	192	124
MAX	---	---	---	---	---	---	---	119	255	259	217	179
MIN	---	---	---	---	---	---	---	9.3	105	193	175	52
AC-FT	---	---	---	---	---	---	---	3690	11800	14000	11820	7370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

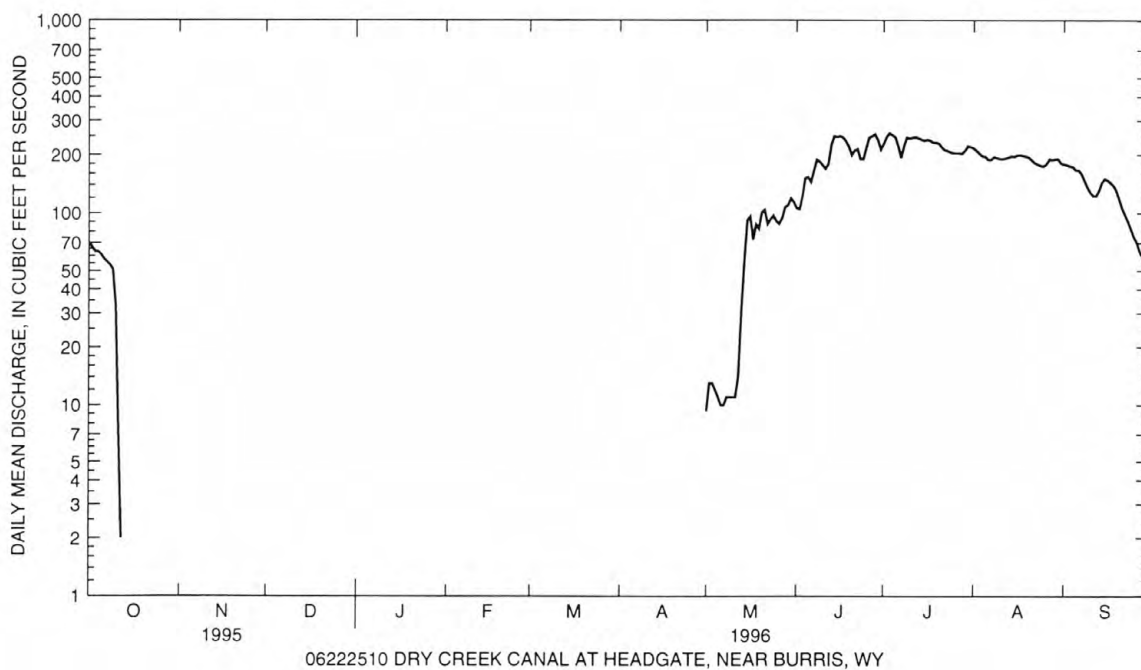
	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	1.44	---	---	---	---	3.01	100	187	198
MAX	2.29	---	---	---	---	6.24	154	247	228
(WY)	1993	---	---	---	---	1989	1994	1994	1996
MIN	.60	---	---	---	---	.000	53.8	116	155
(WY)	1994	---	---	---	---	1991	1991	1995	1989

06222510 DRY CREEK CANAL AT HEADGATE, NEAR BURRIS, WY--Continued

SUMMARY STATISTICS

	FOR 1996 WATER YEAR*		WATER YEARS 1988 - 1996*	
HIGHEST DAILY MEAN	259	Jul 3	285	Jun 23 1994
LOWEST DAILY MEAN	2.0	Oct 12	.00	Many days, most years
INSTANTANEOUS PEAK FLOW	272	Jun 28	301	Jun 23 1994
INSTANTANEOUS PEAK STAGE	3.74	Jun 28	3.88	Jun 23 1994
10 PERCENT EXCEEDS	--		229	
50 PERCENT EXCEEDS	--		163	
90 PERCENT EXCEEDS	--		.22	

* During period of operation.



YELLOWSTONE RIVER BASIN

61

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 (no winter record since 1995).

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.--No estimated daily discharges. Records good. Diversions for irrigation of 60.1 acres upstream from station. Results of discharge measurements, in cubic feet per second, made during the period station was not in operation, are given below:

Oct. 11 . . . 11.4
Nov. 9 . . . 9.11
Jan. 9 . . . 7.46

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.2	6.1	36	45	13	6.1
2	---	---	---	---	---	---	7.0	5.9	39	49	12	6.1
3	---	---	---	---	---	---	7.0	5.9	60	47	12	5.8
4	---	---	---	---	---	---	6.5	5.9	110	50	11	5.9
5	---	---	---	---	---	---	6.4	5.9	148	62	10	5.8
6	---	---	---	---	---	---	6.5	5.9	138	49	11	6.0
7	---	---	---	---	---	---	6.8	5.9	133	35	12	6.2
8	---	---	---	---	---	---	6.6	6.3	152	31	10	6.5
9	---	---	---	---	---	---	6.5	6.6	169	31	10	6.0
10	---	---	---	---	---	---	6.5	6.5	165	30	9.6	6.0
11	---	---	---	---	---	---	6.5	6.7	158	30	9.0	6.1
12	---	---	---	---	---	---	6.7	6.7	142	27	8.4	6.5
13	---	---	---	---	---	---	6.9	6.9	133	26	8.0	6.5
14	---	---	---	---	---	---	6.7	25	125	23	8.7	6.6
15	---	---	---	---	---	---	6.5	76	120	23	8.5	6.7
16	---	---	---	---	---	---	6.5	122	122	22	8.1	6.5
17	---	---	---	---	---	---	6.4	128	111	21	7.8	7.4
18	---	---	---	---	---	---	6.2	88	91	20	7.7	7.1
19	---	---	---	---	---	---	6.2	51	73	20	7.8	7.1
20	---	---	---	---	---	---	6.1	39	58	17	7.5	6.7
21	---	---	---	---	---	---	6.0	32	66	16	7.3	6.6
22	---	---	---	---	---	---	6.3	30	76	15	7.2	6.5
23	---	---	---	---	---	---	6.2	35	68	15	6.9	6.6
24	---	---	---	---	---	---	6.2	30	57	14	6.7	7.2
25	---	---	---	---	---	---	6.1	28	64	14	6.6	7.2
26	---	---	---	---	---	---	5.9	26	60	14	6.8	7.3
27	---	---	---	---	---	---	6.1	29	69	14	6.9	7.7
28	---	---	---	---	---	---	6.2	31	68	15	7.1	7.3
29	---	---	---	---	---	---	6.2	30	47	14	6.9	7.3
30	---	---	---	---	---	---	6.2	38	41	18	6.6	7.3
31	---	---	---	---	---	---	---	40	---	14	6.1	---
TOTAL	---	---	---	---	---	---	192.1	959.2	2899	821	267.2	198.6
MEAN	---	---	---	---	---	---	6.40	30.9	96.6	26.5	8.62	6.62
MAX	---	---	---	---	---	---	7.0	128	169	62	13	7.7
MIN	---	---	---	---	---	---	5.9	5.9	36	14	6.1	5.8
AC-FT	---	---	---	---	---	---	381	1900	5750	1630	530	394

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

	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
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

YELLOWSTONE RIVER BASIN

06223500 WILLOW CREEK NEAR CROWHEART, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1922 - 1995

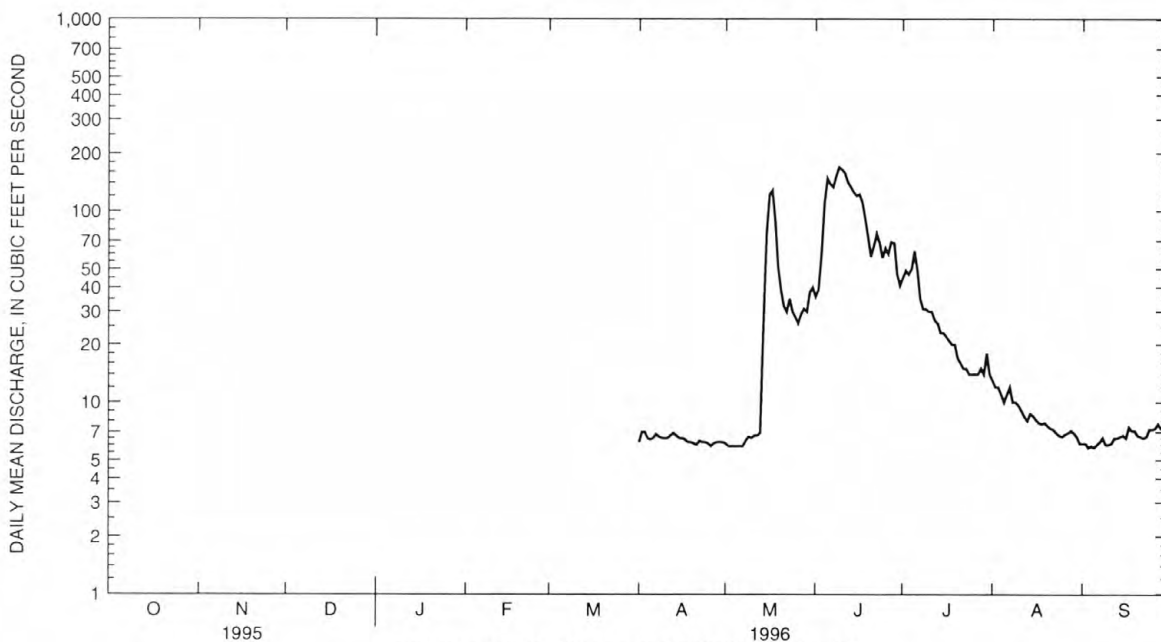
ANNUAL MEAN	--	16.5	
HIGHEST ANNUAL MEAN	--	31.0	1995
LOWEST ANNUAL MEAN	--	4.60	1940
HIGHEST DAILY MEAN	169	Jun 9	468 Jun 12 1991#
LOWEST DAILY MEAN	5.8	Sep 3	2.0 Dec 1 1939#
ANNUAL SEVEN-DAY MINIMUM	--		2.0 Dec 1 1939
INSTANTANEOUS PEAK FLOW	204	Jun 11	1100 ^a May 31 1939#
INSTANTANEOUS PEAK STAGE	3.54	Jun 11	5.40 ^b May 31 1939#
ANNUAL RUNOFF (AC-FT)	--		11930
10 PERCENT EXCEEDS	--		38
50 PERCENT EXCEEDS	--		7.4
90 PERCENT EXCEEDS	--		4.0

* During period of operation.

For period of record through 1996.

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

b Site and datum then in use.



06223500 WILLOW CREEK NEAR CROWHEART, WY

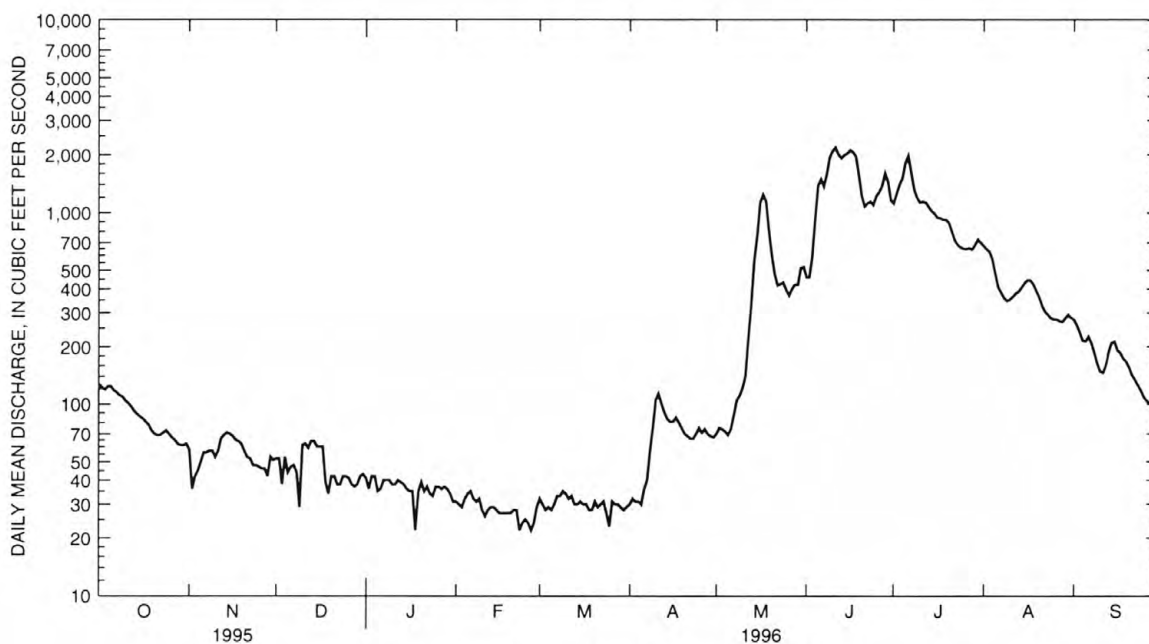
63

MEAN	99.8	55.9	37.6	28.3	24.8	26.7	66.3	462	1155	914	428	203
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

YELLOWSTONE RIVER BASIN

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1942 - 1996
ANNUAL TOTAL	134184	116165	--
ANNUAL MEAN	368	317	293
HIGHEST ANNUAL MEAN	--	--	415
LOWEST ANNUAL MEAN	--	--	174
HIGHEST DAILY MEAN	3080	2180	3560
LOWEST DAILY MEAN	19	22	6.2
ANNUAL SEVEN-DAY MINIMUM	20	24	6.5
INSTANTANEOUS PEAK FLOW	--	2310	4470
INSTANTANEOUS PEAK STAGE	--	5.87	7.98
ANNUAL RUNOFF (AC-FT)	266200	230400	212200
10 PERCENT EXCEEDS	1310	1130	909
50 PERCENT EXCEEDS	69	72	76
90 PERCENT EXCEEDS	25	30	22



06224000 BULL LAKE CREEK ABOVE BULL LAKE, WY

YELLOWSTONE RIVER BASIN

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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 1995 TO SEPTEMBER 1996

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					
03...	1130	114	44	7.0	13.0
NOV					
30...	1110	51	65	3.5	10.0
FEB					
06...	0920	32	84	0.5	3.5
APR					
01...	1030	28	100	4.0	7.0
21...	1000	80	90	5.0	-4.0
MAY					
04...	1105	73	165	6.0	5.0
AUG					
02...	1020	607	39	17.0	27.0
SEP					
19...	1115	167	34	11.0	9.0

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.

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: Dec. 8, 9, 19, 20, 22-29, Jan. 2, 5-8, 17-20, 23-27, Jan. 29 to Feb. 6, Feb. 23, Feb. 26 to Mar. 1, Mar. 6, 25, and May 15-20. 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. Bureau of Reclamation data collection platform with satellite telemetry at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	321	39	40	38	40	34	401	139	655	629	1040
2	151	322	39	39	39	38	34	440	138	745	631	1040
3	151	319	39	40	39	39	33	440	132	1050	633	1030
4	120	285	39	40	40	39	34	443	139	1280	632	1020
5	49	221	39	38	40	38	34	439	137	1490	637	1010
6	29	118	39	39	40	37	33	500	135	1550	639	1010
7	25	70	39	40	38	36	33	686	135	1550	644	1000
8	25	43	39	40	39	36	33	756	137	1420	726	996
9	25	42	39	40	38	36	34	748	139	1250	796	1080
10	32	43	41	40	36	36	34	800	124	1100	793	1140
11	43	42	40	40	36	37	34	831	99	886	794	1210
12	43	42	40	39	37	38	33	821	99	810	788	1300
13	44	42	40	39	38	38	33	808	101	809	885	1250
14	44	42	40	39	38	38	33	806	101	809	968	1210
15	44	41	40	39	39	37	33	800	127	810	962	1200
16	43	41	39	40	39	36	35	800	190	804	963	1120
17	42	41	39	39	39	36	35	700	192	770	957	1000
18	42	41	39	39	39	36	34	700	194	727	956	865
19	43	41	38	40	40	36	34	600	194	727	960	687
20	43	41	38	40	40	36	52	400	197	727	960	601
21	43	41	38	40	40	36	73	301	293	723	953	604
22	44	40	38	41	39	36	71	414	510	667	947	600
23	43	40	38	40	39	39	71	534	515	554	940	519
24	110	40	38	39	40	36	87	497	517	447	939	450
25	298	40	38	38	40	35	167	412	519	455	929	387
26	325	40	39	38	39	34	166	411	657	529	922	321
27	325	41	39	39	38	34	167	411	939	614	917	315
28	327	40	39	40	39	34	167	363	1070	618	913	311
29	325	39	39	40	39	35	233	264	1160	623	909	307
30	325	39	40	39	---	35	307	185	931	621	988	276
31	323	---	40	38	---	34	---	139	---	627	1050	---
TOTAL	3677	2598	1211	1222	1125	1131	2201	16850	9960	26447	26360	24899
MEAN	119	86.6	39.1	39.4	38.8	36.5	73.4	544	332	853	850	830
MAX	327	322	41	41	40	40	307	831	1160	1550	1050	1300
MIN	25	39	38	38	36	34	33	139	99	447	629	276
AC-FT	7290	5150	2400	2420	2230	2240	4370	33420	19760	52460	52290	49390

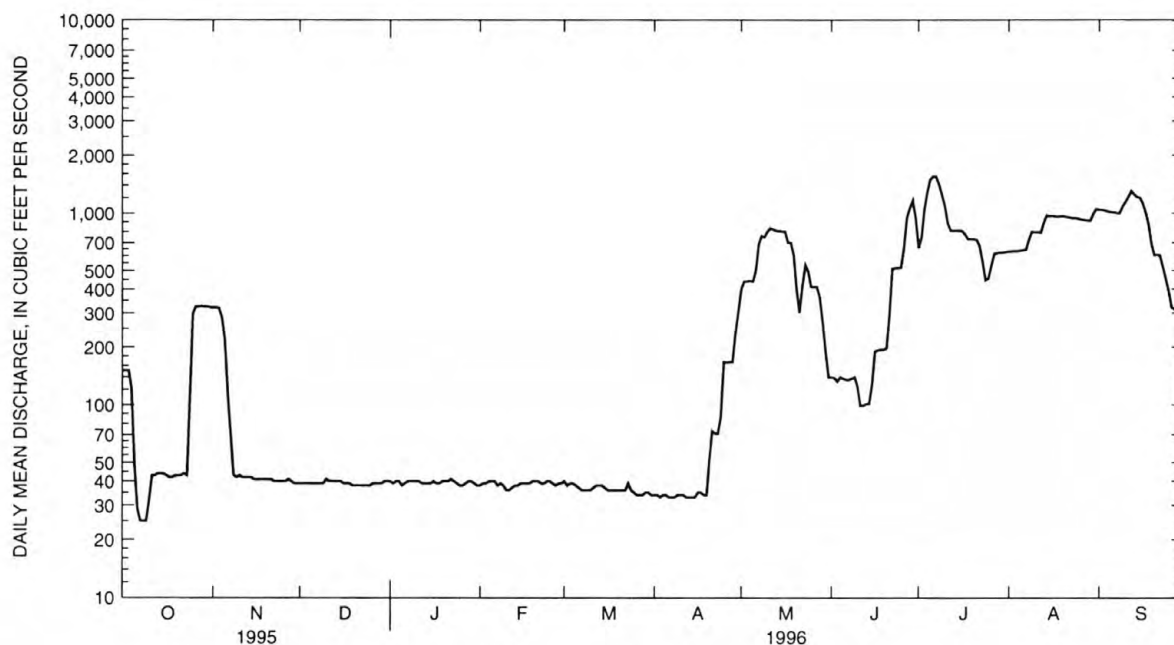
MEAN	132	69.9	72.7	90.5	76.3	62.2	96.6	232	554	813	660	427
MAX	782	467	241	267	219	197	601	831	2265	1645	1027	982
(WY)	1952	1969	1972	1954	1951	1951	1965	1928	1918	1923	1969	1976
MIN	4.16	8.34	13.8	11.0	12.0	.000	3.59	6.01	10.6	85.6	193	113
(WY)	1941	1965	1978	1931	1931	1937	1941	1940	1941	1941	1977	1961

06225000 BULL LAKE CREEK NEAR LENORE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1918 - 1996	
ANNUAL TOTAL	109611		117681		--	
ANNUAL MEAN	300		322		274	
HIGHEST ANNUAL MEAN	--		--		427	1969
LOWEST ANNUAL MEAN	--		--		100	1941
HIGHEST DAILY MEAN	3090	Jul 14	1550	Jul 6,7	3900	Jun 16 1918
LOWEST DAILY MEAN	17	Apr 24,26,27,29,30, May 1,6-9	25	Oct 7-9	.00 ^a	Feb 28 to Apr 7 1937
ANNUAL SEVEN-DAY MINIMUM	17	Apr 24	32	Oct 6	.00	Feb 28 1937
INSTANTANEOUS PEAK FLOW	--		1680	Jul 8	6200 ^b	Aug 8 1951
INSTANTANEOUS PEAK STAGE	--		4.19	Jul 8	7.09	Aug 8 1951
ANNUAL RUNOFF (AC-FT)	217400		233400		198500	
10 PERCENT EXCEEDS	939		954		803	
50 PERCENT EXCEEDS	40		50		108	
90 PERCENT EXCEEDS	29		36		20	

^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 gates releasing at Bull Lake Dam.



06225000 BULL LAKE CREEK NEAR LENORE, WY

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: Nov. 26, 27, Dec. 4-11, Dec. 19 to Feb. 17, Feb. 24 to Mar. 1, Mar. 6-9 and June 9, 10. 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. Bureau of Reclamation data collection platform with satellite telemetry 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	877	485	340	240	280	308	785	1500	4040	2010	1580
2	785	804	493	330	240	371	374	851	1690	4340	1960	1560
3	743	723	413	320	240	365	419	855	2320	4840	1900	1530
4	796	709	350	300	260	376	399	825	3820	5100	1840	1520
5	659	660	340	290	280	351	376	830	5470	5620	1770	1490
6	586	550	330	290	300	270	364	842	6110	5770	1680	1490
7	551	485	340	300	310	280	459	946	5650	5260	1610	1490
8	579	455	340	310	320	300	598	1050	6640	4660	1600	1480
9	541	488	330	330	320	350	725	1060	7200	4120	1640	1520
10	564	474	320	340	300	414	880	1110	7730	3880	1620	1570
11	608	406	400	330	280	413	830	1160	8020	3760	1590	1640
12	597	499	467	320	300	417	756	1280	7670	3540	1590	1710
13	584	547	464	310	340	409	632	1650	7030	3410	1650	1670
14	518	528	425	330	370	390	546	2310	6650	3300	1750	1610
15	534	529	414	330	360	390	489	2510	6860	3230	1780	1630
16	542	503	430	330	350	388	540	2820	6820	3100	1770	1580
17	517	485	407	336	370	374	610	4010	6370	3010	1760	1500
18	517	470	404	320	389	348	604	3390	6470	2820	1740	1440
19	584	471	350	305	364	324	527	2550	5200	2790	1720	1260
20	510	467	320	320	354	318	488	1910	4220	2690	1680	1150
21	500	410	340	320	322	361	488	1510	4050	2520	1630	1130
22	541	443	320	320	312	386	482	1550	4540	2330	1580	1110
23	482	474	310	310	289	403	477	1740	4430	2090	1550	1080
24	493	451	300	290	265	343	500	1680	4050	1900	1520	968
25	818	449	300	280	260	271	661	1430	4280	1880	1500	901
26	866	430	300	270	245	272	650	1360	4460	1940	1490	850
27	886	400	300	290	240	290	631	1430	4820	1980	1480	844
28	870	407	310	290	220	305	612	1590	5090	1980	1460	812
29	885	446	340	280	240	322	641	1530	4910	2040	1460	827
30	903	493	360	260	---	313	709	1610	4360	2150	1530	802
31	891	---	350	250	---	299	---	1530	---	2080	1590	---
TOTAL	20280	15533	11352	9541	8680	10693	16775	49704	158430	102170	51450	39744
MEAN	654	518	366	308	299	345	559	1603	5281	3296	1660	1325
MAX	903	877	493	340	389	417	880	4010	8020	5770	2010	1710
MIN	482	400	300	250	220	270	308	785	1500	1880	1460	802
AC-FT	40230	30810	22520	18920	17220	21210	33270	98590	314200	202700	102100	78830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	678	480	389	371	358	366	563	1747	3725	2898	1657	1144
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

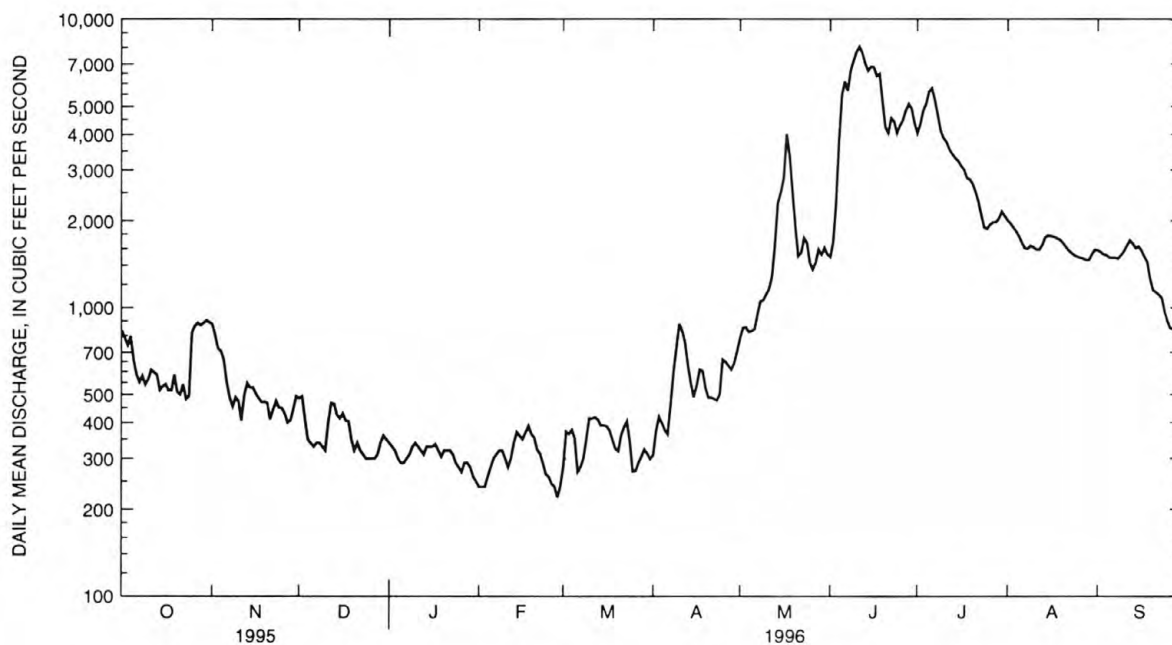
YELLOWSTONE RIVER BASIN

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06225500 WIND RIVER NEAR CROWHEART, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1946 - 1996		
ANNUAL TOTAL	471166			494352			--		
ANNUAL MEAN	1291			1351			1201		
HIGHEST ANNUAL MEAN	--			--			1651		1951
LOWEST ANNUAL MEAN	--			--			670		1977
HIGHEST DAILY MEAN	9610	Jul 14		8020	Jun 11		11300	Jun 23	1971
LOWEST DAILY MEAN	210	Jan 5		220	Feb 28		130	Feb 5	1982
ANNUAL SEVEN-DAY MINIMUM	229	Jan 1		250	Feb 24		143	Dec 30	1981
INSTANTANEOUS PEAK FLOW	--			9170	Jun 11		14300	Jun 13	1991
INSTANTANEOUS PEAK STAGE	--			10.31	Jun 11		11.04 ^a	Jun 13	1991
ANNUAL RUNOFF (AC-FT)	934600			980500			870200		
10 PERCENT EXCEEDS	3820			3920			2780		
50 PERCENT EXCEEDS	493			606			581		
90 PERCENT EXCEEDS	270			300			298		

a From floodmarks.



06225500 WIND RIVER NEAR CROWHEART, WY

YELLOWSTONE RIVER BASIN

06226000 WYOMING CANAL NEAR LENORE, WY

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. 14-19, Nov. 4, 5, Apr. 29, and May 31 to June 10. Records good except Apr. 24 to May 20, which are fair and those for estimated daily discharges, which are poor. Flow used for irrigation on Riverton project. Bureau of Reclamation data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	579	626	---	---	---	---	.00	599	1570	1160	1630	1190
2	549	582	---	---	---	---	.00	606	1550	1200	1600	1180
3	521	519	---	---	---	---	.00	542	1550	1260	1520	1170
4	551	150	---	---	---	---	.00	504	1650	1340	1430	1150
5	427	5.0	---	---	---	---	.00	513	1630	1390	1330	1120
6	264	.00	---	---	---	---	.00	486	1650	1380	1200	1120
7	293	.00	---	---	---	---	.00	571	1480	1360	1120	1130
8	344	.00	---	---	---	---	.00	753	1500	1360	1100	1120
9	317	.00	---	---	---	---	.00	779	1540	1450	1170	1170
10	299	.00	---	---	---	---	300	842	1580	1530	1170	1260
11	299	.00	---	---	---	---	597	919	1520	1540	1140	1340
12	290	.00	---	---	---	---	473	945	1530	1590	1140	1490
13	177	.00	---	---	---	---	429	1190	1570	1670	1230	1480
14	15	.00	---	---	---	---	370	1400	1620	1660	1420	1390
15	1.0	.00	---	---	---	---	321	1380	1690	1650	1490	1420
16	.00	.00	---	---	---	---	330	1450	1680	1600	1460	1430
17	.00	.00	---	---	---	---	399	1530	1630	1680	1430	1360
18	.00	.00	---	---	---	---	414	1520	1610	1690	1440	1300
19	180	.00	---	---	---	---	333	1520	1560	1680	1410	1140
20	364	.00	---	---	---	---	323	1510	1540	1670	1360	979
21	364	.00	---	---	---	---	327	1460	1530	1650	1260	958
22	369	.00	---	---	---	---	333	1330	1550	1630	1180	972
23	365	.00	---	---	---	---	315	1560	1540	1530	1150	972
24	360	.00	---	---	---	---	312	1570	1440	1410	1120	853
25	504	.00	---	---	---	---	446	1300	1390	1420	1090	786
26	546	.00	---	---	---	---	456	1200	1330	1460	1090	730
27	554	.00	---	---	---	---	440	1270	1230	1550	1080	713
28	530	.00	---	---	---	---	433	1440	1180	1560	1070	640
29	530	.00	---	---	---	---	390	1440	1180	1630	1050	663
30	609	.00	---	---	---	---	484	1320	1170	1750	1110	675
31	645	---	---	---	---	---	---	1470	---	1690	1210	---
TOTAL	10846.00	1882.00	---	---	---	---	8225.00	34919	45190	47140	39200	32901
MEAN	350	62.7	---	---	---	---	274	1126	1506	1521	1265	1097
MAX	645	626	---	---	---	---	597	1570	1690	1750	1630	1490
MIN	.00	.00	---	---	---	---	.00	486	1170	1160	1050	640
AC-FT	21510	3730	---	---	---	---	16310	69260	89630	93500	77750	65260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

	195	184	199	199	201	224	297	692	1114	1244	976	674
MEAN	195	184	199	199	201	224	297	692	1114	1244	976	674
MAX	430	436	383	345	357	422	440	1159	1668	1736	1402	1097
(WY)	1994	1972	1958	1958	1954	1972	1980	1976	1990	1976	1995	1996
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

06226000 WYOMING CANAL NEAR LENORE, WY--Continued

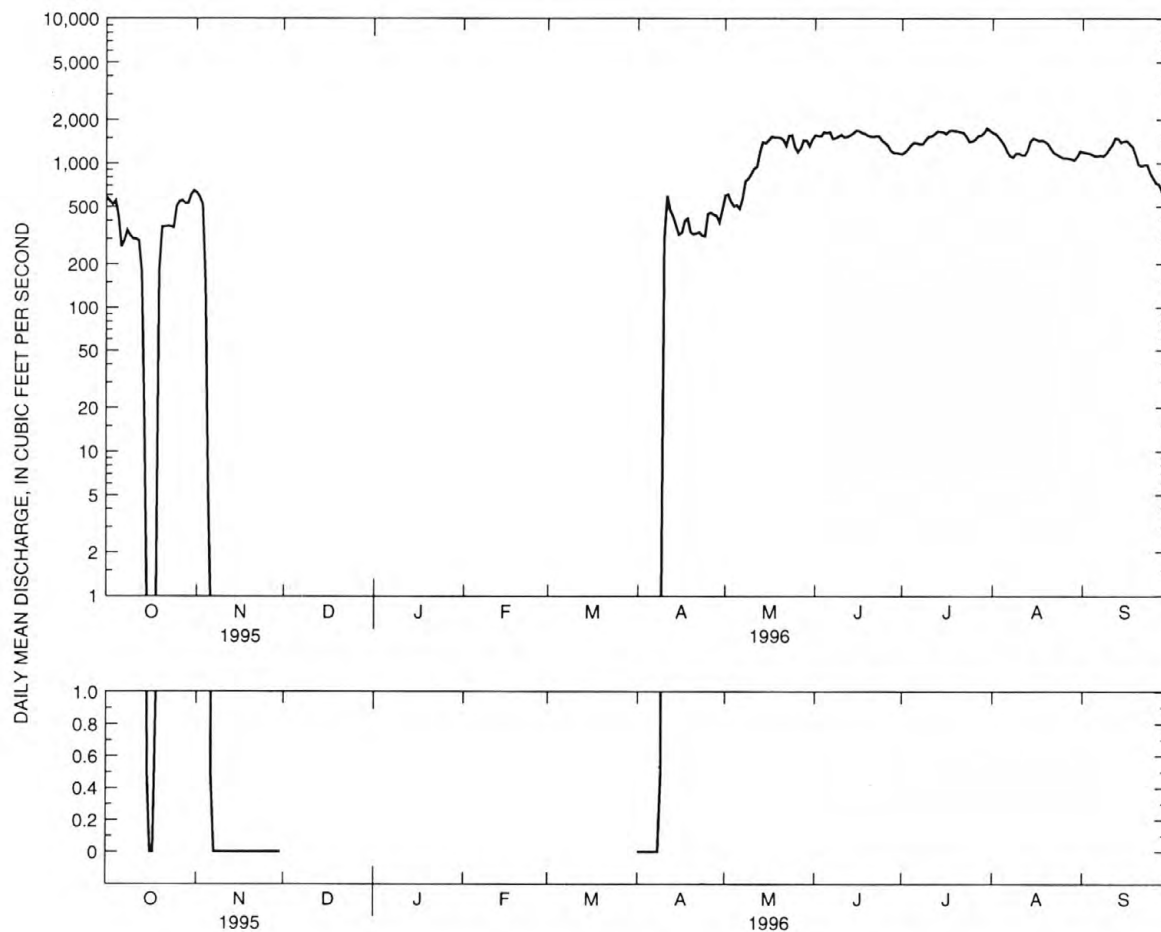
SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1941 - 1996*

ANNUAL MEAN	--	540	
HIGHEST ANNUAL MEAN	--	669	1972
LOWEST ANNUAL MEAN	--	461	1975
HIGHEST DAILY MEAN	1750 Jul 30	1860	Jun 11-12 1990
LOWEST DAILY MEAN	.00 Oct 16	.00	Many days, most years
ANNUAL SEVEN-DAY MINIMUM	--	.00	Many days, most years
INSTANTANEOUS PEAK FLOW	--	1830	Jul 26 1993
INSTANTANEOUS PEAK STAGE	--	13.28	Jul 26 1993
ANNUAL RUNOFF (AC-FT)	--	391000	
10 PERCENT EXCEEDS	1580	1340	
50 PERCENT EXCEEDS	1120	422	
90 PERCENT EXCEEDS	.00	.00	

* During period of operation.



06226000 WYOMING CANAL NEAR LENORE, WY

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).

CORRECTION.--Instantaneous peak stage for water years 1991-1995* is 2.18 ft on May 31, 1994; previously published figure of 52.00 ft, May 31, 1994, in 1995 data report is incorrect.

GAGE.--Water-stage recorder. Elevation of 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. Wind River Indian Reservation data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	---	---	---	---	---	---	---	16	15	28	26
2	7.2	---	---	---	---	---	---	---	18	15	27	26
3	---	---	---	---	---	---	---	---	22	15	26	26
4	---	---	---	---	---	---	---	---	30	15	26	26
5	---	---	---	---	---	---	---	---	17	15	26	26
6	---	---	---	---	---	---	---	---	24	15	31	26
7	---	---	---	---	---	---	---	---	22	15	36	26
8	---	---	---	---	---	---	---	---	19	15	37	27
9	---	---	---	---	---	---	---	---	16	14	37	27
10	---	---	---	---	---	---	---	---	14	15	36	27
11	---	---	---	---	---	---	---	---	19	19	35	27
12	---	---	---	---	---	---	---	---	18	26	34	27
13	---	---	---	---	---	---	---	21	20	29	34	27
14	---	---	---	---	---	---	---	19	18	29	34	27
15	---	---	---	---	---	---	---	13	16	28	34	27
16	---	---	---	---	---	---	---	10	16	33	33	27
17	---	---	---	---	---	---	---	14	15	37	33	25
18	---	---	---	---	---	---	---	17	15	36	33	24
19	---	---	---	---	---	---	---	16	15	38	30	22
20	---	---	---	---	---	---	---	12	15	37	27	21
21	---	---	---	---	---	---	---	13	14	35	26	22
22	---	---	---	---	---	---	---	18	14	33	26	22
23	---	---	---	---	---	---	---	20	14	36	26	22
24	---	---	---	---	---	---	---	21	14	37	25	20
25	---	---	---	---	---	---	---	21	14	35	25	21
26	---	---	---	---	---	---	---	20	14	34	25	21
27	---	---	---	---	---	---	---	20	15	33	25	21
28	---	---	---	---	---	---	---	20	15	31	25	23
29	---	---	---	---	---	---	---	18	15	30	25	23
30	---	---	---	---	---	---	---	18	15	31	26	23
31	---	---	---	---	---	---	---	16	---	29	26	---
TOTAL	---	---	---	---	---	---	---	---	509	825	917	735
MEAN	---	---	---	---	---	---	---	---	17.0	26.6	29.6	24.5
MAX	---	---	---	---	---	---	---	---	30	38	37	27
MIN	---	---	---	---	---	---	---	---	14	14	25	20
AC-FT	---	---	---	---	---	---	---	---	1010	1640	1820	1460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	1.25	---	---	---	---	---
MAX	1.73	---	---	---	---	---
(WY)	1993	1994	1995	1996	1997	1998
MIN	.76	---	---	---	---	---
(WY)	1994	1995	1996	1997	1998	1999

06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNEN, WY--Continued

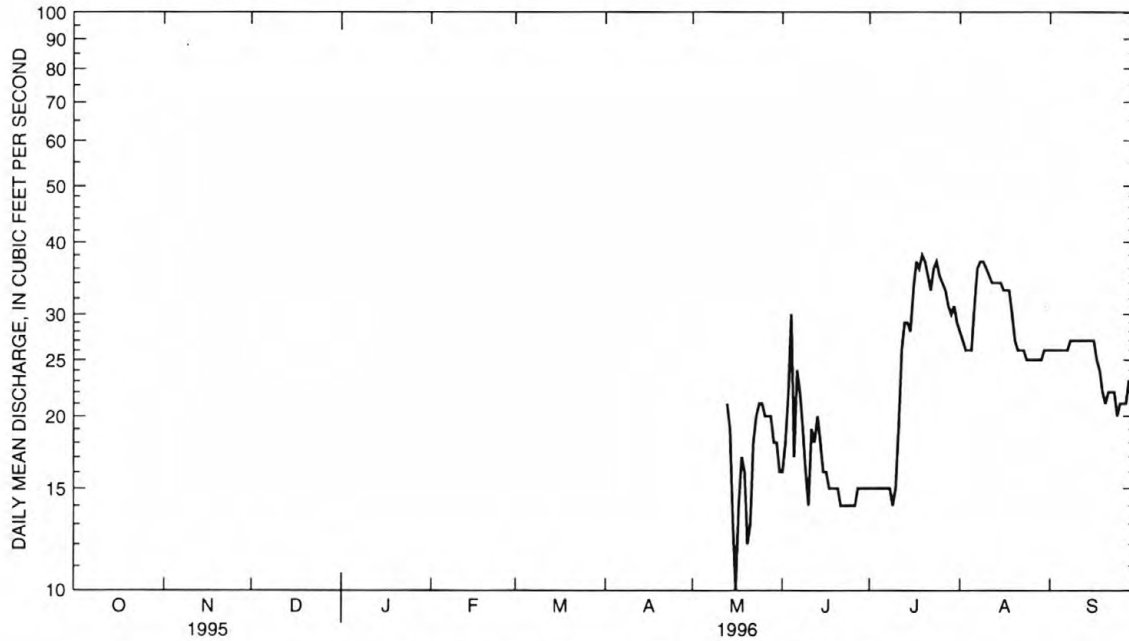
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1991 - 1996*

HIGHEST DAILY MEAN
LOWEST DAILY MEAN38 Jul 19
7.2 Oct 1, 248 Jun 25 1991
.00 Many days,INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS56 Jul 23
2.25 Jul 23
--
--
--56 Jul 23 1996
2.25 Jul 23 1996
31
20
1.7

* During period of operation.



06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNEN, WY

YELLOWSTONE RIVER BASIN

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: Dec. 3 to May 13. 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. Midvale Irrigation District data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	207	504	370	270	310	370	186	564	3860	544	393
2	174	206	499	360	280	350	450	245	601	4030	502	396
3	175	206	430	350	290	380	440	313	1120	4510	490	404
4	174	325	370	330	300	440	420	321	2360	4840	485	391
5	203	649	350	320	320	430	400	317	4090	5450	490	373
6	388	585	360	340	330	420	395	356	5060	5610	478	382
7	417	534	360	400	340	390	470	375	5090	5290	468	391
8	299	506	360	420	350	370	580	279	5390	4720	462	389
9	310	518	350	447	355	400	560	281	6360	3960	460	387
10	337	532	320	440	340	520	542	268	7360	3610	437	393
11	366	473	455	410	330	560	233	241	7570	3270	428	393
12	355	508	430	380	360	615	283	335	7700	2940	428	397
13	485	552	420	382	410	560	203	900	7170	2570	429	390
14	573	540	420	390	440	420	176	1550	6350	2370	429	380
15	571	538	430	410	400	480	168	2110	6380	2240	422	388
16	583	527	388	420	380	520	210	2380	6380	2090	415	368
17	569	517	390	380	400	490	211	3560	5920	1860	419	350
18	565	500	395	360	420	450	190	3380	5930	1590	403	337
19	488	500	400	340	445	420	194	2320	5000	1500	400	276
20	267	502	370	360	430	400	165	1370	4110	1370	390	268
21	255	461	360	370	420	380	161	680	3860	1190	388	277
22	258	463	350	360	360	410	149	721	4190	959	409	275
23	222	497	330	350	340	420	162	742	4220	841	404	260
24	201	486	325	340	320	370	188	758	3900	691	404	236
25	212	482	320	320	290	300	215	675	4030	618	405	239
26	216	487	318	300	270	320	194	667	4150	604	417	238
27	207	517	330	320	260	330	191	642	4680	592	419	191
28	206	459	350	320	280	350	179	664	5000	569	386	234
29	206	476	360	300	290	400	251	618	4930	574	366	224
30	212	504	370	290	---	380	225	672	4390	607	387	214
31	212	---	380	280	---	370	---	584	---	560	393	---
TOTAL	9880	14257	11794	11159	10020	12955	8575	28510	143855	75485	13357	9834
MEAN	319	475	380	360	346	418	286	920	4795	2435	431	328
MAX	583	649	504	447	445	615	580	3560	7700	5610	544	404
MIN	174	206	318	280	260	300	149	186	564	560	366	191
AC-FT	19600	28280	23390	22130	19870	25700	17010	56550	285300	149700	26490	19510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	255	403	307	278	282
MAX	319	475	380	360	346
(WY)	1996	1996	1996	1996	1996
MIN	188	364	240	193	224
(WY)	1993	1995	1993	1993	1993

YELLOWSTONE RIVER BASIN

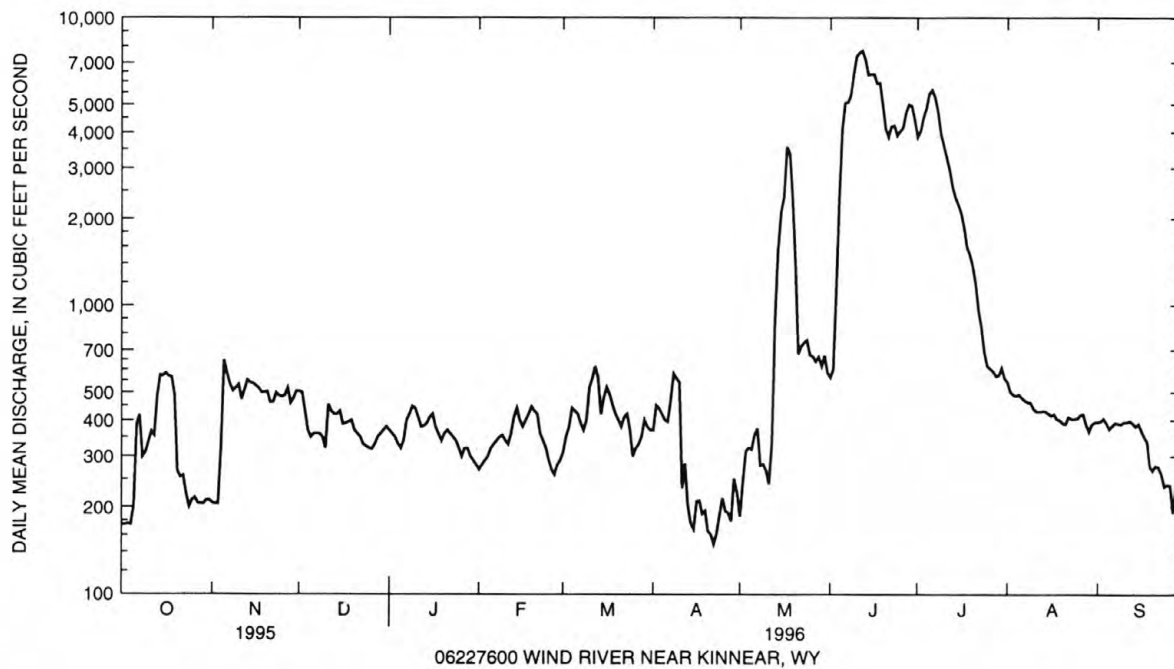
75

06227600 WIND RIVER NEAR KINNEAR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	392746	349681	--
ANNUAL MEAN	1076	955	652
HIGHEST ANNUAL MEAN	--	--	1051
LOWEST ANNUAL MEAN	--	--	361
HIGHEST DAILY MEAN	10500	7700	10500
LOWEST DAILY MEAN	92	149	28
ANNUAL SEVEN-DAY MINIMUM	114	173	79
INSTANTANEOUS PEAK FLOW	--	9080	13900
INSTANTANEOUS PEAK STAGE	--	7.27	8.40 ^a
ANNUAL RUNOFF (AC-FT)	779000	693600	472600
10 PERCENT EXCEEDS	4060	3570	1050
50 PERCENT EXCEEDS	360	400	356
90 PERCENT EXCEEDS	200	223	190

For period of record, 1974-79, 1992-96.

a From floodmark.



YELLOWSTONE RIVER BASIN

06227810 LEFTHAND 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 9 and Sept. 11-30. Records fair. Flow is diverted from Wind River for irrigation. Wind River Indian Reservation data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	14	14	31	15
2	---	---	---	---	---	---	---	---	14	15	32	13
3	---	---	---	---	---	---	---	---	15	14	31	11
4	---	---	---	---	---	---	---	---	18	12	31	21
5	---	---	---	---	---	---	---	---	20	11	31	29
6	---	---	---	---	---	---	---	---	18	7.2	30	30
7	---	---	---	---	---	---	---	---	10	3.1	30	30
8	---	---	---	---	---	---	---	---	7.6	2.3	30	31
9	---	---	---	---	---	---	---	3.8	5.9	18	30	31
10	---	---	---	---	---	---	---	7.0	6.0	26	30	31
11	---	---	---	---	---	---	---	6.9	10	31	30	31
12	---	---	---	---	---	---	---	7.0	15	36	30	31
13	---	---	---	---	---	---	---	8.1	18	35	29	31
14	---	---	---	---	---	---	---	8.6	16	35	27	31
15	---	---	---	---	---	---	---	3.3	14	34	23	30
16	---	---	---	---	---	---	---	2.3	13	32	22	30
17	---	---	---	---	---	---	---	11	13	31	21	28
18	---	---	---	---	---	---	---	18	18	30	17	20
19	---	---	---	---	---	---	---	17	20	30	11	14
20	---	---	---	---	---	---	---	15	20	30	13	7.0
21	---	---	---	---	---	---	---	13	19	29	9.3	6.8
22	---	---	---	---	---	---	---	13	16	29	19	6.6
23	---	---	---	---	---	---	---	14	16	29	26	6.4
24	---	---	---	---	---	---	---	14	16	29	15	6.2
25	---	---	---	---	---	---	---	14	16	28	5.1	6.0
26	---	---	---	---	---	---	---	14	17	28	9.6	5.8
27	---	---	---	---	---	---	---	14	17	28	19	5.6
28	---	---	---	---	---	---	---	14	16	28	23	5.4
29	---	---	---	---	---	---	---	15	14	30	25	5.4
30	---	---	---	---	---	---	---	15	14	32	26	5.4
31	---	---	---	---	---	---	---	15	---	31	24	---
TOTAL	---	---	---	---	---	---	---	---	446.5	767.6	730.0	554.6
MEAN	---	---	---	---	---	---	---	---	14.9	24.8	23.5	18.5
MAX	---	---	---	---	---	---	---	---	20	36	32	31
MIN	---	---	---	---	---	---	---	---	5.9	2.3	5.1	5.4
AC-FT	---	---	---	---	---	---	---	---	886	1520	1450	1100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	.60	---	---	---	---	---	.60	24.4	25.2	28.2	30.1	27.9
MAX	.87	---	---	---	---	---	.60	35.3	39.7	44.6	47.7	42.9
(WY)	1994	---	---	---	---	---	1992	1992	1993	1994	1994	1994
MIN	.33	---	---	---	---	---	.60	20.2	12.8	19.4	23.5	18.5
(WY)	1993	---	---	---	---	---	1992	1993	1995	1993	1996	1996

06227810 LEFTHAND DITCH AT HEADWORKS, NEAR RIVERTON, WY--Continued

SUMMARY STATISTICS

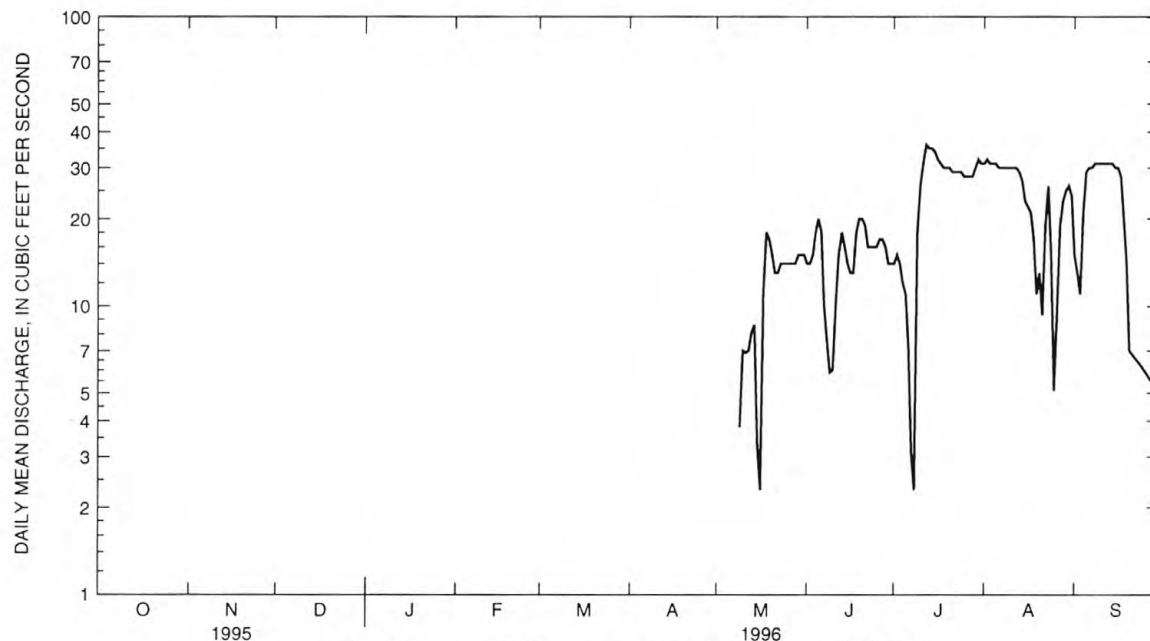
FOR 1996 WATER YEAR*

WATER YEARS 1991 - 1996*

HIGHEST DAILY MEAN
LOWEST DAILY MEAN36 Jul 12
2.3 May 16, Jul 859 Jun 13 1991
.00 Many days,
each yearINSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE41 Jul 9
2.74 Jul 974^a Jun 13 1991
2.74 Jul 23 1994,
Jul 9 199610 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS--
--
--
40
26
1.8

* During period of operation.

a Gage height, 2.73 ft.



06227810 LEFTHAND DITCH AT HEADWORKS, NEAR RIVERTON, WY

06228000 WIND RIVER AT RIVERTON, WY

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 100800001, 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.

REVISED RECORDS.--WSP 1509: 1935. WSP 1709: Drainage area.

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: Dec. 8-10, Dec. 19 to Mar. 18, June 20, 21, and July 18. Records good 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. Bureau of Reclamation data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	206	504	360	330	280	344	72	183	2820	152	89
2	102	205	499	370	300	310	355	97	175	2810	119	98
3	103	202	487	380	280	340	410	106	335	3090	106	102
4	101	210	419	350	280	370	426	84	1300	3430	103	89
5	98	621	404	300	300	400	407	72	2700	3710	104	77
6	213	615	417	290	330	410	369	73	3660	4190	99	96
7	390	558	437	310	360	360	377	92	3750	4040	101	102
8	265	519	380	340	400	345	500	110	3750	3560	103	102
9	265	514	300	370	440	350	689	110	4460	2800	112	99
10	274	529	320	440	500	380	824	82	5390	2340	109	96
11	292	489	498	500	500	400	432	77	5770	2000	90	98
12	295	486	582	480	450	440	439	79	5870	1710	84	115
13	318	537	543	459	460	450	317	217	5470	1470	86	111
14	540	554	501	450	470	440	214	624	4840	1350	85	125
15	518	538	450	470	460	480	184	1120	4650	1290	77	134
16	562	535	444	500	440	500	175	1170	4790	1230	77	142
17	599	521	445	460	440	480	172	1840	4550	1110	85	159
18	587	506	451	400	460	460	171	1980	4340	930	88	196
19	582	498	320	380	470	421	174	1350	3900	762	77	161
20	303	502	270	380	480	361	172	732	3000	725	77	118
21	258	475	290	430	480	355	161	241	2400	627	67	124
22	269	457	330	400	460	399	144	75	2810	475	65	127
23	234	487	360	380	440	426	134	145	2950	345	67	112
24	214	490	350	370	430	418	105	204	2700	248	70	91
25	202	478	340	360	410	341	123	238	2730	181	72	72
26	221	480	330	340	380	305	136	275	2860	165	76	73
27	210	508	320	340	320	320	120	242	3230	127	69	77
28	207	482	320	380	300	333	117	247	3580	118	67	91
29	204	457	320	400	250	356	101	270	3730	141	61	104
30	202	494	330	380	---	365	94	214	3340	183	80	101
31	205	---	350	360	---	353	---	226	---	191	96	---
TOTAL	8952	14153	12311	12129	11620	11948	8386	12464	103213	48168	2724	3281
MEAN	289	472	397	391	401	385	280	402	3440	1554	87.9	109
MAX	599	621	582	500	500	500	824	1980	5870	4190	152	196
MIN	98	202	270	290	250	280	94	72	175	118	61	72
AC-FT	17760	28070	24420	24060	23050	23700	16630	24720	204700	95540	5400	6510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1996, BY WATER YEAR (WY)

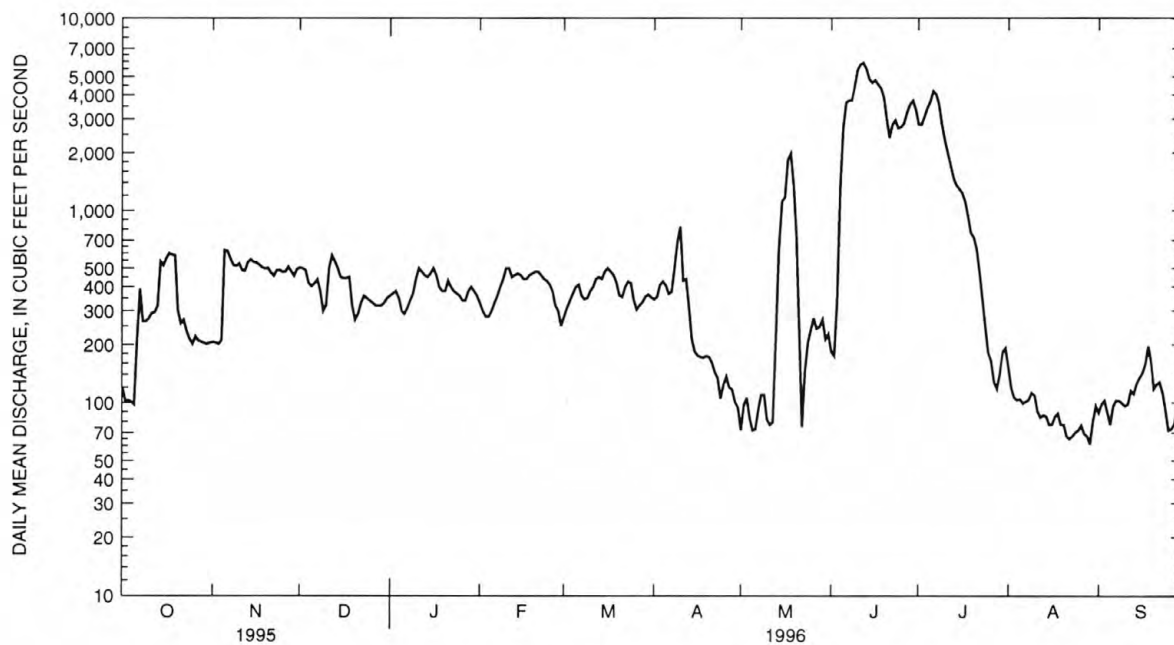
MEAN	601	446	349	330	332	347	422	1242	2857	1772	698	496
MAX	1500	895	559	539	531	650	1234	4618	7194	5802	3052	1794
(WY)	1952	1969	1972	1972	1948	1916	1943	1928	1921	1917	1930	1927
MIN	152	222	200	151	196	74.9	53.8	72.6	68.6	20.3	42.8	35.7
(WY)	1993	1941	1932	1938	1981	1981	1989	1989	1994	1994	1994	1988

06228000 WIND RIVER AT RIVERTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1912 - 1996	
ANNUAL TOTAL	295996		249349		--	
ANNUAL MEAN	811		681		815	
HIGHEST ANNUAL MEAN	--		--		1626	1913
LOWEST ANNUAL MEAN	--		--		195	1988
HIGHEST DAILY MEAN	7160	Jun 16	5870	Jun 12	11400	Jun 14 1935
LOWEST DAILY MEAN	48	Aug 5	61	Aug 29	9.8	May 28, 1977
ANNUAL SEVEN-DAY MINIMUM	95	Sep 10	69	Aug 23	12	Jul 16 1977
INSTANTANEOUS PEAK FLOW	--		6360	Jun 12	13300 ^a	Jun 15 1935
INSTANTANEOUS PEAK STAGE	--		9.24	Jun 12	10.80 ^b	Dec 30 1983
ANNUAL RUNOFF (AC-FT)	587100		494600		590600	
10 PERCENT EXCEEDS	3510		2100		2090	
50 PERCENT EXCEEDS	270		351		402	
90 PERCENT EXCEEDS	111		92		172	

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

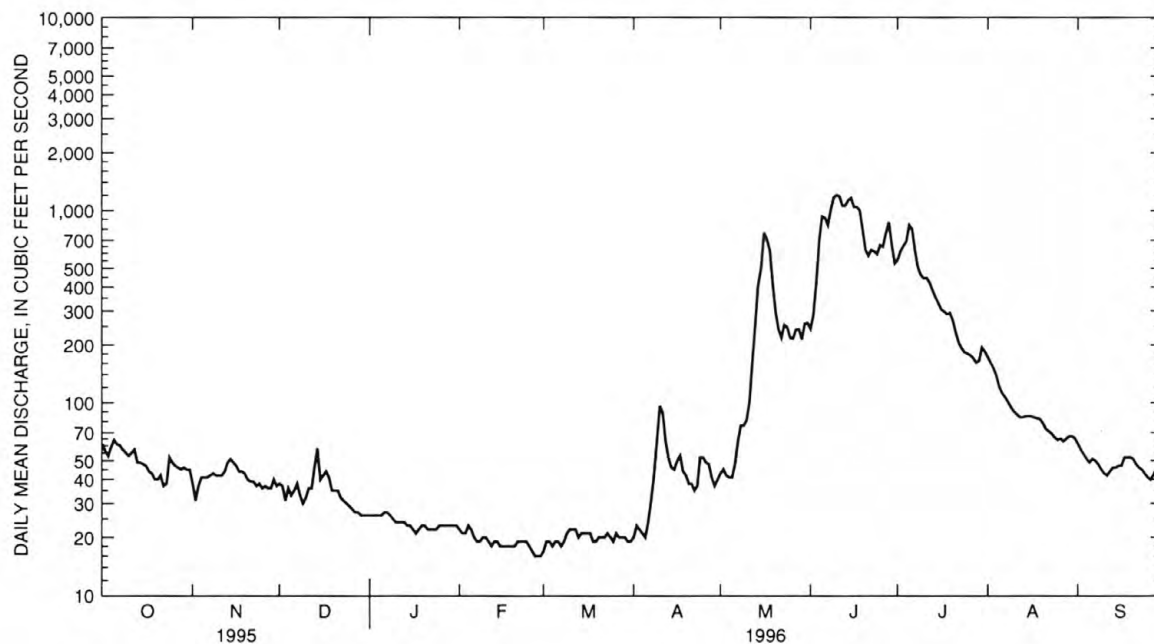
b Backwater from ice.



06228000 WIND RIVER AT RIVERTON, WY

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1977 - 1996	
ANNUAL TOTAL	68807		54613		--	
ANNUAL MEAN	189		149		126	
HIGHEST ANNUAL MEAN	--		--		188	1986
LOWEST ANNUAL MEAN	--		--		71.2	1977
HIGHEST DAILY MEAN	1730	Jun 15	1200	Jun 10	1960	Jun 13 1991
LOWEST DAILY MEAN	12	Feb 12	16	Feb 27-29	4.5	Feb 1 1977
ANNUAL SEVEN-DAY MINIMUM	13	Feb 8	17	Feb 24	4.5	Feb 1 1977
INSTANTANEOUS PEAK FLOW	--		1370	Jun 11	2230	Jun 13 1991
INSTANTANEOUS PEAK STAGE	--		6.46	Jun 11	8.48	Jun 13 1991
ANNUAL RUNOFF (AC-FT)	136500		108300		91240	
10 PERCENT EXCEEDS	646		537		374	
50 PERCENT EXCEEDS	45		44		38	
90 PERCENT EXCEEDS	15		20		14	



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

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: Jan. 18, 25 and Jan. 31 to Feb. 2. Records good except those for estimated daily discharges, which are poor. Flow regulated by Washakie Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

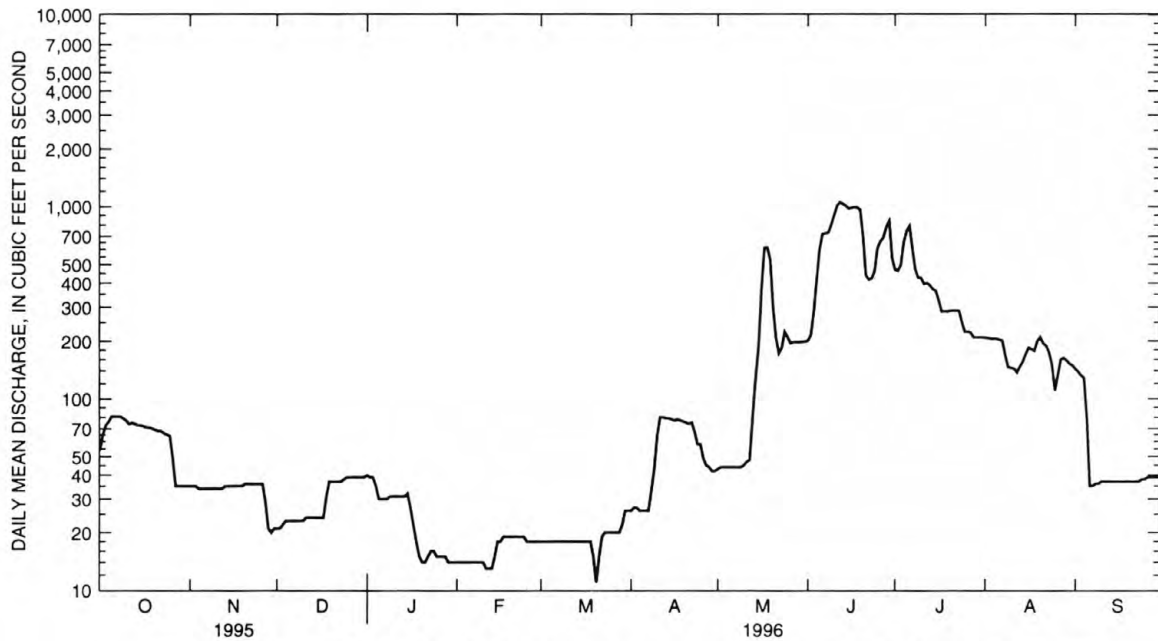
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	35	21	40	14	18	26	43	201	469	208	143
2	65	35	21	39	14	18	27	44	215	462	207	138
3	73	35	22	39	14	18	27	44	286	498	205	132
4	76	34	23	35	14	18	26	44	420	651	205	128
5	81	34	23	30	14	18	26	44	601	746	205	78
6	81	34	23	30	14	18	26	44	721	790	203	35
7	81	34	23	30	14	18	26	44	725	603	201	35
8	81	34	23	30	14	18	33	44	731	470	168	36
9	79	34	23	31	14	18	43	44	803	428	146	36
10	77	34	23	31	14	18	64	45	901	426	145	37
11	74	34	24	31	13	18	80	47	1010	397	143	37
12	75	34	24	31	13	18	80	48	1050	401	137	37
13	74	35	24	31	13	18	79	81	1030	389	147	37
14	73	35	24	31	15	18	79	126	1010	372	156	37
15	73	35	24	32	18	18	78	187	977	366	171	37
16	72	35	24	27	18	18	77	377	985	325	184	37
17	71	35	24	22	19	18	78	610	992	285	181	37
18	71	35	31	18	19	18	77	611	988	285	178	37
19	70	35	37	15	19	15	76	528	961	285	199	37
20	69	36	37	14	19	11	75	295	699	287	209	37
21	68	36	37	14	19	15	74	208	439	288	194	37
22	68	36	37	15	19	19	75	173	418	288	189	37
23	66	36	37	16	19	20	67	184	423	287	175	37
24	65	36	38	16	19	20	58	223	460	251	151	38
25	64	36	39	15	18	20	58	210	606	224	110	38
26	49	36	39	15	18	20	49	195	657	224	133	39
27	35	29	39	15	18	20	45	197	687	221	160	39
28	35	21	39	15	18	20	44	197	783	209	163	39
29	35	20	39	14	18	22	42	197	842	209	158	39
30	35	21	39	14	---	26	42	198	538	209	152	39
31	35	---	39	14	---	26	---	198	---	209	149	---
TOTAL	2025	999	920	750	472	578	1657	5530	21159	11554	5332	1550
MEAN	65.3	33.3	29.7	24.2	16.3	18.6	55.2	178	705	373	172	51.7
MAX	81	36	39	40	19	26	80	611	1050	790	209	143
MIN	35	20	21	14	13	11	26	43	201	209	110	35
AC-FT	4020	1980	1820	1490	936	1150	3290	10970	41970	22920	10580	3070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	32.8	27.5	22.4	17.9	13.7	14.2	33.0	169
MAX	65.3	40.6	36.7	24.2	18.7	21.8	71.4	215
(WY)	1996	1991	1991	1996	1995	1994	1994	1991
MIN	18.8	4.68	5.19	6.18	7.19	6.65	5.07	125
(WY)	1989	1989	1989	1989	1989	1991	1991	1990

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	66200		52526		--	
ANNUAL MEAN	181		144		121	
HIGHEST ANNUAL MEAN	--		--		177	1995
LOWEST ANNUAL MEAN	--		--		80.1	1994
HIGHEST DAILY MEAN	1650	Jun 16	1050	Jun 12	1930	Jun 13 1991
LOWEST DAILY MEAN	16	Feb 11	11	Mar 20	3.5	Mar 17 1991
ANNUAL SEVEN-DAY MINIMUM	16	Feb 11	14	Feb 7	3.6	Mar 16 1991
INSTANTANEOUS PEAK FLOW	--		1100	Jun 12	2120	Jun 13 1991
INSTANTANEOUS PEAK STAGE	--		4.66	Jun 12	6.43	Jun 13 1991
ANNUAL RUNOFF (AC-FT)	131300		104200		87610	
10 PERCENT EXCEEDS	583		427		320	
50 PERCENT EXCEEDS	37		39		35	
90 PERCENT EXCEEDS	16		18		10	



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

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: July 10, 11. Flow is diverted from the South Fork Little Wind River for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	---	---	---	---	---	.94	15	198	308	212	163
2	2.2	---	---	---	---	---	.95	15	206	315	212	157
3	2.2	---	---	---	---	---	1.0	15	230	327	211	151
4	2.1	---	---	---	---	---	1.0	14	254	369	211	143
5	2.0	---	---	---	---	---	1.0	15	251	381	209	105
6	2.0	---	---	---	---	---	1.0	14	252	382	209	40
7	2.0	---	---	---	---	---	1.0	14	250	346	207	39
8	1.9	---	---	---	---	---	1.1	15	253	308	179	38
9	1.9	---	---	---	---	---	1.2	16	253	290	150	37
10	1.9	---	---	---	---	---	1.5	16	246	280	149	37
11	1.8	---	---	---	---	---	1.7	16	244	277	147	37
12	1.8	---	---	---	---	---	1.7	16	297	310	139	38
13	1.7	---	---	---	---	---	1.7	22	372	334	147	38
14	1.7	---	---	---	---	---	1.7	85	333	320	160	40
15	1.7	---	---	---	---	---	1.7	135	325	317	173	39
16	1.6	---	---	---	---	---	1.7	154	317	291	192	38
17	1.6	---	---	---	---	---	1.7	172	336	257	190	42
18	1.6	---	---	---	---	---	1.7	201	367	267	187	45
19	1.6	---	---	---	---	---	1.7	194	385	280	197	43
20	1.6	---	---	---	---	---	1.7	161	364	281	211	43
21	1.6	---	---	---	---	---	1.7	160	314	280	201	42
22	1.6	---	---	---	---	---	1.7	179	320	279	198	42
23	1.5	---	---	---	---	---	1.7	183	322	278	197	42
24	1.5	---	---	---	---	---	1.6	218	336	255	181	42
25	1.5	---	---	---	---	---	1.4	214	372	230	127	42
26	1.4	---	---	---	---	---	12	206	359	230	145	43
27	1.0	---	---	---	---	---	15	209	355	228	184	43
28	1.0	---	---	---	---	---	15	209	368	218	188	43
29	1.0	---	---	---	---	---	15	180	390	219	182	42
30	1.0	---	---	---	---	---	16	136	333	218	177	42
31	1.0	---	---	---	---	---	---	147	---	214	171	---
TOTAL	51.2	---	---	---	---	---	108.79	3346	9202	8889	5643	1736
MEAN	1.65	---	---	---	---	---	3.63	108	307	287	182	57.9
MAX	2.2	---	---	---	---	---	16	218	390	382	212	163
MIN	1.0	---	---	---	---	---	.94	14	198	214	127	37
AC-FT	102	---	---	---	---	---	216	6640	18250	17630	11190	3440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

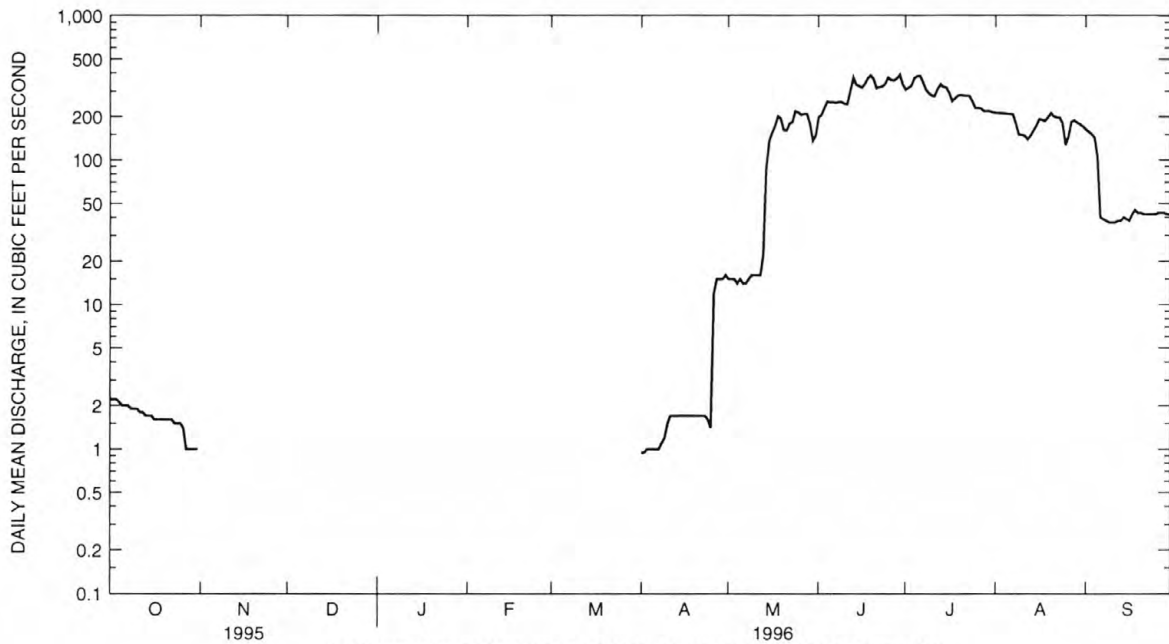
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	23.4	21.6	---	---	---	---	19.2	110	197	220	170	96.3
MAX	50.7	28.9	---	---	---	---	47.5	199	319	287	241	146
(WY)	1995	1995	---	---	---	---	1989	1992	1990	1996	1995	1990
MIN	.81	14.2	---	---	---	---	.97	21.3	29.5	100	76.0	38.2
(WY)	1994	1993	---	---	---	---	1992	1991	1995	1992	1994	1994

06228510 RAY CANAL AT HEADWORKS, NEAR FORT WASHAKIE, WY--Continued

SUMMARY STATISTICS

	FOR 1996 WATER YEAR*		WATER YEARS 1989 - 1996*	
HIGHEST DAILY MEAN	390	Jun 29	390	Jun 29 1996
LOWEST DAILY MEAN	.94	Apr 1	.00	Apr 1 1991
INSTANTANEOUS PEAK FLOW	446	Jun 12	446	Jun 12 1996
INSTANTANEOUS PEAK STAGE	4.08	Jun 12	4.08	Jun 12 1996
10 PERCENT EXCEEDS	--		271	
50 PERCENT EXCEEDS	--		118	
90 PERCENT EXCEEDS	--		1.6	

* During period of operation.



06228510 RAY CANAL AT HEADWORKS, NEAR FORT WASHAKIE, WY

YELLOWSTONE RIVER BASIN

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: Nov. 2 to Mar. 29 and Sept. 4-30. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of 80 acres upstream from station. U.S. Geological Survey data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	50	50	42	19	19	38	45	352	647	187	72
2	79	49	48	40	18	22	43	47	365	648	179	68
3	77	47	47	38	17	24	41	44	452	672	170	64
4	78	44	46	37	19	26	39	42	819	734	164	60
5	82	42	46	34	20	27	38	40	1070	776	156	59
6	80	44	45	35	22	25	43	45	1140	791	147	61
7	79	46	42	37	24	26	50	58	1120	735	141	60
8	78	50	41	39	26	29	89	71	1210	638	135	58
9	76	52	39	39	26	32	120	70	1340	579	130	55
10	74	54	42	40	27	35	140	73	1420	548	124	52
11	73	49	46	41	26	32	115	83	1380	520	120	50
12	73	50	52	40	25	30	78	121	1250	502	116	52
13	67	52	60	39	23	31	68	177	1170	477	113	54
14	64	52	69	40	24	32	60	281	1140	442	111	54
15	63	54	70	42	25	31	59	453	1130	413	109	55
16	61	54	72	34	23	32	63	811	1120	385	105	55
17	58	54	68	23	24	31	68	982	1050	361	103	60
18	56	52	62	22	25	30	56	933	973	343	104	60
19	54	52	56	23	26	29	51	742	931	327	101	60
20	51	50	50	26	27	29	46	562	858	313	100	59
21	50	48	48	28	28	30	46	428	762	285	96	56
22	52	50	47	29	29	31	44	389	734	260	93	54
23	55	50	46	29	29	32	44	399	709	240	91	53
24	58	49	47	28	30	32	60	376	682	217	89	50
25	60	47	46	26	29	31	65	364	691	206	87	49
26	59	44	45	24	26	30	55	421	708	200	85	48
27	57	42	43	25	24	31	54	442	749	192	83	49
28	55	44	44	25	20	35	45	439	835	189	85	51
29	55	47	45	23	18	36	41	424	836	191	80	49
30	53	48	46	21	---	37	43	445	727	196	78	48
31	53	---	44	19	---	38	---	393	---	191	75	---
TOTAL	2014	1466	1552	988	699	935	1802	10200	27723	13218	3557	1675
MEAN	65.0	48.9	50.1	31.9	24.1	30.2	60.1	329	924	426	115	55.8
MAX	84	54	72	42	30	38	140	982	1420	791	187	72
MIN	50	42	39	19	17	19	38	40	352	189	75	48
AC-FT	3990	2910	3080	1960	1390	1850	3570	20230	54990	26220	7060	3320

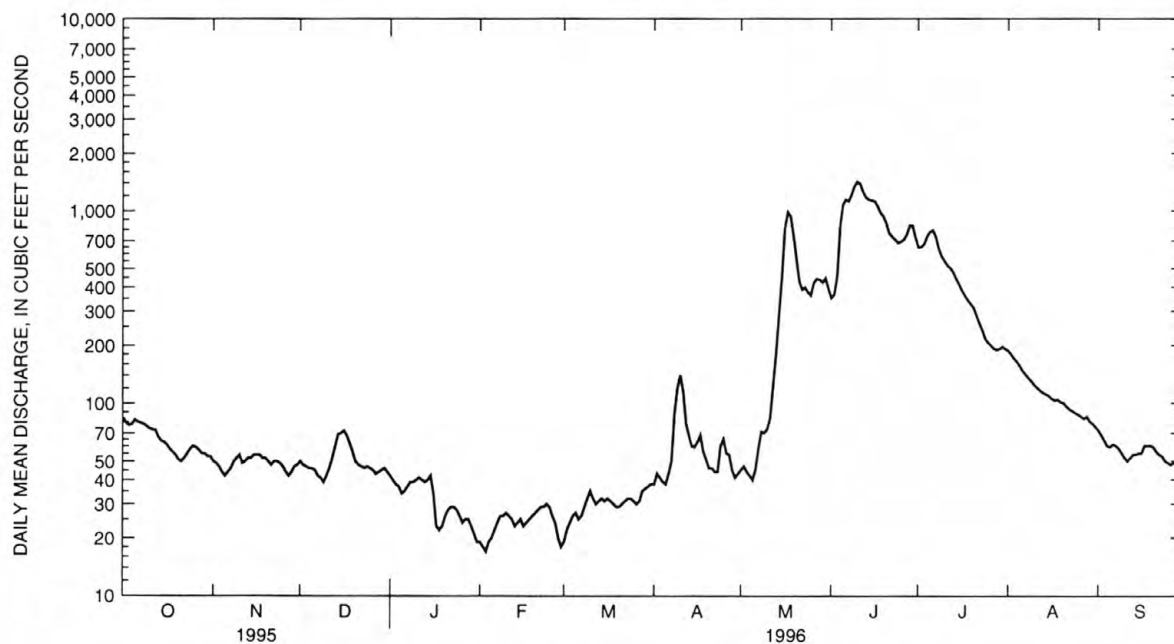
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

	1989	1989	1989	1989	1989	1990	1993	1990	1992	1994	1994	1992
MEAN	47.5	32.8	25.1	18.3	16.9	24.3	51.2	247	624	337	121	63.4
MAX	65.0	48.9	50.1	31.9	24.1	38.8	84.5	376	1006	758	224	98.8
(WY)	1996	1996	1996	1996	1996	1995	1994	1993	1991	1995	1993	1995
MIN	13.5	14.7	13.6	8.95	8.52	16.1	27.5	143	212	74.9	56.0	35.5
(WY)	1989	1989	1989	1989	1989	1990	1993	1990	1992	1994	1994	1992

06228800 NORTH FORK LITTLE WIND RIVER NEAR FORT WASHAKIE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	72123		65829		--	
ANNUAL MEAN	198		180		134	
HIGHEST ANNUAL MEAN	--		--		194	
LOWEST ANNUAL MEAN	--		--		76.1	
HIGHEST DAILY MEAN	1560	Jun 15	1420	Jun 10	2070	Jun 13 1991
LOWEST DAILY MEAN	12	Jan 5	17	Feb 3	6.5	Feb 3 1989
ANNUAL SEVEN-DAY MINIMUM	15	Jan 2	19	Jan 30	7.4	Feb 2 1989
INSTANTANEOUS PEAK FLOW	--		1490	Jun 11	2360 ^a	Jun 13 1991
INSTANTANEOUS PEAK STAGE	--		6.55	Jun 11	6.94	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	143100		130600		97250	
10 PERCENT EXCEEDS	729		655		372	
50 PERCENT EXCEEDS	56		54		45	
90 PERCENT EXCEEDS	20		26		16	

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



06228800 NORTH FORK LITTLE WIND RIVER NEAR FORT WASHAKIE, WY

YELLOWSTONE RIVER BASIN

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: Jan. 1-8, Apr. 8, 9, Apr. 27 to June 4, and Sept. 13-18. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	7.9	6.4	6.0	5.1	5.5	5.8	8.8	27.0	11	6.7	4.8
2	9.1	7.9	6.6	6.0	5.0	5.4	6.4	9.1	26.5	11	6.5	4.7
3	9.1	7.9	6.6	5.8	4.8	5.4	5.9	9.1	29.0	10	6.4	4.6
4	9.6	7.9	6.6	5.8	4.4	5.5	5.8	9.1	31.0	10	6.1	4.6
5	8.9	7.9	6.7	5.6	4.5	5.5	5.8	9.6	35	10	6.0	4.6
6	8.7	7.9	6.6	5.4	4.5	5.4	5.8	9.8	34	9.6	5.9	4.9
7	8.6	7.9	6.6	5.6	4.7	5.3	6.2	10	34	9.4	5.9	4.9
8	8.6	7.9	6.6	5.8	4.8	5.2	6.4	9.7	35	9.1	5.7	4.9
9	8.5	7.7	6.6	6.0	5.1	5.3	7.0	10	36	9.1	5.6	5.0
10	8.6	7.5	6.4	6.0	5.0	5.5	8.1	10.5	34	9.2	5.5	5.0
11	8.5	7.5	6.3	6.0	5.0	5.6	8.4	11	30	9.0	5.1	5.0
12	8.4	7.5	6.3	6.0	5.2	5.5	7.4	12	28	8.7	5.2	5.2
13	8.2	7.5	6.3	6.2	5.3	5.5	7.4	13	27	8.3	5.2	5.2
14	8.2	7.4	6.3	6.2	5.5	5.5	7.6	14	25	7.9	5.2	5.2
15	8.2	7.2	6.3	6.2	5.4	5.4	7.5	15	23	7.8	5.2	5.4
16	8.2	7.2	6.4	6.3	5.2	5.3	7.7	16	22	7.7	5.2	5.6
17	8.2	7.2	6.4	6.2	5.3	5.4	8.0	15	20	7.5	5.2	5.6
18	8.1	7.1	6.3	6.1	5.5	5.2	7.8	14.5	19	7.4	4.8	5.4
19	8.5	7.2	6.1	6.3	5.5	5.3	7.9	14.0	18	7.2	4.6	5.0
20	8.2	7.4	6.0	6.1	5.4	5.5	7.7	13.7	17	7.0	4.8	5.0
21	8.4	7.2	5.7	6.3	5.2	5.6	7.8	14.0	16	6.8	4.9	4.9
22	8.4	7.2	5.9	6.3	5.3	5.7	7.7	14.5	16	6.7	5.1	4.9
23	8.2	7.3	6.0	6.3	5.2	6.1	7.6	13.5	15	6.7	5.1	5.0
24	8.2	7.4	6.0	6.2	5.2	5.8	8.2	13.0	14	6.6	5.2	5.0
25	8.2	7.0	6.0	6.0	5.3	5.7	8.7	16.0	14	6.6	5.0	5.0
26	8.0	6.8	6.0	5.8	5.5	5.7	8.8	17.0	13	6.6	4.8	5.0
27	8.2	6.8	6.0	5.7	5.3	5.7	8.6	20.5	13	6.7	4.6	5.0
28	8.2	6.7	6.0	6.0	5.6	5.7	8.6	23.0	13	6.7	4.4	5.0
29	8.3	6.6	6.0	5.9	5.6	5.7	8.8	25.0	12	6.9	4.4	5.0
30	8.2	6.6	6.0	5.7	---	5.7	8.8	28.0	12	7.5	4.4	5.0
31	8.2	---	6.0	5.3	---	5.5	---	27.5	---	6.9	4.7	---
TOTAL	262.0	221.2	194.0	185.1	149.4	171.1	224.2	445.9	688.5	251.6	163.4	150.4
MEAN	8.45	7.37	6.26	5.97	5.15	5.52	7.47	14.4	22.9	8.12	5.27	5.01
MAX	9.6	7.9	6.7	6.3	5.6	6.1	8.8	28	36	11	6.7	5.6
MIN	8.0	6.6	5.7	5.3	4.4	5.2	5.8	8.8	12	6.6	4.4	4.6
AC-FT	520	439	385	367	296	339	445	884	1370	499	324	298

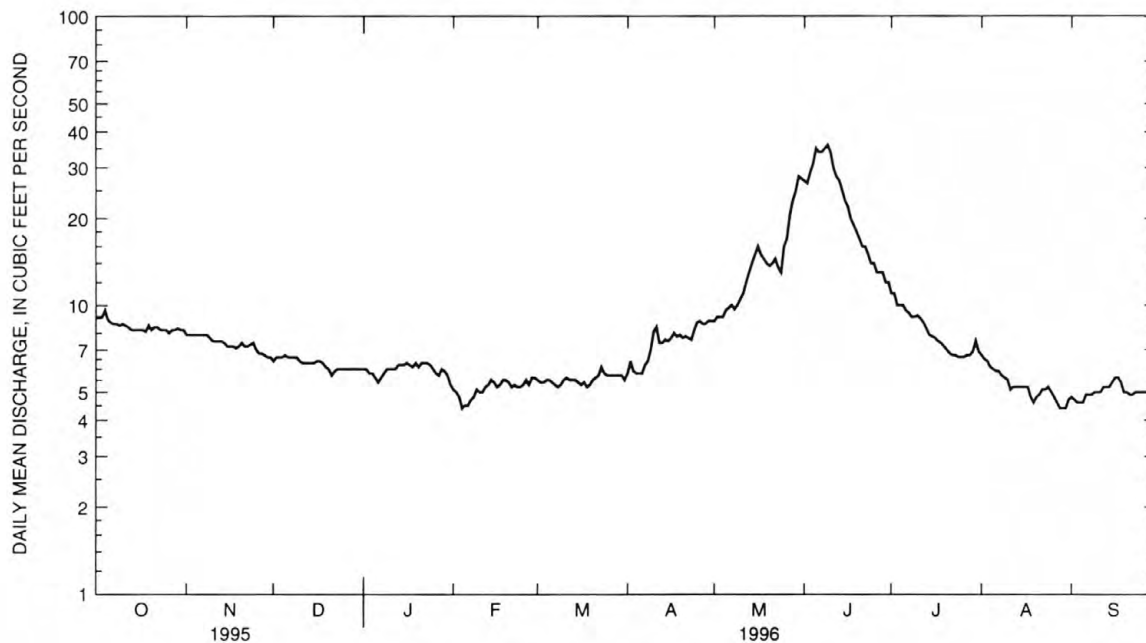
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	5.79	5.28	4.79	4.57	4.38	4.54	5.55
MAX	8.45	7.37	6.26	5.97	5.15	5.52	7.47
(WY)	1996	1996	1996	1996	1996	1996	1996
MIN	3.77	4.12	3.78	3.71	3.44	3.78	4.05
(WY)	1991	1991	1995	1991	1991	1991	1992

06229900 TROUT CREEK NEAR FORT WASHAKIE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	6601.0	3106.8	--
ANNUAL MEAN	18.1	8.49	10.4
HIGHEST ANNUAL MEAN	--	--	17.3
LOWEST ANNUAL MEAN	--	--	5.95
HIGHEST DAILY MEAN	213 Jun 15, 16	36 Jun 9	316 Jun 2 1991
LOWEST DAILY MEAN	3.5 Jan 31	4.4 Feb 4, Aug 28-30	3.0 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	3.6 Jan 25	4.6 Aug 27	3.3 Feb 14 1991
INSTANTANEOUS PEAK FLOW	--	39 Jun 8, 9	500 ^a Jun 2 1991#
INSTANTANEOUS PEAK STAGE	--	4.99 Jun 8, 9	7.49 Jun 2 1991
ANNUAL RUNOFF (AC-FT)	13090	6160	7550
10 PERCENT EXCEEDS	52	14	17
50 PERCENT EXCEEDS	7.5	6.6	5.5
90 PERCENT EXCEEDS	3.8	5.0	3.8

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

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

06229900 TROUT CREEK NEAR FORT WASHAKIE, WY

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. 24 to Apr. 10. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

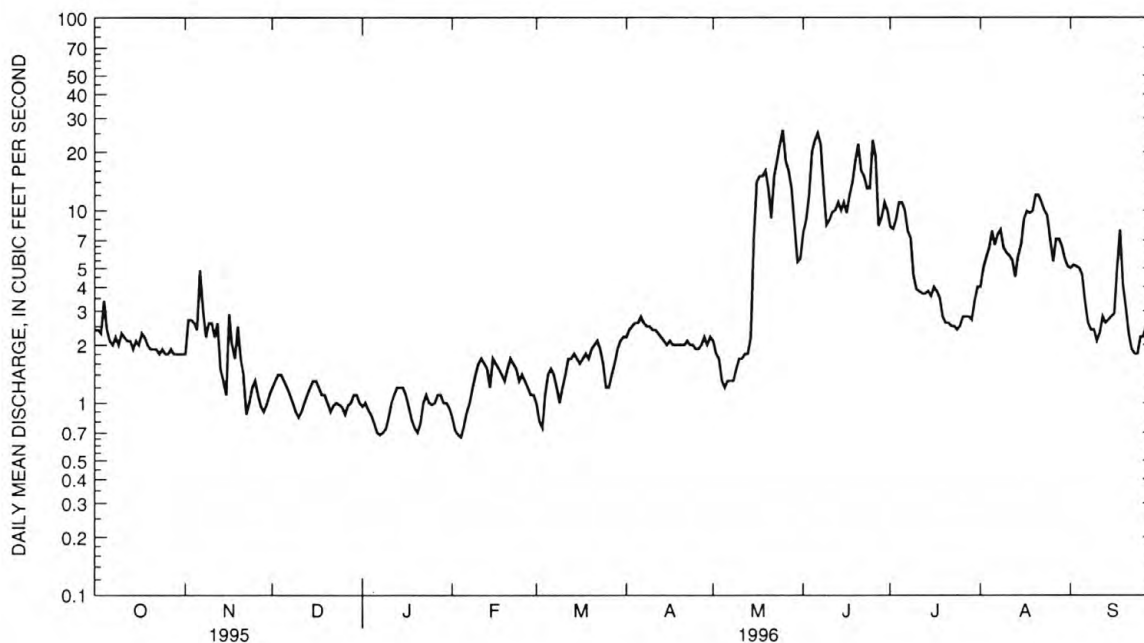
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.8	1.2	.96	.84	.99	2.2	2.1	7.7	8.2	4.0	5.0
2	2.4	2.7	1.3	1.0	.72	.80	2.4	1.8	8.9	8.0	5.0	5.2
3	2.3	2.7	1.4	.92	.68	.74	2.5	1.7	12	9.0	5.7	5.1
4	3.4	2.6	1.4	.86	.66	1.1	2.6	1.3	20	11	6.4	5.0
5	2.4	2.4	1.3	.78	.76	1.4	2.6	1.2	23	11	7.8	4.6
6	2.1	4.9	1.2	.70	.90	1.5	2.8	1.3	25	10	6.6	3.3
7	2.0	3.0	1.1	.68	1.0	1.4	2.6	1.3	22	7.8	7.5	2.6
8	2.2	2.2	1.0	.70	1.2	1.2	2.5	1.3	13	7.2	7.9	2.4
9	2.0	2.6	.90	.73	1.4	1.0	2.5	1.5	8.4	4.6	6.4	2.4
10	2.3	2.6	.84	.84	1.6	1.2	2.4	1.7	8.9	3.9	6.0	2.1
11	2.2	2.2	.90	1.0	1.7	1.4	2.4	1.7	9.8	3.8	5.8	2.3
12	2.1	2.6	1.0	1.1	1.6	1.7	2.3	1.8	10	3.7	5.5	2.8
13	2.1	1.5	1.1	1.2	1.5	1.7	2.2	1.8	11	3.7	4.5	2.6
14	1.9	1.3	1.2	1.2	1.2	1.8	2.1	2.2	10	3.8	5.8	2.7
15	2.1	1.1	1.3	1.2	1.7	1.7	2.0	7.3	11	3.6	6.6	2.8
16	2.0	2.9	1.3	1.1	1.6	1.6	2.1	14	9.7	4.0	9.0	2.9
17	2.3	2.0	1.2	.96	1.5	1.7	2.0	15	12	3.8	9.9	5.0
18	2.2	1.7	1.1	.82	1.4	1.8	2.0	15	14	3.5	9.7	7.9
19	2.0	2.5	1.1	.74	1.3	1.7	2.0	16	18	2.8	9.9	4.1
20	1.9	1.7	1.0	.70	1.5	1.9	2.0	13	22	2.6	12	3.1
21	1.9	1.4	.90	.78	1.7	2.0	2.0	9.1	16	2.6	12	2.3
22	1.9	.87	.97	1.0	1.6	2.1	2.1	15	15	2.5	11	1.9
23	1.8	1.0	1.0	1.1	1.5	1.9	2.0	18	13	2.5	10	1.8
24	1.9	1.2	.98	1.0	1.3	1.6	2.0	22	13	2.4	9.4	1.8
25	1.8	1.3	.95	.98	1.4	1.2	1.9	26	23	2.5	7.0	2.2
26	1.8	1.1	.87	1.0	1.3	1.2	1.9	18	19	2.8	5.4	2.2
27	1.9	.96	.97	1.1	1.2	1.4	2.0	16	8.3	2.8	7.1	2.5
28	1.8	.90	1.0	1.1	1.1	1.6	2.2	13	9.2	2.8	7.1	2.1
29	1.8	.98	1.1	1.0	1.1	1.9	2.0	8.3	11	2.7	6.5	1.8
30	1.8	1.1	1.1	1.0	---	2.1	2.2	5.4	10	3.4	5.6	1.6
31	1.8	---	1.0	.94	---	2.2	---	5.6	---	4.0	5.1	---
TOTAL	64.5	57.81	33.68	29.19	36.96	47.53	66.5	259.4	413.9	147.0	228.2	94.1
MEAN	2.08	1.93	1.09	.94	1.27	1.53	2.22	8.37	13.8	4.74	7.36	3.14
MAX	3.4	4.9	1.4	1.2	1.7	2.2	2.8	26	25	11	12	7.9
MIN	1.8	.87	.84	.68	.66	.74	1.9	1.2	7.7	2.4	4.0	1.6
AC-FT	128	115	67	58	73	94	132	515	821	292	453	187

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	1.75	1.37	.92	.86	1.06	1.93	7.11
MAX	2.30	1.93	1.09	1.06	1.39	3.72	15.0
(WY)	1995	1996	1996	1994	1992	1991	1991
MIN	1.22	.97	.46	.34	.73	1.43	4.03
(WY)	1992	1994	1991	1991	1993	1995	1992

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	2773.65		1478.77		--	
ANNUAL MEAN	7.60		4.04		4.84	
HIGHEST ANNUAL MEAN	--		--		7.55	
LOWEST ANNUAL MEAN	--		--		3.14	
HIGHEST DAILY MEAN	167	Jun 16	26	May 25	328	Jun 3 1991
LOWEST DAILY MEAN	.54	Jan 24	.66	Feb 4	.21	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.65	Jan 21	.76	Jan 4	.24	Dec 18 1990
INSTANTANEOUS PEAK FLOW	--		28		426	
INSTANTANEOUS PEAK STAGE	--		2.05		4.20	
ANNUAL RUNOFF (AC-FT)	5500		2930		3500	
10 PERCENT EXCEEDS	18		10		11	
50 PERCENT EXCEEDS	2.0		2.1		1.7	
90 PERCENT EXCEEDS	.96		.98		.86	



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

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 1995 TO SEPTEMBER 1996

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- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
DEC 14...	1045	14	1060	8.3	0.5	6.0	630	11.8	100	85	3.3
APR 30...	1405	16	790	8.4	12.0	6.0	628	9.7	110	87	3.8
MAY 22...	0945	57	463	8.1	6.0	15.0	625	10.2	100	95	15
JUN 06...	1625	90	400	8.3	15.0	21.0	638	8.6	102	138	34

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 1995 TO SEPTEMBER 1996

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)
DEC 14...	1310	116	500	8.6	1.0	7.0	633
MAR 14...	1130	82	610	8.4	4.0	10.0	635
JUN 07...	1145	1410	115	8.3	9.5	17.5	639
SEP 11...	1335	98	710	8.5	16.0	20.0	637

DATE	TIME	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	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)
DEC 14...	13.2	112	K4	<0.01	0.19	<0.02	0.02
MAR 14...	12.6	116	K2	0.01	0.30	0.17	0.04
JUN 07...	10.0	105	200	<0.01	0.07	0.04	0.02
SEP 11...	10.6	129	85	0.02	0.10	0.06	0.06

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

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.--No estimated daily discharges. Records good. Diversions for irrigation of about 540 acres upstream from station. Slight regulation by Christina Lake, capacity, about 3,860 acre-ft. Result of discharge measurement, in cubic feet per second, made during period when station was not in operation, is given below:

Oct. 06 . . . 47.4

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by U.S. 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)
May 17	0100	452	4.01
June 11	0500	*638	*4.42

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	38	56	227	180	63	55
2	---	---	---	---	---	---	56	62	233	177	58	51
3	---	---	---	---	---	---	43	60	264	176	55	50
4	---	---	---	---	---	---	37	61	323	168	51	48
5	---	---	---	---	---	---	35	62	430	210	48	46
6	---	---	---	---	---	---	38	68	455	193	43	46
7	---	---	---	---	---	---	45	81	448	157	38	48
8	---	---	---	---	---	---	53	94	491	133	36	48
9	---	---	---	---	---	---	60	97	590	123	35	48
10	---	---	---	---	---	---	70	99	575	119	35	46
11	---	---	---	---	---	---	70	108	584	116	32	46
12	---	---	---	---	---	---	60	133	554	111	31	48
13	---	---	---	---	---	---	57	160	525	104	30	48
14	---	---	---	---	---	---	51	212	508	99	30	48
15	---	---	---	---	---	---	51	280	498	97	34	48
16	---	---	---	---	---	---	55	395	452	101	40	48
17	---	---	---	---	---	---	60	410	436	99	38	48
18	---	---	---	---	---	---	54	381	412	92	35	52
19	---	---	---	---	---	---	53	303	352	87	35	53
20	---	---	---	---	---	---	52	255	305	80	34	51
21	---	---	---	---	---	---	52	227	299	77	31	51
22	---	---	---	---	---	---	48	217	363	68	30	51
23	---	---	---	---	---	---	50	230	301	65	29	50
24	---	---	---	---	---	---	53	230	261	63	27	48
25	---	---	---	---	---	---	60	220	257	61	27	48
26	---	---	---	---	---	---	58	210	247	63	25	51
27	---	---	---	---	---	---	62	213	249	60	25	50
28	---	---	---	---	---	---	56	217	265	58	26	57
29	---	---	---	---	---	---	53	210	233	61	25	58
30	---	---	---	---	---	---	53	240	197	75	35	53
31	---	---	---	---	---	---	---	237	---	70	53	---
TOTAL	---	---	---	---	---	---	1583	5828	11334	3343	1134	1493
MEAN	---	---	---	---	---	---	52.8	188	378	108	36.6	49.8
MAX	---	---	---	---	---	---	70	410	590	210	63	58
MIN	---	---	---	---	---	---	35	56	197	58	25	46
AC-FT	---	---	---	---	---	---	3140	11560	22480	6630	2250	2960

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

YELLOWSTONE RIVER BASIN

06233000 LITTLE POPO AGIE RIVER NEAR LANDER, WY--Continued

SUMMARY STATISTICS

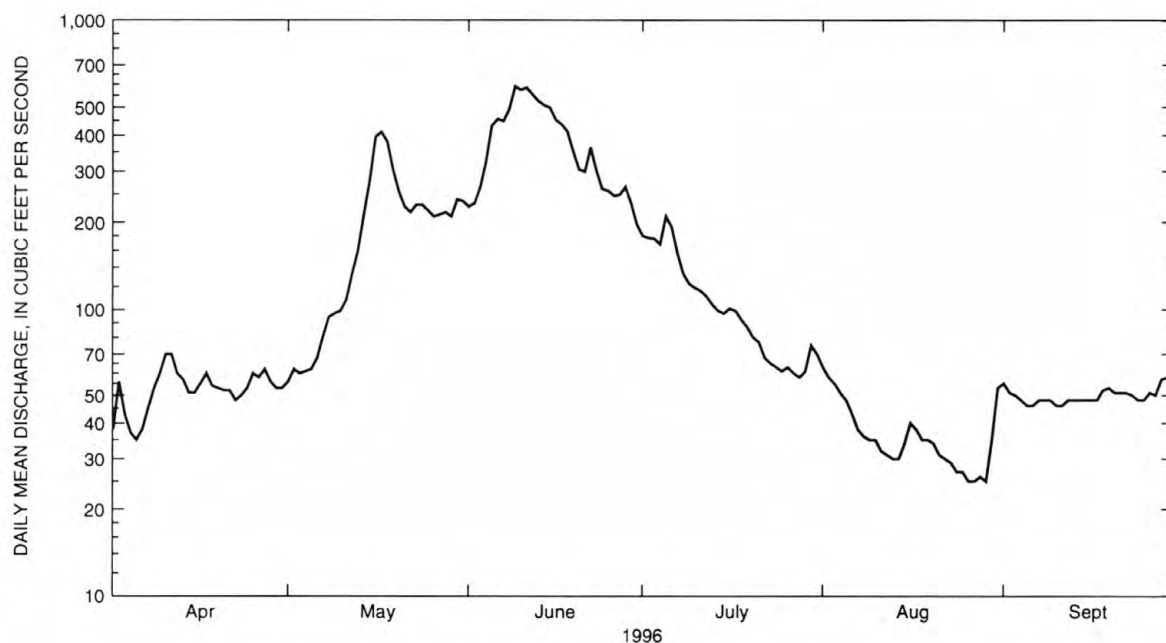
FOR 1996 WATER YEAR*

WATER YEARS 1946 - 1971

ANNUAL MEAN	--		80.4	
HIGHEST ANNUAL MEAN	--		131	1965
LOWEST ANNUAL MEAN	--		37.0	1960
HIGHEST DAILY MEAN	590	Jun 9	1590	Jun 16 1963
LOWEST DAILY MEAN	25	Aug 26, 27, 29	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	638	Jun 11	2010	Jun 16 1963#
INSTANTANEOUS PEAK STAGE	4.42	Jun 11	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 1996.



06233000 LITTLE POPO AGIE RIVER NEAR LANDER, WY

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.

WATER-DISCHARGE RECORDS

REVISID RECORDS.--WSP 1729: Drainage area.

REMARKS.--Estimated daily discharges: Dec. 5-10 and Dec. 14 to Mar. 16. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 62,900 acres upstream from station. Bureau of Reclamation data collection platform with satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft³/s and maximum (*):

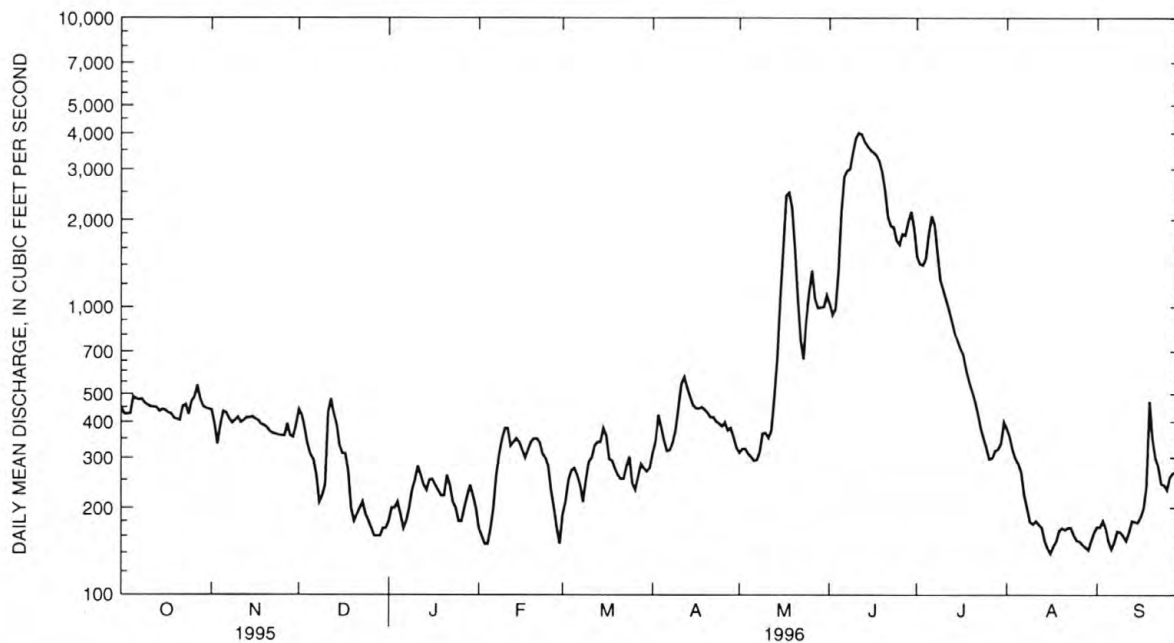
Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 11	1900	*4.230	*6.88

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444	440	442	180	170	190	313	313	1030	1490	379	172
2	426	394	423	200	160	210	342	322	941	1410	354	172
3	426	334	379	200	150	250	423	322	984	1400	319	180
4	428	389	333	210	150	270	383	310	1320	1470	298	170
5	488	435	308	190	170	275	344	303	2130	1790	285	153
6	480	431	295	170	200	260	317	293	2830	2070	266	144
7	477	409	260	180	260	240	319	294	2970	1930	222	152
8	479	396	210	200	310	210	339	314	3010	1540	200	166
9	463	405	220	230	350	250	376	364	3440	1240	179	165
10	457	415	240	250	380	290	453	366	3850	1150	176	160
11	451	398	431	280	380	300	544	352	4010	1060	180	154
12	450	404	480	260	330	330	571	372	3970	971	175	165
13	449	414	425	240	340	340	525	482	3740	887	171	180
14	435	413	390	230	350	340	489	655	3610	805	154	179
15	442	417	330	250	340	380	457	1090	3500	766	145	178
16	439	409	310	251	320	360	446	1610	3430	717	139	186
17	430	404	310	240	300	297	445	2440	3350	682	147	199
18	427	392	270	230	320	293	450	2490	3200	605	153	237
19	412	389	200	220	340	274	441	2200	2930	553	167	471
20	408	382	180	220	350	260	430	1590	2520	513	170	351
21	405	371	190	260	350	252	415	1070	2050	474	168	300
22	452	365	200	240	340	252	415	768	1910	430	171	280
23	459	363	210	210	310	280	401	659	1890	383	171	242
24	424	360	190	200	300	303	395	911	1700	351	161	240
25	471	359	180	180	280	243	386	1130	1650	326	154	231
26	487	358	170	180	230	231	398	1340	1790	297	153	256
27	535	394	160	200	200	256	374	1070	1770	299	149	264
28	479	358	160	220	170	285	381	994	1990	317	146	267
29	452	354	160	240	150	275	354	998	2140	321	143	273
30	446	390	170	220	---	268	324	1000	1860	336	154	265
31	443	---	170	200	---	275	---	1100	---	399	165	---
TOTAL	13964	11742	8396	6781	8000	8539	12250	27522	75515	26982	6014	6552
MEAN	450	391	271	219	276	275	408	888	2517	870	194	218
MAX	535	440	480	280	380	380	571	2490	4010	2070	379	471
MIN	405	334	160	170	150	190	313	293	941	297	139	144
AC-FT	27700	23290	16650	13450	15870	16940	24300	54590	149800	53520	11930	13000

MEAN	323	281	212	186	211	265	366	1105	2405	1005	264	260
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

06235500 LITTLE WIND RIVER NEAR RIVERTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	364242		212257		--	
ANNUAL MEAN	998		580		575	
HIGHEST ANNUAL MEAN	--		--		1021	1983
LOWEST ANNUAL MEAN	--		--		236	1960
HIGHEST DAILY MEAN	8630	Jun 17	4010	Jun 11	12800	Jun 17 1963
LOWEST DAILY MEAN	140	Jan 24	139	Aug 16	41	Aug 7 1960
ANNUAL SEVEN-DAY MINIMUM	157	Jan 21	151	Aug 24	46	Aug 5 1960
INSTANTANEOUS PEAK FLOW	--		4230	Jun 11	14700	Jun 17 1963
INSTANTANEOUS PEAK STAGE	--		6.88	Jun 11	10.85	Jun 17 1963
ANNUAL RUNOFF (AC-FT)	722500		421000		416300	
10 PERCENT EXCEEDS	3760		1480		1440	
50 PERCENT EXCEEDS	345		340		264	
90 PERCENT EXCEEDS	200		170		146	



06235500 LITTLE WIND RIVER NEAR RIVERTON, WY

YELLOWSTONE RIVER BASIN

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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 1995 TO SEPTEMBER 1996

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 CENT OF (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
DEC										
14...	1500	440	748	8.5	0.0	6.0	640	12.6	103	K6
MAR										
14...	1315	340	809	8.3	0.0	11.5	640	12.4	101	K9
JUN										
11...	1050	4000	161	8.0	14.0	25.5	640	8.0	93	400
SEP										
12...	1030	162	954	8.4	18.0	19.0	641	7.7	97	94

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

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 Boyesen 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: Dec. 6, 7, and Dec. 21 to Mar. 19. 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. Wind River Indian Reservation data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

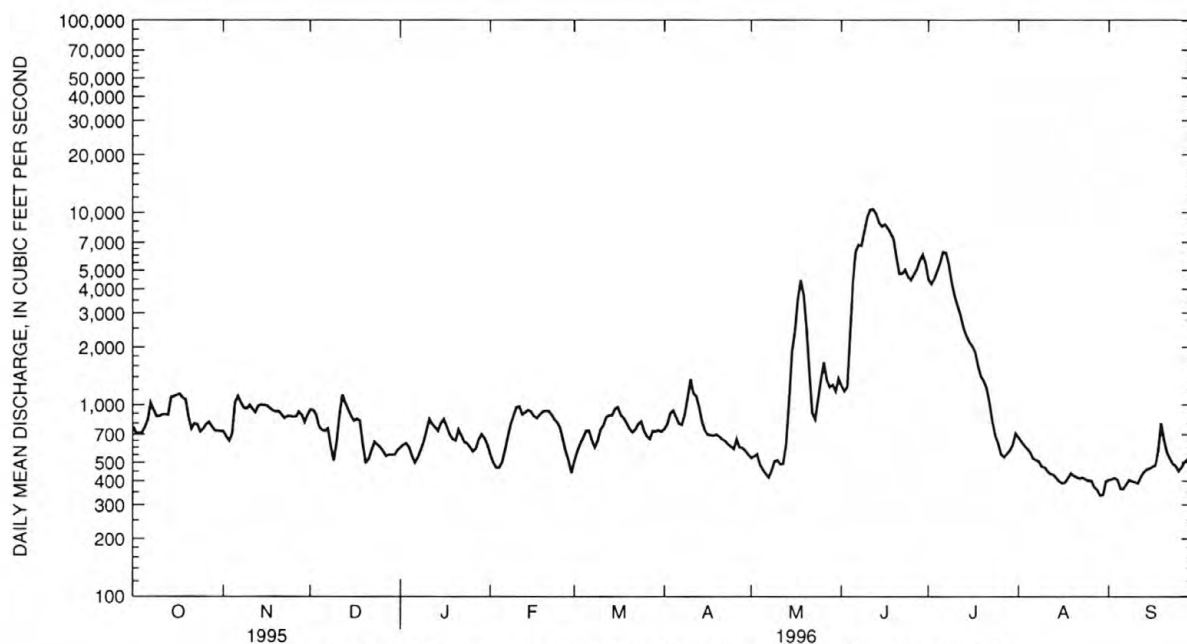
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	764	725	942	600	550	510	747	528	1260	4480	676	404
2	713	681	940	620	500	570	792	538	1180	4260	643	408
3	712	648	890	630	470	630	901	551	1240	4520	613	414
4	713	704	770	600	470	675	931	486	2340	4960	589	405
5	761	1030	736	540	500	730	861	459	4380	5440	565	365
6	831	1110	730	500	580	730	796	436	6290	6240	524	363
7	1020	1020	750	530	680	650	785	418	6800	6180	515	383
8	942	962	603	579	790	600	890	453	6730	5360	506	405
9	868	957	511	640	880	650	1090	506	8020	4340	475	398
10	872	996	642	730	970	740	1360	514	9460	3690	471	394
11	889	949	883	840	980	780	1150	490	10300	3270	448	389
12	894	912	1130	790	890	860	1110	492	10400	2910	435	420
13	886	984	1020	760	910	880	965	619	9800	2510	431	445
14	1100	1000	942	730	940	880	812	1020	8830	2280	413	459
15	1110	996	874	800	920	950	733	1910	8480	2130	397	465
16	1130	990	823	840	870	970	696	2420	8660	2030	389	475
17	1140	961	844	770	850	880	693	3570	8290	1890	393	482
18	1090	935	828	700	890	850	691	4450	7810	1600	413	569
19	1070	922	625	660	920	800	696	3760	7280	1410	438	802
20	864	927	501	650	930	746	683	2500	5860	1330	426	656
21	748	893	520	740	930	718	661	1470	4820	1220	418	566
22	797	852	580	690	890	742	647	901	4820	1020	411	526
23	789	871	640	640	840	793	622	838	5030	815	416	491
24	722	872	620	630	810	817	606	1070	4640	689	407	480
25	747	865	600	600	760	728	587	1360	4460	626	401	450
26	788	865	570	570	660	684	660	1670	4750	549	400	470
27	813	918	540	590	570	663	597	1350	5050	533	371	501
28	770	888	550	660	510	727	596	1240	5620	553	359	515
29	732	811	550	700	440	725	574	1270	6020	575	336	542
30	728	883	550	670	---	733	548	1180	5440	615	338	522
31	728	---	580	620	---	722	---	1370	---	706	398	---
TOTAL	26731	27127	22284	20619	21900	23133	23480	39839	184060	78731	14015	14164
MEAN	862	904	719	665	755	746	783	1285	6135	2540	452	472
MAX	1140	1110	1130	840	980	970	1360	4450	10400	6240	676	802
MIN	712	648	501	500	440	510	548	418	1180	533	336	363
AC-FT	53020	53810	44200	40900	43440	45880	46570	79020	365100	156200	27800	28090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	634	731	528	531	550	669	588	1587	4684	2037	549	523
MAX	862	904	719	665	755	806	783	3445	9354	6650	832	681
(WY)	1996	1996	1996	1996	1996	1994	1996	1991	1991	1995	1993	1991
MIN	393	631	442	356	361	557	398	513	598	195	264	312
(WY)	1993	1993	1994	1993	1994	1991	1992	1990	1994	1994	1994	1994

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	708605		496083		--	
ANNUAL MEAN	1941		1355		1199	
HIGHEST ANNUAL MEAN	--		--		1887	1995
LOWEST ANNUAL MEAN	--		--		551	1994
HIGHEST DAILY MEAN	16500	Jun 17	10400	Jun 12	17900	Jun 14 1991
LOWEST DAILY MEAN	390	Jan 24	336	Aug 29	152	Jul 21 1994
ANNUAL SEVEN-DAY MINIMUM	419	Jan 20	372	Aug 25	156	Jul 20 1994
INSTANTANEOUS PEAK FLOW	--		10900	Jun 12	18700	Jun 14 1991
INSTANTANEOUS PEAK STAGE	--		7.30	Jun 12	9.31	Jun 14 1991
ANNUAL RUNOFF (AC-FT)	1406000		984000		868300	
10 PERCENT EXCEEDS	7360		3910		2230	
50 PERCENT EXCEEDS	720		747		610	
90 PERCENT EXCEEDS	492		447		365	



06236100 WIND RIVER ABOVE BOYSEN RESERVOIR, NEAR SHOSHONI, WY

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, May to August 1996.

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, 19 mg/L, Aug. 6, 17, 1996.

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, 1,450 mg/L, June 12; minimum daily mean during period of operation, 19 mg/L, Aug. 6, 17.

SEDIMENT LOADS: Maximum daily during period of operation, 40,700 tons, June 12; minimum daily during period of operation, 20 tons, Aug. 17.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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	---	---	---	---	93	316	323	3910	23	42	---	---
2	---	---	---	---	76	242	320	3680	24	42	---	---
3	---	---	---	---	92	308	310	3780	32	53	---	---
4	---	---	---	---	288	2010	259	3470	22	35	---	---
5	---	---	---	---	741	8760	266	3910	26	40	---	---
6	---	---	---	---	972	16500	318	5360	19	27	---	---
7	---	---	---	---	1070	19600	320	5340	22	31	---	---
8	---	---	51	62	1060	19300	274	3970	42	57	---	---
9	---	---	22	30	1220	26400	222	2600	31	40	---	---
10	---	---	29	40	1440	36800	157	1560	30	38	---	---
11	---	---	28	37	1440	40000	135	1190	27	33	---	---
12	---	---	32	43	1450	40700	125	982	23	27	---	---
13	---	---	48	80	1310	34700	152	1030	28	33	---	---
14	---	---	92	253	875	20900	187	1150	29	32	---	---
15	---	---	284	1460	690	15800	161	926	33	35	---	---
16	---	---	345	2250	680	15900	100	548	23	24	---	---
17	---	---	537	5180	634	14200	87	444	19	20	---	---
18	---	---	556	6680	595	12500	68	294	21	23	---	---
19	---	---	379	3850	598	11800	52	198	24	28	---	---
20	---	---	233	1570	514	8130	107	384	21	24	---	---
21	---	---	152	603	460	5990	81	267	23	26	---	---
22	---	---	78	190	398	5180	50	138	---	---	---	---
23	---	---	71	161	400	5430	35	77	---	---	---	---
24	---	---	53	153	355	4450	32	60	---	---	---	---
25	---	---	80	294	340	4090	35	59	---	---	---	---
26	---	---	553	2490	426	5460	43	64	---	---	---	---
27	---	---	474	1730	440	6000	28	40	---	---	---	---
28	---	---	280	937	452	6860	24	36	---	---	---	---
29	---	---	122	418	430	6990	24	37	---	---	---	---
30	---	---	111	354	384	5640	21	35	---	---	---	---
31	---	---	130	481	---	---	33	63	---	---	---	---
TOTAL	---	---	---	---	---	400956	---	45602	---	---	---	---

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MEAN	2.71	3.07	1.99	2.00	3.50	5.35	4.48	5.38	5.89	1.77	.91	2.70
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

06244500 FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WY--Continued

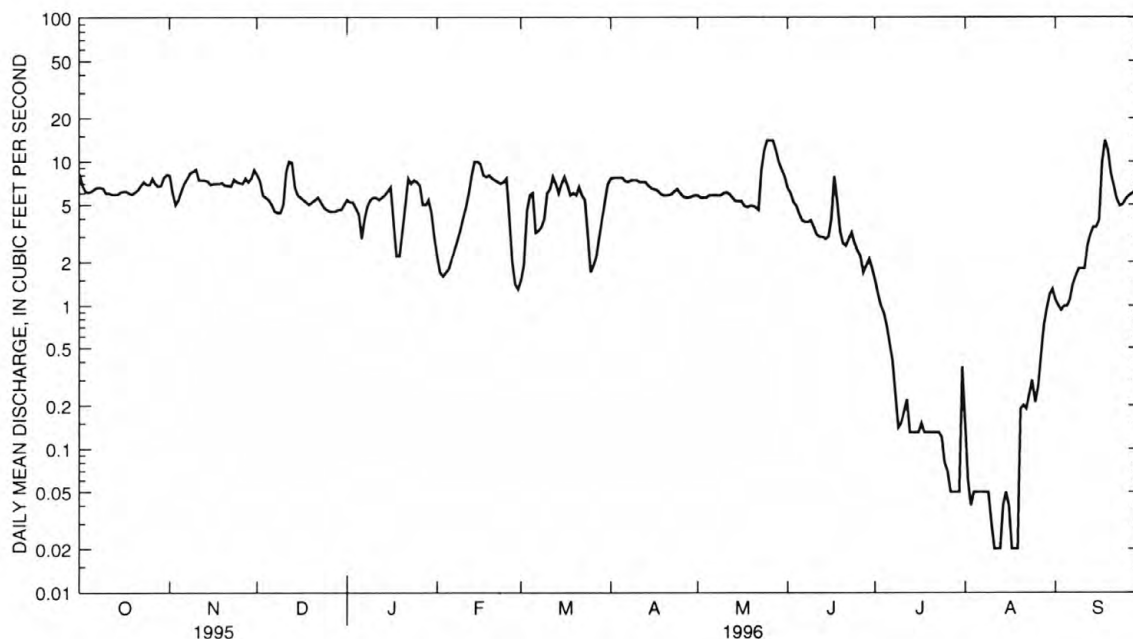
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	2406.17		1730.26		--	
ANNUAL MEAN	6.59		4.73		3.30	
HIGHEST ANNUAL MEAN	--		--		12.4	
LOWEST ANNUAL MEAN	--		--		.25	
HIGHEST DAILY MEAN	19	Sep 20	14	May 25	273	Sep 20 1950
LOWEST DAILY MEAN	.01	Aug 18-23	.02	Aug 11	.00	Several days, most years
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 17	.03	Aug 11-13, 17-19	.00	Several days, most years
INSTANTANEOUS PEAK FLOW	--		16 ^a	Sep 18	1750 ^b	Sep 6 1951
INSTANTANEOUS PEAK STAGE	--		2.21 ^c	Mar 7	5.60 ^d	Sep 6 1951
ANNUAL RUNOFF (AC-FT)	4770		3430		2390	
10 PERCENT EXCEEDS	11		7.7		7.3	
50 PERCENT EXCEEDS	6.8		5.4		1.8	
90 PERCENT EXCEEDS	.75		.15		.00	

a Gage height, 1.95 ft.

b From rating curve extended above 350 ft³/s.

c Backwater from ice.

d From floodmarks.



06244500 FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WY

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LOCATION.--Lat 43°13'20", long 108°13'06", in NW1/4 SW1/4 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.

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

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.

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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	127	93	82	58	50	56	162	326	373	413	390
2	343	121	92	80	52	52	56	162	329	365	419	382
3	336	121	88	80	50	52	54	156	316	359	404	367
4	318	121	91	82	52	54	55	151	313	364	408	382
5	308	121	89	78	56	50	54	157	303	372	452	358
6	298	120	89	70	64	47	54	164	302	355	426	358
7	305	118	84	78	76	48	55	172	295	358	388	351
8	310	118	82	94	84	49	55	181	310	369	397	351
9	313	121	80	100	90	50	54	177	312	384	395	350
10	312	118	80	110	90	52	52	189	329	359	390	349
11	320	111	82	110	64	53	50	188	316	341	413	354
12	317	114	88	100	62	55	49	182	315	336	417	364
13	312	110	93	110	66	56	48	191	351	343	411	367
14	310	110	93	110	70	54	47	207	338	338	418	364
15	306	108	86	110	66	54	46	222	349	340	415	366
16	304	105	81	120	70	55	83	232	365	350	418	359
17	261	103	80	80	74	54	83	222	389	350	417	329
18	197	103	78	64	76	54	69	232	402	360	431	353
19	167	101	74	64	78	54	77	232	401	372	427	375
20	157	99	76	80	74	54	117	236	357	361	412	362
21	157	97	78	110	66	55	124	243	366	368	405	343
22	156	101	80	110	62	56	133	254	386	360	417	351
23	151	99	80	99	58	56	132	308	374	361	412	363
24	149	99	78	90	60	52	115	340	396	362	403	359
25	147	96	76	82	58	56	110	388	392	345	418	352
26	146	97	76	78	54	50	134	425	381	349	434	336
27	141	94	74	78	50	53	140	346	377	350	436	335
28	136	92	74	82	44	54	144	336	368	349	426	349
29	136	93	74	84	45	55	141	333	365	357	405	355
30	136	92	76	70	---	55	164	312	365	381	400	350
31	131	---	80	64	---	56	---	316	---	421	389	---
TOTAL	7421	3230	2545	2749	1869	1645	2551	7416	10488	11152	12816	10724
MEAN	239	108	82.1	88.7	64.4	53.1	85.0	239	350	360	413	357
MAX	343	127	93	120	90	56	164	425	402	421	452	390
MIN	131	92	74	64	44	47	46	151	295	336	388	329
AC-FT	14720	6410	5050	5450	3710	3260	5060	14710	20800	22120	25420	21270

MEAN	138	76.3	56.6	48.6	47.4	52.1	77.8	173	273	328	333	281
MAX	239	120	89.7	88.7	79.5	87.2	178	265	442	524	525	451
(WY)	1996	1970	1956	1996	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

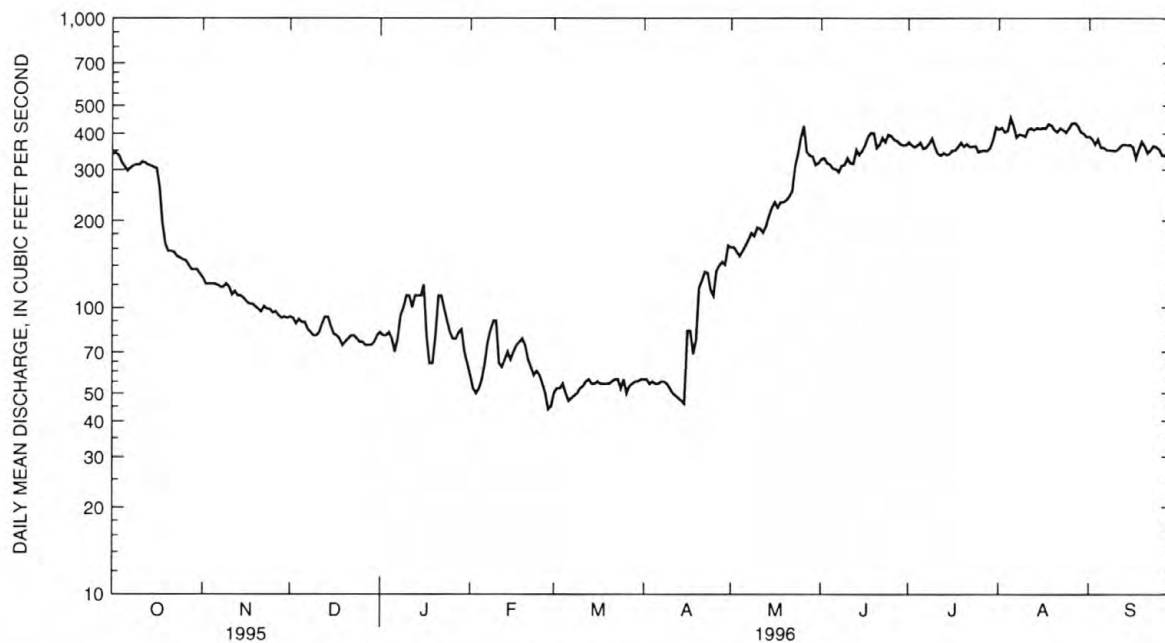
06253000 FIVEMILE CREEK NEAR SHOSHONI, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	64805		74606		--	
ANNUAL MEAN	178		204		159	
HIGHEST ANNUAL MEAN	--		--		229	1983
LOWEST ANNUAL MEAN	--		--		54.8	1942
HIGHEST DAILY MEAN	425	Jun 9	452	Aug 5	964	Sep 11 1973
LOWEST DAILY MEAN	43	Jan 24, Feb 15	44	Feb 28	1.0	Jan 4 1942
ANNUAL SEVEN-DAY MINIMUM	46	Jan 19	49	Apr 9	1.4	Jan 1 1942
INSTANTANEOUS PEAK FLOW	--		481 ^a	Aug 8	3390 ^b	Jun 15 1962
INSTANTANEOUS PEAK STAGE	--		5.38 ^c	Mar 5	9.61 ^c	Dec 27 1954
ANNUAL RUNOFF (AC-FT)	128500		148000		115200	
10 PERCENT EXCEEDS	351		389		356	
50 PERCENT EXCEEDS	131		140		99	
90 PERCENT EXCEEDS	50		54		39	

a Gage height, 3.88 ft.

b Gage height, 7.85 ft.

c Backwater from ice.



06253000 FIVEMILE CREEK NEAR SHOSHONI, WY

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.

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

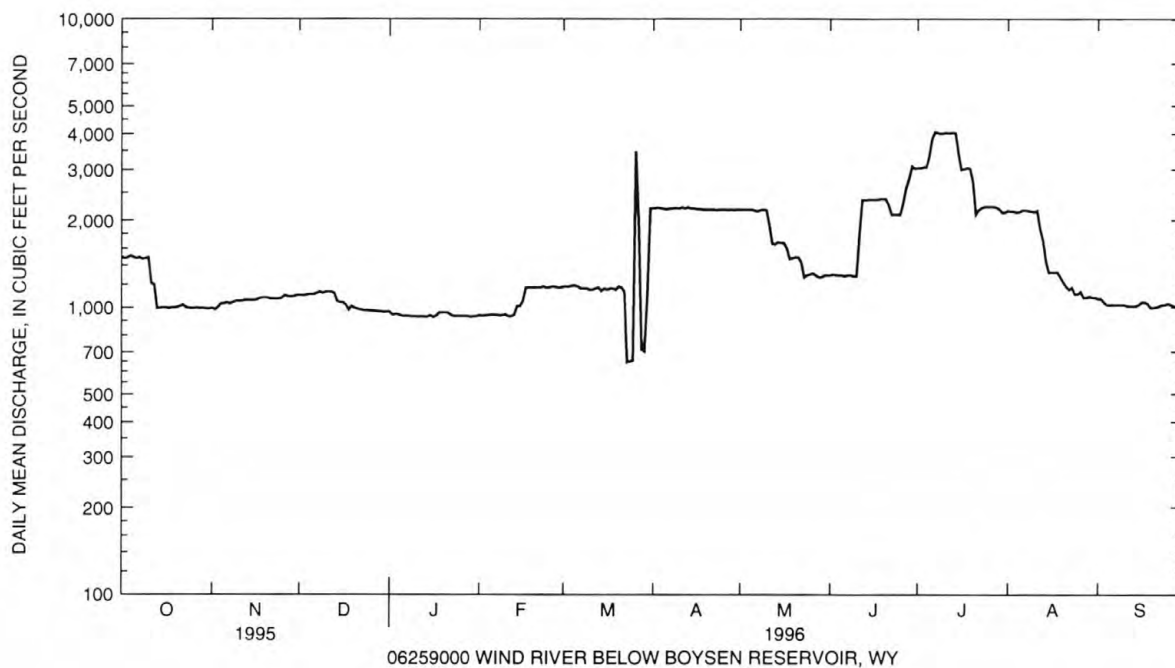
REMARKS.--Estimated daily discharges: Jan. 17, 18, 28-30, and Sept. 22, 23. Records good. Flow regulated by Boysen Reservoir (station 06258900) since October 1951. Natural flow also affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation of about 196,000 acres upstream from station. Bureau of Reclamation data collection platform with satellite telemetry at station.

MEAN	1198	1193	1183	1111	1070	1112	1237	1431	2266	2488	1479	1279
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

YELLOWSTONE RIVER BASIN

06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	740545		549452		--	
ANNUAL MEAN	2029		1501		1409	
HIGHEST ANNUAL MEAN	--		--		2349	1983
LOWEST ANNUAL MEAN	--		--		612	1961
HIGHEST DAILY MEAN	9420	Jul 16	4050	Jul 7	13200	Jul 7 1967
LOWEST DAILY MEAN	458	Apr 1	645	Mar 23	4.7	Apr 3 1962
ANNUAL SEVEN-DAY MINIMUM	463	Mar 26	929	Jan 8	106	Oct 12 1951
INSTANTANEOUS PEAK FLOW	--		5060	Mar 26	13500	Jul 7 1967
INSTANTANEOUS PEAK STAGE	--		8.57	Mar 26	13.35	Jul 7 1967
ANNUAL RUNOFF (AC-FT)	1469000		1090000		1021000	
10 PERCENT EXCEEDS	5980		2240		2130	
50 PERCENT EXCEEDS	1070		1160		1170	
90 PERCENT EXCEEDS	475		941		645	



YELLOWSTONE RIVER BASIN

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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.--Estimated daily discharges: Apr. 1-11. Records good except those for estimated daily discharges, which are poor. Flow regulated by Anchor Dam. 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:

Nov. 6 . . . 3.82

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.0	5.9	42	121	29	8.0
2	---	---	---	---	---	---	6.0	5.5	44	119	26	7.7
3	---	---	---	---	---	---	6.0	5.4	63	119	26	7.2
4	---	---	---	---	---	---	6.0	7.8	82	118	21	6.6
5	---	---	---	---	---	---	6.0	9.9	117	116	19	6.1
6	---	---	---	---	---	---	6.0	9.4	147	112	22	6.6
7	---	---	---	---	---	---	6.0	9.0	167	105	21	6.3
8	---	---	---	---	---	---	6.0	8.8	208	98	17	6.0
9	---	---	---	---	---	---	6.0	8.8	221	95	16	5.4
10	---	---	---	---	---	---	6.0	8.8	233	86	16	5.4
11	---	---	---	---	---	---	6.0	8.8	241	80	15	5.4
12	---	---	---	---	---	---	6.1	8.8	255	83	14	7.1
13	---	---	---	---	---	---	6.4	14	255	85	14	7.8
14	---	---	---	---	---	---	6.4	23	256	82	18	7.0
15	---	---	---	---	---	---	6.7	34	236	82	21	7.2
16	---	---	---	---	---	---	6.9	48	220	88	18	7.4
17	---	---	---	---	---	---	7.3	51	177	93	15	15
18	---	---	---	---	---	---	7.4	51	118	87	14	16
19	---	---	---	---	---	---	7.7	51	125	72	13	14
20	---	---	---	---	---	---	7.8	59	125	57	11	11
21	---	---	---	---	---	---	7.7	77	129	48	11	11
22	---	---	---	---	---	---	7.4	82	128	35	10	13
23	---	---	---	---	---	---	7.4	79	128	35	9.6	14
24	---	---	---	---	---	---	7.2	78	126	34	9.2	11
25	---	---	---	---	---	---	7.0	78	124	33	8.9	10
26	---	---	---	---	---	---	6.9	68	124	32	8.7	10
27	---	---	---	---	---	---	6.6	60	125	31	8.4	7.0
28	---	---	---	---	---	---	6.4	54	126	30	9.7	8.0
29	---	---	---	---	---	---	6.3	46	125	33	12	8.5
30	---	---	---	---	---	---	6.0	43	127	45	10	8.9
31	---	---	---	---	---	---	---	44	---	34	8.9	---
TOTAL	---	---	---	---	---	---	197.6	1136.9	4594	2288	472.4	264.6
MEAN	---	---	---	---	---	---	6.59	36.7	153	73.8	15.2	8.82
MAX	---	---	---	---	---	---	7.8	82	256	121	29	16
MIN	---	---	---	---	---	---	6.0	5.4	42	30	8.4	5.4
AC-FT	---	---	---	---	---	---	392	2260	9110	4540	937	525

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

	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	

06260400 SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

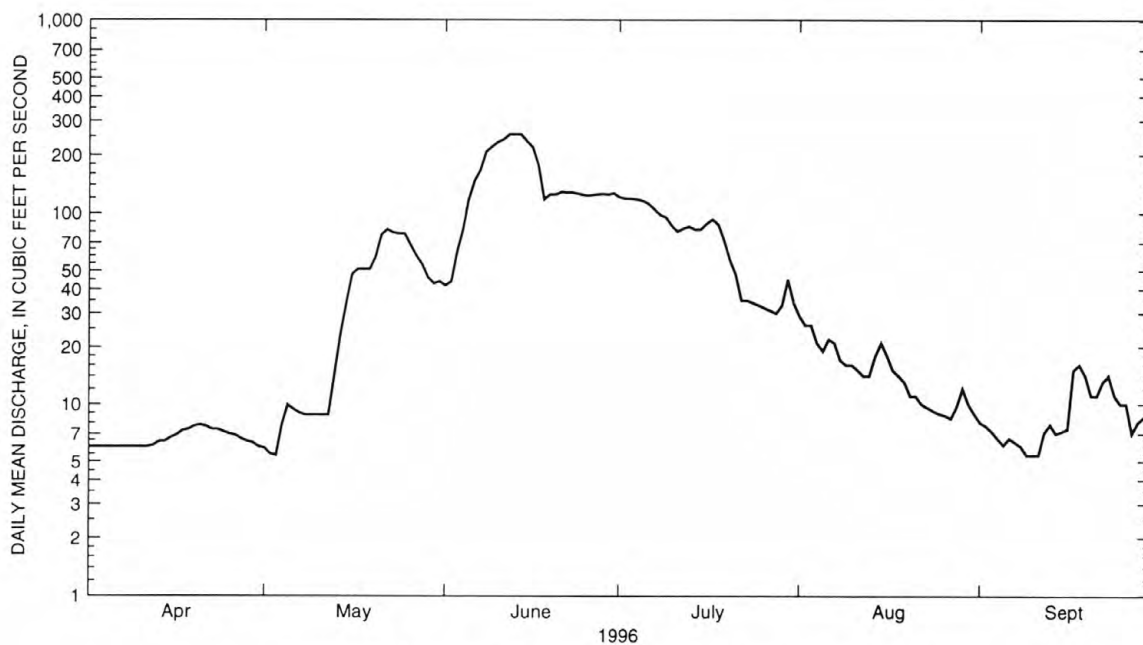
WATER YEARS 1959 - 1988

ANNUAL MEAN	--		22.1	
HIGHEST ANNUAL MEAN	--		35.9	1986
LOWEST ANNUAL MEAN	--		11.3	1985
HIGHEST DAILY MEAN	256	Jun 14	303	Jun 12 1991#
LOWEST DAILY MEAN	5.4	May 3, Sep 9-11	.00	Several days, most years#
ANNUAL SEVEN-DAY MINIMUM	--		.00	Most years#
INSTANTANEOUS PEAK FLOW	261	Jun 13	373 ^a	May 26 1967#
INSTANTANEOUS PEAK STAGE	3.76	Jun 13	4.02	Jun 11 1991#
ANNUAL RUNOFF (AC-FT)	--		16040	
10 PERCENT EXCEEDS	--		76	
50 PERCENT EXCEEDS	--		5.8	
90 PERCENT EXCEEDS	--		.00	

* During period of operation.

For period of record through 1996.

a Gage height, 3.64 ft.



06260400 SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR, WY

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 1995 TO SEPTEMBER 1996

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 30...	1055	1150	612	8.4	7.0	0.5	653
MAR 26...	1130	1800	750	8.6	1.5	-0.5	655
JUN 25...	1205	2010	590	8.5	19.0	24.0	651
SEP 09...	1235	950	543	8.7	21.0	29.0	654

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 30...	9.8	95	200	<0.01	0.06	<0.02	<0.01
MAR 26...	14.4	120	83	<0.01	<0.05	0.04	0.02
JUN 25...	10.1	128	53	0.01	0.11	0.05	0.01
SEP 09...	8.5	112	150	<0.01	0.06	<0.02	<0.01

YELLOWSTONE RIVER BASIN

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 15 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 5,677 ft above sea level, from topographic map. Prior to Sept. 9, 1996, at site 9 ft downstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 1 to Apr 11, Aug. 16-24, and Sept. 17-19. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.0	1.2	.02	.00	3.0	6.0	5.4	28	4.1	.79	.00
2	4.2	2.7	1.4	.00	.00	7.2	6.4	7.2	28	3.5	.41	.00
3	3.6	2.4	.90	.00	.10	7.0	6.0	6.0	31	3.3	.08	.00
4	3.6	2.5	.70	.02	.30	8.0	5.5	6.0	36	3.2	.00	.00
5	4.2	2.8	.50	.00	.70	6.0	5.0	5.5	38	3.0	.00	.00
6	3.2	3.0	.40	.02	1.3	4.5	5.4	6.7	33	2.3	.00	.00
7	3.4	3.3	.30	.04	2.0	5.0	6.0	8.4	26	2.3	1.0	.00
8	4.6	3.6	.23	.06	3.5	4.8	7.0	14	28	2.1	.71	.00
9	4.2	3.8	.20	.07	4.0	7.0	11	14	30	2.2	.28	.00
10	3.8	3.5	.25	.06	4.5	8.0	25	10	28	5.8	.06	.00
11	3.6	3.3	.40	.06	3.5	8.9	12	8.9	25	2.5	.00	.00
12	3.4	4.2	1.0	.08	3.8	8.5	8.9	13	23	2.1	.00	.00
13	3.2	4.0	.84	.12	4.5	8.0	7.3	22	21	1.9	.00	.00
14	2.9	4.0	.78	.20	5.0	7.4	5.1	31	18	1.8	.00	.00
15	3.1	4.6	.70	.16	4.0	8.0	5.6	30	16	1.6	45	.00
16	2.9	4.6	.60	.14	3.6	7.8	7.5	25	22	1.7	44	.00
17	2.9	4.6	.50	.02	4.7	7.5	6.9	29	17	1.7	26	8.2
18	3.0	4.6	.40	.00	6.0	7.0	5.9	24	13	1.4	21	5.4
19	2.6	5.0	.23	.00	5.2	6.8	6.0	17	12	.92	18	4.0
20	2.0	6.0	.08	.00	5.5	8.0	3.9	14	11	.70	15	2.9
21	2.9	5.0	.00	.02	5.4	7.8	5.3	12	9.9	.54	12	2.1
22	3.2	3.0	.00	.06	5.5	7.4	4.9	13	11	.51	8.6	1.9
23	1.2	3.3	.02	.04	4.6	6.0	6.3	25	9.9	.48	5.2	1.8
24	2.2	3.7	.06	.02	5.2	5.0	9.9	20	8.1	.39	.43	1.5
25	4.4	4.0	.08	.00	4.0	4.0	10	19	7.3	.60	.00	1.3
26	4.8	3.0	.10	.00	2.9	4.2	8.5	33	6.6	1.6	.00	1.8
27	3.7	1.5	.08	.02	2.0	4.4	8.5	20	5.9	1.4	.00	.90
28	3.3	.70	.06	.02	1.8	4.7	5.6	24	6.6	1.0	.00	1.4
29	3.7	.80	.04	.00	2.0	5.2	6.2	16	6.3	1.0	.00	1.6
30	4.4	.90	.02	.00	---	5.6	6.1	28	4.7	1.1	.00	1.7
31	3.4	---	.02	.00	---	5.8	---	27	---	1.2	.00	---
TOTAL	106.6	101.40	12.09	1.25	95.60	198.5	223.7	534.1	560.3	57.94	198.56	36.50
MEAN	3.44	3.38	.39	.040	3.30	6.40	7.46	17.2	18.7	1.87	6.41	1.22
MAX	5.0	6.0	1.4	.20	6.0	8.9	25	33	38	5.8	45	8.2
MIN	1.2	.70	.00	.00	.00	3.0	3.9	5.4	4.7	.39	.00	.00
AC-FT	211	201	24	2.5	190	394	444	1060	1110	115	394	72

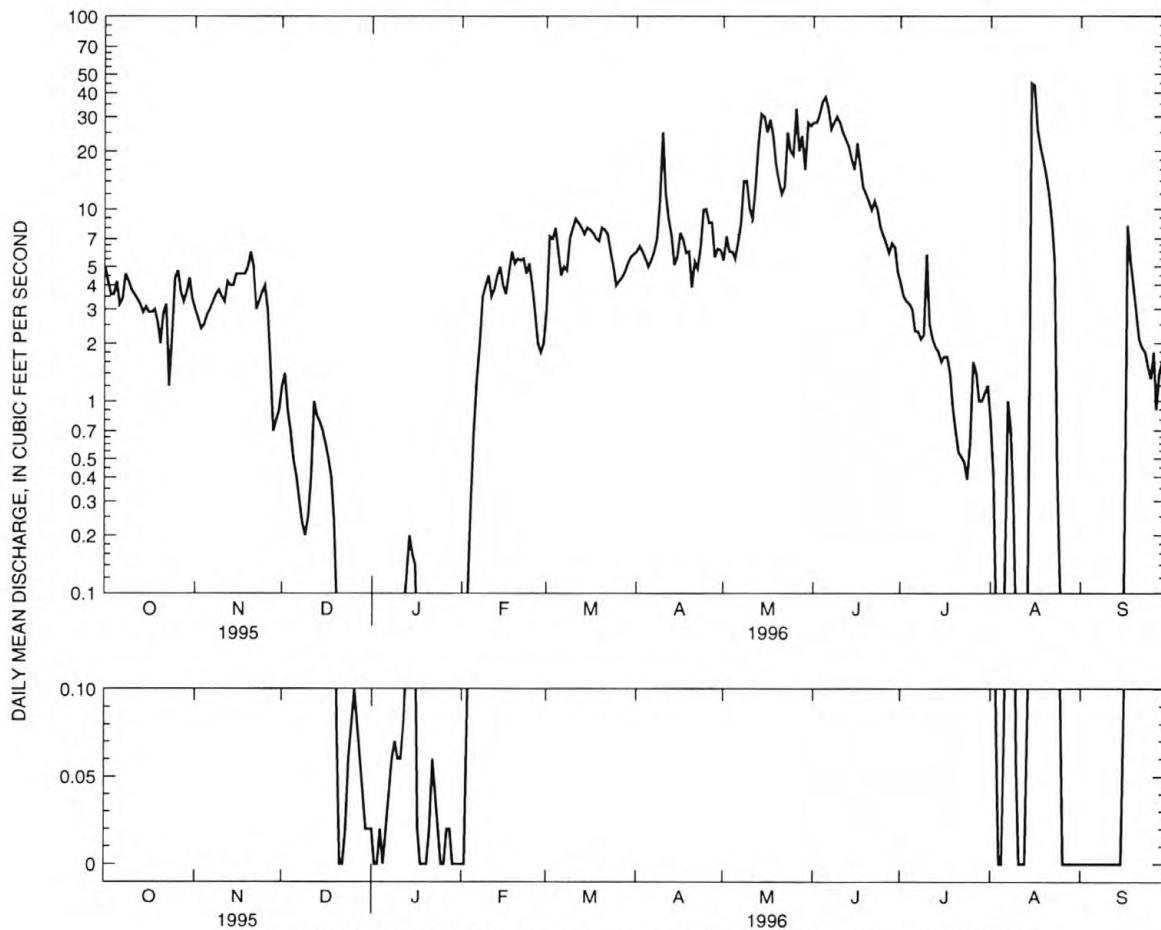
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996
MEAN	5.37	3.56	1.02	.45
MAX	7.07	6.91	2.60	1.30
(WY)	1995	1994	1994	1996
MIN	3.44	.39	.057	.015
(WY)	1996	1995	1995	1995

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1993 - 1996
ANNUAL TOTAL	6160.68	2126.54	--
ANNUAL MEAN	16.9	5.81	9.28
HIGHEST ANNUAL MEAN	--	--	16.9
LOWEST ANNUAL MEAN	--	--	5.12
HIGHEST DAILY MEAN	125	45	160
LOWEST DAILY MEAN	.00	.00	.00
	Jun 6, 15	Aug 15	May 5 1993
	Several days	Several days	Several days,
			most years
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
	Jan 2	Aug 25	Most years
INSTANTANEOUS PEAK FLOW	--	605	605
INSTANTANEOUS PEAK STAGE	--	4.56a	4.56 ^a
		Aug 15	Aug 15 1996
ANNUAL RUNOFF (AC-FT)	12220	4220	6720
10 PERCENT EXCEEDS	65	17	30
50 PERCENT EXCEEDS	4.2	3.4	4.6
90 PERCENT EXCEEDS	.03	.00	.04

a Site and datum then in use.



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

YELLOWSTONE RIVER BASIN

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: Oct. 21 to Mar. 26, Mar. 29, June 11-18, July 15-25, and Aug. 23 to Sept. 4. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2670	1450	1520	1310	940	1100	2820	2410	2560	3610	1620	600
2	2010	1400	1550	1700	990	1400	2840	2360	2200	3450	1580	660
3	1940	1420	1500	1400	1050	1600	2860	2340	2320	3330	1560	660
4	1900	1450	1490	1300	990	1600	2960	2280	2440	3360	1570	640
5	1890	1520	1470	1080	1090	1500	2970	2330	2630	3370	1590	587
6	1870	1600	1410	950	1150	1400	2870	2350	3310	3480	1610	595
7	1860	1670	1400	860	1210	1400	2850	2300	3230	4040	1760	615
8	1890	1600	1310	810	1390	1400	2900	2350	2990	4210	1730	695
9	1920	1610	1020	970	1510	1300	3040	2440	3700	4080	1710	725
10	2100	1630	940	1100	1790	1400	3340	2530	4420	3990	1660	737
11	2090	1570	1200	1400	2010	1600	3330	2530	5000	3920	1640	727
12	1780	1550	1380	1300	2300	2200	3250	2290	5600	3850	1640	768
13	1680	1570	1680	1310	2000	3400	3120	2170	5800	3870	1430	832
14	1550	1610	1600	1320	1900	4300	2960	2150	5200	3840	1030	866
15	1480	1620	1590	1290	1900	3200	2860	2340	6600	4100	950	948
16	1490	1580	1400	1500	2200	2700	2810	2600	6200	3550	613	1010
17	1480	1530	1350	1710	2100	2400	2720	2940	5800	2700	611	1120
18	1480	1500	1330	1400	2100	2200	2720	3720	5400	2800	613	1410
19	1470	1490	1200	1090	2200	2000	2800	3160	4510	2700	590	1390
20	1470	1490	1090	890	2300	1900	2880	2430	3890	2100	541	1310
21	1470	1460	1180	1020	2200	1900	2780	1930	3540	2090	443	1270
22	1480	1460	1300	1300	2200	1900	2740	1690	3550	1890	418	1260
23	1490	1470	1380	1400	2000	1900	2810	1920	3510	1790	430	1260
24	1450	1490	1250	1500	1900	1500	2690	3080	3460	1800	460	1280
25	1440	1510	1210	1300	1800	1200	2740	3080	3090	1800	480	1320
26	1400	1500	1200	1200	1600	1500	2990	4080	3020	1770	460	1400
27	1380	1510	1190	1190	1000	3820	2750	2770	3140	1800	450	1420
28	1390	1550	1160	1100	940	2930	2550	2580	3640	1860	440	1420
29	1450	1520	1150	1140	900	1250	2520	2300	3670	1850	440	1410
30	1510	1510	1000	1230	---	1190	2440	2280	3810	1720	460	1390
31	1460	---	1110	1050	---	1420	---	2500	---	1650	520	---
TOTAL	51940	45840	40560	38120	47660	60510	85910	78230	118230	90370	31049	30325
MEAN	1675	1528	1308	1230	1643	1952	2864	2524	3941	2915	1002	1011
MAX	2670	1670	1680	1710	2300	4300	3340	4080	6600	4210	1760	1420
MIN	1380	1400	940	810	900	1100	2440	1690	2200	1650	418	587
AC-FT	103000	90920	80450	75610	94530	120000	170400	155200	234500	179200	61590	60150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

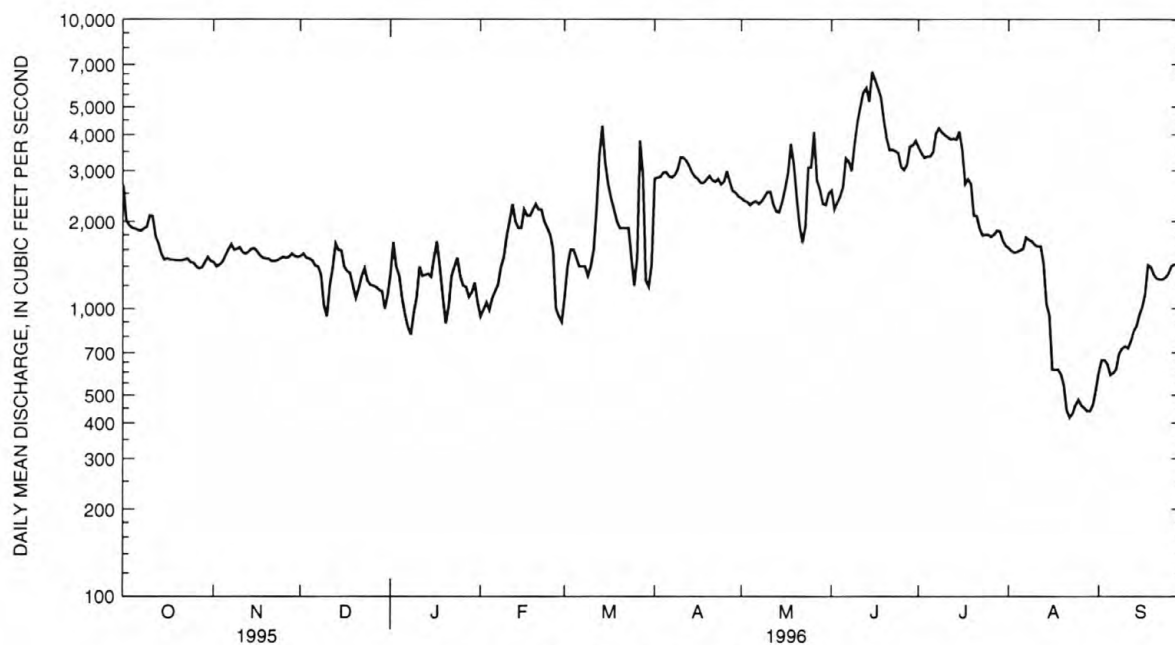
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	1527	1444	1282	1157	1206	1376	1364	2321	4000	2254	1026	1245	
MAX	2346	2439	1933	1975	1644	2118	2864	4030	11210	8574	2105	2082	
(WY)	1984	1984	1985	1992	1992	1986	1996	1984	1991	1995	1984	1991	
MIN	694	659	642	566	504	634	723	1052	1075	357	455	749	
(WY)	1989	1989	1989	1989	1989	1989	1992	1989	1994	1988	1988	1988	

06274300 BIGHORN RIVER AT BASIN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	981141		718744		--	
ANNUAL MEAN	2688		1964		1683	
HIGHEST ANNUAL MEAN	--		--		2565	1995
LOWEST ANNUAL MEAN	--		--		800	1989
HIGHEST DAILY MEAN	12000	Jun 16	6600	Jun 15	16600	Jun 8 1991
LOWEST DAILY MEAN	400	Feb 14	418	Aug 22	276	Jul 27 1988
ANNUAL SEVEN-DAY MINIMUM	416	Feb 9	448	Aug 22	292	Jul 24 1988
INSTANTANEOUS PEAK FLOW	--		7400 ^a	Jun 15	19500	Jun 7 1991
INSTANTANEOUS PEAK STAGE	--		8.48 ^b	Mar 12	10.49	Jun 7 1991
ANNUAL RUNOFF (AC-FT)	1946000		1426000		1220000	
10 PERCENT EXCEEDS	9300		3410		2740	
50 PERCENT EXCEEDS	1470		1600		1300	
90 PERCENT EXCEEDS	700		940		681	

a Estimated, based on floodmark, gage height, 7.00 ft.

b Ice jam.



06274300 BIGHORN RIVER AT BASIN, WY

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 1995 TO SEPTEMBER 1996

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 30...	1435	1510	832	8.7	5.0	-2.0	655	11.4
MAR 26...	1500	1500	1050	8.5	1.0	2.5	660	12.6
JUN 25...	1620	3040	604	8.3	22.0	32.0	657	8.2
SEP 12...	1045	742	899	8.3	18.0	18.5	662	8.1

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)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 30...	104	K20	<0.01	0.15	<0.02	<0.01	217	883
MAR 26...	103	<1	<0.01	0.29	0.03	0.01	108	437
JUN 25...	109	360	0.01	0.33	0.06	0.03	575	4720
SEP 12...	99	160	0.02	0.70	<0.02	<0.01	64	128

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

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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.

WATER-DISCHARGE RECORDS

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.

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.--No estimated daily discharges. Records good. 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 measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 04	.	.	.	169
Mar. 27	.	.	.	61.8
Mar. 28	.	.	.	56.3

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1971, BY WATER YEAR (WY)

MEAN	152	104	78.3	64.5	63.7	77.3	145	558	1241	798	473	229
MAX	457	248	134	105	104	117	441	1319	3185	2219	1704	662
(WY)	1942	1942	1931	1943	1962	1942	1952	1931	1957	1965	1941	1941
MIN	72.5	52.8	45.0	27.0	33.9	35.1	43.6	214	284	188	137	84.2
(WY)	1956	1956	1970	1963	1960	1963	1967	1955	1934	1934	1940	1939

YELLOWSTONE RIVER BASIN

06276500 GREYBULL RIVER AT MEETEETSE, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

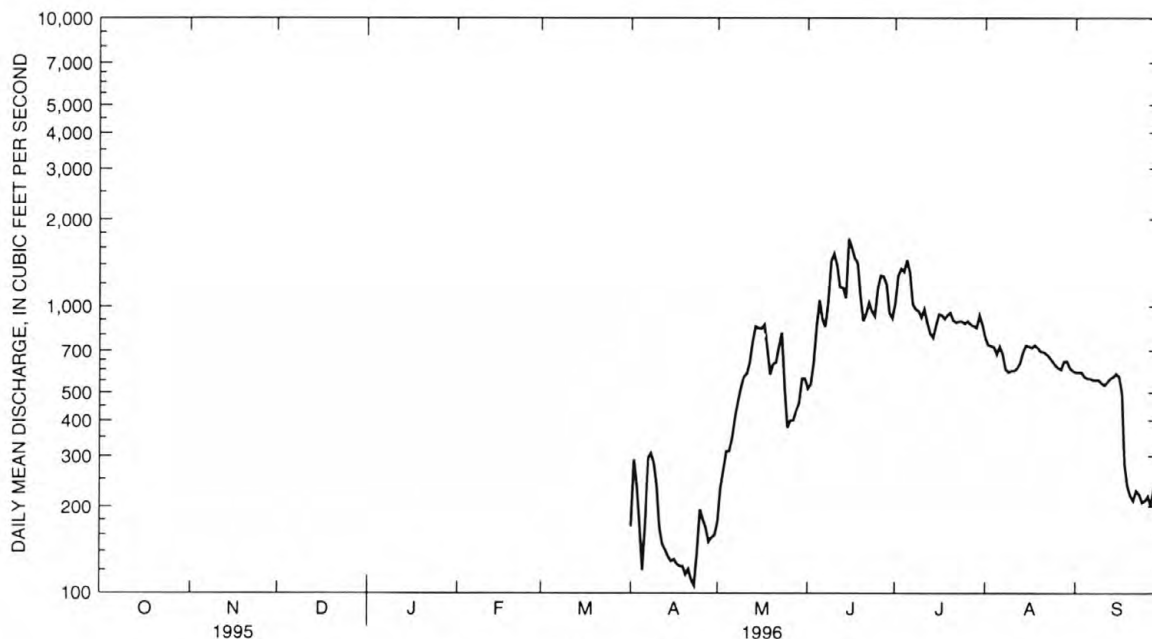
WATER YEARS 1931 - 1971**

ANNUAL MEAN	--		333	
HIGHEST ANNUAL MEAN	--		566	1957
LOWEST ANNUAL MEAN	--		130	1940
HIGHEST DAILY MEAN	1720	Jun 15	6770	Jun 6 1957
LOWEST DAILY MEAN	106	Apr 23	13	Apr 18 1989#
ANNUAL SEVEN-DAY MINIMUM	--		20	Feb 25 1960
INSTANTANEOUS PEAK FLOW	2130	Jun 10	13600 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.44	Jun 10	9.20 ^b	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 1996.

^a From rating curve extended above 4,600 ft³/s on basis of velocity-area study.^b From floodmark.

06276500 GREYBULL RIVER AT MEETEETSE, WY

06276500 GREYBULL RIVER AT MEETEETSE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to September 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV 01...	0935	50	628	8.6	0.0	-7.0	620	12.2	103	K5	34	4.5
MAR 28...	1150	57	560	8.6	0.0	-5.0	610	11.9	102	K6	18	2.8
JUN 28...	0950	1380	135	8.1	10.0	16.0	620	9.0	98	210	472	1760
SEP 10...	1240	454	333	8.6	16.0	27.0	625	8.2	102	K13	21	26

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

LOCATION.--Lat 44°30'29", long 107°24'11", in sec.1, T.52 N., R.88 W., Big Horn County, Hydrologic Unit 10080010, Bighorn National Forest, on right bank 0.2 mi upstream from Shell Reservoir, 1.1 mi downstream from Buckley Creek, 6.0 mi southeast of Shell Creek ranger station, and 19 mi east of Shell.

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1969, published as Shell Creek above Shell Creek Reservoir.

GAGE.--Water-stage recorder. Elevation of gage is 9,050 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 3-6, 21-23, Dec. 9-11, Jan. 5-7, and Apr. 8 to May 7. Records good except those for estimated discharges, which are poor. No diversions upstream from station.

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)
May 17	1400	528	5.07
June 5	2200	547	5.14
June 9	2230	*849	*6.10
June 17	2200	625	5.42

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.6	7.2	4.4	3.2	1.7	2.5	3.7	109	66	12	5.5
2	6.9	6.6	6.8	4.6	3.0	1.8	2.4	3.6	96	62	11	5.3
3	7.1	6.4	6.6	4.7	3.0	1.9	2.5	3.5	141	59	11	5.0
4	7.1	6.6	6.5	4.5	3.0	1.9	2.5	3.5	265	56	10	4.9
5	7.1	7.4	6.3	4.1	2.9	1.7	2.6	3.4	465	53	9.5	4.6
6	7.6	8.0	6.0	3.8	3.0	1.8	2.6	3.5	394	50	13	4.5
7	7.6	9.2	6.5	4.2	3.0	1.8	2.8	3.7	349	45	14	4.5
8	7.0	9.0	5.5	4.3	2.9	1.9	3.5	3.7	501	40	11	4.4
9	7.6	8.3	5.4	4.2	2.9	1.7	5.0	4.8	592	36	9.9	4.3
10	7.9	8.2	5.2	4.1	2.5	1.5	4.0	6.8	529	34	9.2	4.3
11	7.3	8.4	5.2	4.1	2.4	1.9	3.5	6.6	456	32	8.6	4.1
12	7.4	8.5	5.6	4.1	2.3	1.9	3.4	8.2	543	29	8.2	4.2
13	7.5	9.3	5.0	4.0	2.3	1.9	3.3	14	471	27	8.0	4.3
14	8.7	8.9	5.2	3.9	2.3	1.9	3.2	30	361	25	7.8	4.7
15	8.9	7.6	5.1	4.2	2.2	2.0	3.5	47	350	24	8.7	5.8
16	7.1	6.8	5.1	4.0	2.2	2.0	4.0	50	493	22	10	4.8
17	6.9	6.6	4.7	3.8	2.2	2.0	5.0	248	472	21	8.4	6.0
18	7.4	7.0	4.5	3.8	2.1	2.0	4.5	212	469	20	8.1	5.9
19	7.2	6.6	4.6	4.2	2.1	2.2	4.3	131	320	18	8.2	6.3
20	7.9	6.6	4.6	3.8	2.0	2.2	4.1	95	221	17	7.3	6.3
21	7.2	6.2	4.8	3.9	1.9	2.2	4.0	87	188	16	6.9	5.9
22	5.5	6.4	4.4	3.7	1.9	2.2	4.2	76	180	16	6.7	6.4
23	5.8	7.2	4.5	3.8	1.9	2.1	4.6	65	184	18	6.4	6.3
24	7.7	8.2	4.2	3.8	2.0	2.1	5.6	55	122	17	6.2	5.6
25	7.7	7.1	4.1	3.7	1.8	2.5	5.0	48	120	16	6.1	5.7
26	7.4	6.8	4.1	3.7	1.8	2.6	5.4	46	113	14	5.9	5.8
27	7.1	7.0	4.1	3.9	1.6	2.7	5.0	45	126	13	5.8	5.9
28	6.9	7.0	4.0	3.6	1.5	2.8	4.5	46	121	13	5.9	6.6
29	7.1	7.0	4.2	3.7	1.7	2.7	4.2	58	100	14	6.5	7.7
30	7.1	7.3	4.5	3.4	---	2.5	4.0	111	76	16	6.9	8.3
31	7.0	---	4.4	3.4	---	2.6	---	140	---	14	6.1	---
TOTAL	226.1	222.8	158.9	123.4	67.6	64.7	115.7	1659.0	8927	903	263.3	163.9
MEAN	7.29	7.43	5.13	3.98	2.33	2.09	3.86	53.5	298	29.1	8.49	5.46
MAX	8.9	9.3	7.2	4.7	3.2	2.8	5.6	248	592	66	14	8.3
MIN	5.5	6.2	4.0	3.4	1.5	1.5	2.4	3.4	76	13	5.8	4.1
AC-FT	448	442	315	245	134	128	229	3290	17710	1790	522	321

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

MEAN	8.61	5.86	3.84	2.67	2.16	2.09	5.76	104	210	49.9	13.2	10.0
MAX	17.6	11.2	7.18	4.50	3.50	3.69	28.4	289	353	188	45.6	44.9
(WY)	1962	1962	1995	1995	1958	1960	1987	1958	1968	1975	1968	1968
MIN	3.10	2.91	1.95	1.55	1.09	1.14	1.23	15.2	48.9	11.7	4.08	2.77
(WY)	1989	1976	1970	1980	1980	1961	1970	1975	1994	1961	1961	1988

YELLOWSTONE RIVER BASIN

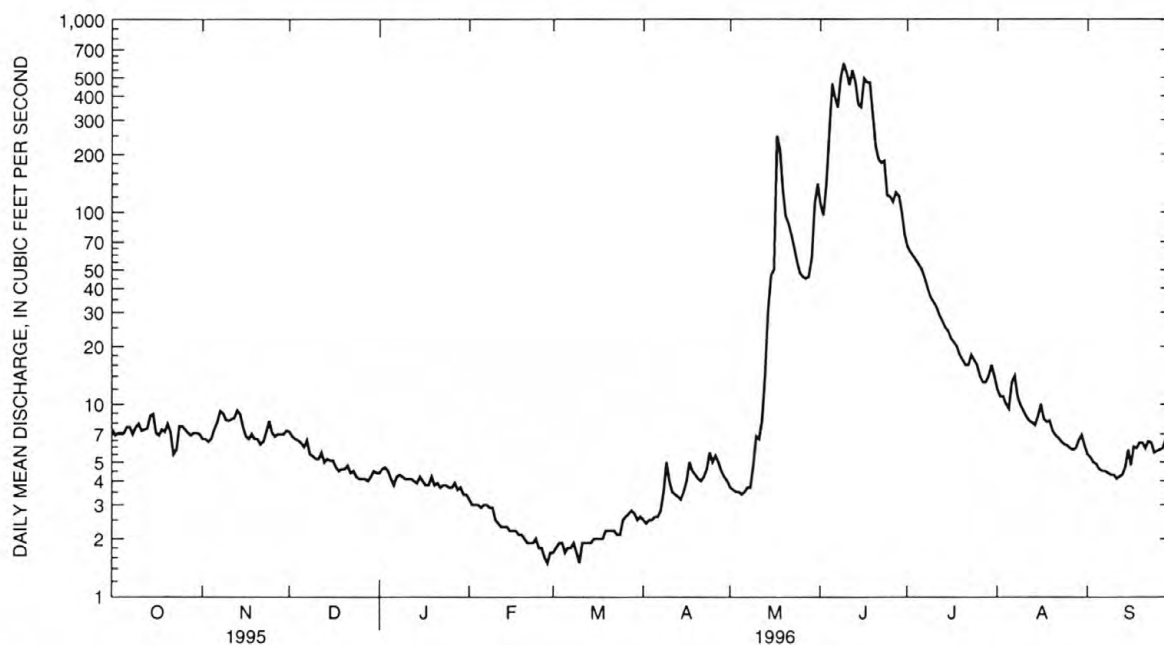
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06278300 SHELL CREEK ABOVE SHELL RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1957 - 1996
ANNUAL TOTAL	16193.6	12895.4	--
ANNUAL MEAN	44.4	35.2	34.9
HIGHEST ANNUAL MEAN	--	--	50.2
LOWEST ANNUAL MEAN	--	--	18.6
HIGHEST DAILY MEAN	783	592	1010
LOWEST DAILY MEAN	2.0	1.5	.60
ANNUAL SEVEN-DAY MINIMUM	2.0	1.7	.90
INSTANTANEOUS PEAK FLOW	--	849	1870 ^a
INSTANTANEOUS PEAK STAGE	--	6.10	7.84 ^b
ANNUAL RUNOFF (AC-FT)	32120	25580	25270
10 PERCENT EXCEEDS	163	79	100
50 PERCENT EXCEEDS	6.6	6.1	5.9
90 PERCENT EXCEEDS	2.5	2.2	1.9

a From rating curve extended above 725 ft³/s on basis of velocity-area study.

b From floodmarks.



06278300 SHELL CREEK ABOVE SHELL RESERVOIR, WY

YELLOWSTONE RIVER BASIN

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: May 19 to June 7 and June 16. 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. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 11 . . . 71.3
Oct. 20 . . . 42.8

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by U.S. 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)
June 10	0400	*1,400	*5.55

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	38	38	548	200	115	106
2	---	---	---	---	---	---	38	38	742	194	112	104
3	---	---	---	---	---	---	38	39	779	188	121	101
4	---	---	---	---	---	---	37	38	831	180	120	90
5	---	---	---	---	---	---	39	35	850	175	118	90
6	---	---	---	---	---	---	38	37	774	167	125	90
7	---	---	---	---	---	---	40	39	703	162	125	90
8	---	---	---	---	---	---	44	42	898	158	117	89
9	---	---	---	---	---	---	47	92	1100	151	115	85
10	---	---	---	---	---	---	51	100	1100	146	113	82
11	---	---	---	---	---	---	51	97	974	143	110	82
12	---	---	---	---	---	---	48	103	906	137	109	82
13	---	---	---	---	---	---	46	118	887	132	109	80
14	---	---	---	---	---	---	42	140	775	127	109	82
15	---	---	---	---	---	---	41	154	702	122	109	86
16	---	---	---	---	---	---	44	206	760	120	113	81
17	---	---	---	---	---	---	48	278	593	131	121	89
18	---	---	---	---	---	---	44	285	548	127	125	87
19	---	---	---	---	---	---	45	227	425	124	125	87
20	---	---	---	---	---	---	42	225	351	122	122	85
21	---	---	---	---	---	---	44	216	325	118	120	81
22	---	---	---	---	---	---	43	218	333	115	118	73
23	---	---	---	---	---	---	42	236	381	126	117	68
24	---	---	---	---	---	---	44	247	313	129	115	65
25	---	---	---	---	---	---	45	278	296	127	113	66
26	---	---	---	---	---	---	44	296	281	125	110	66
27	---	---	---	---	---	---	42	308	278	122	112	63
28	---	---	---	---	---	---	40	325	288	120	110	67
29	---	---	---	---	---	---	39	358	276	120	110	69
30	---	---	---	---	---	---	41	370	234	122	110	67
31	---	---	---	---	---	---	---	400	---	120	106	---
TOTAL	---	---	---	---	---	---	1285	5583	18251	4350	3574	2453
MEAN	---	---	---	---	---	---	42.8	180	608	140	115	81.8
MAX	---	---	---	---	---	---	51	400	1100	200	125	106
MIN	---	---	---	---	---	---	37	35	234	115	106	63
AC-FT	---	---	---	---	---	---	2550	11070	36200	8630	7090	4870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1971, BY WATER YEAR (WY)

	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	

YELLOWSTONE RIVER BASIN

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06278500 SHELL CREEK NEAR SHELL, WY--Continued

SUMMARY STATISTICS

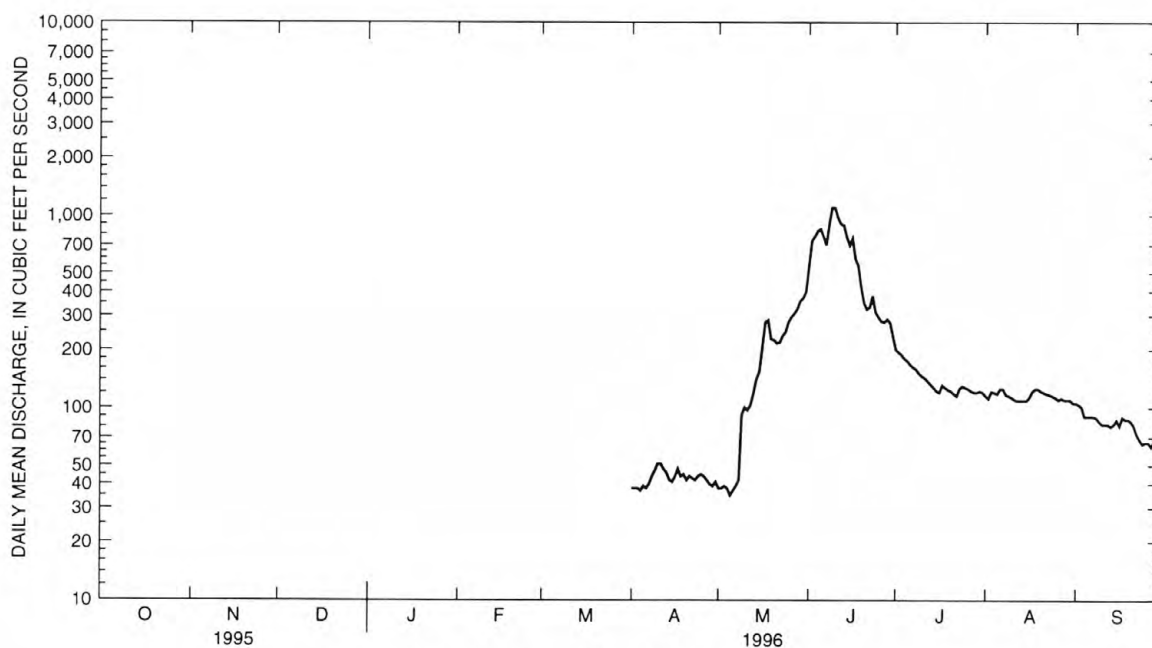
FOR 1996 WATER YEAR*

WATER YEARS 1941 - 1971

ANNUAL MEAN	--		119	
HIGHEST ANNUAL MEAN	--		160	1968
LOWEST ANNUAL MEAN	--		77.3	1966
HIGHEST DAILY MEAN	1100	Jun 9, 10	1980	Jun 4 1968
LOWEST DAILY MEAN	35	May 5	13	Apr 10 1989#
ANNUAL SEVEN-DAY MINIMUM	--		20	Jan 28 1951
INSTANTANEOUS PEAK FLOW	1400	Jun 10	3020 ^a	Jun 24 1945#
INSTANTANEOUS PEAK STAGE	5.55	Jun 10	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 1996.

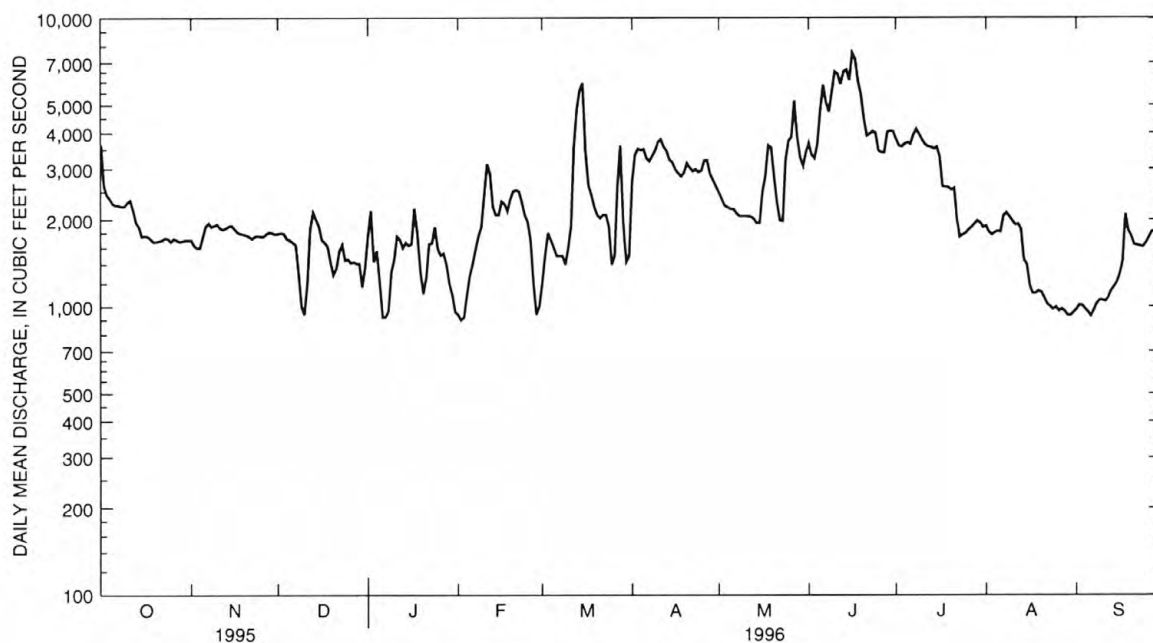
a From rating curve extended above 1,600 ft³/s.

06278500 SHELL CREEK NEAR SHELL, WY

06279500 BIGHORN RIVER AT KANE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1930 - 1996*	
ANNUAL TOTAL	1081910		837358		--	
ANNUAL MEAN	2964		2288		2222	
HIGHEST ANNUAL MEAN	--		--		3524	1947
LOWEST ANNUAL MEAN	--		--		915	1989
HIGHEST DAILY MEAN	15100	Jun 17	7550	Jun 16	24800	Jun 15 1935
LOWEST DAILY MEAN	750	Jan 5	900	Feb 2	179	Jul 22 1934
ANNUAL SEVEN-DAY MINIMUM	796	Jan 4	957	Aug 26	184	Jul 18 1934
INSTANTANEOUS PEAK FLOW	--		8680	Jun 16	25200	Jun 16 1935
INSTANTANEOUS PEAK STAGE	--		5.59	Jun 16	11.10 ^a	Jun 16 1935
ANNUAL RUNOFF (AC-FT)	2146000		1661000		1610000	
10 PERCENT EXCEEDS	9220		3730		4010	
50 PERCENT EXCEEDS	1760		1890		1630	
90 PERCENT EXCEEDS	903		1110		790	

* August 1928 to September 1929 not used in computations, monthly discharge only for selected months.
 a Site and datum then in use.



06279500 BIG HORN RIVER AT KANE, WY

YELLOWSTONE RIVER BASIN

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 1995 TO SEPTEMBER 1996

						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)			

YELLOWSTONE RIVER BASIN

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06279500 BIGHORN RIVER AT KANE, WY--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ESFEN- VAL- ERATE, WAT,FLT REC (UG/L) (49298)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
------	---	--	---	--	--	--	---	---	---	---	--

MAR	26...	<0.032	<0.001	<0.003	<0.035	<0.017	<0.020	<0.035	<0.002	<0.019	<0.004	<0.003
JUL	30...	<0.032	<0.001	<0.003	<0.035	<0.017	E0.006	<0.035	<0.002	<0.019	<0.004	<0.003

E - Estimate.

DATE	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)
------	--	---	--	--	---	--	---	--	--	--	---

MAR	26...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026
JUL	30...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026

DATE	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
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MAR	26...	<0.017	<0.006	<0.002	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018
JUL	30...	<0.017	<0.006	0.005	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018

DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
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MAR	26...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	E0.003	<0.003	<0.007	<0.004	<0.013
JUL	30...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	<0.018	<0.003	<0.007	<0.004	<0.013

E - Estimate.

DATE	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS- SOLVED (UG/L) (39762)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
------	--	---	--	---	---	--	--	---	---	--	---

MAR	26...	<0.035	<0.035	<0.021	<0.005	E0.002	<0.007	<0.013	<0.002	E0.004	<0.050	<0.002
JUL	30...	<0.035	<0.035	<0.021	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.050	<0.002

E - Estimate.

06279940 NORTH FORK SHOSHONE RIVER AT WAPITI, WY

LOCATION.--Lat 44°28'10", long 109°25'49", in SE¹/₄ 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: Dec. 8-11, 20-27, Dec. 30 to Jan. 7, Jan. 15 to Feb. 9, Feb. 11, 12, Feb. 23 to Mar. 3, Mar. 5-9, 23-29, May 2-20, and June 9, 10. Records good except those for June 11 to July 29, and those for estimated daily discharges, which are poor. Diversion for irrigation of about 1,500 acres upstream from station. Bureau of Reclamation data collection platform with satellite telemetry 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)
May 16	unknown	7,420	7.67 ^a
June 9	unknown	*11,000	*8.63 ^a

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	258	576	220	120	140	257	515	3490	4740	1480	492
2	274	193	708	200	120	160	304	510	3850	5060	1420	458
3	280	207	455	200	120	170	301	510	4540	5330	1330	428
4	320	244	410	190	130	178	285	510	5690	5440	1190	413
5	293	260	367	170	150	170	290	500	6660	5460	1080	408
6	295	268	375	180	190	140	367	500	6320	4990	1090	405
7	296	260	331	200	210	150	513	550	6370	4390	1000	377
8	280	277	305	218	220	160	836	580	7500	4000	965	363
9	279	343	280	211	240	195	1420	650	8560	3720	983	352
10	276	289	270	210	224	251	1930	750	8450	3670	962	337
11	293	274	280	199	195	233	1890	790	8100	3760	954	334
12	307	326	287	195	200	240	1230	1430	7650	3460	925	351
13	303	296	313	191	207	232	851	2730	7780	3260	896	346
14	296	333	282	197	220	230	652	3630	8310	3110	849	408
15	305	343	273	195	214	274	671	3530	8120	2960	880	500
16	300	324	266	190	213	287	883	4020	7950	3180	826	421
17	290	308	260	170	232	234	930	3820	7410	3030	796	581
18	331	315	201	135	231	220	724	3290	6900	2700	777	468
19	332	356	189	140	212	218	599	2680	5730	2570	735	419
20	300	304	180	160	201	249	558	2500	5190	2360	684	416
21	304	283	170	170	201	293	543	2410	5350	2130	661	435
22	301	300	170	180	199	257	522	2470	5810	2060	636	518
23	260	272	170	190	170	230	482	2560	5330	2000	612	456
24	276	270	180	200	180	210	768	2300	5160	1910	595	386
25	283	295	190	190	190	200	868	2160	5560	1820	585	421
26	282	363	200	170	150	210	704	2330	5330	1770	567	422
27	273	320	200	170	130	220	665	2450	5520	1680	557	384
28	274	306	210	160	110	230	605	2660	5230	1620	545	402
29	283	327	228	140	130	230	575	3150	4610	1610	531	496
30	270	417	230	130	---	222	545	3590	4590	1680	514	443
31	280	---	230	130	---	228	---	3440	---	1560	511	---
TOTAL	9028	8931	8786	5601	5309	6661	21768	63515	187060	97030	26136	12640
MEAN	291	298	283	181	183	215	726	2049	6235	3130	843	421
MAX	332	417	708	220	240	293	1930	4020	8560	5460	1480	581
MIN	260	193	170	130	110	140	257	500	3490	1560	511	334
AC-FT	17910	17710	17430	11110	10530	13210	43180	126000	371000	192500	51840	25070

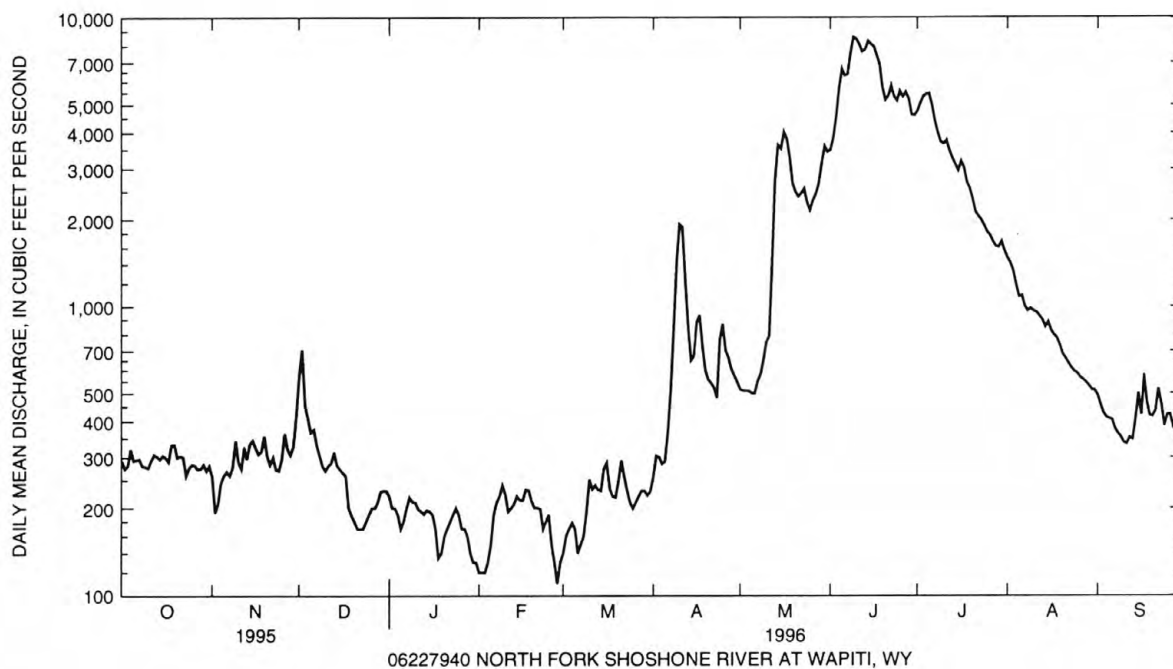
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	253	207	167	140	147	198	537
MAX	297	298	283	181	183	244	792
(WY)	1991	1996	1996	1996	1996	1995	1990
MIN	221	157	139	121	123	144	282
(WY)	1995	1995	1993	1992	1994	1991	1993

06279940 NORTH FORK SHOSHONE RIVER AT WAPITI, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	337671		452465		--	
ANNUAL MEAN	925		1236		834	
HIGHEST ANNUAL MEAN	--		--		1236	
LOWEST ANNUAL MEAN	--		--		551	
HIGHEST DAILY MEAN	5840	Jun 16	8560	Jun 9	8560	Jun 9 1996
LOWEST DAILY MEAN	86	Jan 4	110	Feb 28	86	Jan 4 1995
ANNUAL SEVEN-DAY MINIMUM	97	Jan 1	127	Jan 29	97	Dec 31 1994
INSTANTANEOUS PEAK FLOW	--	--	11000	Jun 9	11000	Jun 9 1996
INSTANTANEOUS PEAK STAGE	--	--	8.63 ^a	Jun 9	9.54 ^b	Jun 13 1991
ANNUAL RUNOFF (AC-FT)	669800	--	897500	--	604300	--
10 PERCENT EXCEEDS	3350	--	4010	--	2580	--
50 PERCENT EXCEEDS	307	--	351	--	267	--
90 PERCENT EXCEEDS	150	--	180	--	134	--

a From floodmarks.

b Discharge, 9,460 ft³/s.

06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WY

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.

DRAINAGE AREA.--297 mi².

PERIOD OF RECORD.--October 1956 to September 1958, October 1959 to current year.

REVISSED RECORDS.--WRD WY 1974: 1963.

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.

REMARKS.--Estimated daily discharges: Dec. 8-11, 22-25, Dec. 30 to Jan. 5, Jan. 17-22, Jan. 25 to Feb. 5, Feb. 11, 23, 27-29, and Mar. 6, 25-29. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 450 acres upstream from station. U.S. Geological Survey data collection platform with satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	2115	2,750	6.90
June 9	2045	*5,050	*8.39
July 5	2130	3,030	7.36

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	148	144	100	70	74	90	141	883	2120	791	257
2	182	130	143	92	62	84	100	140	1050	2340	760	249
3	184	118	119	95	68	86	99	136	1480	2450	715	239
4	191	115	123	94	77	89	98	133	2140	2490	630	230
5	188	120	117	94	86	89	93	129	2530	2710	577	231
6	190	127	118	96	94	80	105	128	2240	2410	635	225
7	188	130	109	95	99	84	127	144	2410	2060	522	218
8	181	137	110	101	104	86	179	151	3100	1900	497	209
9	180	143	105	103	100	93	392	170	3760	1810	491	205
10	175	140	105	104	96	104	575	204	3720	1800	484	203
11	181	139	115	100	83	105	419	215	3510	1850	477	205
12	186	152	119	96	86	99	250	475	3250	1680	467	231
13	172	146	122	100	96	97	191	1090	3180	1590	473	223
14	169	144	115	97	99	92	158	1570	3300	1530	510	232
15	171	144	114	100	96	94	159	1490	3380	1460	488	254
16	169	143	113	101	92	97	189	1810	3290	1490	458	244
17	169	141	114	95	98	94	206	1660	3160	1380	441	297
18	179	139	94	90	100	91	178	1320	3010	1300	434	258
19	176	140	81	72	95	86	163	983	2440	1270	407	231
20	169	131	77	78	91	90	147	725	2190	1160	370	221
21	176	127	75	82	91	100	146	645	2250	1060	354	220
22	170	137	70	83	93	97	140	694	2370	1040	333	282
23	150	132	70	83	86	96	139	689	2240	1020	320	245
24	149	130	75	84	89	82	173	584	2240	973	311	219
25	160	132	75	84	88	74	185	512	2390	936	308	228
26	160	140	76	80	80	76	168	530	2330	936	301	221
27	154	130	77	85	72	82	160	598	2400	890	297	203
28	152	125	78	86	70	85	149	691	2210	876	287	215
29	156	132	84	84	68	88	144	835	1930	973	284	235
30	151	140	93	80	---	89	145	908	1970	885	271	226
31	148	---	95	74	---	89	---	857	---	836	265	---
TOTAL	5327	4052	3125	2808	2529	2772	5467	20357	76353	47225	13958	6956
MEAN	172	135	101	90.6	87.2	89.4	182	657	2545	1523	450	232
MAX	201	152	144	104	104	105	575	1810	3760	2710	791	297
MIN	148	115	70	72	62	74	90	128	883	836	265	203
AC-FT	10570	8040	6200	5570	5020	5500	10840	40380	151400	93670	27690	13800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

MEAN	155	107	83.2	75.9	72.3	77.9	163	733	1743	1124	376	211
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

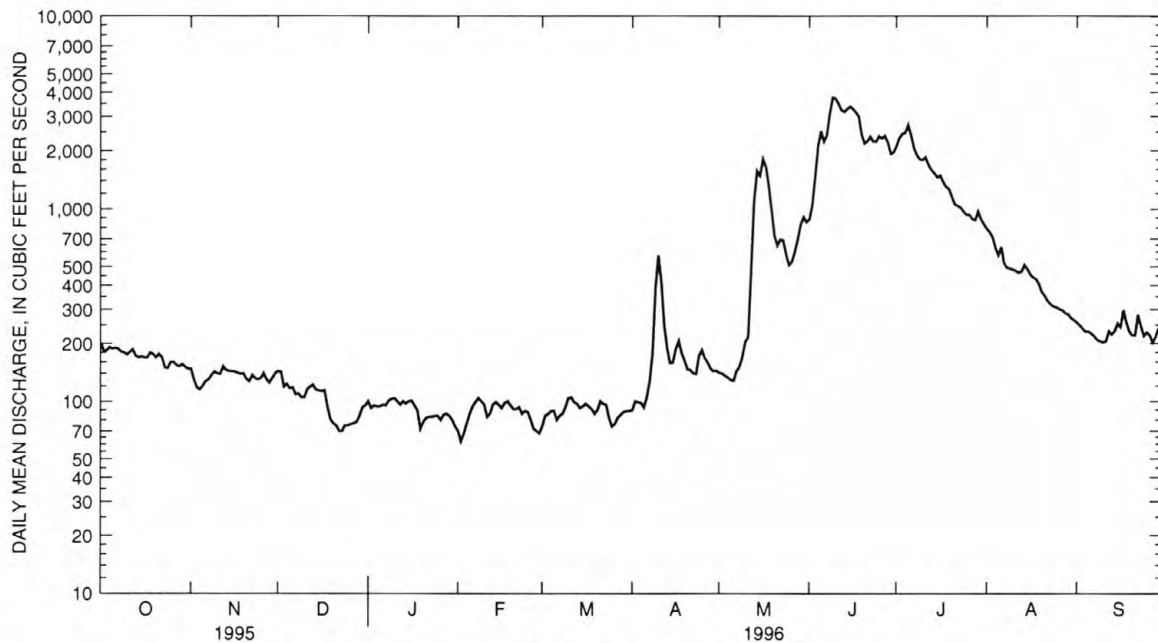
YELLOWSTONE RIVER BASIN

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06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1957 - 1996
ANNUAL TOTAL	168490	190929	--
ANNUAL MEAN	462	522	411
HIGHEST ANNUAL MEAN	--	--	583
LOWEST ANNUAL MEAN	--	--	221
HIGHEST DAILY MEAN	3280	Jun 15, Jul 11	6100
LOWEST DAILY MEAN	51	Jan 4, 5, 24	35
ANNUAL SEVEN-DAY MINIMUM	53	Jan 1	40
INSTANTANEOUS PEAK FLOW	--	5050	10000
INSTANTANEOUS PEAK STAGE	--	8.39	9.24 ^a
ANNUAL RUNOFF (AC-FT)	334200	378700	297800
10 PERCENT EXCEEDS	1660	1820	1250
50 PERCENT EXCEEDS	146	159	137
90 PERCENT EXCEEDS	70	84	67

a From floodmarks.



06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WY

06281000 SOUTH FORK SHOSHONE RIVER ABOVE BUFFALO BILL RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1903 - 1996	
ANNUAL TOTAL	165633.18		189304.7		--	
ANNUAL MEAN	454		517		379	
HIGHEST ANNUAL MEAN	--		--		705	
LOWEST ANNUAL MEAN	--		--		181	
HIGHEST DAILY MEAN	4470	Jun 15	4320	Jun 15	7370	Jun 9 1981
LOWEST DAILY MEAN	.38	Sep 18	4.8	Sep 8	.00	Several days, 1992-93
ANNUAL SEVEN-DAY MINIMUM	.43	Sep 13	5.2	Sep 4	.00	Sep 15 1992
INSTANTANEOUS PEAK FLOW	--	--	5340 ^a	Jun 10	9960	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--	--	8.64 ^b	Jan 30	9.41 ^c	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	328500	--	375500	--	274200	--
10 PERCENT EXCEEDS	1760	--	2040	--	1280	--
50 PERCENT EXCEEDS	110	--	139	--	124	--
90 PERCENT EXCEEDS	34	--	54	--	30	--

a Gage height 8.25 ft.

b Backwater from ice.

c Site and datum then in use.



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 1995 TO SEPTEMBER 1996

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 (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
OCT											
30...	1725	360	157	8.0	8.5	-4.0	635	8.6	9.9	102	52
DEC											
08...	1125	424	168	8.2	3.0	-22.0	640	1.1	11.4	101	59
FEB											
14...	1145	540	196	8.1	2.0	3.0	640	0.9	11.9	103	66
MAR											
28...	0855	1070	188	7.9	0.0	-9.5	630	--	11.7	97	64
APR											
18...	1130	2060	178	8.2	4.0	5.0	629	1.7	11.6	107	62
MAY											
10...	1135	2940	195	8.0	6.0	3.5	641	0.7	11.3	108	62
JUN											
26...	1245	6190	112	8.1	11.0	19.0	631	31	9.5	104	39
JUL											
30...	1045	1250	97	7.9	12.0	25.5	638	14	9.9	110	31
AUG											
15...	1115	1180	99	7.8	11.0	25.0	642	4.6	10.4	112	33
SEP											
11...	1615	1020	103	8.0	13.0	24.0	638	3.5	9.0	102	35

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										
30...	15	3.5	11	0.7	1.0	61	18	0.7	0.1	14
DEC										
08...	17	4.0	12	0.7	0.9	65	20	0.7	0.2	14
FEB										
14...	19	4.4	15	0.8	1.0	72	24	0.7	0.1	14
MAR										
28...	19	4.1	13	0.7	1.0	71	25	0.9	0.2	13
APR										
18...	18	4.1	14	0.8	0.9	70	25	0.7	0.1	13
MAY										
10...	18	4.2	15	0.8	0.9	71	26	0.9	0.2	13
JUN										
26...	11	2.7	8.2	0.6	0.7	45	11	0.4	0.1	15
JUL										
30...	8.8	2.2	6.9	0.5	0.7	41	7.7	0.4	<0.1	15
AUG										
15...	9.6	2.3	6.4	0.5	0.7	41	8.0	0.4	<0.1	14
SEP										
11...	10	2.4	7.1	0.5	0.8	43	9.3	0.4	<0.1	15

YELLOWSTONE RIVER BASIN

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06281700 SHOSHONE RIVER ABOVE DEMARIS SPRINGS, NEAR CODY, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS 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)
OCT 30...	100	0.14	97.4	<0.01	0.5	<0.02	<0.2	0.06	0.05	0.04
DEC 08...	108	0.15	123	<0.01	<0.05	<0.02	<0.2	0.05	0.03	0.03
FEB 14...	121	0.17	177	<0.01	<0.05	<0.02	<0.2	0.05	0.03	0.03
MAR 28...	119	0.16	343	<0.01	<0.05	<0.02	<0.2	0.04	0.04	0.03
APR 18...	118	0.16	656	<0.01	<0.05	<0.02	0.2	0.04	0.02	0.03
MAY 10...	121	0.16	962	<0.01	0.06	0.02	<0.2	0.06	0.02	0.03
JUN 26...	77	0.10	1280	<0.01	0.06	0.04	<0.2	0.11	0.04	0.04
JUL 30...	67	0.09	226	0.01	0.11	<0.02	<0.2	0.05	0.02	0.05
AUG 15...	67	0.09	212	0.01	0.09	0.02	<0.2	0.04	0.01	0.05
SEP 11...	71	0.10	197	<0.01	0.12	<0.02	<0.2	0.05	0.03	0.05

06282000 SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR, WY

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.

DRAINAGE AREA.--1,538 mi². Area at site prior to Oct. 1, 1949, 1,502 mi².

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, 1949, at site 2.5 mi upstream at different datum.

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 37,900 acres are downstream from station. Diversion, 2.1 mi upstream, to Heart Mountain Canal began in 1943. Bureau of Reclamation data collection platform with satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since construction of Buffalo Bill Reservoir in 1909, 18,700 ft³/s, June 15, 1918, by computation of flow over dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	407	408	420	605	744	1610	3000	2630	7060	1680	1190
2	593	409	397	415	596	745	1830	3010	2620	6690	1470	1200
3	530	410	395	406	523	745	2050	3030	2630	6760	1380	1190
4	475	410	402	420	528	740	2250	3030	2600	6800	1360	1190
5	477	408	402	416	524	786	2460	3020	2600	6790	1280	1190
6	475	410	419	416	522	836	2590	3020	2560	6760	1270	1180
7	456	410	423	416	520	860	2590	3020	2570	6790	1260	1180
8	390	407	422	416	523	944	2600	3010	2600	6390	1220	1170
9	400	408	422	416	522	951	2600	3010	2600	5050	1200	1170
10	400	400	421	416	523	951	2590	3010	2590	4330	1180	1170
11	409	407	420	415	526	948	2600	3000	3020	4340	1200	1180
12	416	413	422	416	551	951	2580	3000	3840	4350	1210	1180
13	416	415	421	413	629	1010	2580	3000	4530	4310	1210	1180
14	416	415	423	408	655	1160	2570	3010	4900	4320	1210	1170
15	417	419	423	413	729	1180	2550	3020	4770	3680	1210	1170
16	421	407	424	412	726	1170	2610	3030	4820	2500	1180	1170
17	420	415	422	413	729	1170	2990	3050	4790	2080	1190	1130
18	419	413	416	410	732	1170	3030	3050	4840	2070	1190	1110
19	420	413	416	411	740	880	3030	3030	4860	2020	1200	1080
20	416	413	418	410	741	801	3010	3040	4850	1850	1200	1010
21	416	414	418	409	740	829	3000	3030	4860	1850	1200	899
22	416	412	418	432	741	1100	3010	3030	4830	1800	1190	888
23	412	412	417	505	737	1110	3020	2930	4820	1670	1190	884
24	411	413	418	513	738	1030	3000	2610	4960	1660	1190	786
25	411	414	420	527	739	847	3030	2620	5210	1640	1190	793
26	410	416	420	526	738	793	3010	2640	5920	1480	1190	794
27	411	415	420	528	735	943	2990	2620	6900	1390	1190	792
28	412	414	419	530	744	1230	2980	2620	7290	1380	1190	794
29	412	411	420	552	740	1460	3010	2630	7280	1370	1190	789
30	413	414	420	609	---	1570	3000	2620	7280	1620	1190	787
31	411	---	420	608	---	1560	---	2640	---	1580	1190	---
TOTAL	13477	12344	12926	14017	18796	31214	80770	90380	130570	112380	38400	31416
MEAN	435	411	417	452	648	1007	2692	2915	4352	3625	1239	1047
MAX	593	419	424	609	744	1570	3030	3050	7290	7060	1680	1200
MIN	390	400	395	406	520	740	1610	2610	2560	1370	1180	786
AC-FT	26730	24480	25640	27800	37280	61910	160200	179300	259000	222900	76170	62310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

	MEAN	526	527	498	488	498	809	1433	2480	2621	1317	937
MAX	1198	966	944	894	893	1007	2692	2958	6440	6556	3397	2113
(WY)	1953	1952	1951	1952	1973	1996	1996	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

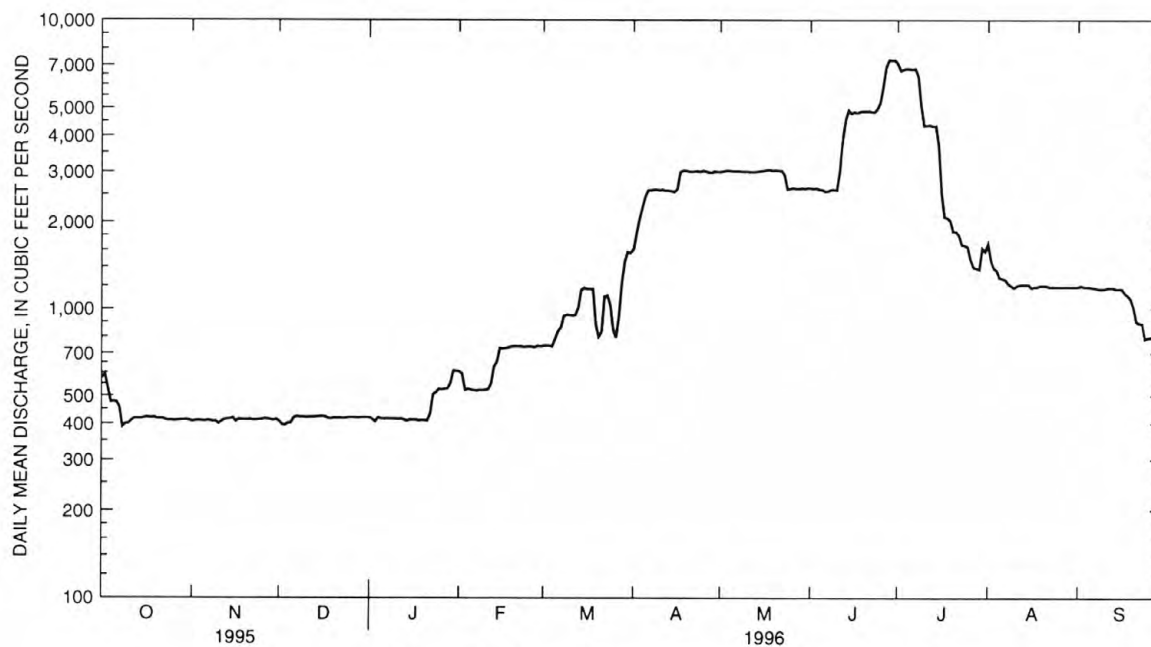
06282000 SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996*	
ANNUAL TOTAL	271065		586690		--	
ANNUAL MEAN	743		1603		1072 ^a	
HIGHEST ANNUAL MEAN	--		--		1764	
LOWEST ANNUAL MEAN	--		--		556	
HIGHEST DAILY MEAN	6310	Jul 14	7290	Jun 28	15100	Jun 9 1981
LOWEST DAILY MEAN	158	Apr 6	390	Oct 8	14	Nov 19 1933#
ANNUAL SEVEN-DAY MINIMUM	162	Mar 24	404	Nov 29	64	Jan 21 1959
INSTANTANEOUS PEAK FLOW	--		7400		17300	
INSTANTANEOUS PEAK STAGE	--		8.70		11.57	
ANNUAL RUNOFF (AC-FT)	537700		1164000		776300	
10 PERCENT EXCEEDS	1240		3040		1840	
50 PERCENT EXCEEDS	422		1050		840	
90 PERCENT EXCEEDS	181		412		290	

* Period following Heart Mountain Diversion. See REMARKS.

For period of record through 1996.

a Average discharge (water years 1922-1942) prior to Heart Mountain Diversion, 1,256 ft³/s.



06282000 SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR, WY

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 1995 TO SEPTEMBER 1996

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 31...	1520	38	1260	9.0	3.0	-5.0	654
MAR 27...	1035	29	1520	8.7	0.0	-5.5	660
JUN 26...	0910	340	504	8.1	14.0	19.0	657
SEP 10...	1530	465	621	8.3	17.0	29.0	660

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 31...	13.8	120	51	0.01	4.8	<0.02	<0.01
MAR 27...	13.3	106	63	0.05	5.4	0.04	0.04
JUN 26...	9.2	104	410	0.02	2.1	0.09	0.08
SEP 10...	8.6	103	130	0.02	2.3	<0.02	0.06

YELLOWSTONE RIVER BASIN

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06285100 SHOSHONE RIVER NEAR LOVELL, WY

LOCATION.--Lat 44°50'19", long 108°26'04", in NW¼ NE¼ NE¼ 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.

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. 29, 30, Jan. 6-10, Jan 28 to Feb. 12, and Feb. 26 to Mar. 4. 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. U.S. Geological Survey data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	729	679	569	350	560	1850	2910	3060	8270	1200	755
2	700	685	647	535	350	580	2100	2780	2980	7740	1200	829
3	677	695	592	591	330	640	2450	2900	2880	7650	593	806
4	647	700	604	542	320	685	2700	2700	2680	7640	771	703
5	655	702	603	547	325	665	2890	2710	2550	7600	768	645
6	622	725	604	520	390	748	3200	2800	2390	7630	658	638
7	614	714	637	480	470	785	3290	2750	2130	7660	751	666
8	560	724	536	500	590	799	3390	2720	1920	7620	760	766
9	519	829	570	520	700	831	3390	2720	1870	6280	782	836
10	477	730	642	540	660	838	3480	2780	1770	4770	825	886
11	486	687	680	570	640	915	3470	2770	1860	4680	817	877
12	433	711	664	564	620	1380	3420	2740	2780	4680	857	914
13	434	717	644	564	599	1350	3370	2780	3530	4720	678	976
14	606	717	606	562	608	1180	3350	2680	3970	4830	576	1060
15	805	707	598	558	671	1260	2960	2640	3710	4630	650	1170
16	652	716	598	565	724	1220	2740	2620	3610	3070	641	1250
17	639	687	597	465	720	1250	3390	2630	3210	1750	677	2110
18	573	701	582	348	729	1220	3890	2620	3160	1580	716	1800
19	538	714	577	521	748	1100	3760	2620	3370	1590	827	1690
20	683	717	583	548	743	783	3780	2720	3590	1390	643	1590
21	696	704	576	561	735	798	3680	2760	3730	1290	619	1550
22	710	718	574	504	712	1040	3500	2750	4000	1330	579	1500
23	692	726	569	542	695	1180	3300	3150	4350	1070	549	1450
24	748	725	596	576	693	1070	3210	4070	4360	817	570	1320
25	725	728	601	572	693	1070	3130	3590	4650	851	584	1310
26	693	726	588	593	700	804	3090	3870	4810	744	648	1260
27	686	762	558	596	640	799	3010	3500	6320	585	549	1230
28	679	756	542	584	500	1240	3040	3210	7220	523	526	1200
29	681	757	557	540	540	1530	3070	3170	7760	597	556	1180
30	697	673	580	440	---	1760	2960	3020	8100	436	551	1190
31	761	---	569	400	---	1820	---	3010	---	960	655	---
TOTAL	19907	21582	18553	16517	17195	31900	94860	90690	112320	114983	21776	34157
MEAN	642	719	598	533	593	1029	3162	2925	3744	3709	702	1139
MAX	819	829	680	596	748	1820	3890	4070	8100	8270	1200	2110
MIN	433	673	536	348	320	560	1850	2620	1770	436	526	638
AC-FT	39490	42810	36800	32760	34110	63270	188200	179900	222800	228100	43190	67750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1996, BY WATER YEAR (WY)

	MEAN	767	711	648	591	599	631	758	856	1884	1853	741	782
MAX	1251	1146	1168	1065	1139	1133	3162	2925	4935	4686	1305	1354	
(WY)	1972	1969	1969	1973	1973	1973	1996	1996	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	

YELLOWSTONE RIVER BASIN

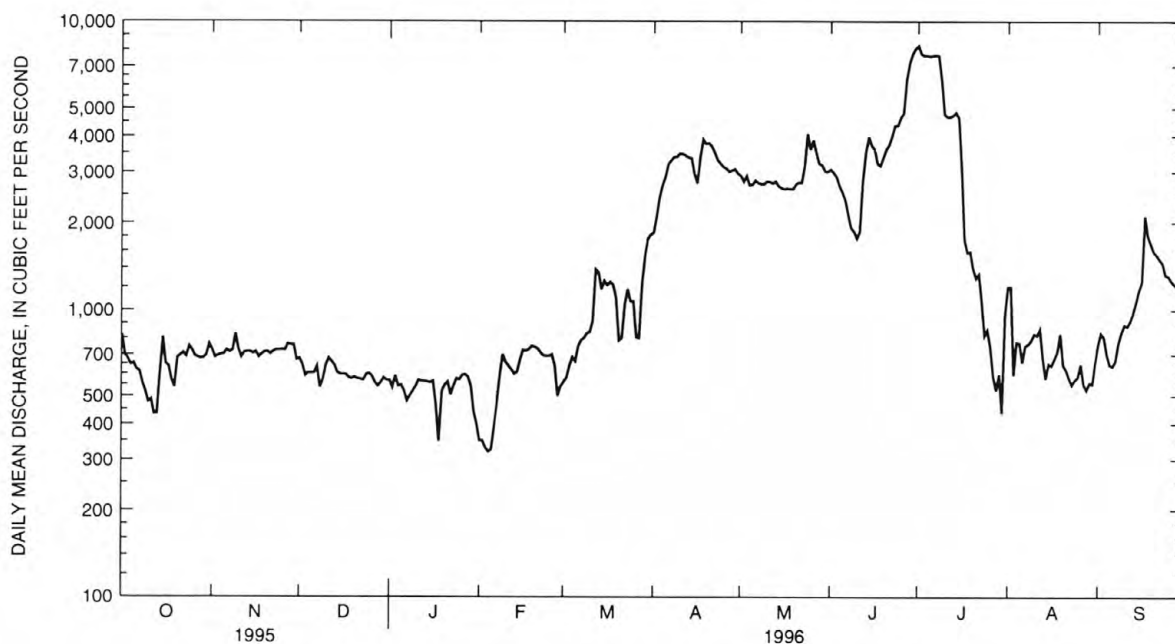
06285100 SHOSHONE RIVER NEAR LOVELL, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1967 - 1996	
ANNUAL TOTAL	230340		594440		--	
ANNUAL MEAN	631		1624		903	
HIGHEST ANNUAL MEAN	--		--		1624	
LOWEST ANNUAL MEAN	--		--		359	
HIGHEST DAILY MEAN	6680		8270		15200	
LOWEST DAILY MEAN	76		320		27	
ANNUAL SEVEN-DAY MINIMUM	121		352		48	
INSTANTANEOUS PEAK FLOW	--		8520 ^a		16400 ^b	
INSTANTANEOUS PEAK STAGE	--		10.86 ^c		10.86 ^c	
ANNUAL RUNOFF (AC-FT)	456900		1179000		653800	
10 PERCENT EXCEEDS	822		3550		1470	
50 PERCENT EXCEEDS	542		756		664	
90 PERCENT EXCEEDS	260		548		326	

a Gage height, 10.40 ft.

b Gage height, 9.16 ft, site then in use, at present datum.

c Backwater from ice.



06285100 SHOSHONE RIVER NEAR LOVELL, WY

YELLOWSTONE RIVER BASIN

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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 1995 TO SEPTEMBER 1996

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												
18...	0935	710	809	10.5	13.5							
JAN												
11...	0905	572	1490	1.5	-5.0							
MAR												
27...	0800	1270	562	0.5	-6.5							
MAY												
01...	1730	2900	358	10.0	9.5							
JUN												
17...	1745	3060	276	15.5	38.0							
JUL												
24...	1425	925	647	19.5	37.0							
30...	1330	457	682	21.0	27.5							
SEP												
09...	1525	879	708	17.5	33.5							

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	2,4,5-T DIS- SOLVED (UG/L) (39742)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB FLTRD, GF 0.7U REC (UG/L) (38746)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)
MAR												
27...	0800	1270	8.5	665	12.7	101	<0.035	<0.035	<0.035	<0.002	<0.035	<0.002
JUL												
30...	1330	457	8.7	665	8.8	114	<0.035	<0.035	<0.035	<0.002	<0.035	<0.002

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)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
MAR												
27...	<0.016	<0.016	<0.021	0.004	E0.004	<0.001	<0.002	<0.014	<0.035	<0.035	<0.002	<0.003
JUL												
30...	<0.016	<0.016	<0.021	0.008	E0.002	<0.001	<0.002	<0.014	<0.035	<0.035	<0.002	E0.006

E - Estimate.

DATE	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)
MAR												
27...	<0.003	<0.011	<0.035	<0.004	<0.05	<0.004	<0.002	<0.006	<0.017	<0.002	<0.035	<0.02
JUL												
30...	<0.003	<0.011	<0.035	<0.004	<0.05	0.009	<0.002	<0.006	<0.017	<0.002	<0.035	<0.02

06285100 SHOSHONE RIVER NEAR LOVELL, WY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	DICHLOR PROP, WATER, FLTRD GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT, FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ESFEN- VAL- ERATE, WAT, FLT GF 0.7U REC (UG/L) (49298)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
MAR 27...	<0.032	<0.001	<0.003	<0.035	<0.017	<0.020	<0.035	<0.002	<0.019	<0.004	<0.003
JUL 30...	<0.032	<0.001	<0.003	<0.035	<0.017	<0.020	<0.035	<0.002	<0.019	<0.004	<0.003

DATE	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	3HYDRXY CARBO- FURAN WAT, FLT GF 0.7U REC (UG/L) (49308)	ALPHA BHC DIS- REC (UG/L) (34253)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)
MAR 27...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026
JUL 30...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026

DATE	METH- OMYL, WATER, FLTRD	METHYL PARA- THION WAT FLT	METO- LACHLOR WATER	METRI- BUZIN SENCOR WATER	MOL- INATE WATER FLTRD	1-NAPH THOL, WATER, FLTRD	NAPROP- AMIDE WATER FLTRD	NEB- URON, WATER, FLTRD	NORFLUR AZON, WATER, FLTRD	ORY- ZALIN, WATER, FLTRD	OXAMYL, WATER, FLTRD
	GF 0.7U	0.7 U	WATER	WATER	0.7 U	GF 0.7U	0.7 U	GF 0.7U	GF 0.7U	GF 0.7U	GF 0.7U
	REC	GF, REC	DISSOLV	DISSOLV	GF, REC	REC	GF, REC	REC	REC	REC	REC
	(UG/L) (49296)	(UG/L) (82667)	(UG/L) (39415)	(UG/L) (82630)	(UG/L) (82671)	(UG/L) (49295)	(UG/L) (82684)	(UG/L) (49294)	(UG/L) (49293)	(UG/L) (49292)	(UG/L) (38866)
MAR 27...	<0.017	<0.006	<0.002	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018
JUL 30...	<0.017	<0.006	E0.003	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018

E - Estimate.

DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
MAR 27...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	<0.018	<0.003	<0.007	<0.004	<0.013
JUL 30...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	E0.005	<0.003	<0.007	<0.004	<0.013

E - Estimate.

DATE	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS- SOLVED (UG/L) (39762)	SI- MAZINE, WATER, FLTRD, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER, FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAR 27...	<0.035	<0.035	<0.021	<0.005	<0.01	<0.007	<0.013	<0.002	0.007	<0.050	<0.002
JUL 30...	<0.035	<0.035	<0.021	<0.005	<0.01	<0.007	<0.013	<0.002	0.012	<0.050	E0.004

E - Estimate.

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. Station record provided by Montana District.

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, 1,017,000 acre-ft, Oct. 2, elevation, 3,636.95 ft; minimum, 759,200 acre-ft, May 5, elevation, 3,605.39 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
Sept. 30	3,636.72	1,014,000	---
Oct. 31	3,632.64	969,800	-44,200
Nov. 30	3,630.80	951,200	-18,600
Dec. 31	3,624.77	896,200	-55,000
CAL YR 1995			+78,100
Jan. 31	3,618.86	848,900	-47,300
Feb. 29	3,615.10	821,400	-27,500
Mar. 31	3,609.37	783,300	-38,100
Apr. 30	3,606.73	767,100	-16,200
May 31	3,615.49	824,100	+57,000
June 30	3,631.41	957,300	+133,200
July 31	3,634.70	991,700	+34,400
Aug. 31	3,632.54	968,800	-22,900
Sept. 30	3,633.43	978,100	+9,300
WTR YR 1996			-35,900

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 data collection platform with satellite telemetry at station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4500	3030	2840	2750	3320	3500	5790	5640	6520	7270	3000	2520
2	4490	2570	2840	2760	3470	3420	5780	5620	6550	7270	2980	2480
3	4480	2560	2870	2760	3470	3110	5760	5620	6430	7380	2970	2390
4	4480	2560	2860	2790	3470	3100	5740	5610	6030	7540	2950	2500
5	4500	2580	2900	2780	3410	3100	5770	5500	6040	7430	2950	2870
6	4530	2590	2910	2840	3160	3090	5720	4910	5940	7390	2910	2850
7	4540	2610	2930	2780	2980	3070	5740	4390	5610	7390	2900	2790
8	4570	2630	3110	2850	2980	3070	5700	4260	5790	7380	2870	2780
9	4590	2620	2950	2810	2980	3070	5670	4260	5810	7390	2820	2790
10	4560	2530	2940	2830	3000	3060	5700	4270	5880	7270	2780	2780
11	4510	2540	2970	2810	3000	3120	5710	4260	6070	6740	2740	2800
12	4480	2550	2980	2700	2990	3400	5810	4200	6640	6500	2700	2780
13	4430	2580	3000	2690	2990	3650	6200	4170	7050	6460	2640	2790
14	4440	2580	2990	2710	2970	4110	6170	4020	7120	6430	2600	2780
15	4480	2600	3010	2690	2970	4620	6170	3980	7130	6250	2560	2780
16	4330	2590	3000	2680	3000	4960	6140	4030	7150	5510	2520	2750
17	3900	2630	3010	2700	3210	4990	6130	3920	7170	4760	2500	2690
18	3760	2640	3040	2690	3360	5050	6160	3720	7160	4020	2440	2680
19	3230	2650	3030	2670	3360	5420	6140	3740	7100	3370	2410	2700
20	3240	2680	3050	2670	3390	5440	6150	3890	7090	2960	2370	2700
21	3280	2700	3050	2680	3560	5430	6120	3900	7100	2950	2510	2710
22	3280	2710	3070	2690	3520	5400	6110	3870	7210	2930	2840	2690
23	3290	2720	2920	2680	3520	5410	6100	3880	7240	2940	2780	2680
24	3320	2740	2890	2660	3480	5400	6080	4070	7210	2920	2730	2680
25	3330	2740	2890	2760	3520	5380	6070	4830	7210	2910	2690	2680
26	3260	2760	2910	2990	3510	5370	6070	5810	7220	2900	2660	2670
27	2940	2790	2910	2990	3510	5340	6060	5560	7200	2900	2610	2650
28	2970	2760	2830	2970	3500	5340	6040	6070	7250	2880	2640	2640
29	3000	2800	2730	2980	3520	5460	6050	6550	7230	2830	2610	2680
30	3000	2810	2730	2990	---	5810	5940	6530	7240	2760	2570	2670
31	3020	---	2750	3060	---	5790	---	6550	---	2810	2560	---
TOTAL	120730	79850	90910	86410	95120	136480	178790	147630	202390	158440	83810	80950
MEAN	3895	2662	2933	2787	3280	4403	5960	4762	6746	5111	2704	2698
MAX	4590	3030	3110	3060	3560	5810	6200	6550	7250	7540	3000	2870
MIN	2940	2530	2730	2660	2970	3060	5670	3720	5610	2760	2370	2390
AC-FT	239500	158400	180300	171400	188700	270700	354600	292800	401400	314300	166200	160600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1996, BY WATER YEAR (WY)

	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
MEAN	2952	2936	2739	2577	2626	2884	2842	3868	7299	5643	2798	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	1966	1966	1966

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1935 - 1996
ANNUAL TOTAL	1411560	1461510	--
ANNUAL MEAN	3867	3993	3490
HIGHEST ANNUAL MEAN	--	--	5059
LOWEST ANNUAL MEAN	--	--	1565
HIGHEST DAILY MEAN	14500	Jul 16	7540 Jul 4
LOWEST DAILY MEAN	1640	Mar 9	2370 Aug 20
ANNUAL SEVEN-DAY MINIMUM	1650	Mar 9	2470 Aug 15
INSTANTANEOUS PEAK FLOW	--	--	7820 Jul 3
INSTANTANEOUS LOW FLOW	--	--	49
ANNUAL RUNOFF (AC-FT)	2800000	2899000	2529000
10 PERCENT EXCEEDS	7810	6470	5790
50 PERCENT EXCEEDS	2940	3080	2850
90 PERCENT EXCEEDS	1660	2650	1560

06287000 BIGHORN RIVER NEAR ST. XAVIER, MT--Continued

SUMMARY STATISTICS

WATER YEARS 1935 - 1961*

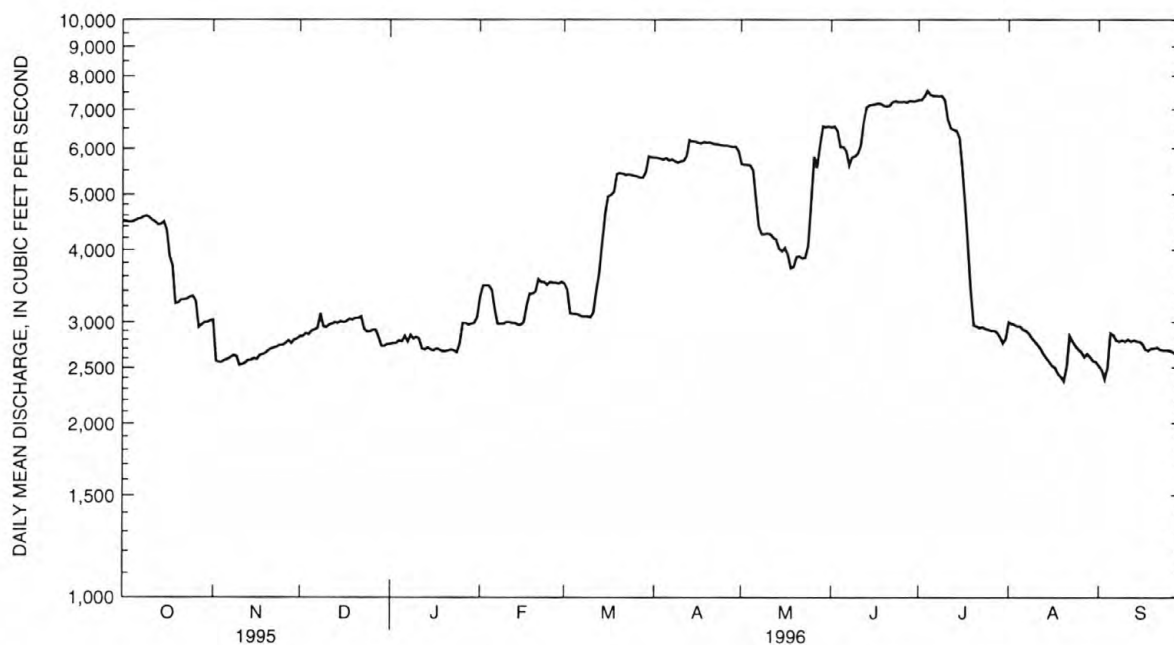
WATER YEARS 1967 - 1996**

ANNUAL MEAN	3426		3529	
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	112 ^a	Apr 2 1967
ANNUAL RUNOFF (AC-FT)	2482000		2557000	
10 PERCENT EXCEEDS	6440		5500	
50 PERCENT EXCEEDS	2450		3170	
90 PERCENT EXCEEDS	1370		1860	

* Prior to construction of Yellowtail Dam.

** After completion of Yellowtail Dam.

a Result of discharge measurement (dam closure).



06287000 BIGHORN RIVER NEAR ST. XAVIER, MT

YELLOWSTONE RIVER BASIN

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT

LOCATION.--Lat 45°00'25", long 107°36'52", in SW¹/₄NW¹/₄ 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 sea level, from topographic map.

REMARKS.--Water-discharge records good except those for estimated discharges, which are poor. Diversions for irrigation of 163 acres upstream from station. Station operated and record provided by Montana District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	86	87	77	e45	79	66	96	420	294	143	111
2	110	74	88	75	e50	83	69	97	429	282	143	110
3	110	83	80	78	e55	75	69	97	499	272	140	109
4	113	96	87	69	e65	71	67	96	623	263	139	107
5	105	98	73	e50	e75	64	65	93	790	254	137	107
6	104	99	77	e60	86	62	69	95	783	246	151	106
7	108	94	81	81	86	61	78	99	736	236	144	105
8	106	95	e55	80	80	65	99	110	832	229	137	102
9	105	96	e50	77	77	72	124	117	899	222	132	101
10	103	89	77	76	74	70	130	120	939	216	131	100
11	104	89	90	75	69	71	125	126	929	211	129	100
12	108	91	89	75	71	71	111	160	911	205	127	100
13	102	90	87	75	70	71	104	220	826	201	126	100
14	101	91	83	75	70	67	96	305	772	197	126	101
15	101	90	82	74	69	69	92	379	740	191	126	103
16	101	89	82	e74	69	71	98	492	706	188	123	102
17	101	89	80	e50	69	69	106	585	648	185	122	106
18	103	89	76	e40	69	68	101	578	599	180	123	102
19	100	90	73	70	69	66	102	505	531	176	122	101
20	98	81	77	75	69	66	96	419	482	172	119	99
21	104	86	80	76	69	67	95	385	459	169	118	98
22	97	90	71	71	70	67	91	379	451	166	117	98
23	91	87	76	67	68	69	89	389	436	163	116	95
24	100	87	81	e60	68	57	107	351	396	160	114	94
25	102	88	78	e60	67	e50	110	328	380	159	113	99
26	104	91	77	e58	53	e65	104	339	363	157	113	97
27	101	87	75	e56	45	70	101	335	357	153	113	96
28	95	83	74	e50	e40	68	99	334	354	151	112	101
29	102	88	76	e40	e55	67	96	356	331	148	118	99
30	98	87	79	e35	---	66	96	414	308	149	114	96
31	93	---	77	e40	---	65	---	427	---	147	112	---
TOTAL	3187	2673	2418	2019	1922	2102	2855	8826	17929	6142	3900	3045
MEAN	103	89.1	78.0	65.1	66.3	67.8	95.2	285	598	198	126	101
MAX	117	99	90	81	86	83	130	585	939	294	151	111
MIN	91	74	50	35	40	50	65	93	308	147	112	94
AC-FT	6320	5300	4800	4000	3810	4170	5660	17510	35560	12180	7740	6040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

	MEAN	87.0	75.9	68.1	62.9	61.6	61.8	85.8	325	528	224	124	99.0
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	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	1961

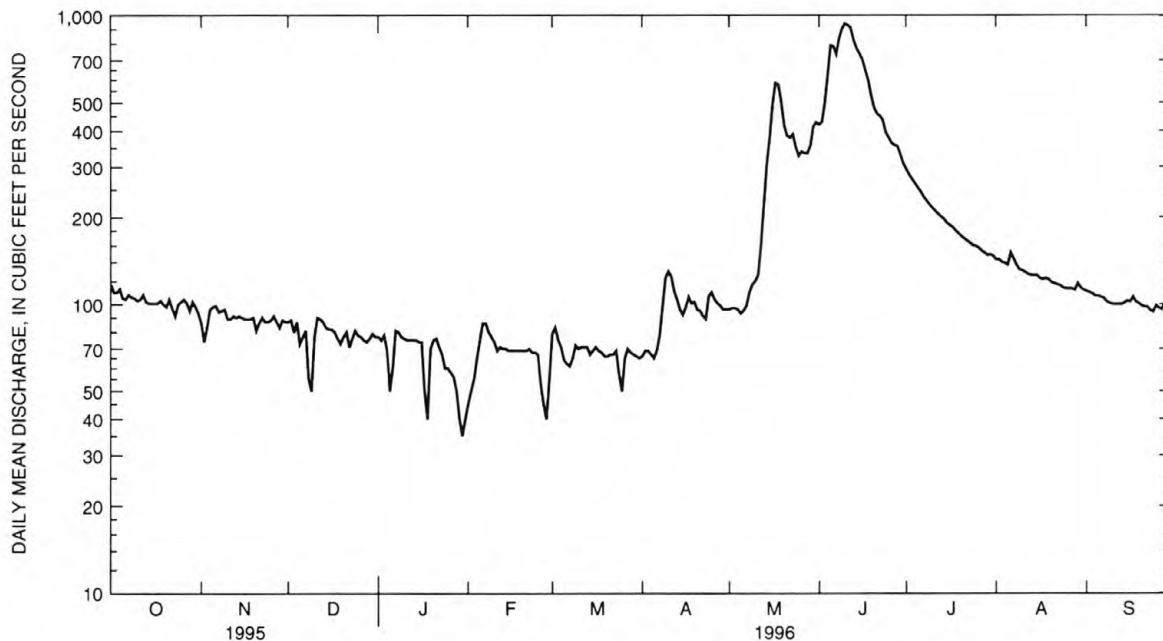
06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	65547		57018		--	
ANNUAL MEAN	180		156		150	
HIGHEST ANNUAL MEAN	--		--		253	
LOWEST ANNUAL MEAN	--		--		90.3	
HIGHEST DAILY MEAN	1260	Jun 16	939	Jun 10	2340	Jun 4 1944
LOWEST DAILY MEAN	27	Feb 11	35	Jan 30	18	Feb 2 1989
ANNUAL SEVEN-DAY MINIMUM	43	Feb 9	45	Jan 28	27	Dec 18 1983
INSTANTANEOUS PEAK FLOW	--	--	1100	Jun 11	2730 ^A	Jun 3 1944
INSTANTANEOUS PEAK STAGE	--	--	3.55	Jun 11	b5.93	Jun 9 1944
INSTANTANEOUS LOW FLOW	--	--	34	Mar 25	18	Feb 2 1989
ANNUAL RUNOFF (AC-FT)	130000		113100		109000	
10 PERCENT EXCEEDS	425		368		340	
50 PERCENT EXCEEDS	93		98		84	
90 PERCENT EXCEEDS	59		67		56	

a--Gage height, 4.87 ft, from rating curve extended above 1,400 ft³/s.

b--Log jam.

e--Estimated.



06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT

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 1995 TO SEPTEMBER 1996

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 28...	0945	78	349	-4.0	2.0	K3	K2	8.3
JAN 16...	0930	70	379	4.0	3.0	K12	K10	8.2
MAR 19...	0945	69	350	-3.0	0.5	K4	K1	8.2
APR 23...	0940	94	376	12.0	4.5	K3	K6	8.5
JUN 19...	1030	528	303	18.5	7.5	K6	K24	8.9
JUL 23...	0955	160	457	23.0	9.0	K15	24	8.8
AUG 28...	0945	112	343	24.0	10.0	K7	40	8.8

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, DIS- SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 28...	<0.01	0.18	<0.02	<0.01	18	3.8
JAN 16...	<0.01	0.22	<0.02	<0.01	22	4.2
MAR 19...	<0.01	0.16	0.02	<0.01	32	6.0
APR 23...	<0.01	0.09	<0.02	0.02	37	9.4
JUN 19...	<0.01	0.16	0.02	<0.01	39	56
JUL 23...	<0.01	0.14	0.04	0.01	6	2.6
AUG 28...	<0.01	0.13	<0.02	<0.01	14	4.2

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) (00950)
NOV 28...	0945	190	48	17	1.3	0.0	0.6	188	8.3	0.4	0.1
JUN 19...	1030	160	44	12	0.90	0.0	0.6	155	4.0	0.2	0.1

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	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)	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)	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
NOV 28...	<0.001	6.1	195	0.27	41.2	36	<0.5	<1	<5	<3	<10
JUN 19...	--	5.3	161	0.22	229	23	<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)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 28...	<3	<10	<4	<1	<10	<10	<1	87	<6	<3
JUN 19...	5	<10	<4	<1	<10	<10	<1	59	<6	<3

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: Nov. 2, 3, 8-10, Dec. 7-11, 21-23, 27-29, Jan. 2-7, Jan. 17 to Feb. 7, Feb. 26 to Mar. 2, and Mar. 7-9, 25. 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)
May 26	1100	83	1.88
June 15	2000	*99	*2.05

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.7	9.6	8.8	6.7	6.8	12	19	37	17	11	8.6
2	11	7.0	10	8.0	6.2	7.4	12	19	35	16	11	8.6
3	11	7.5	9.8	7.6	5.8	8.2	13	20	36	16	11	8.6
4	11	8.9	9.9	7.4	7.2	8.2	11	20	38	16	11	8.5
5	11	9.4	8.5	6.7	8.5	7.8	12	19	41	15	11	8.3
6	10	10	8.5	7.4	11	8.2	14	18	40	15	12	8.6
7	10	9.9	8.2	8.6	12	7.2	14	18	36	14	11	8.6
8	11	9.2	7.4	9.7	9.5	7.0	15	19	36	14	11	8.4
9	10	8.7	7.7	9.3	9.1	7.4	17	20	35	14	11	8.4
10	9.9	8.7	8.4	8.9	8.2	9.1	19	20	34	14	11	8.3
11	9.6	9.4	8.8	8.6	8.0	12	20	19	33	13	11	8.2
12	10	10	9.1	8.8	8.4	11	19	20	31	13	11	8.3
13	9.9	9.9	9.5	10	8.5	11	20	24	29	13	11	8.1
14	9.8	9.8	9.5	9.1	8.3	10	19	32	28	13	10	8.1
15	9.4	9.8	9.5	9.4	8.2	11	18	37	36	13	10	8.4
16	9.3	9.6	9.9	9.4	8.2	10	18	39	29	13	10	8.7
17	9.4	9.7	9.9	7.9	8.2	10	18	43	27	13	10	9.2
18	9.5	9.8	8.9	7.0	8.2	9.4	18	45	26	13	10	8.7
19	9.5	9.8	9.5	8.2	8.2	9.4	19	42	24	12	10	8.6
20	9.5	9.5	9.0	8.6	8.2	10	18	37	23	12	10	8.5
21	9.3	9.4	8.6	8.2	8.2	11	19	34	22	12	9.6	8.0
22	9.8	9.2	8.2	8.3	8.4	10	18	33	22	12	9.5	7.9
23	9.6	9.2	8.0	6.7	7.7	9.9	17	48	22	12	9.3	8.0
24	9.6	9.2	9.5	7.4	8.3	8.7	18	40	21	12	9.1	8.0
25	9.7	9.2	9.2	8.0	8.4	8.1	18	38	20	12	9.2	8.7
26	9.8	9.8	9.2	7.9	6.4	8.6	19	49	19	12	9.2	8.6
27	9.6	9.5	9.2	7.2	6.1	9.3	18	40	18	12	9.1	8.4
28	9.5	9.3	9.0	7.0	5.8	9.4	19	39	18	11	9.1	8.2
29	9.9	10	9.2	6.4	5.6	9.5	18	37	17	11	9.7	8.0
30	9.7	9.8	8.9	7.0	---	9.6	18	37	17	11	9.6	8.0
31	9.3	---	8.9	7.5	---	10	---	38	---	11	9.1	---
TOTAL	308.6	278.9	279.5	251.0	231.5	285.2	508	963	850	407	316.5	251.5
MEAN	9.95	9.30	9.02	8.10	7.98	9.20	16.9	31.1	28.3	13.1	10.2	8.38
MAX	12	10	10	10	12	12	20	49	41	17	12	9.2
MIN	9.3	7.0	7.4	6.4	5.6	6.8	11	18	17	11	9.1	7.9
AC-FT	612	553	554	498	459	566	1010	1910	1690	807	628	499

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1996, BY WATER YEAR (WY)

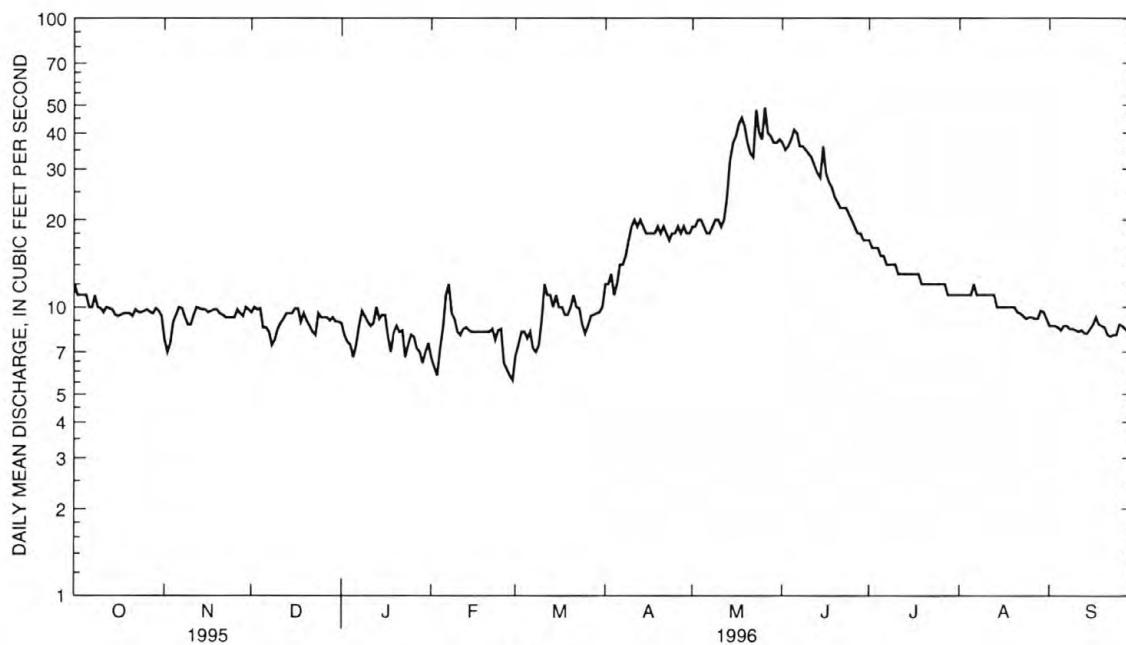
	7.66	7.44	6.62	6.34	6.15	7.46	13.4	33.9	25.6	13.5	8.92	7.82
MEAN	7.66	7.44	6.62	6.34	6.15	7.46	13.4	33.9	25.6	13.5	8.92	7.82
MAX	9.95	9.30	9.02	8.10	7.98	9.97	25.2	79.9	60.6	26.9	14.9	11.6
(WY)	1996	1996	1996	1996	1996	1984	1994	1995	1995	1995	1995	1995
MIN	5.76	6.34	4.92	4.25	4.02	5.64	9.14	13.0	7.82	5.21	5.07	5.09
(WY)	1990	1990	1991	1988	1989	1991	1992	1985	1985	1985	1985	1989

06289600 WEST PASS CREEK NEAR PARKMAN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1983 - 1996	
ANNUAL TOTAL	7830.3		4930.7		--	
ANNUAL MEAN	21.5		13.5		13.0	
HIGHEST ANNUAL MEAN	--		--		21.2	1995
LOWEST ANNUAL MEAN	--		--		7.76	1989
HIGHEST DAILY MEAN	291	May 9	49	May 26	291	May 9 1995
LOWEST DAILY MEAN	3.5	Jan 5	5.6	Feb 29	.02 ^a	Jan 7 1988
ANNUAL SEVEN-DAY MINIMUM	3.9	Jan 2	6.6	Feb 26	.81	Feb 3 1989
INSTANTANEOUS PEAK FLOW	--		99	Jun 15	340	May 9 1995
INSTANTANEOUS PEAK STAGE	--		2.05	Jun 15	4.76 ^b	Apr 28 1984
ANNUAL RUNOFF (AC-FT)	15530		9780		9390	
10 PERCENT EXCEEDS	60		25		24	
50 PERCENT EXCEEDS	10		9.8		8.1	
90 PERCENT EXCEEDS	7.3		8.0		5.7	

a Result of channel blockage or diversion upstream.

b Backwater from ice, site and datum then in use.



06289600 WEST PASS CREEK NEAR PARKMAN, WY

06289820 EAST PASS CREEK NEAR DAYTON, WY

LOCATION.--Lat 44°59'26", long 107°25'20", in NE¹/₄ SE¹/₄ NE¹/₄ sec.24, T.58 N., R.88 W., Sheridan County, Hydrologic Unit 10080016, on right bank 0.4 mi downstream from bridge on Sheridan County Road 144, 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 4,405 ft above sea level, from topographic map. October 1982 to August 1995 at site 270 ft upstream at different datum. August 1995 to April 1996 at site 0.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 1-3, 7, 11, 12, 19, 26-29, Dec. 2, 5-13, 18-20, 22-24, 27-29, Dec. 31 to Jan. 8, Jan. 18 to Feb. 8, Feb. 11, 16, 19, 22, Feb. 24 to Mar. 10, and Mar. 13-19, 21, 23-28. Records fair except 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)
Feb. 6	2400	ice jam	*9.00 ^a
Apr. 11	0800	46	7.88 ^a
May 18	0600	59	6.16
June 15	1930	*84	6.32

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	8.9	7.4	8.8	7.9	15	21	51	19	7.9	5.3
2	14	12	8.0	6.6	8.0	9.0	16	22	48	19	7.8	6.1
3	15	13	8.7	7.6	8.8	10	16	22	50	19	7.7	6.6
4	16	14	9.0	7.1	10	11	17	22	54	18	7.9	6.3
5	15	14	9.0	6.4	11	9.5	16	21	63	18	7.7	6.3
6	14	14	9.0	7.5	12	10	17	21	61	17	8.5	6.6
7	14	13	8.6	8.8	13	8.7	19	21	56	17	8.2	6.6
8	15	12	7.7	11	15	9.5	23	21	56	16	7.6	6.5
9	14	15	8.7	12	16	12	31	22	58	16	7.4	6.4
10	13	14	10	12	14	14	33	21	57	16	7.4	6.4
11	13	14	11	10	14	16	42	21	55	15	7.2	6.4
12	14	15	12	11	13	16	34	21	52	15	7.1	6.8
13	13	14	13	14	13	15	31	24	48	15	7.0	7.8
14	12	13	14	14	12	14	28	36	45	15	7.1	5.5
15	12	13	13	13	12	15	24	43	48	14	7.1	5.7
16	11	13	14	14	11	15	23	46	46	14	6.9	5.8
17	12	11	13	12	11	16	24	52	41	12	6.9	7.5
18	15	11	12	11	11	16	24	57	37	12	7.2	8.7
19	13	10	10	12	10	16	25	54	34	12	7.3	7.3
20	13	9.6	12	13	11	15	24	45	31	11	7.1	5.7
21	15	9.4	14	14	10	15	25	38	28	11	6.9	6.2
22	17	9.0	12	12	9.4	14	22	36	28	11	6.8	6.2
23	13	8.7	10	12	8.4	13	21	48	28	11	6.7	6.1
24	15	8.5	11	11	8.3	12	23	51	25	11	6.7	7.0
25	14	8.3	13	10	7.2	11	25	49	24	10	6.8	9.4
26	14	8.2	11	11	7.9	12	25	57	23	9.2	6.8	9.4
27	14	7.7	9.6	10	7.4	13	24	58	22	8.8	6.6	9.5
28	14	7.4	8.6	9.1	7.2	14	24	57	22	8.2	6.5	9.4
29	14	8.0	8.6	8.4	7.0	15	22	52	21	8.1	7.0	8.9
30	14	8.5	7.8	8.7	---	15	21	51	20	8.5	6.9	8.7
31	14	---	7.8	9.3	---	15	---	53	---	8.2	6.2	---
TOTAL	431	341.3	325.0	325.9	307.4	404.6	714	1163	1232	415.0	222.9	211.1
MEAN	13.9	11.4	10.5	10.5	10.6	13.1	23.8	37.5	41.1	13.4	7.19	7.04
MAX	17	15	14	14	16	16	42	58	63	19	8.5	9.5
MIN	11	7.4	7.7	6.4	7.0	7.9	15	21	20	8.1	6.2	5.3
AC-FT	855	677	645	646	610	803	1420	2310	2440	823	442	419

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1996, BY WATER YEAR (WY)

MEAN	8.96	8.99	8.41	8.54	8.55	9.67	16.3	43.2	37.0	13.1	7.53	7.75
MAX	13.9	11.4	10.5	10.5	10.6	13.1	32.4	90.8	82.8	32.9	14.8	14.8
(WY)	1996	1996	1996	1996	1996	1996	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

06289820 EAST PASS CREEK NEAR DAYTON, WY--Continued

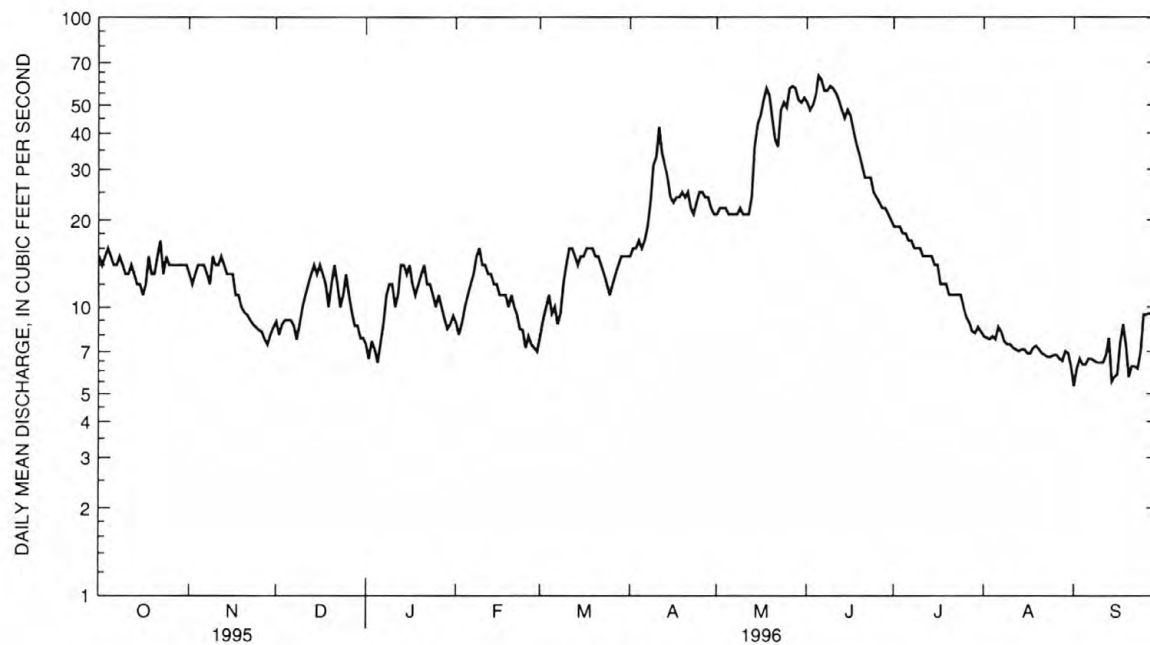
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1983 - 1996	
ANNUAL TOTAL	8833.0		6093.2		--	
ANNUAL MEAN	24.2		16.6		14.8	
HIGHEST ANNUAL MEAN					23.6	
LOWEST ANNUAL MEAN					8.57	
HIGHEST DAILY MEAN	304	May 9	63	Jun 5	304	May 9 1995
LOWEST DAILY MEAN	3.3	Aug 3	5.3	Sep 1	1.7	Aug 6 1988
ANNUAL SEVEN-DAY MINIMUM	3.7	Jul 28	6.2	Aug 31	2.1	Aug 5 1988
INSTANTANEOUS PEAK FLOW			84 ^b	Jun 15	511 ^c	May 9 1995
INSTANTANEOUS PEAK STAGE			9.00 ^{a, d}	Feb 6	9.00 ^{a, d}	Feb 6 1996
ANNUAL RUNOFF (AC-FT)	17520		12090		10760	
10 PERCENT EXCEEDS	73		36		28	
50 PERCENT EXCEEDS	13		13		9.3	
90 PERCENT EXCEEDS	7.6		7.0		6.1	

a Site and datum then in use.

b Gage height, 6.32 ft.

c From rating curve extended above 221 ft³/s.

d Ice jam.



06289820 EAST PASS CREEK NEAR DAYTON, WY

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.--No estimated daily discharges. Records good. 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 data collection platform with satellite telemetry 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)
May 16	2200	*1,590	*4.72
June 10	0200	1,300	4.40

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	70	74	59	68	67	62	117	645	344	122	66
2	103	44	75	57	70	61	67	118	631	329	117	67
3	102	55	48	61	73	58	69	117	715	313	111	65
4	112	73	57	53	74	57	62	115	874	300	109	64
5	99	85	39	50	72	54	54	108	1090	288	106	61
6	91	83	44	59	58	53	69	116	1010	278	119	64
7	110	80	54	70	55	53	85	128	903	264	128	63
8	105	86	34	65	55	56	114	158	1020	254	108	62
9	103	89	41	60	58	57	138	183	1100	245	100	61
10	101	77	80	59	52	60	158	199	1150	241	98	61
11	106	80	89	57	46	64	155	220	1110	222	94	61
12	113	75	86	58	51	65	134	296	1080	211	92	62
13	96	82	79	58	56	62	126	461	1050	205	91	63
14	96	83	70	57	57	57	118	630	972	200	89	64
15	104	83	66	57	54	57	109	782	959	191	91	73
16	99	83	67	57	52	62	123	988	963	185	90	68
17	97	79	65	45	53	57	145	1200	798	180	84	82
18	96	82	55	33	54	52	135	1110	740	172	83	92
19	91	82	49	62	52	51	137	866	646	163	82	91
20	81	52	56	68	52	56	120	689	571	157	79	91
21	102	58	64	62	51	61	121	635	544	153	75	86
22	83	84	57	58	53	62	112	629	550	150	74	86
23	55	81	61	60	46	63	108	682	621	147	71	85
24	79	79	64	60	46	42	145	594	492	142	71	83
25	88	80	62	60	53	44	156	564	461	139	70	92
26	96	80	60	63	45	60	147	614	436	139	70	88
27	88	70	57	62	41	60	138	588	422	134	67	78
28	70	63	56	61	42	59	129	568	419	132	69	108
29	93	74	56	64	61	62	117	596	414	128	76	111
30	88	71	58	68	---	60	125	706	370	129	79	108
31	81	---	60	68	---	57	---	720	---	130	72	---
TOTAL	2943	2263	1883	1831	1600	1789	3478	15497	22756	6265	2787	2306
MEAN	94.9	75.4	60.7	59.1	55.2	57.7	116	500	759	202	89.9	76.9
MAX	115	89	89	70	74	67	158	1200	1150	344	128	111
MIN	55	44	34	33	41	42	54	108	370	128	67	61
AC-FT	5840	4490	3730	3630	3170	3550	6900	30740	45140	12430	5530	4570
+	60	5.8	.00	.00	.00	.00	.00	387	1810	1900	1690	1010

ADJUSTED FOR DIVERSION BY HIGHLINE DITCH

MEAN	95.9	75.5	60.7	59.1	55.2	57.7	116	506	789	233	117	93.9
AC-FT	5900	4500	3730	3630	3170	3550	6900	31130	46950	14330	7220	5580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1996, BY WATER YEAR (WY)

MEAN	82.2	68.2	61.3	56.0	52.7	51.8	110	525	711	247	112	85.1
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

YELLOWSTONE RIVER BASIN

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06298000 TONGUE RIVER NEAR DAYTON, WY--Continued

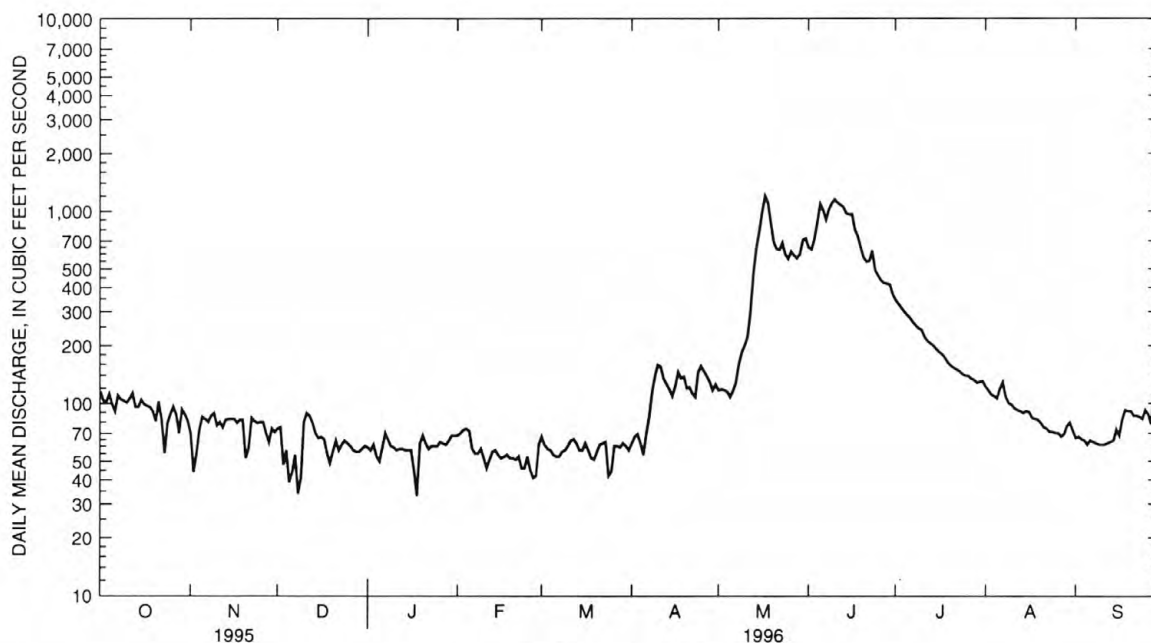
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR*		FOR 1996 WATER YEAR*		WATER YEARS 1919 - 1996*	
ANNUAL TOTAL	76967		65398		--	
ANNUAL MEAN	211		179		181	
HIGHEST ANNUAL MEAN	--		--		316	
LOWEST ANNUAL MEAN	--		--		98.4	
HIGHEST DAILY MEAN	1880	Jun 16	1200	May 17	2590	Jun 5 1968
LOWEST DAILY MEAN	26	Feb 11	33	Jan 18	18	Nov 29 1919
ANNUAL SEVEN-DAY MINIMUM	44	Feb 6	45	Dec 3	31	Nov 9 1940
INSTANTANEOUS PEAK FLOW	--		1590	May 16	3400	Jun 3 1944
INSTANTANEOUS PEAK STAGE	--		4.72	May 16	6.45	Jun 3 1944
ANNUAL RUNOFF (AC-FT)	152700		129700		131500	
10 PERCENT EXCEEDS	552		576		489	
50 PERCENT EXCEEDS	83		82		73	
90 PERCENT EXCEEDS	54		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)
1995 Calendar Year	79,670	222	158,100
1996 Water Year	68,860	188	136,600



06298000 TONGUE RIVER NEAR DAYTON, WY

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.--Estimated daily discharges: Apr. 1. Records good. 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:

Oct. 6 . . . 6.80

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the U.S. 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)
June 15	1830	*338	*3.12

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	7.0	20	162	49	17	8.9
2	---	---	---	---	---	---	7.0	19	162	46	16	8.6
3	---	---	---	---	---	---	7.8	19	172	44	15	8.3
4	---	---	---	---	---	---	7.0	19	188	41	14	8.3
5	---	---	---	---	---	---	6.6	19	207	40	14	8.3
6	---	---	---	---	---	---	8.1	19	187	39	15	8.3
7	---	---	---	---	---	---	14	20	187	36	18	8.1
8	---	---	---	---	---	---	20	25	198	35	14	7.8
9	---	---	---	---	---	---	27	27	210	33	13	7.5
10	---	---	---	---	---	---	26	25	204	32	13	7.5
11	---	---	---	---	---	---	23	26	196	32	12	7.5
12	---	---	---	---	---	---	20	32	192	30	12	7.4
13	---	---	---	---	---	---	19	44	175	29	11	7.2
14	---	---	---	---	---	---	16	65	157	29	11	7.5
15	---	---	---	---	---	---	16	91	174	27	12	9.2
16	---	---	---	---	---	---	18	117	175	26	11	8.3
17	---	---	---	---	---	---	19	157	149	25	11	8.6
18	---	---	---	---	---	---	19	172	133	24	11	9.2
19	---	---	---	---	---	---	19	164	115	23	11	8.9
20	---	---	---	---	---	---	17	147	101	22	11	8.3
21	---	---	---	---	---	---	18	139	94	21	9.9	8.1
22	---	---	---	---	---	---	16	137	93	21	9.9	8.1
23	---	---	---	---	---	---	16	153	101	20	9.6	8.5
24	---	---	---	---	---	---	23	149	79	20	9.4	8.3
25	---	---	---	---	---	---	23	151	71	20	9.2	9.2
26	---	---	---	---	---	---	23	162	64	19	9.2	9.4
27	---	---	---	---	---	---	21	166	60	19	8.9	8.9
28	---	---	---	---	---	---	21	162	60	18	8.8	11
29	---	---	---	---	---	---	20	162	59	17	9.9	12
30	---	---	---	---	---	---	20	166	52	18	11	12
31	---	---	---	---	---	---	---	170	---	20	9.7	---
TOTAL	---	---	---	---	---	---	517.5	2944	4177	875	367.5	259.2
MEAN	---	---	---	---	---	---	17.2	95.0	139	28.2	11.9	8.64
MAX	---	---	---	---	---	---	27	172	210	49	18	12
MIN	---	---	---	---	---	---	6.6	19	52	17	8.8	7.2
AC-FT	---	---	---	---	---	---	1030	5840	8290	1740	729	514

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

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

06299500 WOLF CREEK AT WOLF, WY--Continued

SUMMARY STATISTICS

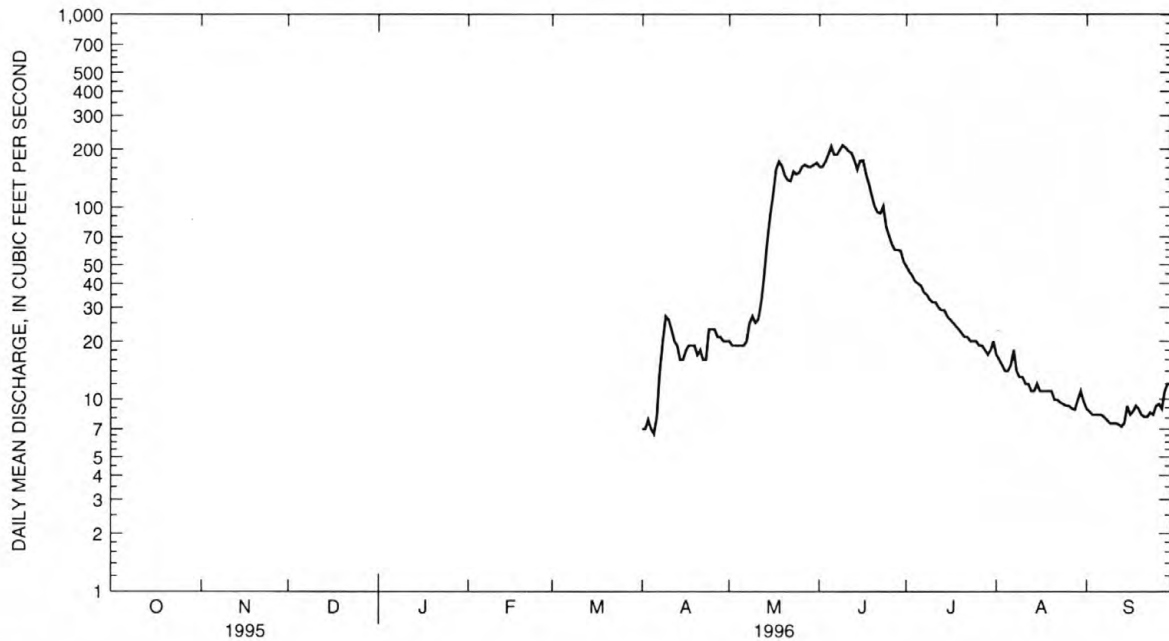
FOR 1996 WATER YEAR*

WATER YEARS 1946 - 1971

ANNUAL MEAN	--		29.3	
HIGHEST ANNUAL MEAN	--		45.0	1964
LOWEST ANNUAL MEAN	--		13.8	1960
HIGHEST DAILY MEAN	210	Jun 9	601	Jun 9 1964#
LOWEST DAILY MEAN	6.6	Apr 5	1.8	Feb 26 1947#
ANNUAL SEVEN-DAY MINIMUM	--		2.5	Jan 24 1957
INSTANTANEOUS PEAK FLOW	338	Jun 15	1130 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	3.12	Jun 15	4.60	Jun 15 1963#
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 1996.

a From rating curve extended above 500 ft³/s.

06299500 WOLF CREEK AT WOLF, WY

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: May 1-7. 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 when station was not in operation, is given below:

Oct. 2 . . . 11.5

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	6.0	93	86	20	7.8
2	---	---	---	---	---	---	---	6.0	92	85	18	7.2
3	---	---	---	---	---	---	---	6.0	134	87	17	6.8
4	---	---	---	---	---	---	---	5.8	217	84	16	6.4
5	---	---	---	---	---	---	---	5.2	322	81	15	5.9
6	---	---	---	---	---	---	---	5.6	261	77	18	5.5
7	---	---	---	---	---	---	---	6.0	237	67	21	5.4
8	---	---	---	---	---	---	---	7.4	348	57	17	5.2
9	---	---	---	---	---	---	---	8.9	425	52	15	5.0
10	---	---	---	---	---	---	---	11	406	50	14	4.9
11	---	---	---	---	---	---	---	12	362	51	13	4.9
12	---	---	---	---	---	---	---	15	350	47	12	4.9
13	---	---	---	---	---	---	---	20	359	42	12	5.2
14	---	---	---	---	---	---	---	36	311	39	11	5.8
15	---	---	---	---	---	---	---	80	294	36	13	6.8
16	---	---	---	---	---	---	---	182	336	33	15	6.2
17	---	---	---	---	---	---	---	266	270	34	13	6.8
18	---	---	---	---	---	---	---	191	234	32	13	7.6
19	---	---	---	---	---	---	---	116	164	31	13	9.0
20	---	---	---	---	---	---	---	81	126	30	11	8.7
21	---	---	---	---	---	---	---	70	136	27	10	8.1
22	---	---	---	---	---	---	---	67	162	26	9.9	8.5
23	---	---	---	---	---	---	---	63	175	25	9.2	8.1
24	---	---	---	---	---	---	---	58	137	23	8.9	7.4
25	---	---	---	---	---	---	---	50	145	22	8.7	8.1
26	---	---	---	---	---	---	---	47	141	21	8.3	8.7
27	---	---	---	---	---	---	---	47	170	21	8.1	8.7
28	---	---	---	---	---	---	---	44	158	22	7.8	9.5
29	---	---	---	---	---	---	---	59	116	21	9.0	10
30	---	---	---	---	---	---	---	109	94	23	9.2	12
31	---	---	---	---	---	---	---	130	---	23	8.6	---
TOTAL	---	---	---	---	---	---	---	1810.9	6775	1355	394.7	215.1
MEAN	---	---	---	---	---	---	---	58.4	226	43.7	12.7	7.17
MAX	---	---	---	---	---	---	---	266	425	87	21	12
MIN	---	---	---	---	---	---	---	5.2	92	21	7.8	4.9
AC-FT	---	---	---	---	---	---	---	3590	13440	2690	783	427

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1973, BY WATER YEAR (WY)

	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	1958	1963	1964	1968	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	

06300500 EAST FORK BIG GOOSE CREEK NEAR BIG HORN, WY--Continued

SUMMARY STATISTICS

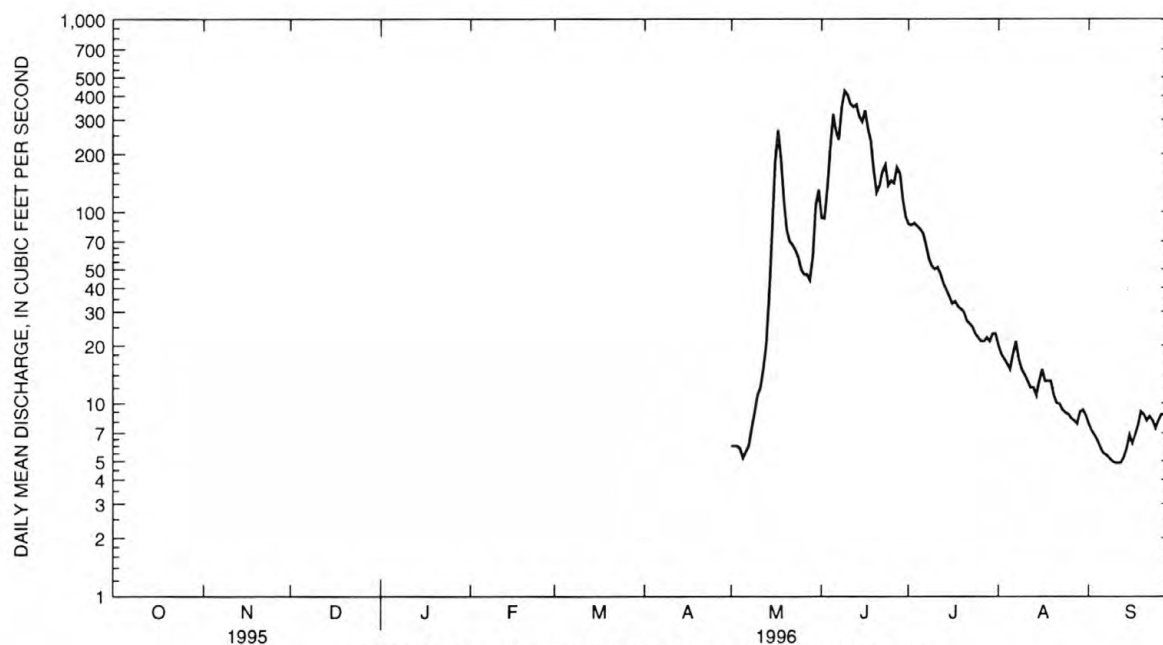
FOR 1996 WATER YEAR*

WATER YEARS 1954 - 1973

ANNUAL MEAN	--		32.6	
HIGHEST ANNUAL MEAN	--		41.8	1963
LOWEST ANNUAL MEAN	--		21.4	1966
HIGHEST DAILY MEAN	425	Jun 9	775	Jun 15 1963#
LOWEST DAILY MEAN	4.9	Sep 10-12	1.0	Dec 11-14 1963, Mar 24,25, Nov 14,15 1964, Mar 18 1971#
ANNUAL SEVEN-DAY MINIMUM	--		1.1	Mar 12 1971
INSTANTANEOUS PEAK FLOW	580	Jun 9	1230 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	5.7	Jun 9	4.59 ^b	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 1996.

^a From rating curve extended above 250 ft³/s on basis of slope-measurement of peak flow.^b Site and datum then in use.

06300500 EAST FORK BIG GOOSE CREEK, NEAR BIG HORN, WY

06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY

LOCATION.--Lat 44°36'05", long 107°19'01", unsurveyed, Sheridan County, Hydrologic Unit 10090101, Bighorn National Forest, 0.2 mi upstream from Twin Lakes, and 17.0 mi southwest of Big Horn.

DRAINAGE AREA.--3.41 mi².

PERIOD OF RECORD.--October 1990 to current year (no winter record since 1993).

GAGE.--water-stage recorder. Elevation of gage is 8,690 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges (1994 water year): May 1-9. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station. Results of discharge measurements, in cubic feet per second, made when station was not in operation, are given below:

Oct. 1 . . . 0.51
Nov. 2 . . . 0.35

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.54	16	2.7	.82	.28
2	---	---	---	---	---	---	---	.47	14	2.4	1.0	.28
3	---	---	---	---	---	---	---	.45	12	2.2	1.1	.36
4	---	---	---	---	---	---	---	.50	11	1.9	1.3	.35
5	---	---	---	---	---	---	---	.68	11	1.8	1.3	.34
6	---	---	---	---	---	---	---	1.8	9.8	2.0	1.2	.31
7	---	---	---	---	---	---	---	2.8	9.2	4.5	1.1	.29
8	---	---	---	---	---	---	---	7.4	9.3	5.4	.96	.27
9	---	---	---	---	---	---	---	22	8.8	4.4	.84	.24
10	---	---	---	---	---	---	---	37	8.1	3.5	.79	.22
11	---	---	---	---	---	---	---	42	6.9	2.7	.99	.23
12	---	---	---	---	---	---	---	46	6.5	2.3	1.3	.21
13	---	---	---	---	---	---	---	63	6.5	2.2	1.3	.21
14	---	---	---	---	---	---	---	44	15	2.0	1.3	.27
15	---	---	---	---	---	---	---	31	17	1.8	1.3	.52
16	---	---	---	---	---	---	---	42	13	2.2	1.2	.58
17	---	---	---	---	---	---	---	44	11	2.1	1.1	.71
18	---	---	---	---	---	---	---	33	9.0	1.8	.96	.78
19	---	---	---	---	---	---	---	31	8.0	1.7	.83	.83
20	---	---	---	---	---	---	---	43	7.6	1.5	.73	.94
21	---	---	---	---	---	---	---	30	7.4	1.4	.65	1.2
22	---	---	---	---	---	---	---	22	7.9	1.3	.57	1.2
23	---	---	---	---	---	---	---	22	8.4	1.1	.48	1.1
24	---	---	---	---	---	---	---	22	7.2	1.1	.41	1.1
25	---	---	---	---	---	---	---	21	6.0	1.2	.36	.96
26	---	---	---	---	---	---	---	18	5.2	1.2	.32	.87
27	---	---	---	---	---	---	---	19	4.3	1.1	.27	.79
28	---	---	---	---	---	---	---	22	3.9	.99	.25	.72
29	---	---	---	---	---	---	---	20	3.5	.90	.23	.66
30	---	---	---	---	---	---	---	17	3.1	.82	.24	.62
31	---	---	---	---	---	---	---	17	---	.77	.28	---
TOTAL	---	---	---	---	---	---	---	722.64	266.6	62.98	25.48	17.44
MEAN	---	---	---	---	---	---	---	23.3	8.89	2.03	.82	.58
MAX	---	---	---	---	---	---	---	63	17	5.4	1.3	1.2
MIN	---	---	---	---	---	---	---	.45	3.1	.77	.23	.21
AC-FT	---	---	---	---	---	---	---	1430	529	125	51	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1993, BY WATER YEAR (WY)

	MEAN	.58	.52	.29	.17	.15	.16	.73	24.1	25.6	8.67	2.16	.90
MAX	.71	.61	.36	.22	.20	.21	1.59	27.4	32.2	11.4	3.50	1.00	
(WY)	1993	1993	1993	1992	1992	1992	1992	1992	1991	1992	1993	1993	
MIN	.52	.47	.17	.13	.10	.12	.27	18.2	19.7	3.80	1.08	.82	
(WY)	1992	1991	1991	1991	1993	1991	1991	1991	1993	1991	1991	1992	

SUMMARY STATISTICS

FOR 1994 WATER YEAR*

WATER YEARS 1991 - 1993

ANNUAL MEAN	---		5.35	
HIGHEST ANNUAL MEAN	---		5.84	1992
LOWEST ANNUAL MEAN	---		4.83	1991
HIGHEST DAILY MEAN	63	May 13	84	May 21 1992
LOWEST DAILY MEAN	.21	Sep 12, 13	.08	Dec 22 1990, Feb 16, 17 1993
ANNUAL SEVEN-DAY MINIMUM	---		.09	Feb 12 1993
INSTANTANEOUS PEAK FLOW	64	May 13	104	May 21 1992
INSTANTANEOUS PEAK STAGE	3.57	May 13	5.05 ^a	May 14 1991
ANNUAL RUNOFF (AC-FT)	---		3880	
10 PERCENT EXCEEDS	---		20	
50 PERCENT EXCEEDS	---		.55	
90 PERCENT EXCEEDS	---		.12	

* During period of operation.

^a Backwater from ice/snow.

06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY--Continued

REMARKS.--Estimated daily discharges(1995 water year): May 8-10, 13, 14. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station. Results of discharge measurements, in cubic feet per second, made when station was not in operation, are give below:

Oct. 27 . . . 1.42
Apr. 27 . . . 0.27

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	---	---	---	---	---	---	---	.35	11	22	2.9	.27
2	---	---	---	---	---	---	---	.32	24	24	2.5	.24
3	---	---	---	---	---	---	---	.32	39	34	2.2	.22
4	---	---	---	---	---	---	---	.30	51	31	2.2	.22
5	---	---	---	---	---	---	---	.31	68	25	2.1	.25
6	---	---	---	---	---	---	---	.33	92	24	2.1	.23
7	---	---	---	---	---	---	---	.40	64	29	1.8	.24
8	---	---	---	---	---	---	---	.50	36	27	1.6	.30
9	---	---	---	---	---	---	---	.80	24	23	1.4	.43
10	---	---	---	---	---	---	---	1.0	17	20	1.4	.44
11	---	---	---	---	---	---	---	1.4	16	20	1.3	.43
12	---	---	---	---	---	---	---	1.6	31	19	1.3	.41
13	---	---	---	---	---	---	---	1.8	83	16	1.1	.40
14	---	---	---	---	---	---	---	2.5	99	13	1.0	.38
15	---	---	---	---	---	---	---	3.6	104	12	.92	.36
16	---	---	---	---	---	---	---	4.5	105	10	.85	.31
17	---	---	---	---	---	---	---	6.0	85	8.9	.75	.28
18	---	---	---	---	---	---	---	7.3	68	8.1	.75	.28
19	---	---	---	---	---	---	---	11	53	7.7	.73	.30
20	---	---	---	---	---	---	---	22	55	8.5	.69	.39
21	---	---	---	---	---	---	---	49	59	8.1	.64	.45
22	---	---	---	---	---	---	---	46	56	7.9	.62	.43
23	---	---	---	---	---	---	---	38	41	7.0	.58	.41
24	---	---	---	---	---	---	---	23	32	5.9	.54	.43
25	---	---	---	---	---	---	---	12	32	5.2	.52	.47
26	---	---	---	---	---	---	---	7.1	38	4.5	.50	.46
27	---	---	---	---	---	---	---	5.5	44	4.0	.45	.47
28	---	---	---	---	---	---	---	5.1	46	3.7	.42	.43
29	---	---	---	---	---	---	---	4.1	31	3.4	.38	.50
30	---	---	---	---	---	---	---	4.3	22	3.0	.33	.96
31	---	---	---	---	---	---	---	5.7	---	3.1	.30	---
TOTAL	---	---	---	---	---	---	---	266.13	1526	438.0	34.87	11.39
MEAN	---	---	---	---	---	---	---	8.58	50.9	14.1	1.12	.38
MAX	---	---	---	---	---	---	---	49	105	34	2.9	.96
MIN	---	---	---	---	---	---	---	.30	11	3.0	.30	.22
AC-FT	---	---	---	---	---	---	---	528	3030	869	69	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1993, BY WATER YEAR (WY)

	MEAN	.58	.52	.29	.17	.15	.16	.73	24.1	25.6	8.67	2.16	.90
MAX	.71	.61	.36	.22	.20	.21	1.59	27.4	32.2	11.4	3.50	1.00	
(WY)	1993	1993	1993	1992	1992	1992	1992	1992	1991	1992	1993	1993	
MIN	.52	.47	.17	.13	.10	.12	.27	18.2	19.7	3.08	1.08	.82	
(WY)	1992	1991	1991	1991	1993	1991	1991	1991	1993	1991	1991	1992	

SUMMARY STATISTICS

FOR 1995 WATER YEAR*

WATER YEARS 1991 - 1993

ANNUAL MEAN	--		5.35	
HIGHEST ANNUAL MEAN	--		5.84	1992
LOWEST ANNUAL MEAN	--		4.83	1991
HIGHEST DAILY MEAN	105	Jun 16	105	Jun 16 1995#
LOWEST DAILY MEAN	.22	Sep 3,4	.08	Dec 22 1990, Feb 16,17 1993#
ANNUAL SEVEN-DAY MINIMUM	--		.09	Feb 12 1993
INSTANTANEOUS PEAK FLOW	135	Jun 15	135	Jun 15 1995#
INSTANTANEOUS PEAK STAGE	4.35	Jun 15	5.05 ^a	May 14 1991#
ANNUAL RUNOFF (AC-FT)	--		3880	
10 PERCENT EXCEEDS	--		20	
50 PERCENT EXCEEDS	--		.55	
90 PERCENT EXCEEDS	--		.12	

* During period of operation.

For period of record through 1995.

a Backwater from ice/snow.

06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY--Continued

REMARKS---Estimated daily discharges (1996 water year): May 1-6. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Oct. 18 . . . 0.87

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.73	22	11	1.4	.20
2	---	---	---	---	---	---	---	.72	22	11	1.4	.16
3	---	---	---	---	---	---	---	.70	31	10	1.2	.13
4	---	---	---	---	---	---	---	.68	53	10	1.0	.11
5	---	---	---	---	---	---	---	.66	76	9.9	.95	.08
6	---	---	---	---	---	---	---	.66	60	9.5	.91	.06
7	---	---	---	---	---	---	---	.66	47	8.8	1.1	.05
8	---	---	---	---	---	---	---	.64	71	7.5	1.0	.04
9	---	---	---	---	---	---	---	.75	87	6.5	.99	.04
10	---	---	---	---	---	---	---	.76	77	5.7	.92	.03
11	---	---	---	---	---	---	---	.84	69	5.5	.84	.04
12	---	---	---	---	---	---	---	1.6	67	5.5	.71	.04
13	---	---	---	---	---	---	---	2.8	62	5.2	.64	.04
14	---	---	---	---	---	---	---	4.8	53	4.8	.60	.07
15	---	---	---	---	---	---	---	11	47	4.3	.60	.11
16	---	---	---	---	---	---	---	36	51	3.8	.62	.11
17	---	---	---	---	---	---	---	52	42	3.3	.62	.14
18	---	---	---	---	---	---	---	43	37	3.2	.61	.15
19	---	---	---	---	---	---	---	27	25	3.1	.62	.18
20	---	---	---	---	---	---	---	19	19	2.8	.54	.18
21	---	---	---	---	---	---	---	15	17	2.5	.47	.18
22	---	---	---	---	---	---	---	16	17	2.3	.43	.22
23	---	---	---	---	---	---	---	15	24	2.1	.38	.23
24	---	---	---	---	---	---	---	13	19	1.9	.34	.23
25	---	---	---	---	---	---	---	11	17	1.9	.31	.32
26	---	---	---	---	---	---	---	11	17	1.7	.27	.37
27	---	---	---	---	---	---	---	11	17	1.6	.23	.37
28	---	---	---	---	---	---	---	9.9	19	1.6	.20	.37
29	---	---	---	---	---	---	---	11	16	1.6	.25	.52
30	---	---	---	---	---	---	---	19	13	1.5	.25	.67
31	---	---	---	---	---	---	---	26	---	1.5	.23	---
TOTAL	---	---	---	---	---	---	---	362.90	1194	151.6	20.63	5.44
MEAN	---	---	---	---	---	---	---	11.7	39.8	4.89	.67	.18
MAX	---	---	---	---	---	---	---	52	87	11	1.4	.67
MIN	---	---	---	---	---	---	---	.64	13	1.5	.20	.03
AC-FT	---	---	---	---	---	---	---	720	2370	301	41	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1993, BY WATER YEAR (WY)

	MEAN	.58	.52	.29	.17	.15	.16	.73	24.1	25.6	8.67	2.16	.90
MAX		.71	.61	.36	.22	.20	.21	1.59	27.4	32.2	11.4	3.50	1.00
(WY)	1993	1993	1993	1992	1992	1992	1992	1992	1991	1991	1992	1993	1993
MIN		.52	.47	.17	.13	.10	.12	.27	18.2	19.7	3.08	1.08	.82
(WY)	1992	1991	1991	1991	1991	1993	1991	1991	1991	1993	1991	1991	1992

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1991 - 1993

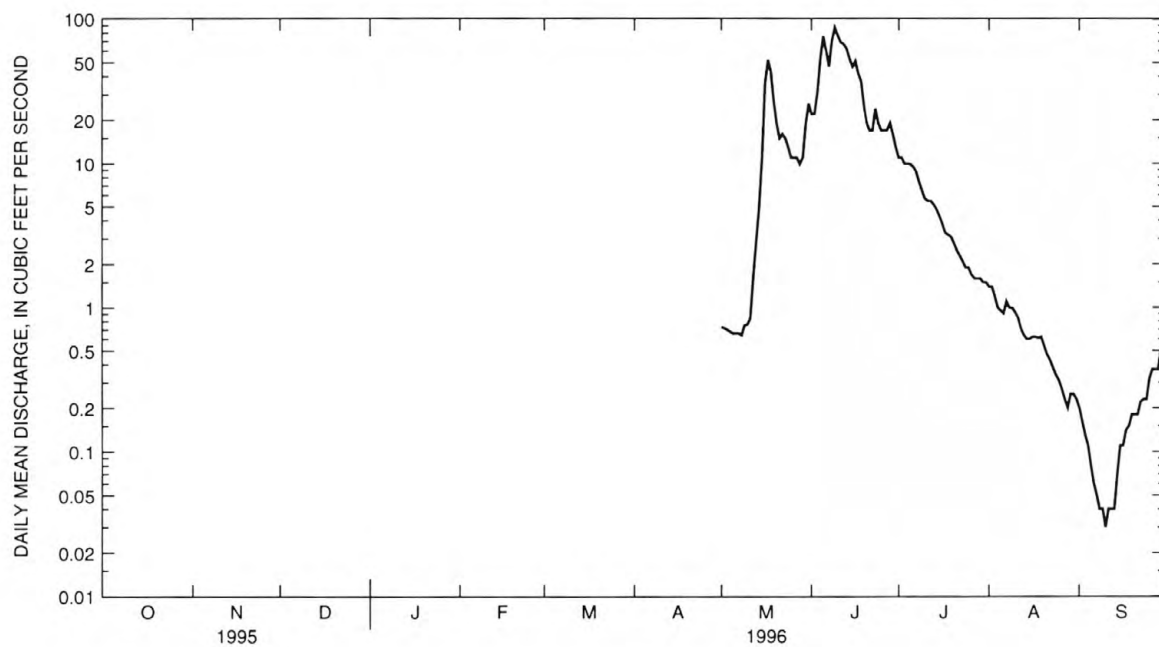
ANNUAL MEAN	---	5.35	
HIGHEST ANNUAL MEAN	---	5.84	1992
LOWEST ANNUAL MEAN	---	4.83	1991
HIGHEST DAILY MEAN	87	105	Jun 16 1995#
LOWEST DAILY MEAN	.03	.03	Sep 10 1996#
ANNUAL SEVEN-DAY MINIMUM	---	.09	Feb 12 1993
INSTANTANEOUS PEAK FLOW	107	135	Jun 15 1995#
INSTANTANEOUS PEAK STAGE	4.06	5.05 ^a	May 14 1991#
ANNUAL RUNOFF (AC-FT)	---	3880	
10 PERCENT EXCEEDS	---	22	
50 PERCENT EXCEEDS	---	.73	
90 PERCENT EXCEEDS	---	.14	

* During period of operation.

For period of record through 1996.

a Backwater from ice/snow.

06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY--Continued



06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY

06301495 CONEY CREEK BELOW TWIN LAKES, NEAR BIG HORN, WY

LOCATION.--Lat 44°36'34", long 107°18'12", unsurveyed, Sheridan County, Hydrologic Unit 10090101, Bighorn National Forest, 0.2 mi downstream from Twin Lakes, 0.2 mi upstream from mouth, and 16.0 mi southwest of Big Horn.

DRAINAGE AREA.--8.07 mi².

PERIOD OF RECORD.--October 1990 to current year (no winter record since 1993).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 8,440 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges (1994 water year). Records good. Flow regulated by Twin Lakes, capacity, 1,520 acre-ft. Seasonal records collected by State of Wyoming at present site, but different datum, 1971-90. Results of discharge measurements, in cubic feet per second, made when station was not in operation, are given below:

Oct. 1 . . . 1.68
Nov. 8 . . . 1.37

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	7.9	34	6.2	2.4	7.9
2	---	---	---	---	---	---	---	7.2	30	5.7	3.3	7.6
3	---	---	---	---	---	---	---	7.1	26	5.4	2.8	7.4
4	---	---	---	---	---	---	---	7.2	25	4.6	3.0	7.0
5	---	---	---	---	---	---	---	9.8	23	4.5	3.0	6.7
6	---	---	---	---	---	---	---	18	21	5.8	2.3	9.3
7	---	---	---	---	---	---	---	29	19	14	1.8	17
8	---	---	---	---	---	---	---	45	21	14	1.9	17
9	---	---	---	---	---	---	---	51	19	9.6	1.7	15
10	---	---	---	---	---	---	---	67	18	7.2	2.0	13
11	---	---	---	---	---	---	---	83	15	5.9	2.7	12
12	---	---	---	---	---	---	---	101	15	5.0	3.6	12
13	---	---	---	---	---	---	---	161	15	5.4	2.4	11
14	---	---	---	---	---	---	---	93	31	5.1	2.3	11
15	---	---	---	---	---	---	---	57	34	4.3	2.1	11
16	---	---	---	---	---	---	---	77	26	5.8	1.8	11
17	---	---	---	---	---	---	---	94	22	5.2	1.7	11
18	---	---	---	---	---	---	---	62	19	4.3	1.3	11
19	---	---	---	---	---	---	---	58	18	4.1	1.2	10
20	---	---	---	---	---	---	---	86	16	3.5	1.1	10
21	---	---	---	---	---	---	---	57	16	3.1	1.0	10
22	---	---	---	---	---	---	---	44	18	2.8	1.3	10
23	---	---	---	---	---	---	---	43	19	2.6	.54	10
24	---	---	---	---	---	---	---	45	15	3.2	2.4	10
25	---	---	---	---	---	---	---	42	12	3.9	4.0	10
26	---	---	---	---	---	---	---	39	11	3.0	4.0	10
27	---	---	---	---	---	---	---	40	8.5	2.7	6.6	10
28	---	---	---	---	---	---	---	42	8.0	3.0	9.1	10
29	---	---	---	---	---	---	---	39	7.3	3.0	9.0	10
30	---	---	---	---	---	---	---	35	6.6	2.3	8.6	9.8
31	---	---	---	---	---	---	---	35	---	2.2	8.2	---
TOTAL	---	---	---	---	---	---	---	1582.2	568.4	157.4	99.14	317.7
MEAN	---	---	---	---	---	---	---	51.0	18.9	5.08	3.20	10.6
MAX	---	---	---	---	---	---	---	161	34	14	9.1	17
MIN	---	---	---	---	---	---	---	7.1	6.6	2.2	.54	6.7
AC-FT	---	---	---	---	---	---	---	3140	1130	312	197	630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1993, BY WATER YEAR (WY)

MEAN	1.85	.32	.22	.18	.21	.29	.63	45.3	59.5	20.4	8.81	5.06
MAX	4.50	.42	.32	.26	.32	.51	1.32	54.4	72.8	27.1	10.1	6.77
(WY)	1991	1992	1992	1992	1992	1992	1992	1993	1991	1992	1992	1992
MIN	.50	.14	.15	.097	.11	.19	.20	33.2	50.8	9.53	7.73	3.19
(WY)	1992	1993	1993	1993	1993	1991	1993	1991	1993	1991	1991	1993

SUMMARY STATISTICS

FOR 1994 WATER YEAR*

WATER YEARS 1991 - 1993

ANNUAL MEAN			11.9	
HIGHEST ANNUAL MEAN			12.6	1992
LOWEST ANNUAL MEAN			11.2	1991
HIGHEST DAILY MEAN	161	May 13	172	May 29 1993
LOWEST DAILY MEAN	.54	Aug 23	.06	Jan 18 1993
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 17	.07	Jan 12 1993
INSTANTANEOUS PEAK FLOW	189	May 13	223	May 29 1993
INSTANTANEOUS PEAK STAGE	3.12	May 13	3.16	May 29 1993
ANNUAL RUNOFF (AC-FT)			8650	
10 PERCENT EXCEEDS	--		46	
50 PERCENT EXCEEDS	--		.54	
90 PERCENT EXCEEDS	--		.14	

* During period of operation.

06301495 CONEY CREEK BELOW TWIN LAKES, NEAR BIG HORN, WY--Continued

PERIOD OF RECORD.--October 1990 to September 1994, October 1995 to September 1996.

REMARKS.--Estimated daily discharges (1996 water year): May 1-6. Records good except those for estimated daily discharges, which are poor. Flow regulated by Twin Lakes, capacity, 1,520 acre-ft. Seasonal records collected by State of Wyoming at present site, but different datum, 1971-90. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Oct. 18 . . . 2.70

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	2.4	45	25	.06	1.0
2	---	---	---	---	---	---	---	2.2	46	23	.08	.70
3	---	---	---	---	---	---	---	2.1	61	22	.51	.71
4	---	---	---	---	---	---	---	2.1	96	22	2.5	.68
5	---	---	---	---	---	---	---	2.0	126	21	3.0	.38
6	---	---	---	---	---	---	---	2.0	124	20	2.7	.37
7	---	---	---	---	---	---	---	2.1	74	17	3.3	.55
8	---	---	---	---	---	---	---	2.7	122	15	3.4	.64
9	---	---	---	---	---	---	---	3.5	127	14	3.7	.44
10	---	---	---	---	---	---	---	4.3	154	12	4.1	.44
11	---	---	---	---	---	---	---	5.0	121	13	3.8	.36
12	---	---	---	---	---	---	---	7.1	135	12	2.8	.37
13	---	---	---	---	---	---	---	11	129	11	2.4	.46
14	---	---	---	---	---	---	---	18	107	9.4	2.6	.68
15	---	---	---	---	---	---	---	32	96	8.5	3.4	.84
16	---	---	---	---	---	---	---	82	106	8.4	2.6	.51
17	---	---	---	---	---	---	---	111	89	5.5	1.1	.59
18	---	---	---	---	---	---	---	89	86	3.8	2.7	.63
19	---	---	---	---	---	---	---	58	58	3.4	2.4	.69
20	---	---	---	---	---	---	---	41	44	4.2	1.8	.59
21	---	---	---	---	---	---	---	36	41	3.8	1.7	.63
22	---	---	---	---	---	---	---	36	41	5.4	1.5	.64
23	---	---	---	---	---	---	---	34	55	5.9	1.7	.66
24	---	---	---	---	---	---	---	29	41	.68	1.6	.35
25	---	---	---	---	---	---	---	26	40	3.4	1.6	.73
26	---	---	---	---	---	---	---	25	39	3.0	.95	1.3
27	---	---	---	---	---	---	---	25	41	1.5	.92	1.8
28	---	---	---	---	---	---	---	23	45	.10	.97	1.7
29	---	---	---	---	---	---	---	27	38	.58	1.2	2.0
30	---	---	---	---	---	---	---	41	29	.23	.82	1.9
31	---	---	---	---	---	---	---	52	---	.08	.89	---
TOTAL	---	---	---	---	---	---	---	833.5	2356	294.87	62.80	23.34
MEAN	---	---	---	---	---	---	---	26.9	78.5	9.51	2.03	.78
MAX	---	---	---	---	---	---	---	111	154	25	4.1	2.0
MIN	---	---	---	---	---	---	---	2.0	29	.08	.06	.35
AC-FT	---	---	---	---	---	---	---	1650	4670	585	125	46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1993, BY WATER YEAR (WY)

	1991	1992	1993	1991	1992	1993	1991	1992	1993	1991	1992	1993
MEAN	1.85	.32	.22	.18	.21	.29	.63	45.3	59.5	20.4	8.81	5.06
MAX	4.50	.42	.32	.26	.32	.51	1.32	54.4	72.8	27.1	10.1	6.77
(WY)	1991	1992	1992	1992	1992	1992	1992	1993	1991	1992	1992	1992
MIN	.50	.14	.15	.097	.11	.19	.20	33.2	50.8	9.53	7.73	3.19
(WY)	1992	1993	1993	1993	1993	1991	1993	1991	1993	1991	1991	1993

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1991 - 1993

ANNUAL MEAN	---	11.9
HIGHEST ANNUAL MEAN	---	12.6
LOWEST ANNUAL MEAN	---	11.2
HIGHEST DAILY MEAN	154 Jun 10	172 May 29 1993#
LOWEST DAILY MEAN	.06 Aug 1	.06 Jan 18 1993,
		Aug 1 1996#
ANNUAL SEVEN-DAY MINIMUM	---	.07 Jan 12 1993
INSTANTANEOUS PEAK FLOW	216 Jun 10	223 ^a May 29 1993
INSTANTANEOUS PEAK STAGE	3.20 Jun 10	3.20 Jan 19 1996#
ANNUAL RUNOFF (AC-FT)	---	8650
10 PERCENT EXCEEDS	---	48
50 PERCENT EXCEEDS	---	.54
90 PERCENT EXCEEDS	---	.14

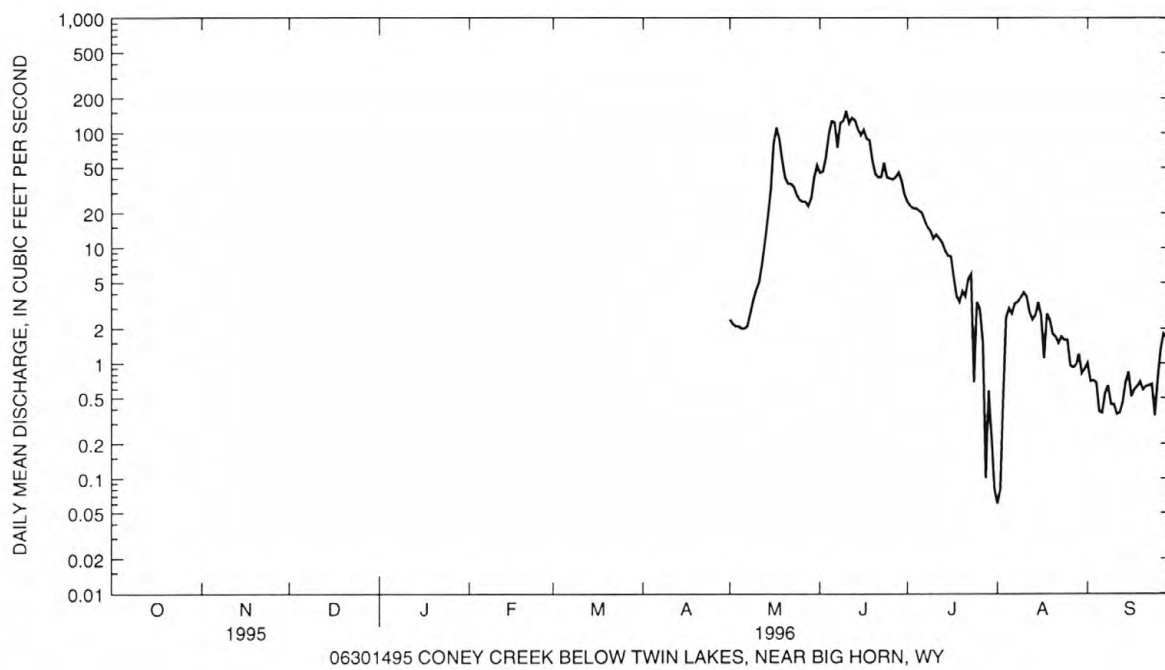
* During period of operation.

For period of record through 1996.

a Gage height, 3.16 ft.

YELLOWSTONE RIVER BASIN

06301495 CONEY CREEK BELOW TWIN LAKES, NEAR BIG HORN, WY--Continued



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 1-7. 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. Result of discharge measurement, in cubic feet per second, made during period when station was not in operation, is given below:

Oct. 3 . . . 30.0

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	6.8	107	71	19	19
2	---	---	---	---	---	---	---	6.8	108	54	18	20
3	---	---	---	---	---	---	---	6.6	135	86	20	25
4	---	---	---	---	---	---	---	6.4	198	85	23	24
5	---	---	---	---	---	---	---	5.7	312	82	23	24
6	---	---	---	---	---	---	---	6.4	353	80	23	24
7	---	---	---	---	---	---	---	7.4	243	73	23	24
8	---	---	---	---	---	---	---	9.0	350	65	24	23
9	---	---	---	---	---	---	---	9.8	449	58	23	22
10	---	---	---	---	---	---	---	11	476	52	22	23
11	---	---	---	---	---	---	---	12	434	52	22	23
12	---	---	---	---	---	---	---	15	455	51	21	22
13	---	---	---	---	---	---	---	20	452	47	22	21
14	---	---	---	---	---	---	---	28	393	42	23	21
15	---	---	---	---	---	---	---	42	350	38	24	20
16	---	---	---	---	---	---	---	87	377	37	23	11
17	---	---	---	---	---	---	---	116	337	33	22	11
18	---	---	---	---	---	---	---	93	310	31	23	10
19	---	---	---	---	---	---	---	61	210	29	22	8.6
20	---	---	---	---	---	---	---	69	161	28	22	4.6
21	---	---	---	---	---	---	---	82	146	26	26	4.3
22	---	---	---	---	---	---	---	77	146	27	26	4.4
23	---	---	---	---	---	---	---	74	193	26	26	4.3
24	---	---	---	---	---	---	---	67	162	21	26	4.0
25	---	---	---	---	---	---	---	62	143	23	23	4.6
26	---	---	---	---	---	---	---	59	143	23	18	5.1
27	---	---	---	---	---	---	---	57	158	21	21	5.5
28	---	---	---	---	---	---	---	52	171	21	21	5.4
29	---	---	---	---	---	---	---	56	142	20	21	5.7
30	---	---	---	---	---	---	---	78	102	20	20	6.1
31	---	---	---	---	---	---	---	110	---	19	19	---
TOTAL	---	---	---	---	---	---	---	1392.9	7716	1341	689	429.6
MEAN	---	---	---	---	---	---	---	44.9	257	43.3	22.2	14.3
MAX	---	---	---	---	---	---	---	116	476	86	26	25
MIN	---	---	---	---	---	---	---	5.7	102	19	18	4.0
AC-FT	---	---	---	---	---	---	---	2760	15300	2660	1370	852

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1971, BY WATER YEAR (WY)

	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	

06301500 WEST FORK BIG GOOSE CREEK NEAR BIG HORN, WY--Continued

SUMMARY STATISTICS

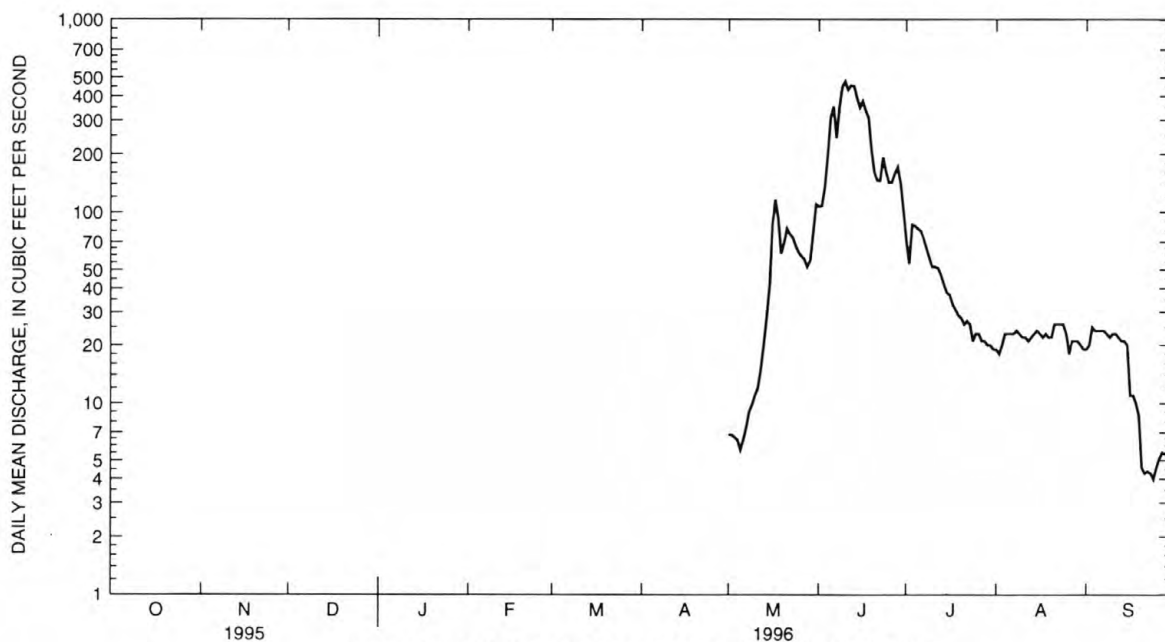
FOR 1996 WATER YEAR*

WATER YEARS 1954 - 1971

ANNUAL MEAN	--		34.3	
HIGHEST ANNUAL MEAN	--		45.7	1965
LOWEST ANNUAL MEAN	--		21.7	1960
HIGHEST DAILY MEAN	476	Jun 10	612	Jun 16 1963#
LOWEST DAILY MEAN	4.0	Sep 24	.80	Dec 14, 26 1963
				Jan 15, 16
				Feb 26 1964#
ANNUAL SEVEN-DAY MINIMUM	--		.89	Dec 20 1963
INSTANTANEOUS PEAK FLOW	524	Jun 10	1030 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.21	Jun 10	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 1996.

a From rating curve extended above 410 ft³/s on basis of velocity area study.

06301500 WEST FORK BIG GOOSE CREEK NEAR BIG HORN, WY

YELLOWSTONE RIVER BASIN

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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. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Oct. 6 . . . 26.7

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	13	42	463	146	25	20
2	---	---	---	---	---	---	20	43	405	93	24	19
3	---	---	---	---	---	---	24	44	393	121	22	23
4	---	---	---	---	---	---	20	44	418	115	24	23
5	---	---	---	---	---	---	18	42	498	105	27	23
6	---	---	---	---	---	---	24	44	572	95	37	23
7	---	---	---	---	---	---	36	53	544	87	37	23
8	---	---	---	---	---	---	54	64	658	74	33	22
9	---	---	---	---	---	---	59	66	808	54	30	21
10	---	---	---	---	---	---	65	59	876	46	27	21
11	---	---	---	---	---	---	61	61	855	41	26	21
12	---	---	---	---	---	---	48	77	757	37	25	24
13	---	---	---	---	---	---	45	105	904	44	23	24
14	---	---	---	---	---	---	40	142	922	44	24	23
15	---	---	---	---	---	---	38	169	827	29	25	25
16	---	---	---	---	---	---	44	221	883	29	24	19
17	---	---	---	---	---	---	52	283	676	27	23	19
18	---	---	---	---	---	---	49	274	605	27	22	20
19	---	---	---	---	---	---	47	234	468	27	24	19
20	---	---	---	---	---	---	42	224	351	33	23	15
21	---	---	---	---	---	---	42	234	280	33	24	19
22	---	---	---	---	---	---	40	229	248	27	24	22
23	---	---	---	---	---	---	39	265	323	34	23	23
24	---	---	---	---	---	---	52	262	286	25	19	28
25	---	---	---	---	---	---	56	262	247	27	20	31
26	---	---	---	---	---	---	52	333	234	27	16	28
27	---	---	---	---	---	---	50	445	243	25	18	26
28	---	---	---	---	---	---	47	432	268	24	18	22
29	---	---	---	---	---	---	44	431	240	23	23	23
30	---	---	---	---	---	---	43	449	189	24	23	20
31	---	---	---	---	---	---	---	490	---	25	21	---
TOTAL	---	---	---	---	---	---	1264	6123	15441	1568	754	669
MEAN	---	---	---	---	---	---	42.1	198	515	50.6	24.3	22.3
MAX	---	---	---	---	---	---	65	490	922	146	37	31
MIN	---	---	---	---	---	---	13	42	189	23	16	15
AC-FT	---	---	---	---	---	---	2510	12140	30630	3110	1500	1330

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	
(WY)	1947	1942	1951	1951	1951	1946	1943	1944	1963	1945	1968	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	
(WY)	1953	1940	1955	1955	1955	1937	1970	1960	1934	1961	1934	1931	

YELLOWSTONE RIVER BASIN

06302000 BIG GOOSE CREEK NEAR SHERIDAN, WY--Continued

SUMMARY STATISTICS

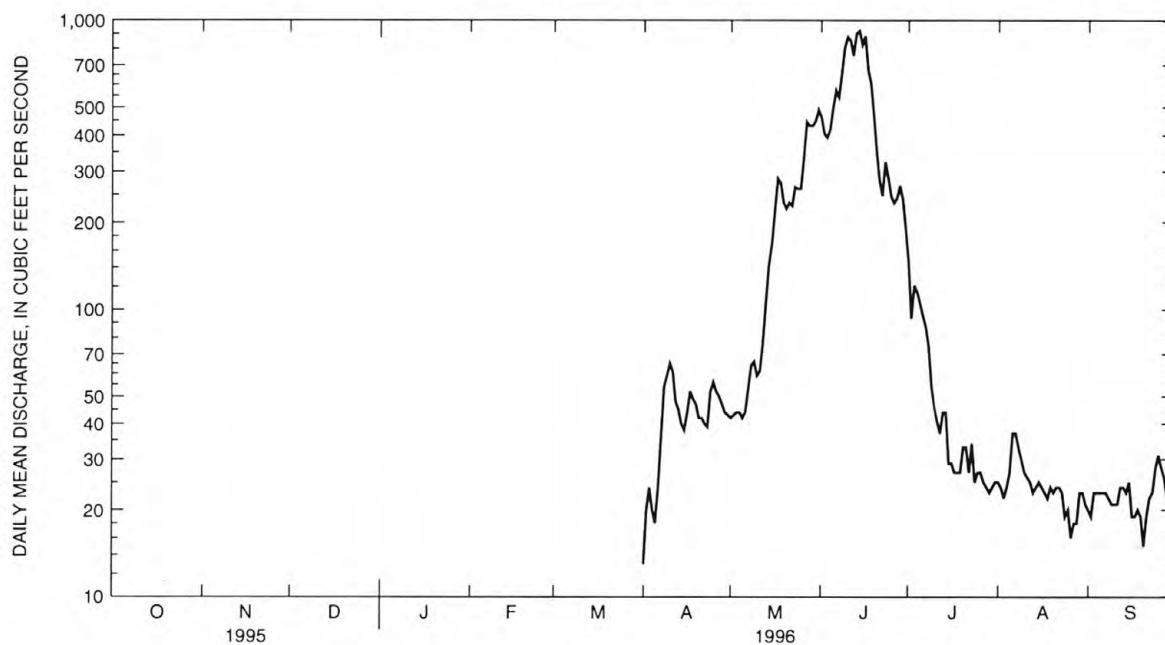
FOR 1996 WATER YEAR*

WATER YEARS 1930 - 1971

ANNUAL MEAN	--		80.2	
HIGHEST ANNUAL MEAN	--		137	1944
LOWEST ANNUAL MEAN	--		26.6	1960
HIGHEST DAILY MEAN	922	Jun 14	2050	Jun 16 1963#
LOWEST DAILY MEAN	13	Apr 1	1.6	Nov 29 1954#
ANNUAL SEVEN-DAY MINIMUM	--		2.2	Jan 18 1955
INSTANTANEOUS PEAK FLOW	1010	Jun 14	3160 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	3.92	Jun 14	5.83	Jun 15 1963#
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 1996.

a From rating curve extended above 1,600 ft³/s.

06302000 BIG GOOSE CREEK NEAR SHERIDAN, WY

YELLOWSTONE RIVER BASIN

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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 1995 TO SEPTEMBER 1996

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 18...	1340	24	107	7.6	7.5	14.0	643	9.8	97	K1
MAR 21...	0810	18	118	8.2	2.5	3.0	651	12.2	105	K2
JUN 06...	0715	535	47	6.6	7.0	14.5	652	9.7	93	14
AUG 26...	1425	16	114	7.7	15.0	25.0	648	7.7	90	15

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

YELLOWSTONE RIVER BASIN

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 except those above 100 ft³/s, which are fair. 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. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Oct. 9 . . . 21.3

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	10	50	259	126	119	67
2	---	---	---	---	---	---	13	50	253	121	115	67
3	---	---	---	---	---	---	14	49	272	110	106	66
4	---	---	---	---	---	---	12	49	325	103	104	65
5	---	---	---	---	---	---	11	46	393	102	101	63
6	---	---	---	---	---	---	15	48	344	105	107	63
7	---	---	---	---	---	---	33	51	316	101	104	63
8	---	---	---	---	---	---	67	58	374	98	98	63
9	---	---	---	---	---	---	72	60	404	95	97	61
10	---	---	---	---	---	---	68	57	410	91	97	60
11	---	---	---	---	---	---	64	58	413	73	96	60
12	---	---	---	---	---	---	53	65	391	71	96	63
13	---	---	---	---	---	---	50	90	376	79	95	62
14	---	---	---	---	---	---	45	125	306	75	92	63
15	---	---	---	---	---	---	43	149	289	79	86	65
16	---	---	---	---	---	---	48	190	349	90	83	62
17	---	---	---	---	---	---	52	288	276	89	79	63
18	---	---	---	---	---	---	50	289	252	92	80	62
19	---	---	---	---	---	---	51	259	222	92	79	54
20	---	---	---	---	---	---	48	231	206	98	71	53
21	---	---	---	---	---	---	48	220	198	93	71	53
22	---	---	---	---	---	---	45	215	198	93	74	52
23	---	---	---	---	---	---	45	234	230	93	76	51
24	---	---	---	---	---	---	57	229	185	92	78	49
25	---	---	---	---	---	---	59	236	164	91	78	50
26	---	---	---	---	---	---	58	261	159	98	79	46
27	---	---	---	---	---	---	57	272	142	109	80	45
28	---	---	---	---	---	---	55	269	141	110	80	48
29	---	---	---	---	---	---	53	265	142	112	76	48
30	---	---	---	---	---	---	52	276	134	123	73	44
31	---	---	---	---	---	---	---	289	---	121	69	---
TOTAL	---	---	---	---	---	---	1348	5028	8123	3025	2739	1731
MEAN	---	---	---	---	---	---	44.9	162	271	97.6	88.4	57.7
MAX	---	---	---	---	---	---	72	289	413	126	119	67
MIN	---	---	---	---	---	---	10	46	134	71	69	44
AC-FT	---	---	---	---	---	---	2670	9970	16110	6000	5430	3430

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

06303500 LITTLE GOOSE CREEK IN CANYON, NEAR BIG HORN, WY--Continued

SUMMARY STATISTICS

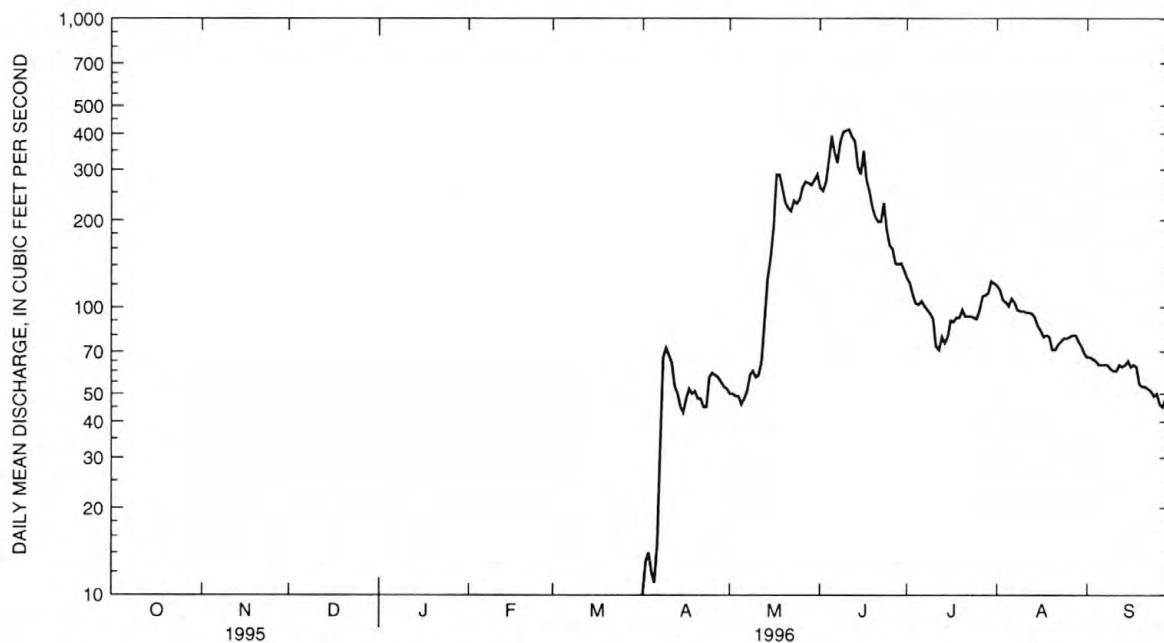
FOR 1996 WATER YEAR*

WATER YEARS 1941 - 1971

ANNUAL MEAN	--		63.4	
HIGHEST ANNUAL MEAN	--		83.9	1970
LOWEST ANNUAL MEAN	--		40.6	1960
HIGHEST DAILY MEAN	413	Jun 11	837	Jun 15 1963#
LOWEST DAILY MEAN	10	Apr 1	3.0	Jan 3 1950#
ANNUAL SEVEN-DAY MINIMUM	--		4.5	Dec 31 1949
INSTANTANEOUS PEAK FLOW	529	Jun 16	1350 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.42	Jun 16	6.78	Jun 15 1963#
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 1996.

a From rating curve extended above 900 ft³/s.

06303500 LITTLE GOOSE CREEK IN CANYON, NEAR BIG HORN, WY

YELLOWSTONE RIVER BASIN

06304500 LITTLE GOOSE CREEK AT SHERIDAN, WY

LOCATION.--Lat 44°48'10", long 106°57'10", in NE¹/₄ NW¹/₄ SW¹/₄ 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 1995 TO SEPTEMBER 1996

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 (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 17...	1455	53	666	8.4	12.0	14.0	668	12.0	127	22
MAR 21...	1220	79	663	8.4	5.0	6.0	670	11.0	98	150
JUN 06...	0830	444	154	7.6	10.0	14.0	672	10.1	102	550
AUG 26...	1555	18	697	8.3	22.0	28.0	665	9.6	127	260

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 1995 TO SEPTEMBER 1996

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 17...	1620	119	594	8.4	11.5	13.0	643
MAR 21...	1050	194	621	8.5	4.5	3.5	670
JUN 06...	1000	1040	143	7.5	9.5	16.0	673
AUG 26...	1700	26	686	8.4	24.0	33.5	666

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) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) (00671)
OCT 17...	11.7	128	110	<0.01	0.25	<0.02	0.06
MAR 21...	10.6	93	K2200	0.01	0.27	0.04	0.06
JUN 06...	9.5	94	450	<0.01	0.10	0.03	0.02
AUG 26...	9.3	127	220	0.05	1.00	<0.02	0.30

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

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. 9 to Feb. 8, and May 12, 17. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	122	120	92	56	101	107	169	871	277	41	31
2	140	102	115	84	53	97	109	173	790	217	36	31
3	141	113	110	91	60	95	118	171	714	187	32	32
4	149	170	105	85	68	87	124	170	732	187	29	31
5	144	161	100	75	80	76	116	166	830	172	28	30
6	142	147	90	81	100	75	114	165	926	155	31	32
7	134	151	82	92	750	78	127	166	880	146	38	38
8	135	151	80	100	450	81	167	185	862	131	40	38
9	130	150	90	95	245	84	218	221	1050	126	35	34
10	123	120	110	92	198	98	214	210	1130	105	33	33
11	125	140	140	88	152	334	227	199	1200	98	33	37
12	131	150	130	92	125	389	204	185	1050	83	33	37
13	128	140	120	95	130	250	194	228	1050	77	30	34
14	132	130	130	100	112	183	175	294	1160	88	31	40
15	131	130	120	95	100	143	164	351	1060	84	35	44
16	128	130	120	100	96	138	164	403	1210	72	36	53
17	121	120	110	86	102	130	175	520	1050	62	34	62
18	121	130	100	70	96	122	177	629	806	55	31	64
19	125	120	95	82	95	116	177	586	720	50	35	74
20	120	110	110	90	92	112	170	499	574	46	33	76
21	120	100	120	100	89	136	183	488	485	49	33	75
22	147	120	110	83	90	137	174	474	421	48	31	73
23	142	120	100	75	89	124	165	538	502	42	29	72
24	133	120	110	71	81	93	169	725	494	34	28	71
25	134	120	105	65	86	90	200	743	422	31	28	88
26	128	110	98	54	63	110	189	774	374	34	29	108
27	126	100	95	60	91	110	189	1020	360	38	30	112
28	120	85	90	58	105	104	187	948	371	38	31	114
29	127	100	100	56	108	114	177	873	386	38	35	113
30	139	130	110	57	---	100	176	860	331	34	33	110
31	131	---	105	58	---	104	---	898	---	44	36	---
TOTAL	4108	3792	3320	2522	3962	4011	5050	14031	22811	2848	1017	1787
MEAN	133	126	107	81.4	137	129	168	453	760	91.9	32.8	59.6
MAX	161	170	140	100	750	389	227	1020	1210	277	41	114
MIN	120	85	80	54	53	75	107	165	331	31	28	30
AC-FT	8150	7520	6590	5000	7860	7960	10020	27830	45250	5650	2020	3540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	105	97.1	80.9	68.9	86.6	104	136	403	602	162	55.1	84.1	
MAX	156	126	107	109	137	185	195	891	1592	547	117	132	
(WY)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
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	

YELLOWSTONE RIVER BASIN

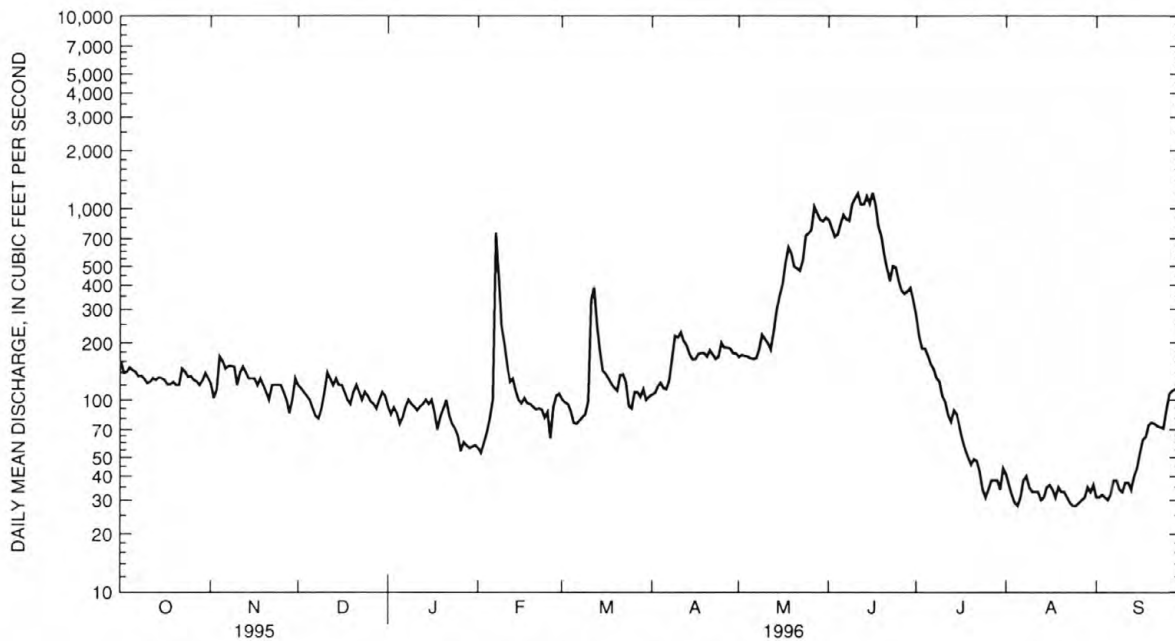
06305700 GOOSE CREEK NEAR ACME, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1984 - 1996
ANNUAL TOTAL	111686	69259	--
ANNUAL MEAN	306	189	157
HIGHEST ANNUAL MEAN	--	--	303
LOWEST ANNUAL MEAN	--	--	71.8
HIGHEST DAILY MEAN	3040	1210	3040
LOWEST DAILY MEAN	39	28	8.4
ANNUAL SEVEN-DAY MINIMUM	45	29	10
INSTANTANEOUS PEAK FLOW	--	1330 ^a	3330 ^b
INSTANTANEOUS PEAK STAGE	--	7.64 ^c	7.65 ^c
ANNUAL RUNOFF (AC-FT)	221500	137400	113600
10 PERCENT EXCEEDS	911	490	353
50 PERCENT EXCEEDS	118	112	92
90 PERCENT EXCEEDS	61	35	43

a Gage height, 5.41 ft.

b Gage height, 7.30 ft.

c From floodmarks, backwater from ice.



06305700 GOOSE CREEK NEAR ACME, WY

175

MEAN	257	227	183	182	239	317	366	1175	1720	486	176	221
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

YELLOWSTONE RIVER BASIN

06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MT--Continued

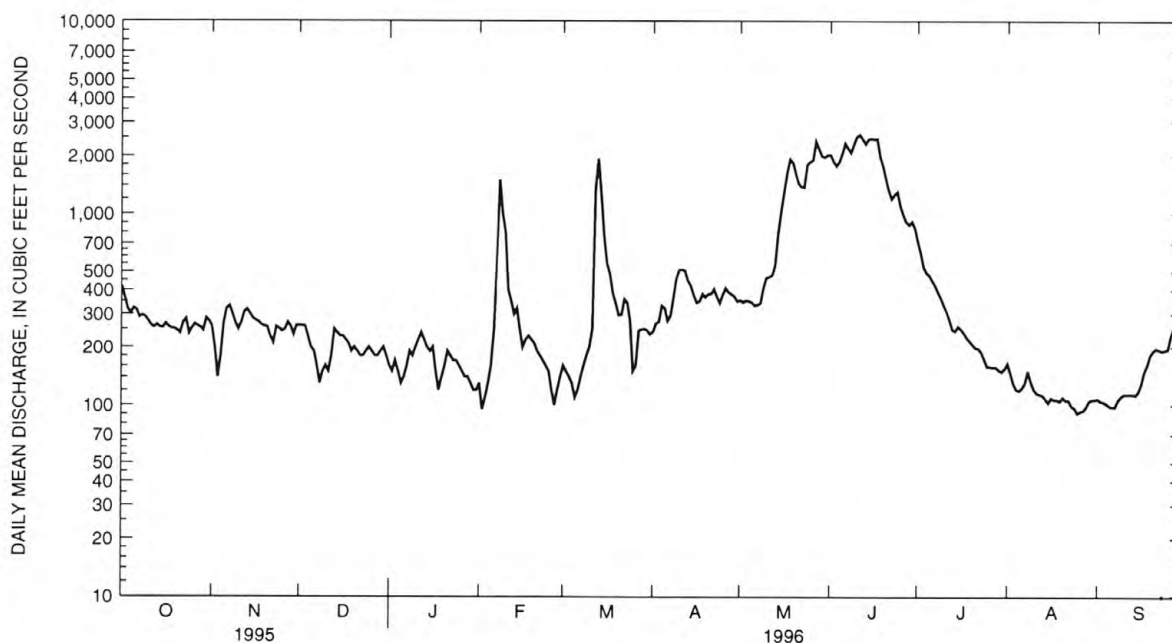
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1961 - 1996	
ANNUAL TOTAL	221861		166715		--	
ANNUAL MEAN	608		456		462	
HIGHEST ANNUAL MEAN	--		--		862	1978
LOWEST ANNUAL MEAN	--		--		187	1961
HIGHEST DAILY MEAN	5100	Jun 18	2590	Jun 11	15400	May 19 1978
LOWEST DAILY MEAN	80	Jan 3	91	Aug 25	5.4	Aug 24 1961
ANNUAL SEVEN-DAY MINIMUM	99	Jan 1	97	Aug 23	7.2	Aug 22 1961
INSTANTANEOUS PEAK FLOW	--		2720 ^a	Jun 11	17500	May 12 1978
INSTANTANEOUS PEAK STAGE	--		9.69 ^b	Feb 7	14.25	May 12 1978
INSTANTANEOUS LOW FLOW	--		90 ^c	Aug 25	3.0	Aug 23 1961
ANNUAL RUNOFF (AC-FT)	440100		330700		334800	
10 PERCENT EXCEEDS	1690		1370		1130	
50 PERCENT EXCEEDS	251		250		240	
90 PERCENT EXCEEDS	150		114		120	

a Gage height, 6.73 ft.

b Backwater from ice.

c Parts of days, Aug. 25-27.

e Estimated.



06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MT

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 1995 TO SEPTEMBER 1996

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 CAO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
FEB												
16...	1045	248	693	8.3	0.0	10.5	670	--	--	300	61	37
MAY												
21...	1230	1420	255	8.2	10.0	16.0	672	10.1	102	110	26	11
JUN												
12...	0910	2430	197	8.2	15.0	19.0	675	8.2	92	90	22	8.4
AUG												
27...	0900	90	841	8.4	18.0	22.5	--	--	--	380	71	49

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 CAO3) (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)
FEB											
16...	26	0.6	5.1	223	140	4.2	0.2	10	417	0.57	279
MAY											
21...	6.9	0.3	1.1	93	32	1.0	0.1	9.0	143	0.19	546
JUN											
12...	5.0	0.2	1.1	75	20	0.6	0.1	8.0	110	0.15	723
AUG											
27...	41	0.9	4.6	255	210	3.7	0.3	8.0	540	0.74	131

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 sea level, 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. 23, 24, 28, Nov. 1-6, 10, 11, 20-22, 27-30, Dec. 3-13, Dec. 18 to Jan. 9, Mar. 11-13, 15, 25, 26, and Apr. 2, 8-10. 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 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	1900	*738	*8.80
May 23	1630	242	7.21

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.0	9.2	7.0	5.8	5.5	8.9	33	145	17	9.7	6.8
2	11	7.4	7.6	6.7	5.5	5.5	17	36	136	16	9.3	6.7
3	10	8.0	7.4	7.0	5.0	5.5	24	40	136	15	8.6	6.4
4	10	9.0	7.2	6.8	5.0	5.5	14	39	139	15	8.4	6.2
5	9.3	10	7.0	6.4	5.0	5.6	11	39	124	14	8.0	6.1
6	7.9	9.7	7.2	6.0	5.0	5.8	13	54	107	14	8.0	6.0
7	8.3	9.5	7.0	6.2	5.0	5.8	24	87	88	14	8.0	5.9
8	8.3	9.6	6.5	6.5	5.1	5.8	60	115	80	14	7.7	5.9
9	8.3	9.6	7.0	6.5	5.2	5.8	75	120	72	15	7.6	5.7
10	8.3	9.4	8.0	6.4	5.2	5.8	80	149	63	15	7.6	5.7
11	8.3	8.6	9.1	6.4	5.2	7.5	72	193	58	14	7.3	5.8
12	8.3	10	8.8	6.4	5.2	10	44	229	54	13	7.2	5.9
13	8.0	10	8.8	6.4	5.2	9.5	35	290	52	12	7.2	6.2
14	7.9	10	8.6	6.4	5.2	8.8	30	455	48	11	7.4	6.2
15	7.9	9.5	8.5	6.4	5.4	9.5	30	466	44	10	7.3	6.4
16	7.9	9.6	7.7	6.4	5.5	11	35	495	45	10	6.9	6.4
17	7.9	8.4	7.5	6.4	5.5	8.8	42	422	39	9.8	6.6	6.9
18	7.9	9.2	7.4	6.4	5.5	8.1	38	276	37	9.2	6.5	7.1
19	7.9	9.4	7.1	6.4	5.5	7.5	25	189	35	8.8	6.3	7.1
20	7.1	9.0	7.1	6.4	5.5	7.6	30	150	33	8.5	6.3	6.5
21	7.5	8.5	7.3	6.4	5.5	7.9	26	128	34	8.3	5.9	6.0
22	7.4	8.8	7.0	6.4	5.5	8.8	24	117	35	8.2	5.9	5.8
23	7.3	9.0	6.6	6.4	5.5	11	25	169	30	8.2	6.0	5.6
24	7.7	8.9	7.0	6.4	5.5	10	63	144	27	8.2	6.0	5.5
25	7.9	9.2	7.4	6.4	5.5	9.0	67	142	25	8.4	6.1	6.3
26	8.2	8.4	7.7	6.4	5.5	8.6	50	161	24	8.5	6.3	6.8
27	7.6	8.2	7.4	6.4	5.5	8.3	42	169	23	8.5	6.4	6.7
28	7.4	8.4	7.1	6.1	5.5	8.0	36	145	21	8.6	6.7	7.8
29	8.0	8.8	7.2	5.8	5.5	8.3	35	150	20	9.3	6.9	8.1
30	8.2	9.0	7.2	5.8	---	8.0	32	169	18	11	7.1	7.6
31	8.0	---	7.4	5.8	---	8.0	---	163	---	10	7.0	---
TOTAL	257.7	271.1	234.0	197.8	155.0	240.8	1107.9	5534	1792	352.5	222.2	192.1
MEAN	8.31	9.04	7.55	6.38	5.34	7.77	36.9	179	59.7	11.4	7.17	6.40
MAX	12	10	9.2	7.0	5.8	11	80	495	145	17	9.7	8.1
MIN	7.1	7.4	6.5	5.8	5.0	5.5	8.9	33	18	8.2	5.9	5.5
AC-FT	511	538	464	392	307	478	2200	10980	3550	699	441	381

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

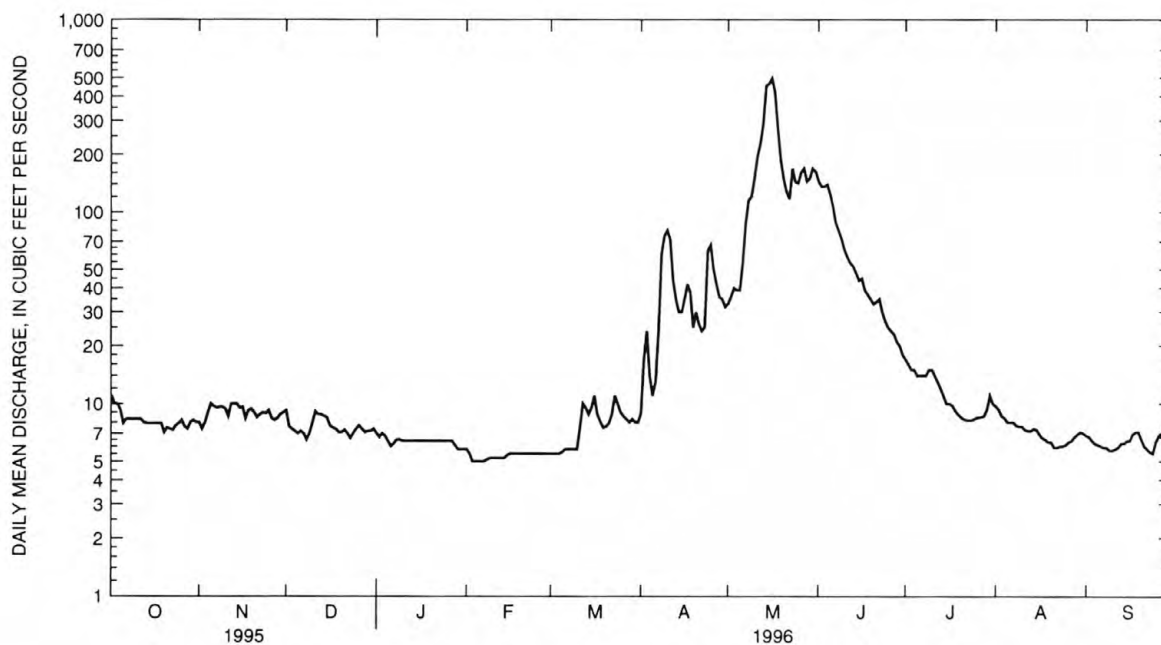
MEAN	6.94	6.24	5.64	5.11	5.28	6.57	33.2	157	97.5	18.7	8.58	7.28
MAX	15.0	13.2	9.92	7.78	10.1	14.2	106	268	299	39.9	18.3	17.0
(WY)	1983	1983	1983	1983	1969	1972	1987	1984	1975	1975	1968	1968
MIN	2.45	2.00	2.75	2.48	3.74	4.05	8.00	56.2	18.1	7.26	4.34	4.16
(WY)	1963	1963	1962	1962	1989	1965	1970	1992	1985	1974	1966	1969

06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	18437.0		10557.1		--	
ANNUAL MEAN	50.5		28.8		30.0	
HIGHEST ANNUAL MEAN	--		--		50.9	1995
LOWEST ANNUAL MEAN	--		--		13.1	1989
HIGHEST DAILY MEAN	736	Jun 3	495	May 16	778	May 25 1970
LOWEST DAILY MEAN	5.4	Feb 12	5.0	Feb 3-7	1.0	Dec 15 1964
ANNUAL SEVEN-DAY MINIMUM	5.9	Feb 9	5.0	Feb 3	1.2	Jan 22 1966
INSTANTANEOUS PEAK FLOW	--		738	May 16	7110 ^a	Jun 15 1963
INSTANTANEOUS PEAK STAGE	--		8.80	May 16	12.60 ^b	Jun 15 1963
ANNUAL RUNOFF (AC-FT)	36570		20940		21720	
10 PERCENT EXCEEDS	184		72		77	
50 PERCENT EXCEEDS	10		8.2		7.0	
90 PERCENT EXCEEDS	6.6		5.7		4.6	

a On basis of slope-area measurement of peak flow.

b From floodmarks, site and datum then in use.



06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WY

06311000 NORTH FORK POWDER RIVER NEAR HAZELTON, WY

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.

DRAINAGE AREA.--24.5 mi².

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. 31 to Nov. 2, Jan. 7 to Feb. 6, and Feb. 17 to May 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 190 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	1800	*413	*4.30
May 30	2100	200	3.78

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	4.2	3.7	2.8	2.5	2.4	3.8	5.7	117	23	7.7	4.2
2	6.6	4.0	3.7	2.8	2.4	2.5	5.0	6.3	124	21	7.6	4.2
3	6.2	4.1	3.6	2.8	2.2	2.5	7.1	6.9	132	20	7.8	4.2
4	6.3	4.1	3.5	2.8	2.2	2.5	5.5	6.7	141	20	7.3	4.0
5	6.1	4.4	3.3	2.8	2.2	2.5	4.5	7.0	141	18	7.0	3.9
6	5.5	4.4	3.3	2.7	2.2	2.4	5.6	10	122	17	7.0	3.9
7	5.7	4.4	3.3	2.7	2.2	2.5	6.7	15	110	16	7.7	3.9
8	5.8	4.4	3.3	2.8	2.2	2.5	9.3	25	115	16	6.8	3.9
9	6.3	4.4	3.3	2.8	2.2	2.5	12	47	118	16	6.3	3.9
10	6.4	4.4	3.3	2.7	2.2	2.5	13	70	106	15	6.4	3.7
11	6.5	4.4	3.3	2.7	2.2	3.0	11	78	104	14	6.1	3.6
12	6.7	4.4	3.3	2.7	2.2	3.8	7.8	94	95	13	5.9	3.6
13	5.2	4.2	3.5	2.7	2.2	3.6	5.8	125	103	12	5.7	3.6
14	5.5	4.2	3.5	2.7	2.2	3.5	4.5	155	81	12	5.8	3.6
15	5.4	4.2	3.4	2.7	2.2	3.8	4.2	193	77	11	5.8	3.7
16	5.1	4.2	3.4	2.7	2.2	4.0	4.7	256	87	11	5.8	3.7
17	5.1	4.2	3.4	2.7	2.3	3.7	5.5	220	63	11	5.5	4.5
18	5.0	4.2	3.3	2.7	2.4	3.4	5.3	197	56	10	6.9	5.3
19	4.7	4.2	3.3	2.7	2.4	3.2	4.2	124	49	9.8	5.2	5.7
20	5.9	3.8	3.0	2.7	2.4	3.3	4.5	96	44	9.3	4.7	5.3
21	5.7	3.5	3.0	2.7	2.4	3.4	4.3	97	43	9.1	4.4	5.4
22	4.2	3.5	3.0	2.7	2.4	3.7	4.0	104	42	9.1	4.4	6.4
23	5.0	3.7	3.0	2.7	2.4	4.2	4.1	111	38	9.0	4.3	6.0
24	5.2	3.8	3.0	2.7	2.4	3.8	7.0	103	34	8.8	4.2	4.7
25	5.1	3.9	2.9	2.7	2.4	3.6	10	103	31	9.0	4.2	4.7
26	4.9	3.8	2.9	2.7	2.4	3.5	8.0	113	29	8.8	4.4	4.2
27	5.0	3.7	2.9	2.7	2.4	3.4	6.8	110	27	8.4	4.4	5.2
28	5.8	3.7	2.9	2.6	2.4	3.5	5.8	107	27	8.3	4.3	5.9
29	4.7	3.7	2.9	2.5	2.4	3.5	5.6	127	28	8.3	5.4	7.4
30	4.8	3.7	2.8	2.5	---	3.4	5.3	154	25	8.3	5.6	6.9
31	4.5	---	2.8	2.5	---	3.4	---	139	---	8.5	4.6	---
TOTAL	173.0	121.8	99.8	83.7	66.8	99.5	190.9	3005.6	2309	390.7	179.2	139.2
MEAN	5.58	4.06	3.22	2.70	2.30	3.21	6.36	97.0	77.0	12.6	5.78	4.64
MAX	8.1	4.4	3.7	2.8	2.5	4.2	13	256	141	23	7.8	7.4
MIN	4.2	3.5	2.8	2.5	2.2	2.4	3.8	5.7	25	8.3	4.2	3.6
AC-FT	343	242	198	166	132	197	379	5960	4580	775	355	276

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	4.35	3.49	2.80	2.28	2.13	2.23	9.06	58.8	64.4	17.2	7.01	5.00
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

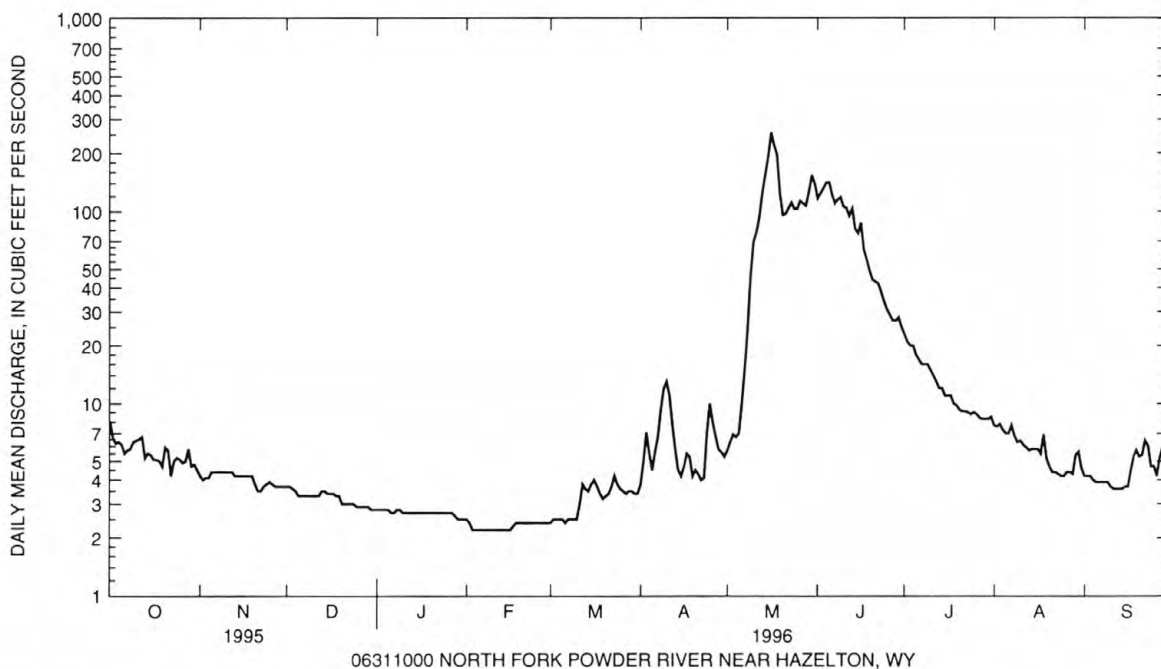
06311000 NORTH FORK POWDER RIVER NEAR HAZELTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	7753.3		6859.2		--	
ANNUAL MEAN	21.2		18.7		14.9	
HIGHEST ANNUAL MEAN	--		--		26.7	1967
LOWEST ANNUAL MEAN	--		--		6.91	1961
HIGHEST DAILY MEAN	335	Jun 3	256	May 16	354	Jun 15 1953
LOWEST DAILY MEAN	2.0	Mar 8	2.2	Feb 3-16	.60 ^a	Oct 30 1960
ANNUAL SEVEN-DAY MINIMUM	2.1	Mar 5	2.2	Feb 3	.64	Apr 12 1961
INSTANTANEOUS PEAK FLOW	--		413	May 16	886 ^b	Jun 15 1953
INSTANTANEOUS PEAK STAGE	--		4.30	May 16	6.21 ^c	May 14 1984
ANNUAL RUNOFF (AC-FT)	15380		13610		10820	
10 PERCENT EXCEEDS	68		77		43	
50 PERCENT EXCEEDS	4.4		4.4		3.9	
90 PERCENT EXCEEDS	2.3		2.5		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.



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.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Estimated daily discharges: Nov. 2, 3, Dec. 8-10, 21, 22, Jan. 2, 5-7, 17-20, Jan. 24 to Feb. 14, Feb. 26 to Mar. 1, and Mar. 6-8, 24-26. 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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	20	18	20	18	20	18	41	164	46	68	37
2	26	19	18	19	17	21	21	42	153	42	67	37
3	25	20	18	20	17	20	20	43	160	42	62	37
4	25	21	18	21	17	20	19	44	184	41	60	37
5	25	21	18	20	18	20	19	43	192	40	60	37
6	24	21	18	20	19	19	19	45	175	37	59	37
7	24	20	18	21	20	19	21	69	143	36	59	33
8	24	20	17	22	21	20	54	83	139	35	58	32
9	23	21	18	21	21	21	105	74	135	34	58	31
10	23	21	19	21	21	20	92	67	130	34	57	30
11	22	20	21	20	20	20	63	77	123	34	56	30
12	22	20	20	20	19	20	35	93	111	33	55	30
13	22	20	20	20	20	21	27	107	109	37	55	30
14	22	20	19	20	21	19	24	141	102	37	54	30
15	22	20	19	20	21	20	23	114	91	37	53	26
16	22	20	19	20	20	20	24	94	105	37	52	25
17	22	20	19	19	20	19	38	83	89	37	52	25
18	22	20	19	19	20	18	51	80	79	37	52	26
19	22	20	17	20	20	18	47	71	72	37	51	25
20	22	20	17	21	20	19	45	66	69	46	49	24
21	22	19	16	21	20	19	43	63	67	48	49	24
22	21	19	16	22	20	19	42	111	66	49	49	23
23	21	19	17	20	20	20	38	156	63	49	49	22
24	21	19	20	20	20	20	50	158	59	50	48	22
25	21	20	20	19	20	19	67	155	54	50	39	22
26	21	20	20	18	19	18	55	159	53	50	36	23
27	21	20	19	19	18	19	51	159	51	59	35	22
28	20	20	19	19	18	18	45	142	49	66	34	22
29	21	19	19	18	19	19	43	145	49	67	35	22
30	22	19	20	18	---	18	42	198	48	67	35	22
31	21	---	20	19	---	18	---	220	---	67	37	---
TOTAL	699	598	576	617	564	601	1241	3143	3084	1381	1583	843
MEAN	22.5	19.9	18.6	19.9	19.4	19.4	41.4	101	103	44.5	51.1	28.1
MAX	28	21	21	22	21	21	105	220	192	67	68	37
MIN	20	19	16	18	17	18	18	41	48	33	34	22
AC-FT	1390	1190	1140	1220	1120	1190	2460	6230	6120	2740	3140	1670

MEAN	21.5	19.0	18.5	18.1	17.8	17.6	26.9	76.2	90.2	46.4	38.5	30.6
MAX	31.5	21.9	23.1	20.2	20.8	21.0	47.9	176	193	80.5	51.1	46.7
(WY)	1983	1983	1977	1977	1980	1980	1977	1978	1995	1975	1996	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

06311400 NORTH FORK POWDER RIVER BELOW PASS CREEK, NEAR MAYOWORTH, WY--Continued

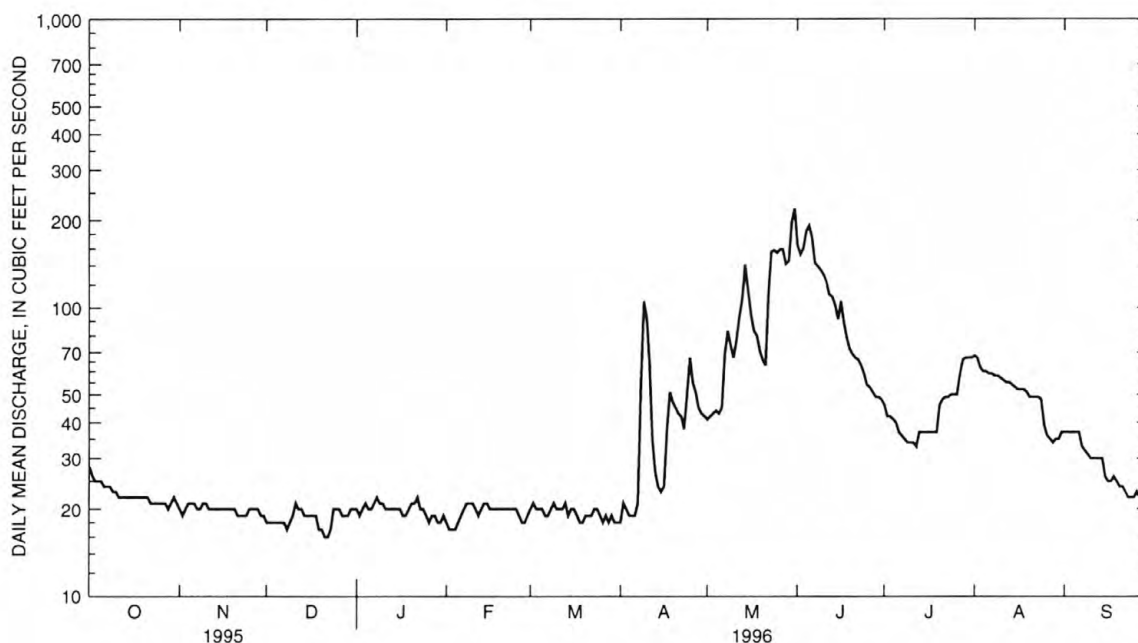
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1974 - 1996
ANNUAL TOTAL	16063	14930	--
ANNUAL MEAN	44.0	40.8	35.2
HIGHEST ANNUAL MEAN	--	--	51.6
LOWEST ANNUAL MEAN	--	--	25.4
HIGHEST DAILY MEAN	379	220	379
LOWEST DAILY MEAN	15	16	9.5
ANNUAL SEVEN-DAY MINIMUM	17	17	11
INSTANTANEOUS PEAK FLOW	--	269 ^a	1590 ^b
INSTANTANEOUS PEAK STAGE	--	5.32 ^c	8.89 ^d
ANNUAL RUNOFF (AC-FT)	31860	29610	25490
10 PERCENT EXCEEDS	87	81	62
50 PERCENT EXCEEDS	21	22	21
90 PERCENT EXCEEDS	18	19	17

a Gage height, 5.16 ft.

b From rating curve extended above 400 ft³/s, on basis of slope-area measurement of peak flow.

c Backwater from ice.

d From floodmarks.



06311400 NORTH FORK POWDER RIVER BELOW PASS CREEK, NEAR MAYOWORTH, WY

YELLOWSTONE RIVER BASIN

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 1995 TO SEPTEMBER 1996

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, 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)
JAN 12...	1315	16	6730	7.8	0.0	11.5	652	9.3	76	850	200	86
MAR 14...	0940	30	4740	8.5	5.0	6.0	649	12.5	117	770	160	91
MAY 29...	0915	41	7120	8.2	10.0	12.5	647	9.4	101	1600	210	250
AUG 21...	0915	3.6	7760	8.5	15.0	20.0	649	7.4	89	360	51	57

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)
JAN 12...	1200	18	28	437	1500	1100	2.6	26	4400	5.99	190
MAR 14...	770	12	18	300	1700	390	1.5	16	3330	4.52	269
MAY 29...	1400	15	19	324	3800	650	1.0	9.0	6530	8.89	723
AUG 21...	1500	34	33	485	1200	1600	2.4	10	4740	6.45	46.1

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.

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: Oct. 22 to Nov. 7, Dec. 7-13, Dec. 18 to Feb. 21, Feb. 26 to Mar. 2, and Mar. 6-11, 24-28. Records fair except those for estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation of about 17,000 acres upstream from station. U.S. Geological Survey data collection platform with satellite telemetry at 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)
May 25	1100	*2,290	*4.81

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	113	198	155	125	180	244	270	797	72	11	12
2	250	102	190	140	100	270	247	259	626	58	16	9.9
3	194	120	182	160	115	367	238	263	557	44	12	7.6
4	174	145	166	145	140	369	279	274	536	37	12	6.5
5	172	180	157	130	150	360	247	280	524	31	10	4.7
6	160	175	153	125	160	310	221	256	453	26	9.4	5.1
7	152	170	125	130	180	295	209	285	418	23	9.6	7.5
8	157	172	100	135	200	310	221	391	366	20	9.6	7.8
9	167	196	120	140	230	330	464	496	340	20	10	8.2
10	159	206	160	135	215	450	612	479	324	21	11	7.5
11	146	193	230	140	205	560	600	451	310	28	9.2	7.8
12	133	203	260	150	205	394	518	540	315	36	11	7.3
13	123	219	250	160	220	327	347	630	308	25	10	7.1
14	120	219	248	155	210	349	304	754	269	20	8.8	9.7
15	121	202	214	160	200	272	270	1010	292	16	12	12
16	126	195	198	155	215	237	248	1020	293	14	14	18
17	125	188	201	130	225	233	248	985	403	13	14	17
18	125	185	150	115	240	208	290	818	347	11	12	14
19	124	180	135	130	290	189	357	603	251	11	10	17
20	127	177	130	140	350	181	471	452	203	10	7.7	26
21	115	169	125	150	400	181	404	349	182	10	5.8	35
22	112	166	130	145	257	192	360	302	171	9.3	6.4	33
23	105	182	135	150	231	204	321	338	174	8.7	6.5	35
24	115	179	140	165	213	170	290	754	158	8.4	6.9	35
25	123	176	150	150	201	155	332	1770	151	8.9	8.1	32
26	135	181	145	150	180	190	440	1580	127	8.6	5.5	41
27	127	184	140	160	165	250	360	1540	107	8.1	5.5	70
28	118	178	135	165	150	230	329	1200	88	8.0	5.3	85
29	125	164	140	155	135	191	298	938	73	8.5	7.7	76
30	129	187	155	145	---	189	284	799	78	8.8	8.3	72
31	122	---	170	140	---	223	---	793	---	9.5	13	---
TOTAL	4595	5306	5132	4505	5907	8366	10053	20879	9241	632.8	298.3	726.7
MEAN	148	177	166	145	204	270	335	674	308	20.4	9.62	24.2
MAX	414	219	260	165	400	560	612	1770	797	72	16	85
MIN	105	102	100	115	100	155	209	256	73	8.0	5.3	4.7
AC-FT	9110	10520	10180	8940	11720	16590	19940	41410	18330	1260	592	1440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

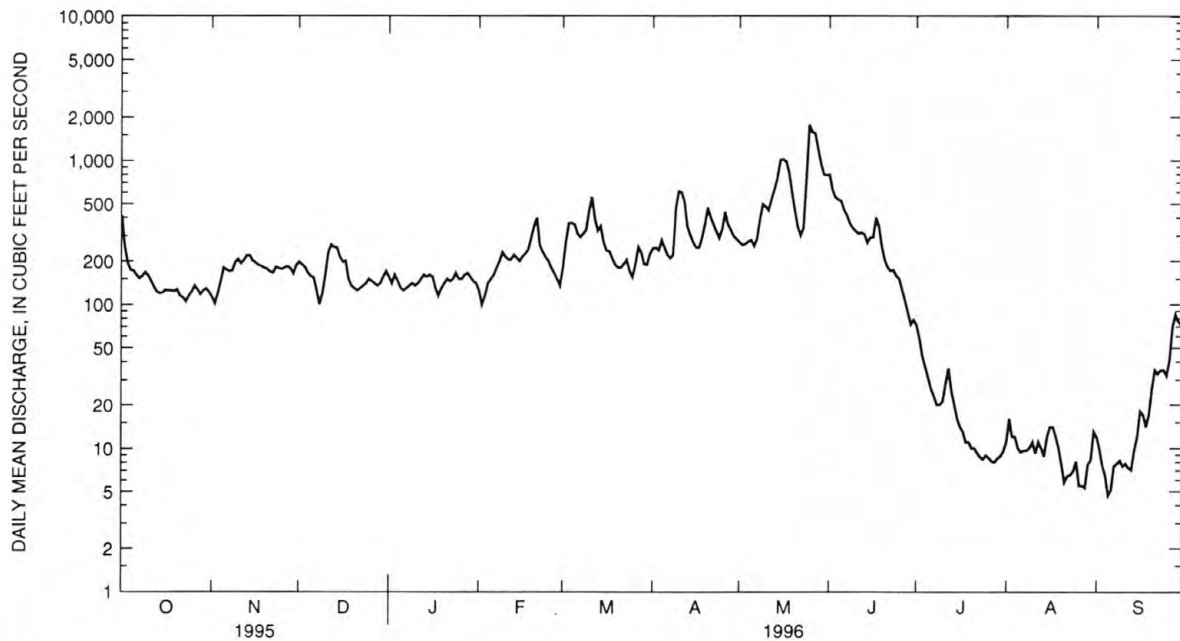
	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
MEAN	138	127	114	113	169	272	269	582	367	131	54.8	69.1
MAX	838	202	176	177	335	701	553	2553	1477	374	125	448
(WY)	1995	1987	1995	1983	1980	1987	1987	1978	1995	1978	1983	1982
MIN	24.2	77.7	79.5	58.6	69.4	110	136	72.0	22.2	20.4	3.54	4.90
(WY)	1957	1953	1991	1940	1939	1940	1953	1992	1954	1996	1939	1939

06313500 POWDER RIVER AT SUSSEX, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1938 - 1996	
ANNUAL TOTAL	138363.0		75641.8		--	
ANNUAL MEAN	379		207		204	
HIGHEST ANNUAL MEAN	--		--		486	
LOWEST ANNUAL MEAN	--		--		115	
HIGHEST DAILY MEAN	8820	May 9	1770	May 25	14100	May 23 1952
LOWEST DAILY MEAN	5.0	Sep 13	4.7	Sep 5	1.5	Aug 25 1939
ANNUAL SEVEN-DAY MINIMUM	5.6	Sep 7	6.3	Aug 22	2.6	Aug 23 1939
INSTANTANEOUS PEAK FLOW	--		2290		32500 ^a	
INSTANTANEOUS PEAK STAGE	--		4.81		4374.76 ^b	
ANNUAL RUNOFF (AC-FT)	274400		150000		147400	
10 PERCENT EXCEEDS	1260		407		412	
50 PERCENT EXCEEDS	175		160		123	
90 PERCENT EXCEEDS	25		9.6		24	

a From rating curve extended above 1,500 ft³/s, on basis of slope-area measurement of peak flow.

b From floodmarks, site and datum then in use.



06313500 POWDER RIVER AT SUSSEX, WY

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 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	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 HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
NOV												
07...	1045	171	1900	8.3	0.5	-0.5	655	10.8	88	560	140	51
JAN												
12...	1115	152	1790	7.9	0.0	13.0	655	10.4	83	480	120	43
MAR												
14...	1400	366	2140	8.0	7.5	12.0	650	15.3	151	540	130	51
MAY												
07...	0940	295	1280	7.9	12.0	13.0	649	8.7	95	330	82	31
29...	1240	928	1580	8.0	10.5	18.5	650	7.6	80	380	88	38
JUL												
10...	0930	19	4590	8.0	19.0	25.0	650	7.1	91	870	200	91
AUG												
02...	1150	17	4320	7.8	25.0	32.5	649	8.3	120	950	220	96
21...	1115	6.3	4640	8.1	19.5	24.0	651	8.0	104	770	160	90
SEP												
10...	0910	7.6	4370	7.9	12.5	23.0	657	7.8	86	860	190	93
25...	0905	31	2730	8.0	6.5	1.5	650	9.0	87	640	150	64

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM, AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
NOV											
07...	190	3	4.9	207	680	96	0.5	8.5	1300	1.76	598
JAN											
12...	180	4	5.3	236	480	150	0.6	11	1130	1.54	465
MAR											
14...	270	5	6.1	167	830	84	0.7	8.7	1480	2.02	1470
MAY											
07...	130	3	3.8	166	390	78	0.4	7.9	823	1.12	655
29...	180	4	5.4	126	640	33	0.5	8.5	1070	1.46	2680
JUL											
10...	610	9	19	239	1400	490	1.2	10	2960	4.03	152
AUG											
02...	590	8	19	206	1500	440	1.1	8.7	3000	4.08	138
21...	760	12	17	284	910	460	0.8	5.2	2570	3.50	43.8
SEP											
10...	630	9	19	209	1400	530	1.3	3.5	2990	4.07	61.4
25...	350	6	11	215	820	280	0.8	8.3	1810	2.47	152

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, 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)
JAN												
12...	1115	152	20	<1	31	<0.5	220	1.0	<1	<3	<1	<3
MAR												
14...	1400	366	20	<1	35	<1	220	<2.0	<1	<6	<1	43
MAY												
29...	1240	928	<10	<1	27	<0.5	130	<1.0	10	<3	3	<3
AUG												
02...	1150	17	10	<1	45	<2	640	<4.0	<1	<10	1	<12

YELLOWSTONE RIVER BASIN

06313500 POWDER RIVER AT SUSSEX, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
JAN 12...	<1	72	9	0.7	<10	<10	1	<1.0	1500	<6	<3
MAR 14...	<1	92	9	0.2	<20	<20	4	<2.0	1700	<12	11
MAY 29...	<1	59	5	0.3	<10	<10	4	<1.0	1000	<6	20
AUG 02...	<2	240	40	0.8	<40	<40	2	<4.0	3600	<24	<12

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 1995 TO SEPTEMBER 1996

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)
APR 17...	1435	66	1080	8.0	13.0	17.0	654	8.8
JUN 10...	1425	242	601	7.7	22.5	28.5	667	6.6
AUG 27...	0820	3.2	2730	7.9	18.0	20.5	665	6.6

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ 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- SOLVED PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- SOLVED PENDEDED (T/DAY) (80155)
APR 17...	98	<0.01	0.11	0.02	<0.01	239	43
JUN 10...	88	<0.01	0.08	0.02	0.02	848	554
AUG 27...	81	<0.01	<0.05	0.02	<0.01	110	0.95

06317000 POWDER RIVER AT ARVADA, WY

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.

WATER-DISCHARGE RECORDS

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: Oct. 17 to Mar. 20, Mar. 24-28, and May 27 to June 10. Records fair except those for Oct. 1 to June 10, which are poor. Numerous small reservoirs and diversions for irrigation of about 29,000 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--No peaks greater than base discharge of 2,800 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	92	150	93	45	175	353	332	940	170	17	6.2
2	203	46	135	88	52	180	341	328	840	158	15	3.9
3	371	54	125	82	58	165	355	312	680	139	14	12
4	314	80	110	77	68	150	348	317	600	129	12	17
5	267	97	95	76	120	140	339	289	560	121	11	18
6	226	89	73	85	220	130	341	275	580	108	8.3	15
7	204	100	64	91	360	120	309	280	520	97	8.4	13
8	190	115	58	99	550	155	263	282	520	86	7.0	10
9	203	105	70	105	490	510	237	290	520	76	5.8	8.7
10	207	140	78	110	615	880	229	419	525	67	10	8.1
11	189	155	88	115	900	1600	704	517	530	63	4.9	6.8
12	214	170	94	120	680	2300	796	488	518	57	2.8	6.2
13	223	160	100	110	600	1900	746	484	510	63	3.1	5.4
14	222	155	91	110	520	1250	562	618	576	58	5.8	4.8
15	147	150	87	100	450	970	437	663	476	54	8.8	5.6
16	119	147	83	75	365	800	356	768	476	47	9.5	6.0
17	116	144	80	53	305	660	343	914	413	46	6.4	15
18	117	140	84	62	275	525	307	844	477	40	6.7	16
19	110	130	78	72	250	420	315	925	501	35	35	16
20	125	120	81	84	240	380	404	819	527	32	21	15
21	120	130	82	87	260	366	392	697	394	29	8.9	17
22	120	150	83	81	240	351	456	561	314	26	5.1	20
23	115	155	90	86	210	347	335	546	284	25	3.5	22
24	110	160	94	81	220	260	319	610	265	23	2.8	22
25	120	165	115	75	150	300	342	745	247	20	2.0	28
26	130	155	110	87	170	470	319	1700	237	23	1.6	39
27	130	140	105	80	185	900	324	1800	229	20	.22	49
28	130	150	105	70	180	500	454	1700	209	17	.00	53
29	140	150	110	58	170	370	453	1430	197	15	10	53
30	145	160	110	63	---	415	399	1220	181	15	24	54
31	140	---	105	70	---	414	---	1030	---	16	13	---
TOTAL	5275	3904	2933	2645	8948	18103	11878	22203	13846	1875	283.62	565.7
MEAN	170	130	94.6	85.3	309	584	396	716	462	60.5	9.15	18.9
MAX	371	170	150	120	900	2300	796	1800	940	170	35	54
MIN	108	46	58	53	45	120	229	275	181	15	.00	3.9
AC-FT	10460	7740	5820	5250	17750	35910	23560	44040	27460	3720	563	1120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
MEAN	133	124	97.9	87.9	169	399	355	734	772	263	95.5	73.4
MAX	865	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

06317000 POWDER RIVER AT ARVADA, WY--Continued

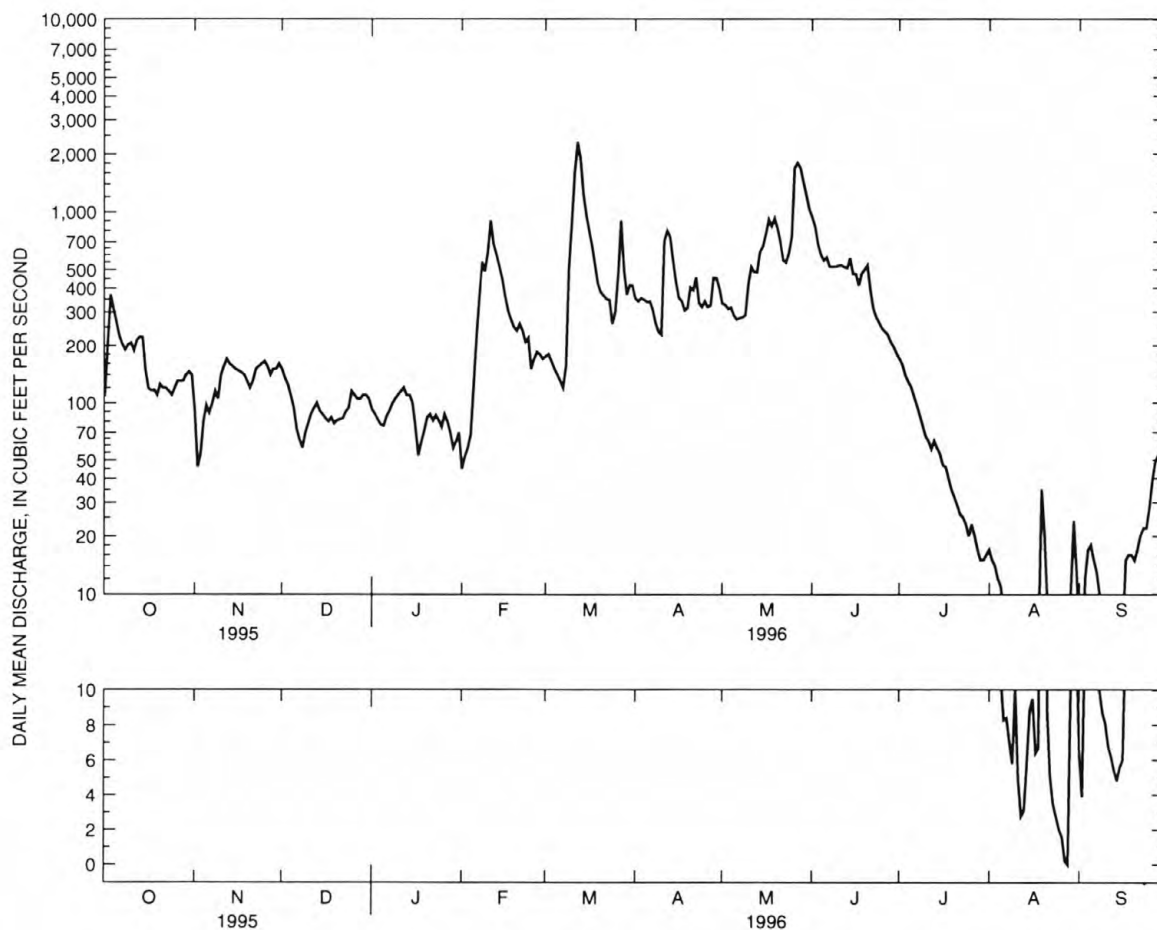
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	204225		92459.32		--	
ANNUAL MEAN	560		253		277	
HIGHEST ANNUAL MEAN	--		--		735	
LOWEST ANNUAL MEAN	--		--		70.3	
HIGHEST DAILY MEAN	8230	Jun 11	2300	Mar 12	22600	May 20 1978
LOWEST DAILY MEAN	15	Sep 13	.00	Aug 28	.00	Jul 13 1931
ANNUAL SEVEN-DAY MINIMUM	17	Sep 7	2.2	Aug 22	.00	Jul 24 1932
INSTANTANEOUS PEAK FLOW	--	--	a	--	100000 ^b	Sep 29 1923
INSTANTANEOUS PEAK STAGE	--	--	8.10 ^c	Mar 12	23.70 ^d	Sep 29 1923
ANNUAL RUNOFF (AC-FT)	405100		183400		200700	
10 PERCENT EXCEEDS	1730		586		590	
50 PERCENT EXCEEDS	205		137		127	
90 PERCENT EXCEEDS	56		13		15	

a Not determined, probably occurred Mar. 12 during period of estimated discharge.

b About, from rating curve extended above 20,000 ft³/s.

c From floodmarks, backwater from ice.

d From floodmarks, site and datum then in use.



06317000 POWDER RIVER AT ARVADA, WY

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 1995 TO SEPTEMBER 1996

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)	
DEC 14...	1610	91	2700	7.9	5.0	0.0	672	9.2	83	
MAR 20...	1305	399	2110	8.2	6.0	8.0	669	11.3	104	
MAY 26...	1555	2010	1380	7.6	10.5	14.5	668	8.9	92	
JUN 10...	1630	525	1080	7.9	26.5	27.0	673	7.2	102	
AUG 27...	0940	0.25	3650	7.9	18.5	25.5	668	8.9	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)
DEC 14...	830	190	87	300	5	6.4	273	1100	150	
MAR 20...	600	140	60	240	4	6.5	189	820	91	
MAY 26...	--	--	--	--	--	--	--	--	--	
JUN 10...	290	70	29	100	3	4.4	123	310	36	
AUG 27...	1200	250	140	430	5	59	173	1700	190	
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)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	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)	
DEC 14...	0.50	9.0	2010	2.73	493	--	--	--	--	
MAR 20...	0.50	7.8	1480	2.01	1590	--	--	--	--	
MAY 26...	--	--	--	--	--	14400	7810	--	1	
JUN 10...	0.40	9.9	633	0.86	898	--	--	--	--	
AUG 27...	0.30	1.4	2870	3.91	1.94	--	--	--	--	

YELLOWSTONE RIVER BASIN

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. Result of discharge measurement, in cubic feet per second, made during period when station was not in operation, is given below:

Oct. 2 . . . 18.4

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the U.S. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.8	16	194	54	32	22
2	---	---	---	---	---	---	8.3	17	187	54	32	22
3	---	---	---	---	---	---	13	15	202	54	32	22
4	---	---	---	---	---	---	10	17	253	52	32	22
5	---	---	---	---	---	---	9.2	16	311	50	31	22
6	---	---	---	---	---	---	10	18	248	49	32	25
7	---	---	---	---	---	---	24	25	226	46	32	24
8	---	---	---	---	---	---	63	37	261	40	31	22
9	---	---	---	---	---	---	69	34	274	38	30	20
10	---	---	---	---	---	---	73	27	246	41	30	18
11	---	---	---	---	---	---	57	30	245	37	29	18
12	---	---	---	---	---	---	33	41	216	35	28	17
13	---	---	---	---	---	---	24	61	221	32	28	17
14	---	---	---	---	---	---	19	100	185	31	28	20
15	---	---	---	---	---	---	18	124	170	30	28	34
16	---	---	---	---	---	---	23	173	205	28	26	31
17	---	---	---	---	---	---	30	264	157	27	23	27
18	---	---	---	---	---	---	26	191	142	26	23	28
19	---	---	---	---	---	---	23	140	116	29	23	25
20	---	---	---	---	---	---	18	115	97	30	22	19
21	---	---	---	---	---	---	16	105	98	27	22	19
22	---	---	---	---	---	---	15	116	103	27	22	19
23	---	---	---	---	---	---	15	155	100	26	23	19
24	---	---	---	---	---	---	21	166	82	26	22	17
25	---	---	---	---	---	---	27	176	81	26	19	19
26	---	---	---	---	---	---	23	209	78	30	18	18
27	---	---	---	---	---	---	23	207	80	30	17	17
28	---	---	---	---	---	---	19	187	77	30	17	21
29	---	---	---	---	---	---	16	189	65	32	18	22
30	---	---	---	---	---	---	16	207	58	36	24	21
31	---	---	---	---	---	---	---	216	---	36	23	---
TOTAL	---	---	---	---	---	---	745.3	3394	4978	1109	797	647
MEAN	---	---	---	---	---	---	24.8	109	166	35.8	25.7	21.6
MAX	---	---	---	---	---	---	73	264	311	54	32	34
MIN	---	---	---	---	---	---	3.8	15	58	26	17	17
AC-FT	---	---	---	---	---	---	1480	6730	9870	2200	1580	1280

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
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

06320000 ROCK CREEK NEAR BUFFALO, WY--Continued

SUMMARY STATISTICS

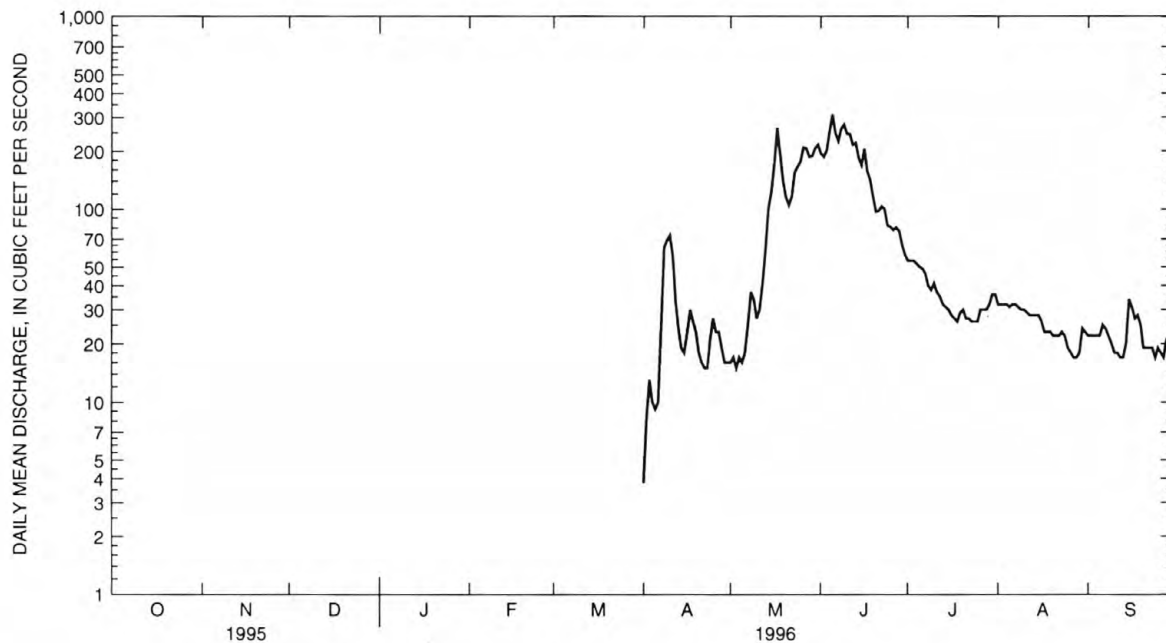
FOR 1996 WATER YEAR*

WATER YEARS 1945 - 1971

ANNUAL MEAN	--		34.7	
HIGHEST ANNUAL MEAN	--		54.7	1963
LOWEST ANNUAL MEAN	--		16.1	1954
HIGHEST DAILY MEAN	311	Jun 5	945	Jun 9 1968#
LOWEST DAILY MEAN	3.8	Apr 1	.50	Sep 19 1954#
ANNUAL SEVEN-DAY MINIMUM	--		.59	Sep 17 1954
INSTANTANEOUS PEAK FLOW	352	Jun 9	1860 ^a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	5.61	Jun 9	7.98	Jun 15 1963#
ANNUAL RUNOFF (AC-FT)	--		25120	
10 PERCENT EXCEEDS	--		102	
50 PERCENT EXCEEDS	--		8.2	
90 PERCENT EXCEEDS	--		3.7	

* During period of operation.

For period of record through 1996.

a From rating curve extended above 450 ft³/s on basis of slope-area measurement of peak flow.

06320000 ROCK CREEK NEAR BUFFALO, WY

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 1995 TO SEPTEMBER 1996

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							
17...	1230	78	637	8.1	9.5	15.5	652
MAR							
20...	1615	54	920	8.4	7.0	14.5	647
JUN							
05...	1315	922	124	7.1	12.0	21.0	649
AUG							
26...	1145	11	1040	8.0	19.0	31.0	651

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							
17...	10.5	108	33	<0.01	0.07	<0.02	0.01
MAR							
20...	11.3	110	K2	0.01	0.07	0.14	0.05
JUN							
05...	8.6	94	470	<0.01	0.07	0.03	0.02
AUG							
26...	10.4	132	180	<0.01	<0.05	<0.02	0.02

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

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.

PERIOD OF RECORD.--September 1945 to September 1957 (no winter records prior to 1948), October 1959 to current year (no winter records since 1971).

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.

Oct. 10 . . . 11.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1971, BY WATER YEAR (WY)

MEAN	15.0	9.77	8.20	6.93	6.21	6.29	10.1	47.9	163	113	82.7	38.5
MAX	26.8	16.8	14.2	12.4	11.7	10.6	27.0	153	321	169	123	70.9
(WY)	1962	1960	1968	1968	1968	1968	1949	1948	1963	1964	1964	1967
MIN	6.47	.52	1.94	1.26	1.27	1.58	1.27	2.77	66.4	74.1	30.9	17.0
(WY)	1967	1967	1964	1964	1964	1964	1960	1967	1954	1956	1954	1954

06320500 SOUTH PINEY CREEK AT WILLOW PARK, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

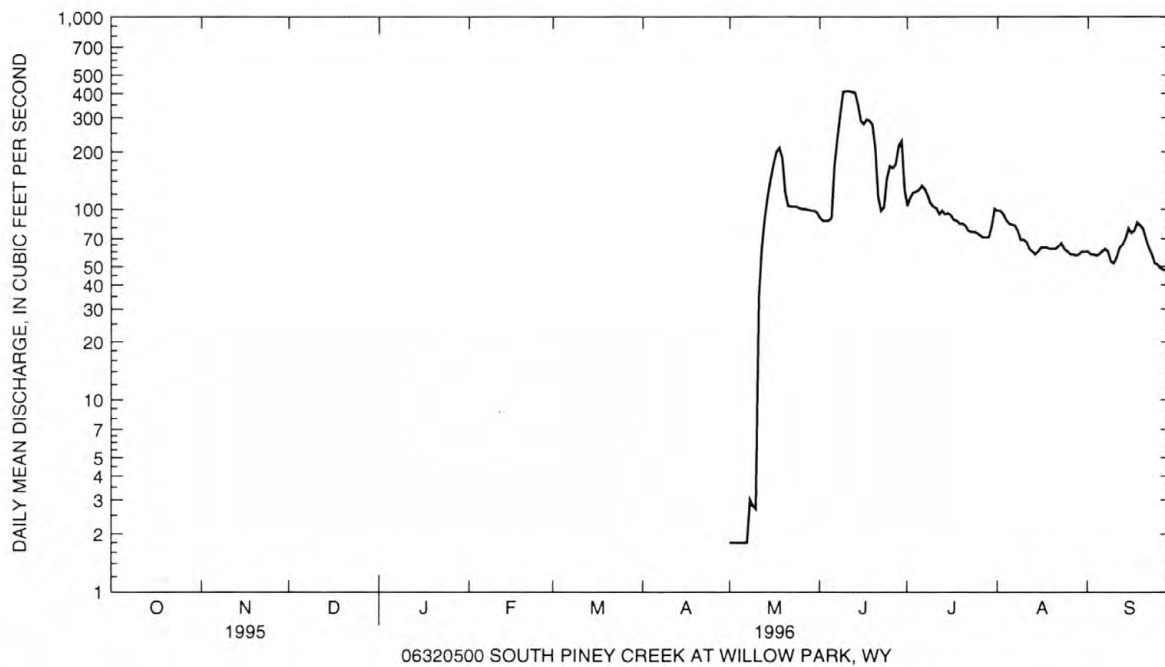
WATER YEARS 1947 - 1971

ANNUAL MEAN	--		42.4 ^a	
HIGHEST ANNUAL MEAN	--		55.9	1963
LOWEST ANNUAL MEAN	--		27.5	1960
HIGHEST DAILY MEAN	411	Jun 10, 11	1080	Jun 16 1963#
LOWEST DAILY MEAN	1.8	May 1-7	.13 ^b	May 1-6 1989#
ANNUAL SEVEN-DAY MINIMUM	--		.33	Nov 19 1966
INSTANTANEOUS PEAK FLOW	450	Jun 8	1620 ^c	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.16	Jun 8	5.68	Jun 15 1963#
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 1996.

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.

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LOCATION.--Lat 44°32'08", long 106°49'18", in NE¹/₄ NE¹/₄ SW¹/₄ sec.26, T.53 N., R.83 W., Johnson County, Hydrologic Unit 10090206, on right bank at Kearny, 300 ft northeast of Historical Monument and 2.0 mi upstream from Little Piney Creek.

PERIOD OF RECORD.--September 1902 to June 1906, June to August 1910, May 1911 to July 1917, May 1919 to September 1923 (no winter records), October 1940 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 4,655.11 ft above sea level. Sept. 6, 1902, to June 30, 1906, nonrecording gage at site 50 ft upstream at different datum. May 14, 1911, to July 31, 1917, and May 1, 1919, to Sept. 30, 1923, nonrecording gage at site 50 ft upstream at present datum.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	61	62	41	23	20	31	77	396	183	26	7.9
2	22	50	62	39	23	21	33	66	378	177	25	7.9
3	19	61	50	41	22	22	34	57	389	155	21	8.7
4	30	82	62	39	22	23	31	57	415	142	18	7.9
5	37	85	45	36	23	22	32	53	463	142	15	7.6
6	53	75	43	36	24	21	38	54	484	144	13	7.2
7	70	71	42	37	24	20	58	61	541	140	12	7.2
8	74	72	41	38	25	20	75	75	635	109	10	7.6
9	72	77	40	39	26	21	91	82	770	90	9.9	7.6
10	69	68	40	40	25	22	102	75	759	80	9.9	7.6
11	75	72	41	39	26	23	114	75	754	62	9.5	7.2
12	78	71	42	40	26	25	95	90	696	50	8.7	9.1
13	74	66	44	41	27	28	90	123	660	52	8.7	9.5
14	69	66	45	41	26	31	80	192	592	60	8.7	9.5
15	69	68	43	39	25	31	75	251	519	60	8.3	11
16	66	65	43	35	24	31	80	290	706	53	9.5	9.9
17	66	63	42	32	25	29	90	385	670	46	9.9	9.9
18	69	62	41	30	25	28	86	587	601	40	10	15
19	68	63	40	30	26	28	95	564	510	36	10	22
20	66	56	39	29	27	28	86	459	370	34	11	31
21	68	60	39	30	26	31	83	419	245	32	12	24
22	71	64	38	29	25	30	80	412	202	29	12	7.6
23	66	58	38	29	24	28	80	463	230	25	11	12
24	68	58	38	28	23	27	101	463	236	24	9.5	16
25	69	58	39	27	22	25	106	453	266	22	9.1	17
26	69	60	39	26	21	26	95	476	260	20	8.7	18
27	68	54	40	26	21	27	90	459	242	16	8.3	15
28	63	58	41	25	20	26	85	423	285	16	8.3	19
29	72	62	42	24	20	27	83	415	328	17	9.5	21
30	66	63	43	24	---	28	82	425	222	19	9.5	22
31	60	---	41	24	---	30	---	443	---	32	8.3	---
TOTAL	1925	1949	1345	1034	696	799	2301	8524	13824	2107	360.3	382.9
MEAN	62.1	65.0	43.4	33.4	24.0	25.8	76.7	275	461	68.0	11.6	12.8
MAX	78	85	62	41	27	31	114	587	770	183	26	31
MIN	19	50	38	24	20	20	31	53	202	16	8.3	7.2
AC-FT	3820	3870	2670	2050	1380	1580	4560	16910	27420	4180	715	750

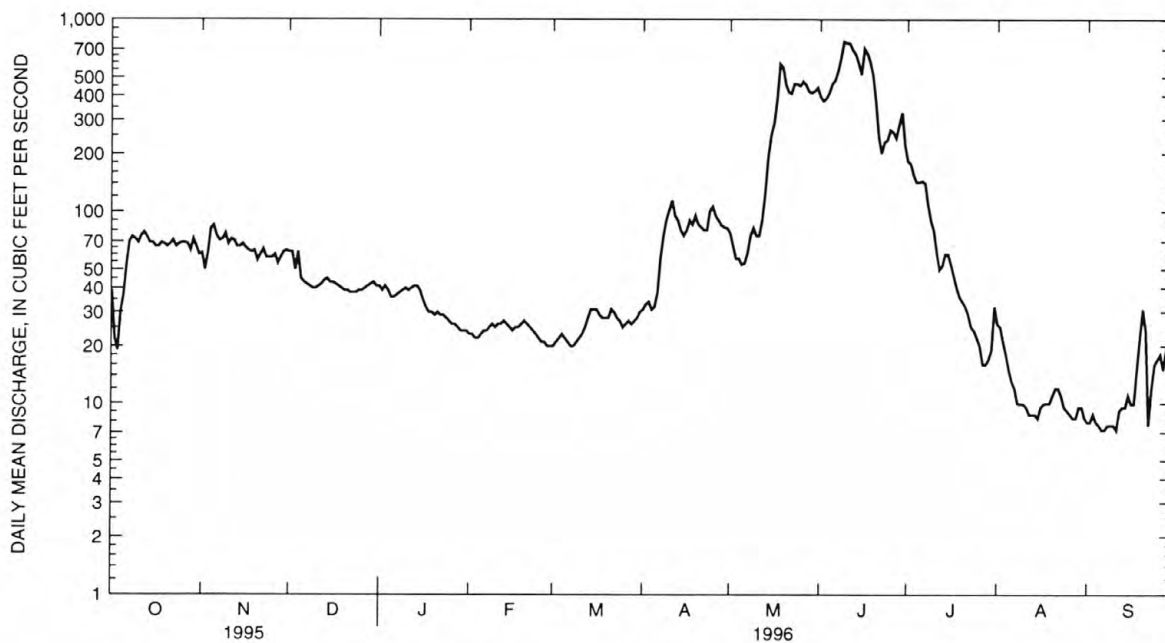
MEAN	29.9	35.3	30.9	27.0	26.3	30.7	69.8	273	378	94.0	27.9	25.5
MAX	85.4	67.7	53.6	42.7	54.4	72.8	204	683	911	413	130	185
(WY)	1913	1962	1977	1973	1962	1972	1943	1944	1995	1975	1978	1923
MIN	8.84	13.0	13.4	12.3	10.7	16.7	15.8	43.3	33.8	13.0	7.98	3.47
(WY)	1965	1955	1966	1967	1960	1957	1981	1985	1985	1985	1980	1981

YELLOWSTONE RIVER BASIN

06323000 PINEY CREEK AT KEARNY, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1903 - 1996	
ANNUAL TOTAL	56194		35247.2		--	
ANNUAL MEAN	154		96.3		85.5	
HIGHEST ANNUAL MEAN	--		--		168	1944
LOWEST ANNUAL MEAN	--		--		27.8	1985
HIGHEST DAILY MEAN	1670	Jun 16	770	Jun 9	1780	Jun 15 1963
LOWEST DAILY MEAN	11	Sep 15,16,18	7.2	Sep 6,7,11	1.9	Oct 3 1981
ANNUAL SEVEN-DAY MINIMUM	12	Sep 12	7.4	Sep 5	2.1	Sep 14-18 1985
INSTANTANEOUS PEAK FLOW	--		820	Jun 11	3410 ^a	Sep 13 1985
INSTANTANEOUS PEAK STAGE	--		3.98	Jun 11	6.05	Jun 15 1963
ANNUAL RUNOFF (AC-FT)	111500		69910		61950	Jun 15 1963
10 PERCENT EXCEEDS	451		301		254	
50 PERCENT EXCEEDS	45		40		33	
90 PERCENT EXCEEDS	19		10		14	

a From rating curve extended above 1,800 ft³/s.



06323000 PINEY CREEK AT KEARNY, WY

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. Station operated and record provided by Montana District.

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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	312	345	e150	e80	e180	490	544	1920	706	32	46
2	227	259	378	e140	e55	e160	438	519	1780	568	28	41
3	342	e70	331	e150	e65	e160	405	487	1710	488	82	35
4	461	e100	316	e140	e90	e150	440	458	1540	428	58	33
5	416	e150	316	e120	e150	e140	464	440	1520	384	47	32
6	372	e200	270	e130	e300	e130	456	421	1760	403	39	31
7	323	e170	e140	e150	e500	e130	464	407	1820	309	42	25
8	321	e190	e120	e160	e700	e110	445	407	1690	249	45	22
9	323	e200	e100	e170	e900	e150	451	434	1740	227	43	20
10	317	e160	e130	e180	e800	e400	597	527	1890	176	44	21
11	304	e250	e150	e190	e1000	e800	748	680	1920	144	36	21
12	294	e350	e160	e210	e1300	e2000	1200	680	1850	111	32	23
13	288	484	e180	e230	e1200	e3500	1180	668	1800	88	29	23
14	299	444	e170	e190	e1100	3070	1050	713	1900	77	23	22
15	300	406	e160	e200	e1000	1770	837	865	2680	76	21	23
16	276	400	e150	e220	e900	1280	699	1080	1620	68	18	21
17	265	396	e150	e130	674	994	609	1160	1720	59	17	35
18	258	389	e140	e80	590	808	557	1160	1670	49	18	34
19	254	371	e150	e90	497	670	531	1160	1560	63	22	32
20	248	349	e130	e120	491	559	515	1160	1510	57	25	32
21	250	347	e140	e150	465	506	567	1160	1280	50	40	34
22	247	325	e140	e130	531	483	652	1050	1070	48	34	43
23	254	314	e150	e140	501	488	692	916	932	41	29	57
24	280	329	e150	e120	420	464	647	1040	894	37	23	66
25	273	326	e160	e110	458	e140	555	1390	866	37	24	70
26	269	325	e170	e120	e250	e250	490	1710	834	36	23	87
27	282	332	e160	e100	e130	e350	490	2460	803	39	24	97
28	280	354	e160	e110	e170	e400	517	2510	765	36	22	107
29	286	337	e160	e90	e190	e450	637	2500	740	36	26	123
30	297	320	e160	e70	---	464	612	2180	789	32	35	123
31	317	---	e170	e75	---	525	---	2050	---	31	46	---
TOTAL	9159	8959	5706	4365	15507	21681	18435	32936	44573	5153	1027	1379
MEAN	295	299	184	141	535	699	614	1062	1486	166	33.1	46.0
MAX	461	484	378	230	1300	3500	1200	2510	2680	706	82	123
MIN	227	70	100	70	55	110	405	407	740	31	17	20
AC-FT	18170	17770	11320	8660	30760	43000	36570	65330	88410	10220	2040	2740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)*

	MEAN	221	219	158	148	289	631	509	1059	1405	478	168	142
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	

06324500 POWDER RIVER AT MOORHEAD, MT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1930 - 1996*	
ANNUAL TOTAL	271739		168880		--	
ANNUAL MEAN	744		461		452	
HIGHEST ANNUAL MEAN			--		1091	1978
LOWEST ANNUAL MEAN			--		109	1961
HIGHEST DAILY MEAN	6850	May 11	3500	Mar 13	27500	May 20 1978
LOWEST DAILY MEAN	36	Sep 10	17	Aug 17	.00	Jul 15 1931
ANNUAL SEVEN-DAY MINIMUM	45	Sep 8	21	Aug 14	.00	Sep 4 1960
INSTANTANEOUS PEAK FLOW	--		a	Mar 12 or 13	33000 ^b	May 20 1978
INSTANTANEOUS PEAK STAGE	--		7.23 ^a	Mar 12	17.70 ^c	Mar 21 1956
INSTANTANEOUS LOW FLOW	--		16	Aug 16	.00	at times
ANNUAL RUNOFF (AC-FT)	539000		335000		327500	
10 PERCENT EXCEEDS	2060		1190		1050	
50 PERCENT EXCEEDS	300		274		214	
90 PERCENT EXCEEDS	80		34		45	

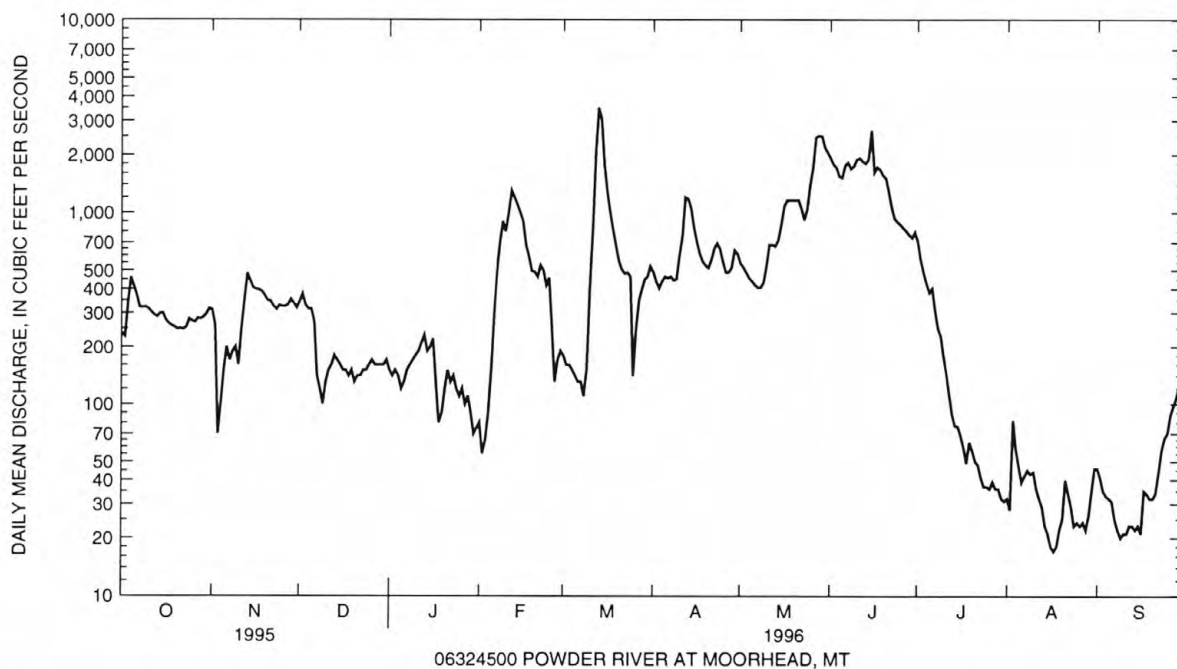
* During period of operation (1930-32, 1975 to current year).

a Backwater from ice.

b Gage height, 15.24 ft.

c Ice jam, site and datum then in use.

e Estimated.



YELLOWSTONE RIVER BASIN

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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, 3 mg/L, Sept. 16-18, 1996.

SEDIMENT LOAD: Maximum daily, 2,230,000 tons, May 20, 1978; minimum daily, 0.17 ton, Aug. 1, 1988 and Sept. 16, 1996.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum observed daily mean, 13,700 mg/L, May 28; minimum observed daily mean, 3 mg/L, Sept. 16-18.

SEDIMENT LOAD: Maximum observed daily, 92,800 tons, May 28; minimum observed daily, .17 tons, Sept. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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- 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 04...	1445	480	1980	7.5	9.5	2430	3150	97
FEB 22...	1430	439	--	1.5	2.5	420	498	80
MAY 02...	0915	545	1290	8.0	9.0	910	1340	81
JUN 14...	0930	1830	462	19.5	21.0	1940	9560	36
JUL 16...	1520	67	--	29.0	28.0	44	8.0	95
AUG 28...	0910	22	905	20.0	19.0	27	1.6	--

YELLOWSTONE RIVER BASIN

06324500 POWDER RIVER AT MOORHEAD, MT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	170	83
2									---	---	177	76
3									---	---	172	74
4									---	---	182	74
5									---	---	155	59
6									---	---	147	52
7									---	---	158	55
8									---	---	244	72
9									---	---	251	102
10									---	---	263	284
11									---	---	1370	2960
12									---	---	10800	58300
13									---	---	6670	63000
14									---	---	5800	48100
15									---	---	3710	17700
16									---	---	3130	10800
17									---	---	2550	6840
18									---	---	1890	4120
19									438	588	1390	2510
20									486	644	1070	1610
21									479	601	891	1220
22									499	715	769	1000
23									535	724	730	962
24									719	815	750	940
25									625	773	437	165
26									510	344	603	407
27									228	80	325	307
28									171	78	462	499
29									157	81	1280	1560
30									---	---	974	1220
31									---	---	1060	1500
TOTAL									---	---	---	226651
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1230	1630	1100	1620	4970	25800	255	486	25	2.2	19	2.4
2	1030	1220	885	1240	3500	16800	168	258	25	1.9	19	2.1
3	848	927	720	947	2780	12800	133	175	31	6.9	18	1.7
4	790	939	625	773	2930	12200	125	144	28	4.4	19	1.7
5	755	946	531	631	2210	9070	95	98	25	3.2	19	1.6
6	788	970	484	550	2810	13400	82	89	22	2.3	19	1.6
7	928	1160	437	480	2240	11000	77	64	20	2.3	18	1.2
8	1020	1230	437	480	1600	7300	71	48	20	2.4	18	1.1
9	934	1140	507	594	1360	6390	59	36	22	2.6	15	.81
10	1290	2080	649	923	1480	7550	45	21	27	3.2	16	.91
11	1440	2910	1480	2720	1480	7670	40	16	30	2.9	28	1.6
12	3930	12700	1530	2810	1460	7290	49	15	32	2.8	18	1.1
13	4830	15400	1350	2430	1380	6710	76	18	34	2.7	6	.37
14	4210	11900	1450	2790	2170	11100	75	16	36	2.2	4	.24
15	2900	6550	2440	5700	6950	50300	59	12	38	2.2	4	.25
16	1930	3640	3240	9450	2050	8970	47	8.6	38	1.8	3	.17
17	1190	1960	3940	12300	1620	7520	44	7.0	36	1.7	3	.28
18	936	1410	4810	15100	1440	6490	46	6.1	28	1.4	3	.28
19	772	1110	4320	13500	1360	5730	53	9.0	18	1.1	6	.52
20	644	895	3690	11600	1630	6650	53	8.2	12	.81	8	.69
21	655	1000	2870	8990	1850	6390	46	6.2	10	1.1	8	.73
22	1090	1920	2100	5950	2180	6300	36	4.7	11	1.0	14	1.6
23	1570	2930	1600	3960	1990	5010	26	2.9	16	1.3	26	4.0
24	1560	2730	1490	4180	1770	4270	24	2.4	23	1.4	30	5.3
25	2110	3160	2000	7510	1390	3250	29	2.9	25	1.6	30	5.7
26	2270	3000	2840	13100	876	1970	35	3.4	26	1.6	30	7.0
27	1900	2510	10800	71700	576	1250	42	4.4	27	1.7	29	7.6
28	1710	2390	13700	92800	460	950	37	3.6	26	1.5	28	8.1
29	1760	3030	11600	78300	301	601	28	2.7	23	1.6	28	9.3
30	1300	2150	9580	56400	296	631	24	2.1	20	1.9	28	9.3
31	---	---	7670	42500	---	---	24	2.0	19	2.4	---	---
TOTAL	---	95537	---	472028	---	271362	---	1572.2	---	68.11	---	79.25

TOTAL LOAD FOR YEAR: 1072740.56 tons.

LOCATION.--Lat 44°55'37", long 105°21'10", in NW¼ SW¼ SW¼ 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.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Elevation of gage is 3,410 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 4, Dec. 8-10, 17, 18, 27-29, Jan. 5-9, and Jan. 17 to Feb. 5. 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. U.S. Geological Survey data collection platform with satellite telemetry at station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 10	1200	1660	9.73
Mar. 13	0830	*2300	*11.10
May 28	0530	282	5.40
June 15	2330	183	4.85

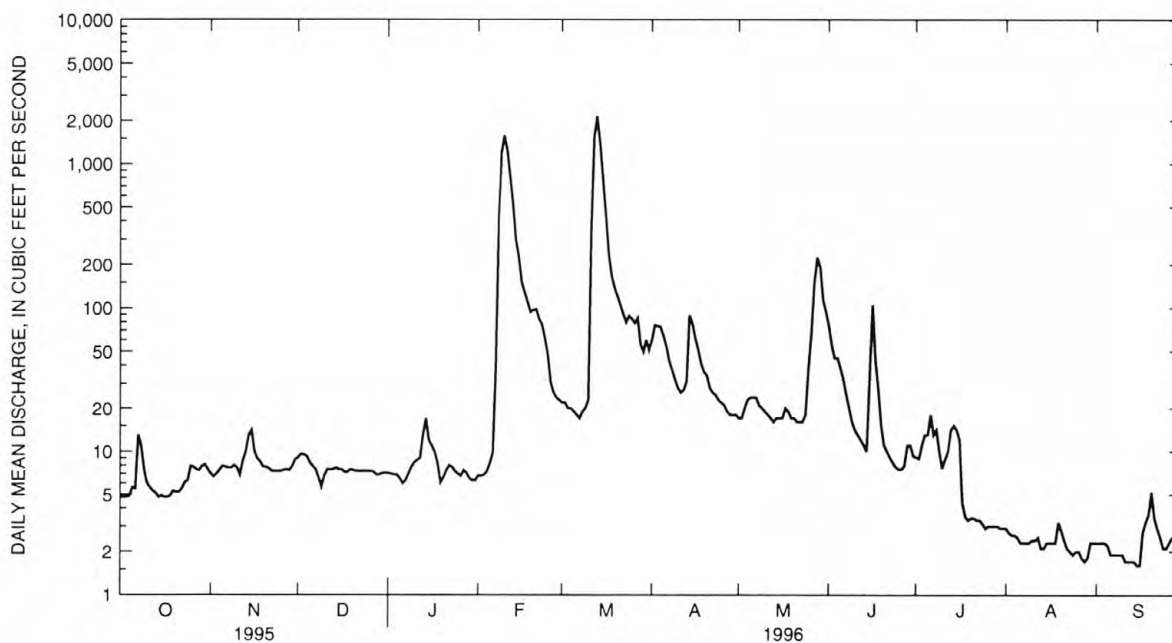
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.0	9.1	7.1	6.8	22	60	17	75	9.1	2.9	2.3
2	4.8	6.7	9.6	7.0	6.8	22	76	17	55	8.9	2.7	2.3
3	4.8	7.0	9.5	6.9	6.9	20	75	20	45	11	2.6	2.3
4	4.9	7.4	9.3	6.9	7.3	20	74	23	45	13	2.6	2.3
5	5.6	7.9	8.4	6.5	8.3	19	64	24	38	13	2.5	2.2
6	5.5	7.8	7.9	6.0	9.8	18	54	24	32	18	2.3	1.9
7	13	7.7	7.5	6.3	41	17	43	24	25	13	2.3	1.9
8	11	7.7	6.6	7.0	407	19	37	21	20	14	2.3	1.9
9	7.4	8.0	5.7	7.8	1180	20	32	20	16	10	2.3	1.9
10	6.0	7.7	6.8	8.4	1570	23	28	19	14	7.6	2.4	1.9
11	5.6	6.9	7.5	8.7	1250	354	26	18	13	8.8	2.4	1.7
12	5.3	8.6	7.5	9.0	824	1530	27	17	12	10	2.5	1.7
13	5.1	10	7.5	13	532	2150	31	16	11	14	2.1	1.7
14	4.8	13	7.7	17	298	1420	89	17	10	15	2.1	1.7
15	4.9	14	7.5	12	228	806	78	17	34	14	2.3	1.6
16	4.8	10	7.5	11	152	453	61	17	105	12	2.3	1.6
17	4.8	8.9	7.2	10	128	236	51	20	43	4.4	2.3	2.7
18	4.9	8.5	7.2	8.4	110	167	41	19	27	3.5	2.3	3.2
19	5.3	7.8	7.5	6.1	94	138	36	17	15	3.3	3.2	3.6
20	5.2	7.8	7.4	6.6	97	121	34	17	11	3.4	2.8	5.2
21	5.2	7.6	7.3	7.4	98	105	28	16	10	3.4	2.4	3.4
22	5.5	7.3	7.3	8.0	84	91	26	16	9.1	3.3	2.1	2.9
23	6.1	7.3	7.3	7.8	77	80	25	16	8.4	3.3	2.0	2.5
24	6.3	7.3	7.3	7.3	62	88	23	18	7.8	3.1	1.9	2.1
25	7.9	7.3	7.3	7.0	48	84	22	38	7.5	2.9	2.0	2.1
26	7.8	7.4	7.3	6.8	31	79	21	66	7.5	3.0	2.0	2.3
27	7.5	7.5	7.2	7.4	26	85	19	147	7.9	3.0	1.8	2.5
28	7.4	7.4	6.9	7.1	24	56	18	224	11	3.0	1.7	2.5
29	7.9	7.9	6.9	6.5	23	50	18	192	11	3.0	1.8	2.5
30	8.1	8.8	7.1	6.3	---	60	18	112	9.3	2.9	2.3	2.5
31	7.5	---	7.1	6.3	---	51	---	94	---	2.9	2.3	---
TOTAL	195.7	246.2	233.9	249.6	7429.9	8404	1235	1323	735.5	239.8	71.5	70.9
MEAN	6.31	8.21	7.55	8.05	256	271	41.2	42.7	24.5	7.74	2.31	2.36
MAX	13	14	9.6	17	1570	2150	89	224	105	18	3.2	5.2
MIN	4.8	6.7	5.7	6.0	6.8	17	18	16	7.5	2.9	1.7	1.6
AC-FT	388	488	464	495	14740	16670	2450	2620	1460	476	142	141

MEAN	12.4	3.05	2.39	7.01	31.5	65.0	19.0	69.2	31.7	11.3	6.40	4.63
MAX	172	20.4	9.97	89.0	256	613	58.5	703	187	68.8	44.8	60.8
(WY)	1995	1987	1995	1974	1996	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

06324970 LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1973 - 1996	
ANNUAL TOTAL	15335.8		20435.0		--	
ANNUAL MEAN	42.0		55.8		22.0	
HIGHEST ANNUAL MEAN	--		--		127	1978
LOWEST ANNUAL MEAN	--		--		1.49	1992
HIGHEST DAILY MEAN	1620	May 10	2150	Mar 13	5000	May 19 1978
LOWEST DAILY MEAN	3.5	Jan 3,4	1.6	Sep 15,16	.00	Several days,
ANNUAL SEVEN-DAY MINIMUM	4.2	Sep 12	1.7	Sep 10	.00	Some years
INSTANTANEOUS PEAK FLOW	--		2300	Mar 13	5300 ^a	May 19 1978
INSTANTANEOUS PEAK STAGE	--		11.10	Mar 13	11.63	Mar 20 1978
ANNUAL RUNOFF (AC-FT)	30420		40530		15920	
10 PERCENT EXCEEDS	74		84		34	
50 PERCENT EXCEEDS	9.1		8.0		2.6	
90 PERCENT EXCEEDS	4.8		2.3		.02	

a Gage height, 11.62 ft.



06324970 LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON, WY

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 1995 TO SEPTEMBER 1996

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)	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)
DEC 06...	1205	8.2	3910	8.2	1.0	2.5	682	11.5	92	1000	200	130
MAR 20...	0900	123	1420	8.2	3.0	0.0	676	10.0	84	390	72	51
JUN 11...	1445	12	3430	8.0	27.0	30.0	672	7.9	114	1000	190	130
AUG 27...	1255	1.9	3920	8.0	21.5	34.0	674	7.4	96	940	160	130

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)
DEC 06...	560	8	21	431	1800	58	0.6	11	3040	4.13	67.3
MAR 20...	140	3	12	185	540	10	0.3	9.9	946	1.29	314
JUN 11...	440	6	19	391	1600	24	0.6	9.6	2650	3.60	85.8
AUG 27...	620	9	24	331	1900	47	0.7	9.3	3090	4.20	15.8

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. Bureau of Reclamation data collection platform with satellite telemetry at station. 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, 151,300 acre-ft, July 26, elevation, 5,804.62 ft; minimum daily contents, 78,500 acre-ft, Sept. 30, elevation, 5,778.87 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, 810,900 acre-ft, July 9, elevation, 4,725.45 ft; minimum daily contents, 473,900 acre-ft, May 14, elevation, 4,705.05 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, 1,550 acre-ft, June 28, elevation, 6,378.20 ft; minimum daily contents, 59 acre-ft, Feb. 20, elevation, 6,343.00 ft.

REVISIONS.--The maximum daily contents for the 1995 water year has been revised to 7,962 acre-ft, July 13, elevation, 6,414.30 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, 646,600 acre-ft, July 30, 1996, elevation, 5,393.51 ft; minimum daily contents, 19,000 acre-ft, Jan 23-25, 1941, elevation, 5,225.3 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 646,600 acre-ft, July 30, elevation, 5,393.51 ft; minimum daily contents, 311,500 acre-ft, May 12, elevation, 5,345.74 ft.

Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06224500 BULL LAKE			
Sept. 30	5,788.96	105,000	-
Oct. 31	5,787.87	102,000	-3,000
Nov. 30	5,787.16	100,100	-1,900
Dec. 31	5,787.24	100,300	+200
CAL YR 1995	-	-	+49,700
Jan. 31	5,787.07	99,800	-500
Feb. 29	5,786.83	99,000	-800
Mar. 31	5,786.69	98,800	-200
Apr. 30	5,786.21	97,500	-1,300
May 31	5,782.12	86,800	-10,700
June 30	5,803.64	143,200	+61,400
July 31	5,804.58	151,100	+2,900
Aug. 31	5,794.26	119,900	-31,200
Sept. 30	5,778.87	78,500	-41,400
WTR YR 1996	-	-	-26,500
06258900 BOYSEN RESERVOIR			
Sept. 30	4,707.21	504,100	-
Oct. 31	4,717.49	664,300	+160,200
Nov. 30	4,717.45	663,600	-700
Dec. 31	4,716.53	648,000	-15,600
CAL YR 1995	-	-	+116,700
Jan. 31	4,715.59	632,300	-15,700
Feb. 29	4,714.46	613,800	-18,500
Mar. 31	4,713.23	594,200	-19,600
Apr. 30	4,707.84	513,100	-81,100
May 31	4,707.91	514,100	+1,000
June 30	4,723.80	778,800	+264,700
July 31	4,723.21	767,500	-11,300
Aug. 31	4,720.66	720,300	-47,200
Sept. 30	4,720.12	710,500	-9,800
WTR YR 1996	-	-	+206,400

YELLOWSTONE RIVER BASIN

Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06260300 ANCHOR RESERVOIR			
Sept. 30	6,350.50	159	-
Oct. 31	6,352.30	197	+38
Nov. 30	6,351.00	170	-27
Dec. 31	6,345.00	77	-93
CAL YR 1995	-	-	+43
Jan. 31	6,345.00	77	0
Feb. 29	6,343.50	64	-13
Mar. 31	6,347.80	117	+53
Apr. 30	6,358.20	352	+235
May 31	6,357.80	339	-13
June 30	6,376.60	1,410	+1,070
July 31	6,353.40	220	-1,190
Aug. 31	6,352.50	202	-18
Sept. 30	6,353.00	212	+10
WTR YR 1996	-	-	+53
06281500 BUFFALO BILL RESERVOIR			
Sept. 30	5,377.90	525,200	-
Oct. 31	5,376.90	517,700	-7,500
Nov. 30	5,377.96	525,500	+7,800
Dec. 31	5,378.37	528,600	+3,100
CAL YR 1995	-	-	-297,000
Jan. 31	5,377.46	521,800	-6,800
Feb. 29	5,375.52	507,400	-14,400
Mar. 31	5,370.74	472,600	-34,800
Apr. 30	5,355.62	371,200	-101,400
May 31	5,351.65	346,800	-24,400
June 30	5,389.85	616,700	+269,900
July 31	5,393.49	646,500	+29,800
Aug. 31	5,386.11	587,600	-58,900
Sept. 30	5,378.09	526,600	-61,000
WTR YR 1996	-	-	+1,400

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: Dec. 4 to Feb. 8. Records good except those less than 1 ft³/s, which are fair and those for estimated daily discharges, 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)
Mar 11	0800	58	3.89
May 27	2100	*191	*4.65

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.03	.00	.01	1.8	.00	.00	.00
2	.00	.00	.00	.00	.00	.01	.00	.01	1.1	.00	.00	.00
3	.00	.00	.00	.00	.00	.02	.00	.01	.81	.00	.00	.00
4	.00	.00	.00	.00	.00	.01	.00	.01	.68	.00	.00	.00
5	.00	.00	.00	.00	.00	.20	.00	.01	.58	.00	.00	.00
6	.00	.00	.00	.00	.05	.91	.00	.01	.54	.00	.00	.00
7	.00	.00	.00	.00	.30	1.2	.00	.01	.53	.00	.00	.00
8	.00	.00	.00	.00	1.0	1.9	.00	.01	.47	.00	.00	.00
9	.00	.00	.00	.00	2.1	1.7	.00	.09	.41	.00	.00	.00
10	.00	.00	.00	.00	11	.17	.00	.05	.37	.00	.00	.00
11	.00	.00	.00	.00	6.8	28	.00	.02	.30	.00	.00	.00
12	.00	.00	.00	.02	5.8	16	.02	.01	.15	.00	.00	.00
13	.00	.00	.00	.03	4.6	8.2	.12	.01	.06	.00	.00	.00
14	.00	.00	.00	.02	4.5	4.4	.57	.01	.03	.00	.00	.00
15	.00	.00	.00	.00	3.9	2.4	.73	.01	.01	.00	.00	.00
16	.00	.00	.00	.00	2.7	1.4	.47	.01	.01	.00	.00	.00
17	.00	.00	.00	.00	2.6	.71	.36	.01	.01	.00	.00	.00
18	.00	.00	.00	.00	2.1	.39	.26	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	1.8	.22	.37	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	2.2	.10	.58	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	2.2	.03	.71	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	2.3	.01	.53	.00	.01	.00	.00	.00
23	.00	.00	.00	.00	2.2	.01	.40	.10	.01	.00	.00	.00
24	.00	.00	.00	.00	1.9	.32	.32	13	.00	.00	.00	.00
25	.00	.00	.00	.00	1.0	.00	.23	25	.00	.00	.00	.00
26	.00	.00	.02	.00	1.4	.00	.17	26	.00	.00	.00	.00
27	.00	.00	.01	.00	.82	.00	.10	99	.00	.00	.00	.00
28	.00	.00	.00	.00	.49	.00	.05	54	.00	.00	.00	.00
29	.00	.00	.00	.00	.15	.00	.03	7.9	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.02	3.5	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	2.8	---	.00	.00	---
TOTAL	0.00	0.00	0.03	0.07	63.91	68.34	6.04	231.60	7.88	0.00	0.00	0.00
MEAN	.000	.000	.001	.002	2.20	2.20	.20	7.47	.26	.000	.000	.000
MAX	.00	.00	.02	.03	11	28	.73	99	1.8	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.06	.1	127	136	12	459	16	.00	.00	.00

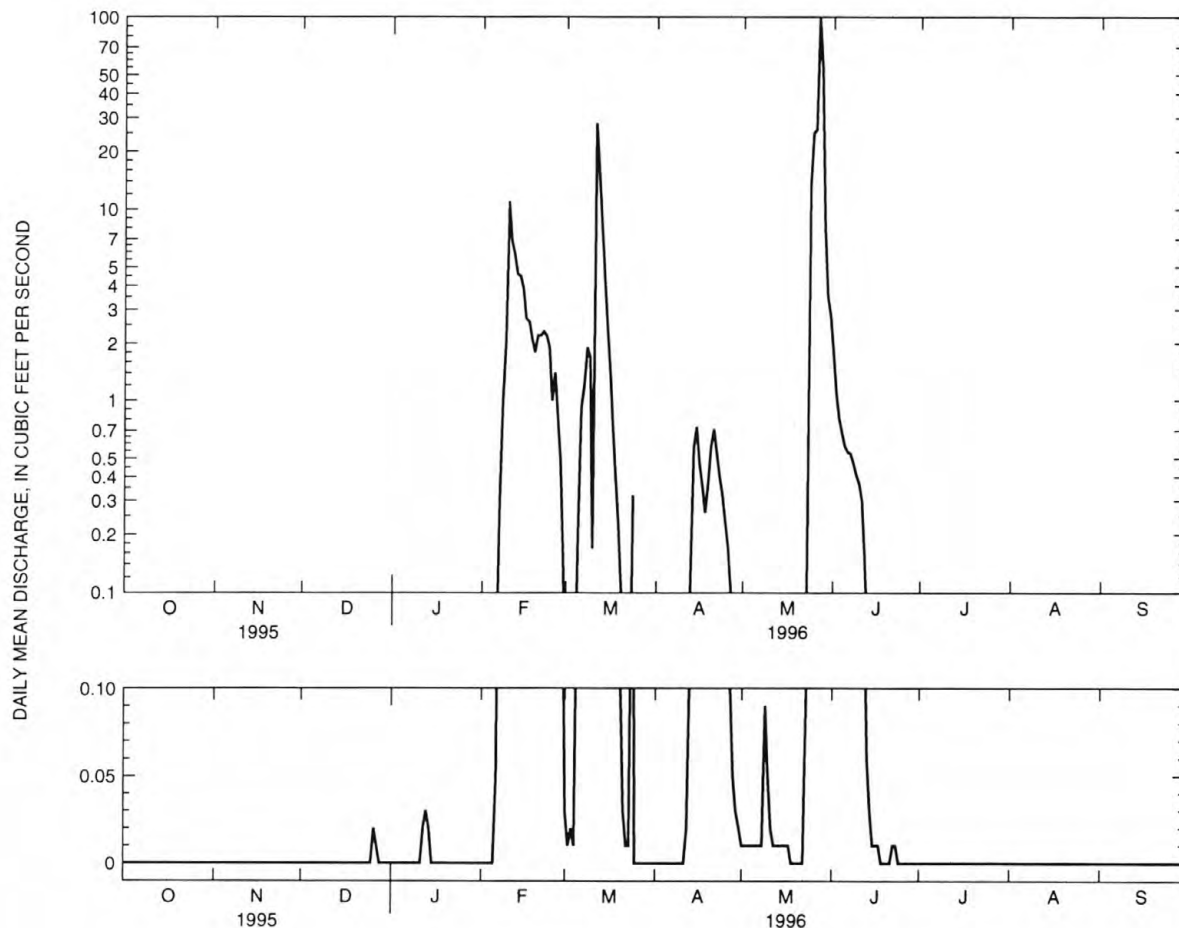
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

MEAN	.041	.014	.021	.009	.52	1.59	.12	14.6	2.41	1.62	1.39	.007
MAX	.24	.090	.11	.050	2.23	10.8	.48	114	8.97	8.18	6.82	.064
(WY)	1978	1979	1979	1981	1994	1978	1993	1978	1993	1978	1980	1990
MIN	.000	.000	.000	.000	.000	.000	.000	.007	.000	.000	.000	.000
(WY)	1988	1989	1989	1978	1978	1989	1989	1992	1981	1988	1988	1981

06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1977 - 1996
ANNUAL TOTAL	206.47	377.87	--
ANNUAL MEAN	.57	1.03	1.89
HIGHEST ANNUAL MEAN	--	--	11.8
LOWEST ANNUAL MEAN	--	--	.003
HIGHEST DAILY MEAN	61 May 9	99 May 27	1570 May 18 1978
WEST DAILY MEAN	.00 Many days	.00 Many days	.00 Many days,
ANNUAL SEVEN-DAY MINIMUM	.00 Many days	.00 Many days	.00 Many days,
INSTANTANEOUS PEAK FLOW	--	191 May 27	3030 ^a May 18 1978
INSTANTANEOUS PEAK STAGE	--	4.65 May 27	9.02 May 18 1978
ANNUAL RUNOFF (AC-FT)	410	750	1370
10 PERCENT EXCEEDS	.37	1.0	.61
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a From rating curve extended above 180 ft³/s on basis of slope-measurement of peak flow at gage height 7.67 ft and 9.02 ft.



06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY

06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1977 to September 1981, October 1987 to current year.

REMARKS.--No flow observed on July 22, August 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	
APR 15.	1100	0.72	2270	8.1	9.0	11.5	656	9.5	96	620	
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)
APR 15...	130	71	290	5	17	243	750	150	0.5	5.8	
DATE		SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	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)
APR 15...	1560	2.12	3.04	30	<1	54	<1	170	<2.0	<1	
DATE		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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
APR 15...	<6	<1	13	<1	35	46	<0.1	<20	<20	<1	
DATE		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)	
APR 15...	<2.0	1400	<12	17	11	1.2	135	0.26	95		

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

MEAN	1.69	1.59	1.55	1.46	1.64	1.75	2.19	2.14	2.28	1.99	1.82	1.72
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

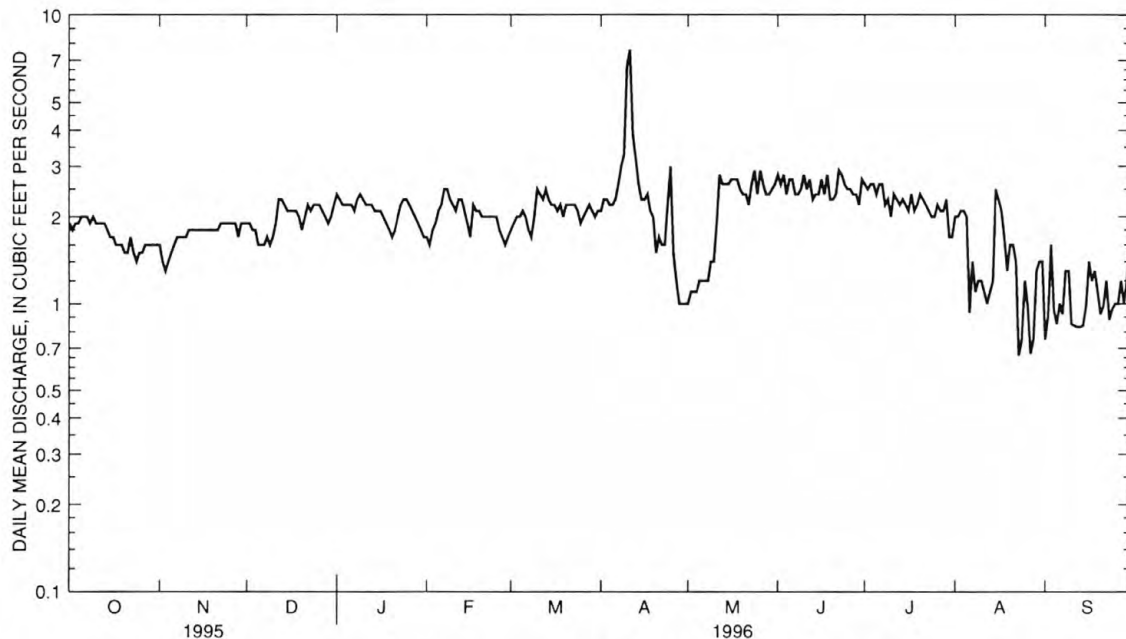
06392900 BEAVER CREEK AT MALLO CAMP, NEAR FOUR CORNERS, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1975 - 1996
ANNUAL TOTAL	722.7	717.71	--
ANNUAL MEAN	1.98	1.96	1.83
HIGHEST ANNUAL MEAN	--	--	2.59
LOWEST ANNUAL MEAN	--	--	.94
HIGHEST DAILY MEAN	7.9 May 8	7.6 Apr 11	28 Apr 22 1994
LOWEST DAILY MEAN	1.2 Jan 3	.66 Aug 23	.10 Jan 20 1993
ANNUAL SEVEN-DAY MINIMUM	1.3 Jan 1	.90 Aug 23	.12 Jan 17 1993
INSTANTANEOUS PEAK FLOW	--	19 ^a Apr 10	103 ^b Apr 22 1994
INSTANTANEOUS PEAK STAGE	--	1.79 ^c Dec 11	2.14 ^c Apr 22 1994
ANNUAL RUNOFF (AC-FT)	1430	1420	1330
10 PERCENT EXCEEDS	2.4	2.6	2.6
50 PERCENT EXCEEDS	1.9	2.0	1.8
90 PERCENT EXCEEDS	1.5	1.1	1.0

a Gage height, 1.53 ft.

b From rating curve extended above 85 ft³/s.

c Backwater from ice.



06392900 BEAVER CREEK AT MALLO CAMP, NEAR FOUR CORNERS, WY

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: Dec. 8-10, Jan. 5-8, 17-20, Jan. 27 to Mar. 5, Mar. 7, 8, and Mar. 11 to Apr. 15. 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)
Mar. 13	0830	*373	*9.41
Aug. 29	1600	346	9.24

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	11	11	12	13	15	14	15	9.8	8.5	13
2	11	12	11	11	11	13	17	15	15	9.9	8.6	13
3	11	12	11	12	10	13	19	14	14	10	8.5	13
4	11	12	11	12	11	13	16	14	14	12	8.1	12
5	12	12	11	11	12	13	15	14	14	15	8.3	12
6	12	12	11	10	13	13	16	14	14	16	7.9	13
7	12	12	11	11	13	13	17	14	14	16	7.7	12
8	12	12	10	12	13	12	18	15	14	15	7.7	12
9	12	12	9.0	12	13	14	23	19	10	15	8.2	12
10	12	12	11	12	14	16	41	16	10	15	8.5	12
11	12	12	11	12	13	50	47	15	10	13	7.9	12
12	12	12	11	12	13	64	27	15	10	12	8.2	12
13	12	12	12	13	14	100	19	15	12	11	8.3	11
14	12	12	12	13	14	72	16	15	13	7.4	9.9	11
15	12	12	12	13	13	29	16	15	13	6.3	20	12
16	11	12	12	13	13	15	15	16	13	7.8	13	12
17	11	12	12	13	14	13	14	15	12	7.0	13	13
18	11	12	12	11	13	13	14	14	10	7.5	13	12
19	11	12	12	12	13	13	15	14	9.9	7.6	14	12
20	11	12	11	13	13	14	14	13	10	7.8	13	12
21	11	11	11	13	13	14	14	14	11	7.4	12	12
22	13	11	11	13	14	14	14	14	10	7.3	12	12
23	13	11	12	13	13	14	14	17	11	7.1	12	12
24	13	11	12	13	13	13	14	16	10	6.9	12	12
25	13	11	12	13	13	11	14	15	9.8	6.6	12	14
26	13	11	12	12	13	13	15	19	9.4	7.9	12	13
27	13	11	12	11	12	13	14	18	9.3	7.8	12	13
28	12	11	11	11	11	13	14	16	9.4	7.5	12	13
29	12	11	11	11	12	13	14	16	9.4	6.9	84	13
30	12	11	11	10	---	12	14	16	9.6	6.9	20	13
31	12	---	11	11	---	13	---	16	---	7.9	14	---
TOTAL	368	350	350.0	370	369	659	535	473	345.8	301.3	416.3	370
MEAN	11.9	11.7	11.3	11.9	12.7	21.3	17.8	15.3	11.5	9.72	13.4	12.3
MAX	13	12	12	13	14	100	47	19	15	16	84	14
MIN	11	11	9.0	10	10	11	14	13	9.3	6.3	7.7	11
AC-FT	730	694	694	734	732	1310	1060	938	686	598	826	730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, BY WATER YEAR (WY)

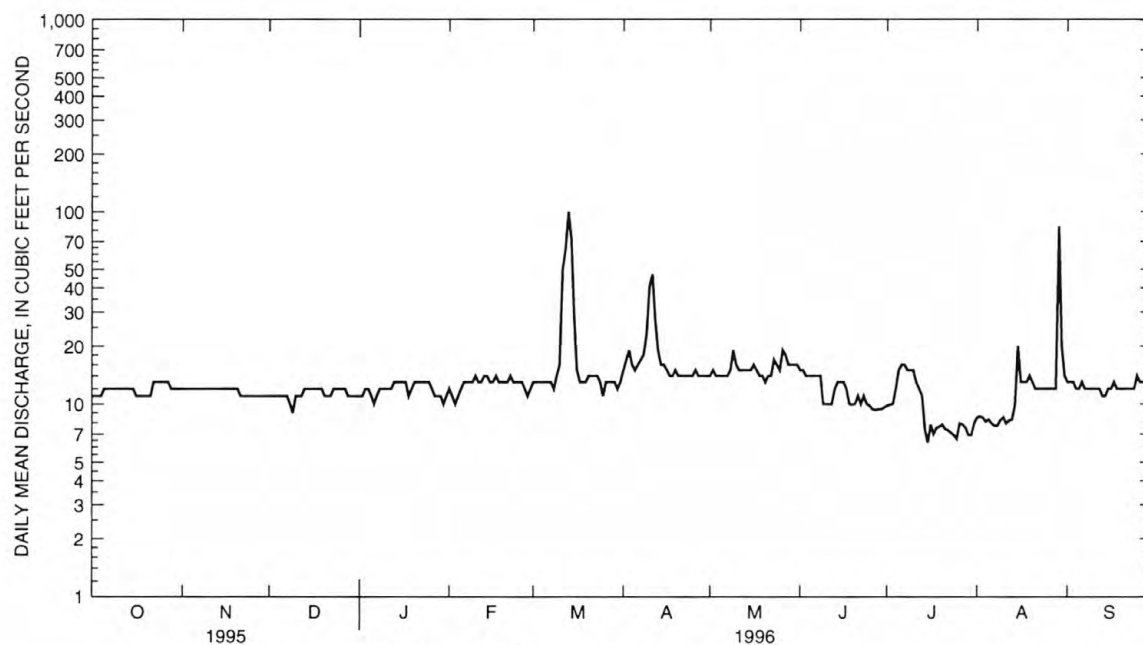
MEAN	11.8	12.2	12.3	12.0	12.4	14.0	12.5	9.63	10.6	10.4	10.6	11.5
MAX	14.1	14.8	14.4	14.8	14.4	21.2	17.8	15.3	12.7	13.7	13.8	13.5
(WY)	1975	1977	1976	1977	1977	1996	1996	1996	1995	1993	1979	1979
MIN	9.40	9.74	10.2	9.52	10.6	10.8	9.53	6.45	5.92	8.24	6.33	8.89
(WY)	1982	1994	1993	1980	1993	1993	1981	1992	1992	1981	1992	1992

06392950 STOCKADE BEAVER CREEK NEAR NEWCASTLE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1975 - 1996	
ANNUAL TOTAL	4418.7		4907.4		--	
ANNUAL MEAN	12.1		13.4		11.7	
HIGHEST ANNUAL MEAN	--		--		13.4	
LOWEST ANNUAL MEAN	--		--		9.80	
HIGHEST DAILY MEAN	19	Mar 11	100	Mar 13	143	Jul 16 1993
LOWEST DAILY MEAN	9.0	Dec 9	6.3	Jul 15	3.9	May 21 1992
ANNUAL SEVEN-DAY MINIMUM	9.5	Jul 28	7.2	Jul 24	4.6	Aug 2 1992
INSTANTANEOUS PEAK FLOW	--		373 ^a	Mar 13	776 ^b	Jul 16 1993
INSTANTANEOUS PEAK STAGE	--		9.41 ^a	Mar 13	12.44	Jul 16 1993
ANNUAL RUNOFF (AC-FT)	8760		9730		8460	
10 PERCENT EXCEEDS	13		15		14	
50 PERCENT EXCEEDS	12		12		12	
90 PERCENT EXCEEDS	11		9.5		8.3	

a Highest recorded, but may have been slightly higher.

b From rating curve extended above 18 ft³/s on basis of culvert-backwater computation.



06392950 STOCKADE BEAVER CREEK NEAR NEWCASTLE, WY

CHEYENNE RIVER BASIN

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.

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. 1-5, Nov. 7-29, and Dec. 5 to Apr. 15. 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)
Mar 15	unknown	unknown	*11.00
May 27	1830	*1,260	10.73

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	10	19	9.7	9.8	26	78	18	166	21	4.0	33
2	5.3	6.0	18	9.0	10	24	72	19	156	19	4.7	11
3	5.8	4.5	18	9.4	10	21	89	18	129	16	6.3	11
4	12	6.0	18	8.8	10	20	108	16	101	16	6.2	12
5	17	7.0	17	8.1	10	21	110	16	75	17	6.6	8.8
6	10	7.9	15	7.5	12	21	105	16	62	17	5.4	7.1
7	10	7.4	12	8.3	15	20	100	16	54	15	1.9	6.1
8	10	8.0	10	9.1	27	18	97	19	49	14	1.4	5.6
9	10	11	8.0	9.6	54	17	84	22	38	13	1.4	6.5
10	10	15	8.6	9.6	140	21	70	37	37	12	1.2	7.6
11	10	12	9.8	9.4	235	27	62	35	35	10	1.9	7.1
12	10	13	11	10	310	34	50	37	33	9.4	1.9	6.8
13	10	13	12	12	285	200	46	29	29	9.1	1.8	6.6
14	10	15	13	13	250	650	57	29	220	9.0	1.9	6.8
15	10	18	12	14	180	840	170	24	198	8.6	3.2	7.3
16	11	22	12	13	145	770	146	54	74	8.8	4.7	7.3
17	11	25	11	12	120	630	133	70	46	7.8	2.1	8.1
18	7.6	21	11	12	110	390	87	28	40	7.0	1.5	8.7
19	2.4	20	10	11	96	230	91	20	35	5.5	2.6	9.8
20	2.4	19	9.8	8.5	92	170	63	17	37	5.5	2.0	9.9
21	3.1	18	9.3	6.4	91	145	44	13	29	5.3	1.5	9.1
22	4.9	18	8.6	6.2	94	130	35	11	31	5.1	1.9	8.6
23	9.9	17	8.2	7.2	99	110	35	15	76	5.2	1.9	8.6
24	10	16	8.2	9.0	87	100	32	105	84	5.9	1.7	8.4
25	6.1	16	8.7	12	76	97	28	129	32	6.2	1.6	9.5
26	5.4	16	9.7	12	58	110	23	242	32	6.2	1.4	12
27	5.1	17	11	11	43	100	18	1020	52	7.5	1.0	14
28	10	17	10	12	37	94	22	1040	37	9.5	.94	15
29	14	18	10	11	31	99	19	824	27	7.1	2.4	15
30	14	21	9.6	10	---	79	18	417	23	5.3	148	15
31	15	---	10	9.8	---	70	---	192	---	4.5	33	---
TOTAL	276.1	434.8	358.5	310.6	2736.8	5284	2092	4548	2037	308.5	258.04	302.3
MEAN	8.91	14.5	11.6	10.0	94.4	170	69.7	147	67.9	9.95	8.32	10.1
MAX	17	25	19	14	310	840	170	1040	220	21	148	33
MIN	2.4	4.5	8.0	6.2	9.8	17	18	11	23	4.5	.94	5.6
AC-FT	548	862	711	616	5430	10480	4150	9020	4040	612	512	600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1996, BY WATER YEAR (WY)

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
MEAN	11.3	10.3	10.0	10.5	31.0	81.7	32.1	52.1	68.6	32.1	16.0	8.85
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

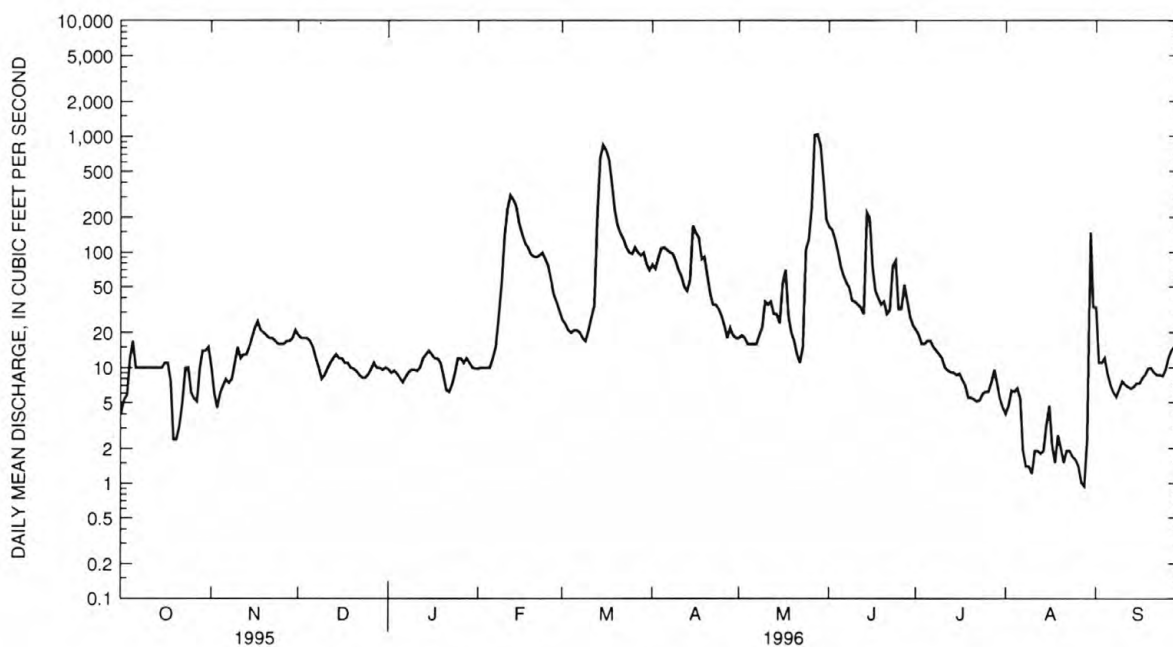
06394000 BEAVER CREEK NEAR NEWCASTLE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1945 - 1996
ANNUAL TOTAL	6840.21	18946.64	--
ANNUAL MEAN	18.7	51.8	30.4
HIGHEST ANNUAL MEAN	--	--	130 1962
LOWEST ANNUAL MEAN	--	--	5.13 1961
HIGHEST DAILY MEAN	256 Jun 10	1040 May 28	6550 Jun 16 1962
LOWEST DAILY MEAN	.21 Aug 24	.94 Aug 28	.00 Several years
ANNUAL SEVEN-DAY MINIMUM	.30 Aug 19	1.5 Aug 22	.00 Several years
INSTANTANEOUS PEAK FLOW	--	1260 ^a May 27	11900 ^b Jun 16 1962
INSTANTANEOUS PEAK STAGE	--	11.00 ^c Mar 15	19.98 Jun 16 1962
ANNUAL RUNOFF (AC-FT)	13570	37580	22020
10 PERCENT EXCEEDS	35	110	50
50 PERCENT EXCEEDS	10	14	9.0
90 PERCENT EXCEEDS	2.4	5.3	.53

a Gage height, 10.73 ft.

b From rating curve extended above 4,000 ft³/s on basis of contracted opening measurement of peak flow.

c From high-water mark in well, backwater from ice.



06394000 BEAVER CREEK NEAR NEWCASTLE, WY

06395000 CHEYENNE RIVER AT EDMONT, SD

LOCATION.--Lat 43°18'20", long 103°49'14", in SW¹/₄ SE¹/₄ SE¹/₄ 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.

DRAINAGE AREA.--7,143 mi².

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 upstream from station used for stock and irrigation water, total capacity, about 45,000 acre-ft. Bureau of Reclamation data collection platform with satellite telemetry at station. Station operated and record provided by South Dakota District.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	e5.0	e6.0	e8.0	e.20	e70	66	42	322	27	2.4	54
2	5.1	e4.0	e6.0	e7.0	e.12	e68	62	39	238	25	2.1	47
3	4.9	e3.2	e5.0	e6.0	e.12	e80	58	43	234	21	1.9	24
4	6.3	e3.0	e5.0	e5.1	e.12	e55	61	44	225	19	1.7	21
5	7.0	e3.0	e4.0	e4.2	e.45	e40	69	42	173	20	1.9	16
6	35	e3.5	e3.0	e3.9	e6.3	e29	65	39	131	21	1.7	16
7	23	e3.5	e3.0	e3.5	e59	e20	56	34	109	17	2.1	12
8	18	e4.5	e2.5	e3.0	e65	e15	52	37	103	17	2.0	6.5
9	16	e5.5	e2.0	e3.0	e70	e15	50	46	92	15	1.3	5.1
10	15	e6.5	e1.5	e7.0	e80	e40	50	72	87	16	1.2	4.0
11	14	e5.5	e1.3	e7.6	e85	e102	51	78	88	17	.63	3.8
12	15	e5.5	e1.1	e8.0	e158	140	63	56	83	15	.35	4.3
13	15	e5.5	e1.0	e9.0	e260	185	97	67	75	14	.19	3.8
14	15	e6.0	e1.0	e9.5	e380	e789	241	55	70	15	.41	3.6
15	15	e7.0	e5.0	e9.0	e450	e1400	450	49	283	14	.22	3.6
16	16	e8.0	e5.0	e9.0	e535	e1200	255	42	170	13	.46	3.9
17	15	e9.0	e4.5	e9.0	358	e996	166	62	90	12	.21	6.2
18	16	e8.0	e4.0	e3.5	400	367	136	86	61	11	.70	6.5
19	15	e7.0	e3.8	e3.0	250	236	137	52	50	11	2.1	6.5
20	12	e6.0	e3.5	e3.5	193	155	164	38	45	10	10	6.5
21	8.2	e5.3	e3.0	e5.0	157	125	118	30	48	8.7	4.1	8.0
22	7.5	e4.6	e2.8	e6.0	158	112	92	25	44	7.5	.97	8.0
23	10	e4.6	e2.6	e4.0	184	e112	84	25	91	6.9	.43	6.9
24	12	e4.6	e2.5	e3.0	127	e108	71	42	129	6.4	.26	6.1
25	23	e4.0	e3.7	e2.0	e110	e102	59	140	93	6.1	.14	8.0
26	20	e3.5	e5.0	e1.7	e90	144	64	157	47	6.6	.12	9.0
27	15	e3.1	e6.0	e1.0	e80	152	59	575	51	6.5	.11	9.2
28	12	e3.1	e5.0	e.70	e70	147	51	1360	64	6.7	.10	11
29	10	e9.0	e4.5	e.55	e60	e144	51	1340	43	7.1	12	14
30	e8.0	e7.0	e7.0	e.39	---	e142	46	1040	31	8.0	18	16
31	e6.5	---	e8.0	e.28	---	84	---	529	---	5.4	156	---
TOTAL	415.8	158.0	118.3	146.42	4386.31	7374	3044	6286	3370	405.9	225.80	350.5
MEAN	13.4	5.27	3.82	4.72	151	238	101	203	112	13.1	7.28	11.7
MAX	35	9.0	8.0	9.5	535	1400	450	1360	322	27	156	54
MIN	4.9	3.0	1.0	.28	.12	15	46	25	31	5.4	.10	3.6
AC-FT	825	313	235	290	8700	14630	6040	12470	6680	805	448	695

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

	MEAN	16.4	11.2	7.30	7.09	35.1	122	62.4	227	258	129	68.8	27.5
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	1956	

06395000 CHEYENNE RIVER AT EDGEMONT, SD--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1929-1932, 1947-1996
ANNUAL TOTAL	21176.39	26281.03	--
ANNUAL MEAN	58.0	71.8	81.2 ^a
HIGHEST ANNUAL MEAN	--	--	434
LOWEST ANNUAL MEAN	--	--	12.0
HIGHEST DAILY MEAN	1780 May 10	1400 Mar 15	24000 May 20 1978
LOWEST DAILY MEAN	.15 Sep 11	.10 Aug 28	.00 Jan 5 1947 ^b
ANNUAL SEVEN-DAY MINIMUM	.17 Sep 10	.24 Jan 30	.00 Aug 31 1947 ^c
INSTANTANEOUS PEAK FLOW	--	1550 May 29 ^d	28000 May 20 1978
INSTANTANEOUS PEAK STAGE	--	6.04 Mar 16 ^f	13.65 May 20 1978
ANNUAL RUNOFF (AC-FT)	42000	52130	58790
10 PERCENT EXCEEDS	137	157	150 ^c
50 PERCENT EXCEEDS	18	14	10 ^c
90 PERCENT EXCEEDS	1.5	1.9	.10 ^c

e Estimated.

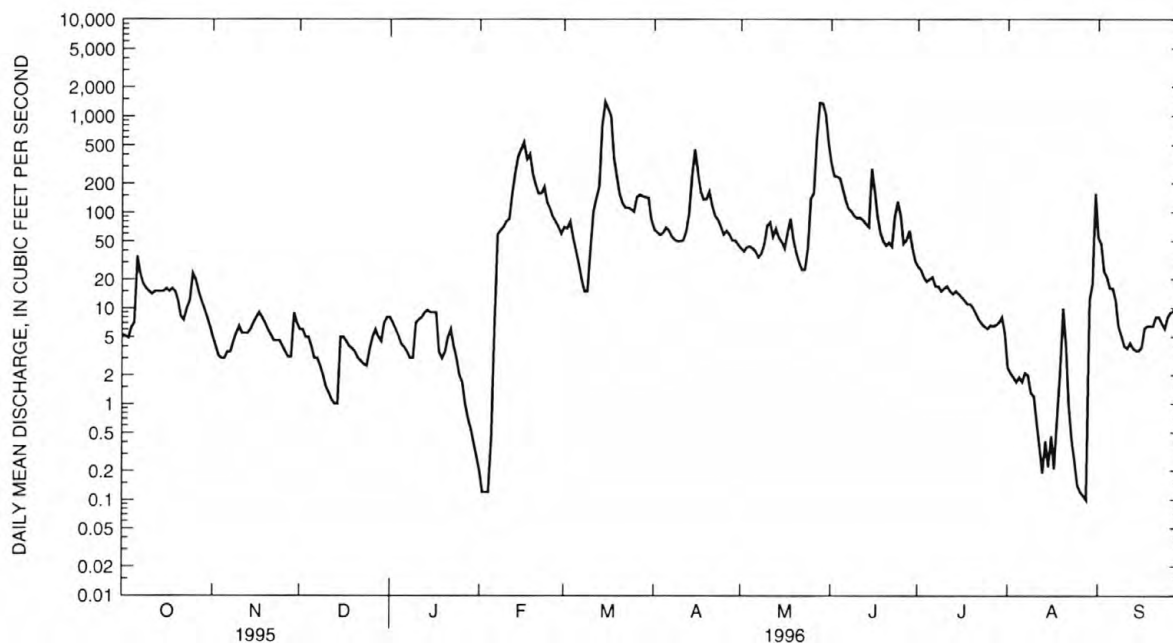
a Median of annual mean discharges, 72 ft³/s.

b No flow at times in most years.

c Reflects water years 1947-96 only.

d Gage height, 5.68 ft.

f Backwater from ice.



06395000 CHEYENNE RIVER AT EDGEMONT, SD

CHEYENNE RIVER BASIN

06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY

LOCATION.--Lat 44°19'19", long 104°56'24", in NW¹/₄ NW¹/₄ 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.

WATER-DISCHARGE RECORDS

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: Oct. 1-6, Nov. 1-4, 10-15, 20-22, 27-30, Dec. 1 to Mar. 19, 24-27, 30, July 24 to Sept. 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. U.S. Geological Survey data collection platform with satellite telemetry at 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)
Mar. 13	unknown	unknown	*13.32
May 27	1600	430	8.02

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	19	14	10	7.7	8.6	42	20	100	8.6	6.1	34
2	5.8	17	17	8.6	7.0	9.5	42	19	104	8.2	7.0	28
3	5.5	15	15	9.7	6.3	10	52	17	57	7.7	10	15
4	9.4	13	12	10	7.9	11	52	16	36	7.3	8.9	17
5	14	12	14	8.2	10	9.2	43	16	29	6.5	9.7	13
6	19	13	11	7.6	18	8.0	37	15	27	5.8	8.5	9.0
7	42	13	10	9.2	22	7.4	31	15	25	6.3	7.2	7.1
8	30	12	8.6	11	36	6.9	29	15	24	7.6	6.2	6.2
9	27	13	7.1	13	46	8.4	32	16	20	6.3	6.0	6.7
10	20	11	7.8	13	87	10	31	15	18	5.7	4.8	7.4
11	13	8.0	9.1	12	61	40	29	14	16	5.1	6.2	6.6
12	9.3	18	10	13	40	365	29	13	16	4.5	6.4	6.1
13	11	16	11	14	23	840	30	13	15	4.2	6.0	5.6
14	10	31	12	16	16	720	40	13	13	6.7	6.6	5.0
15	16	26	11	13	13	510	45	12	12	6.9	9.2	4.8
16	13	23	11	14	11	355	56	14	12	5.9	17	5.2
17	12	22	11	14	13	210	47	20	14	5.1	19	5.8
18	10	17	10	9.8	13	130	36	13	29	4.1	16	6.6
19	10	14	9.4	7.1	13	93	30	11	17	3.9	12	7.0
20	9.6	13	10	8.1	12	76	28	11	13	3.4	14	7.2
21	14	12	10	9.8	13	59	26	11	12	3.1	10	6.4
22	22	11	9.7	11	12	52	25	11	11	3.2	7.7	5.6
23	25	11	9.3	10	12	45	24	12	11	4.8	6.0	5.2
24	21	11	9.9	11	10	31	23	17	11	5.3	4.8	4.6
25	22	10	11	10	11	28	21	139	11	6.2	3.7	4.3
26	26	10	12	8.9	8.7	31	21	162	11	6.7	3.0	4.1
27	28	9.1	11	8.4	7.3	33	20	274	10	8.0	2.5	4.2
28	37	8.7	10	8.3	6.8	40	19	259	9.8	12	2.3	4.5
29	46	10	9.5	7.7	7.7	39	19	190	10	10	4.8	5.0
30	30	12	10	6.8	---	37	20	103	9.1	8.4	84	5.2
31	22	---	11	7.2	---	37	---	81	---	7.3	70	---
TOTAL	582.9	430.8	334.4	320.4	551.4	3860.0	979	1557	702.9	194.8	385.6	252.4
MEAN	18.8	14.4	10.8	10.3	19.0	125	32.6	50.2	23.4	6.28	12.4	8.41
MAX	46	31	17	16	87	840	56	274	104	12	84	34
MIN	3.3	8.0	7.1	6.8	6.3	6.9	19	11	9.1	3.1	2.3	4.1
AC-FT	1160	854	663	636	1090	7660	1940	3090	1390	386	765	501

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	4.41	1.62	1.93	2.17	17.3	61.6	23.2	73.5	65.6	20.0	10.7	5.54
MAX	68.0	14.4	22.3	27.7	260	374	190	1057	509	72.5	57.3	63.5
(WY)	1995	1996	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

06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY--Continued

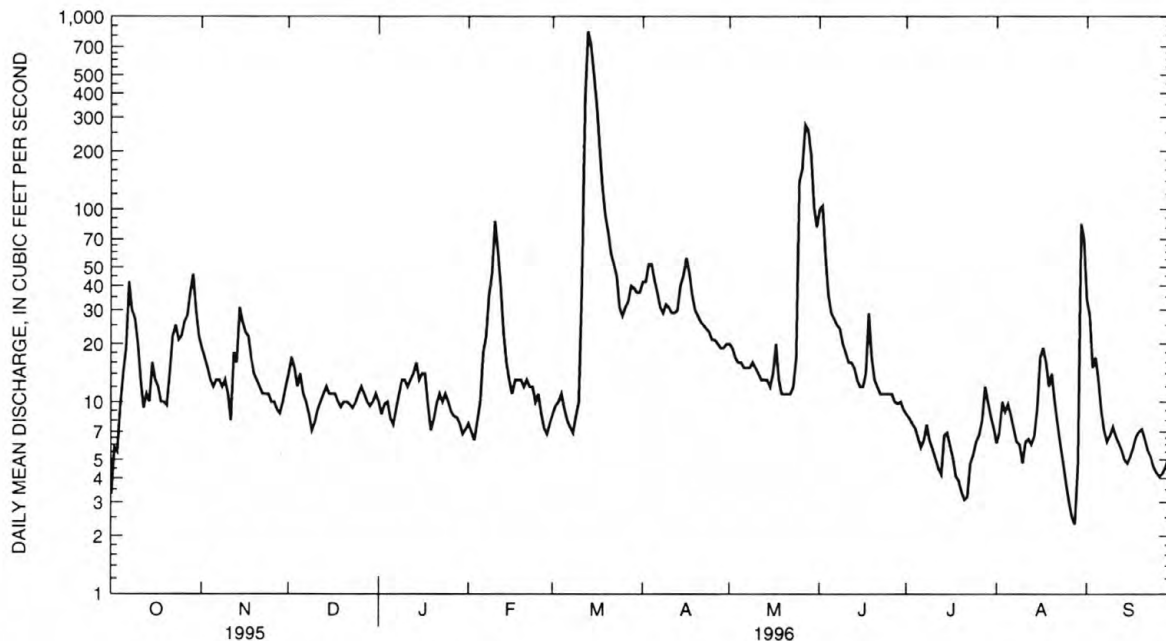
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	11211.0		10151.6		--	
ANNUAL MEAN	30.7		27.7		24.0	
HIGHEST ANNUAL MEAN	--		--		136	1978
LOWEST ANNUAL MEAN	--		--		1.14	1961
HIGHEST DAILY MEAN	1500	May 10	840 ^a	Mar 13	10300	May 19 1978
LOWEST DAILY MEAN	2.4	Aug 24	2.3	Aug 28	.00	Several days, most years
ANNUAL SEVEN-DAY MINIMUM	2.6	Aug 19	3.9	Aug 23	.00	Several days, most years
INSTANTANEOUS PEAK FLOW	--		b	Mar 13	15300 ^c	May 19 1978
INSTANTANEOUS PEAK STAGE	--		13.32 ^a	Mar 13	14.60 ^d	May 19 1978
ANNUAL RUNOFF (AC-FT)	22240		20140		17400	
10 PERCENT EXCEEDS	51		42		33	
50 PERCENT EXCEEDS	11		12		1.0	
90 PERCENT EXCEEDS	4.1		5.8		.00	

a Backwater from ice.

b Not determined.

c From rating curve extended above 11,000 ft³/s, site and datum then in use.

d From floodmarks in gage shelter, site and datum then in use.



06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY

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 current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
DEC 06...	0830	9.6	2720	8.2	0.0	-6.0	659	11.2
MAR 19...	1655	109	861	8.0	3.5	1.0	660	10.3
JUN 12...	0750	15	2410	8.0	20.0	17.0	660	6.3
AUG 27...	1545	2.5	3160	8.2	24.5	31.5	657	8.8

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)
DEC 06...	90	K390	0.08	1.7	<0.02	0.07	140
MAR 19...	90	<1	0.03	0.35	0.16	0.11	130
JUN 12...	81	520	<0.01	<0.05	0.03	0.01	120
AUG 27...	124	290	<0.01	0.07	<0.02	<0.01	180

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

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, 153,800 acre-ft, June 4, elevation, 4,094.67 ft; minimum daily contents, 106,000 acre-ft, Oct. 1, elevation, 4,087.52 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,087.52	106,000	-
Oct. 31	4,087.72	107,100	+1,100
Nov. 30	4,087.83	107,700	+600
Dec. 31	4,087.88	108,000	-300
CAL YR 1995	-	-	+15,400
Jan. 31	4,087.96	108,500	+500
Feb. 29	4,089.75	119,200	+10,700
Mar. 31	4,093.89	147,700	+28,500
Apr. 30	4,094.08	149,200	+1,500
May 31	4,094.62	153,400	+4,200
June 30	4,094.40	151,600	-1,800
July 31	4,093.79	147,000	-4,600
Aug. 31	4,093.41	144,100	-2,900
Sept. 30	4,093.08	141,700	-2,400
WTR YR 1996	-	-	+35,700

CHEYENNE RIVER BASIN

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 1995 TO SEPTEMBER 1996

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)
DEC							
05...	1330	16	1780	8.0	1.0	0.5	669
MAR							
19...	1010	292	758	8.3	1.5	-2.5	674
JUN							
12...	1030	61	1700	7.9	20.0	20.5	671
AUG							
28...	0755	11	1960	7.6	19.5	21.5	668

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)
DEC							
05...	13.6	110	K5	<0.01	0.22	0.08	<0.01
MAR							
19...	11.2	91	81	0.02	0.14	0.08	0.03
JUN							
12...	8.6	108	120	<0.01	<0.05	0.03	<0.01
AUG							
28...	5.8	73	120	<0.01	0.07	0.03	<0.01

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

CHEYENNE RIVER BASIN

225

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.--Water-stage recorder. Elevation of gage is 3,600 ft above sea level, from topographic map.

REMARKS.--Records fair. 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. 9 . . . 59.1

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	141	129	221	62	31	67
2	---	---	---	---	---	---	190	125	199	60	29	44
3	---	---	---	---	---	---	224	126	181	58	27	35
4	---	---	---	---	---	---	236	123	158	56	27	35
5	---	---	---	---	---	---	224	123	147	56	26	31
6	---	---	---	---	---	---	188	119	135	57	25	27
7	---	---	---	---	---	---	171	115	132	55	26	23
8	---	---	---	---	---	---	195	114	125	51	24	21
9	---	---	---	---	---	---	219	125	119	50	21	19
10	---	---	---	---	---	---	235	137	114	48	24	19
11	---	---	---	---	---	---	251	133	108	46	23	18
12	---	---	---	---	---	---	263	127	106	45	21	18
13	---	---	---	---	---	---	254	124	105	45	20	19
14	---	---	---	---	---	---	254	125	103	44	18	20
15	---	---	---	---	---	---	260	119	121	42	21	20
16	---	---	---	---	---	---	272	117	114	42	21	19
17	---	---	---	---	---	---	284	117	106	41	23	20
18	---	---	---	---	---	---	278	115	98	39	21	21
19	---	---	---	---	---	---	247	110	91	36	22	22
20	---	---	---	---	---	---	224	105	88	35	22	23
21	---	---	---	---	---	---	200	103	86	44	21	23
22	---	---	---	---	---	---	181	103	88	51	19	23
23	---	---	---	---	---	---	164	106	91	51	18	22
24	---	---	---	---	---	---	153	125	87	50	17	20
25	---	---	---	---	---	---	149	174	82	49	17	20
26	---	---	---	---	---	---	149	205	78	49	16	22
27	---	---	---	---	---	---	143	308	78	45	15	22
28	---	---	---	---	---	---	135	401	73	41	17	24
29	---	---	---	---	---	---	129	325	69	39	18	25
30	---	---	---	---	---	---	125	266	64	36	30	25
31	---	---	---	---	---	---	---	235	---	35	28	---
TOTAL	---	---	---	---	---	---	6138	4779	3367	1480	688	747
MEAN	---	---	---	---	---	---	205	154	112	47.0	22.2	24.9
MAX	---	---	---	---	---	---	284	401	221	62	31	67
MIN	---	---	---	---	---	---	125	103	64	35	15	18
AC-FT	---	---	---	---	---	---	12170	9480	6680	2890	1360	1480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	12.4	---	---	---	---	---	64.6	133	96.2	78.3	64.0	29.8
MAX	14.4	---	---	---	---	---	205	404	204	109	106	49.7
(WY)	1989	---	---	---	---	---	1996	1995	1993	1989	1989	1993
MIN	10.3	---	---	---	---	---	8.82	37.3	32.8	44.8	22.2	15.0
(WY)	1990	---	---	---	---	---	1992	1992	1992	1992	1996	1992

CHEYENNE RIVER BASIN

06428200 BELLE FOURCHE RIVER NEAR ALVA, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1989 - 1996

HIGHEST DAILY MEAN

401 May 28

2000 May 9 1995

LOWEST DAILY MEAN

15 Aug 27

3.1 Jun 11 1992

INSTANTANEOUS PEAK FLOW

434^a May 282690^b May 8 1995

INSTANTANEOUS PEAK STAGE

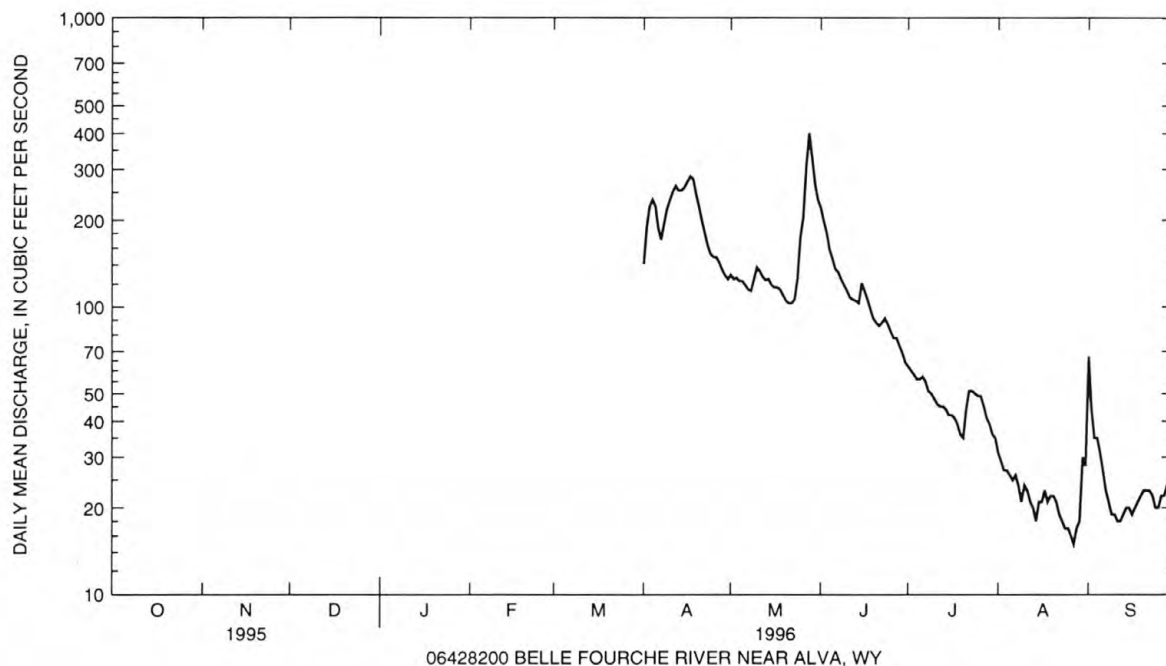
8.15^c Unknown8.15^c Mar 1996

* During period of operation.

a Gage height, 3.42 ft.

b From floodmarks, gage height, 6.76 ft.

c From floodmarks, backwater from ice. Probably occurred in March, when station was not in operation.



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. Bureau of Reclamation data-collection platform with satellite telemetry at station. Station operated and record provided by South Dakota District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	56	53	e25	e17	e33	272	208	493	79	43	28
2	34	42	51	e21	e18	e35	306	211	408	73	41	32
3	34	e32	51	e21	e20	e37	354	222	317	72	38	55
4	38	e38	52	e20	e22	e35	329	223	284	68	39	45
5	167	e58	43	e18	e40	e33	335	221	257	67	36	37
6	85	e55	33	e16	e160	e29	331	209	234	71	34	36
7	84	e52	e30	e16	e375	e18	312	203	219	74	33	33
8	70	53	e20	e20	e1000	e12	292	200	206	68	31	30
9	64	60	e23	e32	e950	e20	301	264	193	64	32	27
10	66	54	e23	e130	e900	e70	317	306	181	61	43	26
11	60	34	e23	e170	e775	e125	337	256	172	58	38	24
12	54	67	e23	e200	e675	985	381	232	160	55	32	23
13	49	73	e27	e180	e600	1600	436	216	145	53	31	23
14	46	70	e30	e105	e550	3280	456	215	140	53	29	22
15	45	60	e35	e60	e500	4560	787	206	136	52	28	23
16	44	57	e35	e50	e600	2960	693	192	138	52	45	24
17	43	57	e35	e22	727	1690	555	194	147	51	31	24
18	42	59	e33	e18	845	1050	523	197	132	48	28	25
19	43	56	e30	e14	825	752	468	179	123	52	28	25
20	42	53	e27	e18	800	528	406	165	114	42	28	26
21	43	49	e26	e20	723	420	365	156	108	42	27	26
22	45	53	e25	e19	524	364	331	149	103	41	27	25
23	63	49	e24	e19	486	340	306	150	102	55	27	26
24	60	47	e24	e19	404	317	285	310	106	61	27	25
25	56	46	e27	e19	323	237	256	751	103	61	26	24
26	55	47	e31	e17	271	224	237	774	99	62	24	24
27	52	48	e30	e16	128	275	232	1360	95	65	24	24
28	51	34	e27	e15	e30	291	223	1110	94	58	23	24
29	51	42	e27	e15	e31	261	217	784	89	53	23	25
30	53	66	e27	e15	---	244	212	671	83	48	24	25
31	55	---	e27	e16	---	279	---	587	---	44	25	---
TOTAL	1728	1567	972	1346	13319	21104	10855	11121	5181	1803	965	836
MEAN	55.7	52.2	31.4	43.4	459	681	362	359	173	58.2	31.1	27.9
MAX	167	73	53	200	1000	4560	787	1360	493	79	45	55
MIN	34	32	20	14	17	12	212	149	83	41	23	22
AC-FT	3430	3110	1930	2670	26420	41860	21530	22060	10280	3580	1910	1660

MEAN	26.0	20.9	15.9	14.5	37.6	153	153	227	185	95.8	73.5	34.0
MAX	118	65.9	41.0	59.4	459	931	823	1104	812	303	271	109
(WY)	1972	1972	1974	1974	1996	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

06428500 BELLE FOURCHE RIVER AT WYOMING-SOUTH DAKOTA STATE LINE--Continued

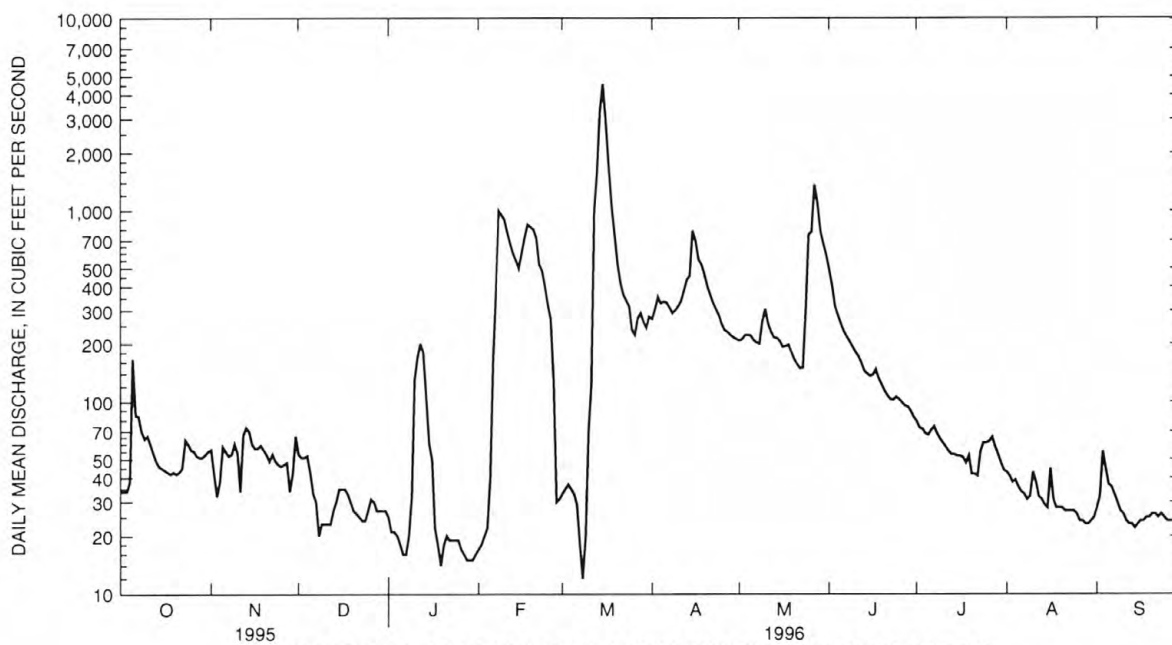
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1954 - 1996*	
ANNUAL TOTAL	54145		70797		86.6	
ANNUAL MEAN	148		193		229	
HIGHEST ANNUAL MEAN					7.69	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	4760	May 9	4760	Mar 15	4760	May 9 1995
LOWEST DAILY MEAN	11	Jan 5	12	Mar 8	.00	Jul 30 1954 ^a
ANNUAL SEVEN-DAY MINIMUM	12	Jan 2	16	Jan 26	.00	Jul 30 1954
INSTANTANEOUS PEAK FLOW			5050	Mar 14	6320	May 10 1995 ^b
INSTANTANEOUS PEAK STAGE			15.58	Mar 14	16.33	May 10 1995
ANNUAL RUNOFF (AC-FT)	107400		140400		62750	
10 PERCENT EXCEEDS	320		488		189	
50 PERCENT EXCEEDS	52		55		34	
90 PERCENT EXCEEDS	18		23		4.5	

e Estimated.

* Regulated period only (1954-96). See REMARKS.

a No flow at times in some years.

b Based on slope-area measurement of peak flow.



06428500 BELLE FOURCHE RIVER AT WYOMING-SOUTH DAKOTA STATE LINE

CHEYENNE RIVER BASIN

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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. 24, 25, 28, Nov. 3-5, 8, 10-12, 20-22, 27, 29, Dec. 3-19, 21, 22, Dec. 24 to Apr. 15. Records excellent except those for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.8	2.9	3.5	2.1	3.5	5.4	4.7	4.5	4.2	3.8	4.2
2	2.8	2.7	2.8	3.1	1.7	4.0	5.6	4.7	4.5	4.2	3.8	4.2
3	2.8	1.2	2.6	2.6	1.9	4.3	5.8	4.7	4.5	4.2	3.8	4.2
4	2.8	1.4	3.0	2.8	2.1	4.8	5.2	4.6	4.5	4.2	3.8	4.2
5	2.2	1.5	3.5	2.5	2.5	4.3	4.8	4.5	4.5	4.1	3.8	4.2
6	2.4	1.6	3.1	2.2	3.2	3.8	5.0	4.5	4.5	4.4	3.8	4.2
7	2.4	1.5	2.8	2.4	3.5	3.5	5.3	4.6	4.5	4.2	3.8	4.2
8	2.4	2.2	2.4	2.6	4.0	3.0	5.4	4.6	4.5	4.2	3.8	4.2
9	2.4	2.9	1.9	3.0	3.9	3.5	5.6	4.5	4.5	4.0	3.9	4.2
10	2.6	2.8	2.2	2.8	4.3	4.3	5.8	4.5	4.5	4.0	4.2	4.2
11	2.8	2.5	2.4	2.9	4.0	5.0	6.0	4.5	4.4	3.8	4.2	4.2
12	2.8	2.8	2.6	3.1	4.2	5.4	5.2	4.5	4.4	3.8	4.2	4.2
13	2.8	2.8	2.9	3.2	4.5	5.0	4.7	4.5	4.4	3.8	4.2	4.2
14	2.8	2.7	3.0	3.4	4.1	5.2	4.9	4.4	4.4	3.8	4.2	4.2
15	2.8	2.7	2.6	3.0	3.6	5.7	5.0	4.4	4.4	3.8	4.3	4.2
16	2.8	2.5	2.8	3.1	3.2	5.0	5.1	4.4	4.4	3.8	4.3	4.2
17	2.8	2.5	2.8	3.3	3.6	4.3	5.3	4.4	4.4	3.8	4.2	4.2
18	2.8	2.5	2.6	2.0	3.4	3.8	4.9	4.4	4.4	3.8	4.2	4.2
19	2.8	2.5	2.4	2.1	3.7	3.7	4.9	4.4	4.4	3.8	4.2	4.2
20	2.9	2.4	2.3	2.3	3.8	3.6	4.8	4.4	4.4	3.8	4.2	4.2
21	3.0	2.3	3.0	2.5	4.0	4.0	4.7	4.4	4.4	3.8	4.2	4.2
22	2.6	3.0	2.6	2.6	3.9	4.3	4.7	4.4	4.4	3.8	4.2	4.2
23	2.1	3.0	2.3	2.3	3.7	4.5	4.7	4.4	4.4	3.8	4.2	4.2
24	3.0	2.8	2.7	2.6	3.4	3.4	4.8	4.5	4.3	3.8	4.2	4.2
25	3.3	2.8	2.9	2.5	3.7	3.8	4.8	4.5	4.2	3.8	4.2	4.2
26	3.0	2.8	3.3	2.3	3.2	4.3	4.7	4.5	4.2	4.0	4.2	4.2
27	2.9	2.7	3.2	2.4	2.8	4.7	4.7	4.5	4.2	3.8	4.2	4.2
28	2.7	2.4	3.2	2.2	3.0	4.5	4.7	4.5	4.2	3.8	4.1	4.2
29	2.8	2.9	3.1	2.0	3.2	4.2	4.9	4.5	4.2	3.8	4.4	4.2
30	2.8	3.0	3.0	1.8	---	4.5	4.7	4.5	4.2	3.9	4.3	4.2
31	2.8	---	3.2	2.0	---	5.0	---	4.5	---	3.9	4.2	---
TOTAL	84.7	74.2	86.1	81.1	98.2	132.9	152.1	139.4	131.7	121.9	127.1	126.0
MEAN	2.73	2.47	2.78	2.62	3.39	4.29	5.07	4.50	4.39	3.93	4.10	4.20
MAX	3.3	3.0	3.5	3.5	4.5	5.7	6.0	4.7	4.5	4.4	4.4	4.2
MIN	2.1	1.2	1.9	1.8	1.7	3.0	4.7	4.4	4.2	3.8	3.8	4.2
AC-FT	168	147	171	161	195	264	302	276	261	242	252	250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, BY WATER YEAR (WY)

MEAN	4.03	3.83	3.85	3.75	3.89	4.18	4.51	4.29	4.36	4.19	4.32	4.24
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	1976	1978	1976	1980	1975
MIN	2.53	2.09	2.06	2.50	2.61	2.91	3.07	3.10	3.19	2.62	2.71	2.92
(WY)	1975	1993	1993	1994	1993	1993	1993	1993	1994	1995	1995	1994

06429500 COLD SPRINGS CREEK AT BUCKHORN, WY--Continued

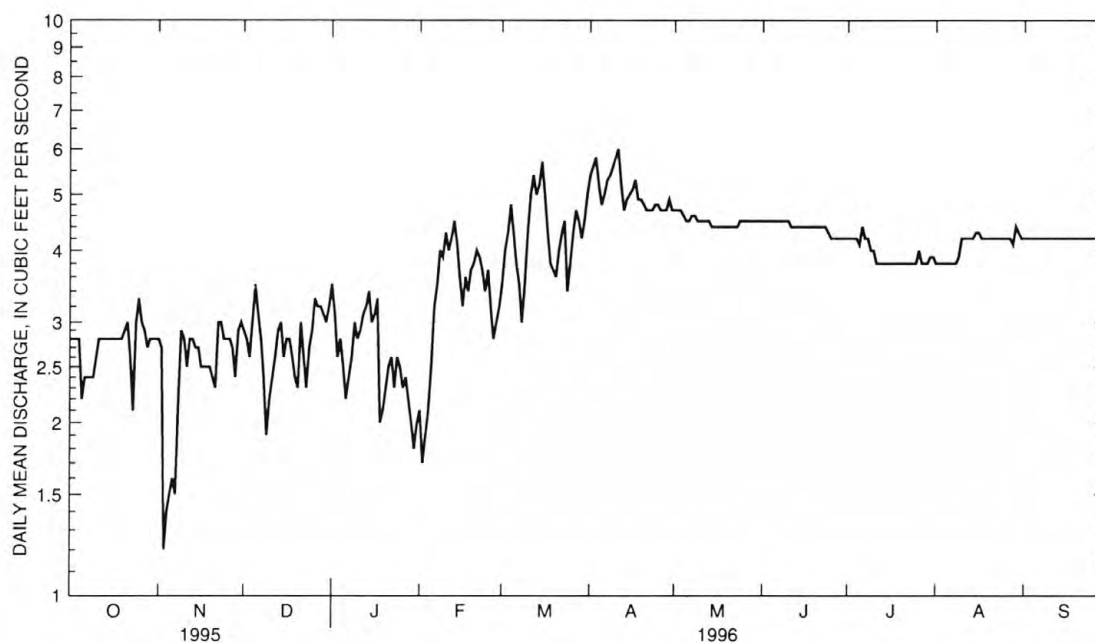
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1975 - 1996
ANNUAL TOTAL	1103.5	1355.4	--
ANNUAL MEAN	3.02	3.70	4.14
HIGHEST ANNUAL MEAN	--	--	5.37
LOWEST ANNUAL MEAN	--	--	2.92
HIGHEST DAILY MEAN	4.1 May 8	6.0 Apr 11	9.5 Apr 22 1980
LOWEST DAILY MEAN	1.2 Nov 3	1.2 Nov 3	.36 Nov 4 1992
ANNUAL SEVEN-DAY MINIMUM	1.7 Nov 2	1.7 Nov 2	1.2 Nov 2 1992
INSTANTANEOUS PEAK FLOW	--	7.0 ^a Apr 16	13 ^b Apr 1 1981
INSTANTANEOUS PEAK STAGE	--	3.00 ^c Dec 12	8.61 ^d Jan 12 1978
ANNUAL RUNOFF (AC-FT)	2190	2690	3000
10 PERCENT EXCEEDS	3.7	4.7	5.4
50 PERCENT EXCEEDS	3.0	3.9	4.3
90 PERCENT EXCEEDS	2.4	2.4	2.8

a Gage height, 2.33 ft, highest recorded. Slightly higher instantaneous discharge may have occurred during estimated period, on Apr. 3 and/or Apr. 11.

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.

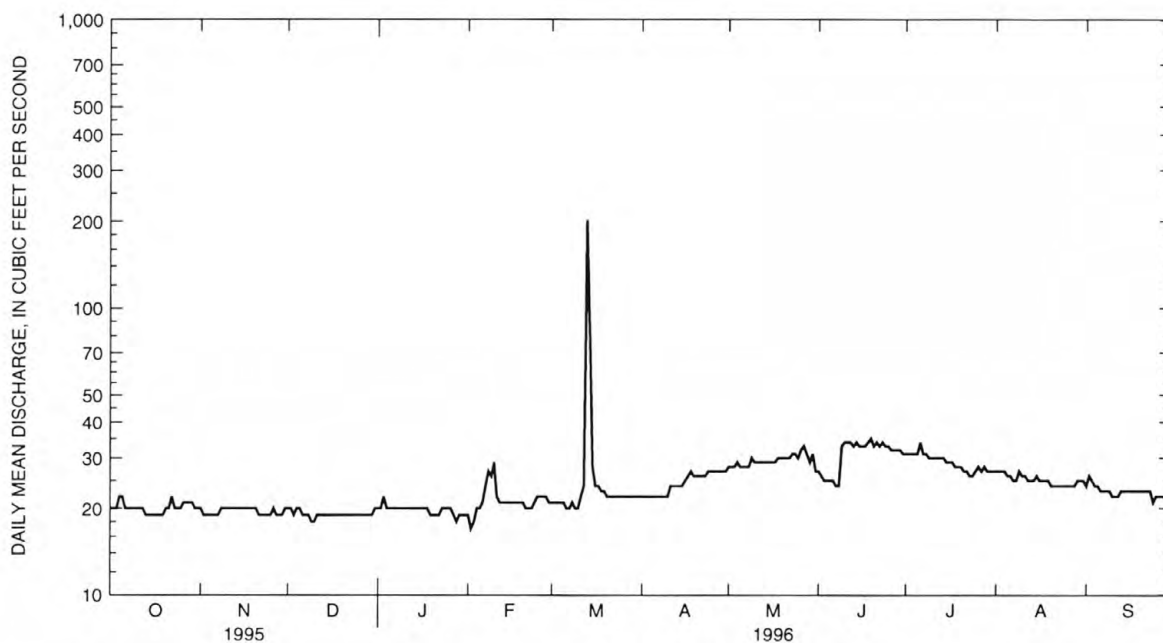


06429500 COLD SPRINGS CREEK AT BUCKHORN, WY

06429905 SAND CREEK NEAR RANCH A, NEAR BEULAH, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1977 - 1996	
ANNUAL TOTAL	8757		8899		--	
ANNUAL MEAN	24.0		24.3		22.2	
HIGHEST ANNUAL MEAN	--		--		29.5	1978
LOWEST ANNUAL MEAN	--		--		15.7	1992
HIGHEST DAILY MEAN	455	May 9	202	Mar 13	455	May 9 1995
LOWEST DAILY MEAN	15	Jan 4	17	Feb 2	12	Mar 10 1992
ANNUAL SEVEN-DAY MINIMUM	16	Jan 1	18	Jan 28	13	Mar 8 1992
INSTANTANEOUS PEAK FLOW	--		248	Mar 13	1230	May 8 1995
INSTANTANEOUS PEAK STAGE	--		3.07	Mar 13	3.80 ^a	May 8 1995
ANNUAL RUNOFF (AC-FT)	17370		17650		16060	
10 PERCENT EXCEEDS	27		31		28	
50 PERCENT EXCEEDS	20		22		20	
90 PERCENT EXCEEDS	16		19		16	

a From floodmarks, present site and datum.



06429905 SAND CREEK NEAR RANCH A, NEAR BEULAH, WY

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 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. Station is operated and record provided by the South Dakota District.

REVISIONS.--Revised daily discharge measurements, in cubic feet per second, for September 1995 are given below. These figures supercede those published in the report for 1995.

Sept 1	7.5	Sept 9	8.0	Sept 17	10	Sept 25	4.7
2	7.7	10	7.8	18	9.7	26	4.5
3	8.0	11	8.2	19	11	27	3.9
4	8.2	12	9.3	20	10	28	3.5
5	7.6	13	9.8	21	8.0	29	3.3
6	7.2	14	12	22	6.9	30	4.2
7	7.4	15	11	23	5.7		
8	8.0	16	10	24	5.4		
Month	Total	Mean	Max	Min	Ac-ft		
September 1995	228.6	7.62	12	3.3	453		
Water year 1995	724.91	1.99	17	.00	1440		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	.00	.00	e.00	e.00	e.00	e.00	.00	.00	3.2	17	6.6
2	5.6	.00	e.00	e.00	e.00	e.00	e.00	.00	.00	6.4	15	6.5
3	5.4	.00	e.00	e.00	e.00	e.00	e.00	.00	.00	7.0	15	5.3
4	6.1	.00	e.00	e.00	e.00	e.00	e.00	.00	.00	8.4	15	4.8
5	6.2	.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.4	15	4.4
6	5.4	.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.6	11	3.2
7	4.9	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.6	9.5	4.4
8	4.2	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.6	9.9	5.7
9	3.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.6	13	5.9
10	4.4	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	11	17	6.3
11	3.9	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	19	12	7.5
12	3.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	16	13	5.4
13	4.2	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	10	3.1
14	4.1	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	8.9	6.4
15	4.8	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	8.0	6.4
16	4.0	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	13	7.3	7.4
17	4.6	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	12	8.6	8.1
18	5.3	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	7.7	8.4
19	5.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	25	8.0	8.7
20	5.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	23	7.4	8.1
21	6.2	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	22	9.5	5.0
22	6.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	23	13	4.1
23	8.1	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	23	14	4.3
24	8.6	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	22	14	3.6
25	8.8	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	23	9.9	3.1
26	9.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	23	7.7	.42
27	9.6	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	21	8.5	.03
28	9.7	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	21	9.3	.00
29	9.8	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	21	10	.00
30	7.2	e.00	e.00	e.00	---	e.00	e.00	.00	.00	23	8.9	.00
31	1.4	---	e.00	e.00	---	e.00	---	.00	---	23	7.1	---
TOTAL	182.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	492.8	340.2	143.15
MEAN	5.88	.000	.000	.000	.000	.000	.000	.000	.000	15.9	11.0	4.77
MAX	9.8	.00	.00	.00	.00	.00	.00	.00	.00	25	17	8.7
MIN	1.4	.00	.00	.00	.00	.00	.00	.00	.00	3.2	7.1	.00
AC-FT	362	.00	.00	.00	.00	.00	.00	.00	.00	977	675	284

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	6.93	.19	.000	.000	.000	.000	.006	1.24	6.33	10.3	9.47	8.66
MAX	20.6	.94	.000	.000	.000	.000	.054	6.30	13.9	16.4	18.2	18.8
(WY)	1991	1994	1988	1988	1988	1988	1989	1992	1988	1991	1991	1994
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.84	3.71	.80
(WY)	1988	1988	1988	1988	1988	1988	1988	1990	1991	1993	1993	1993

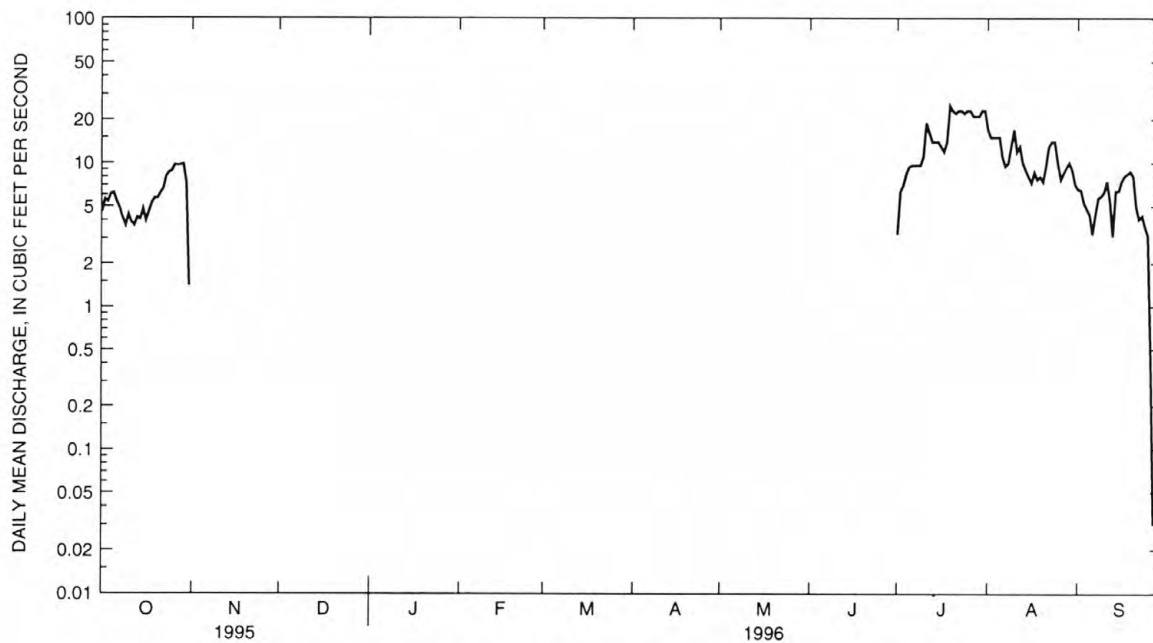
CHEYENNE RIVER BASIN

06429997 MURRAY DITCH ABOVE HEADGATE, AT WYOMING-SOUTH DAKOTA STATE LINE

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1988 - 1996	
ANNUAL TOTAL	762.58	1158.45	--	
ANNUAL MEAN	2.09	3.17	3.62	
HIGHEST ANNUAL MEAN	--	--	5.32	1994
LOWEST ANNUAL MEAN	--	--	.92	1993
HIGHEST DAILY MEAN	14 Jul 26	25 Jul 19	46	Oct 8 1990
LOWEST DAILY MEAN	.00 Jan 1	.00 Nov 1	.00	Oct 1 1987 ^a
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Nov 1	.00	Oct 1 1987
ANNUAL RUNOFF (AC-FT)	1510	2300	2620	
10 PERCENT EXCEEDS	8.4	10	13	
50 PERCENT EXCEEDS	.00	.00	.00	
90 PERCENT EXCEEDS	.00	.00	.00	

e Estimated

a No flow for many days in each year.



06429997 MURRAY DITCH ABOVE HEADGATE, AT WYOMING-SOUTH DAKOTA STATE LINE

06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°34'26", long 104°02'54", in NW¹/₄ NW¹/₄ 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. Large diversions for irrigation upstream from station. Total flow passing State line may be obtained by adding flow of Murray ditch (see station 06429997). Station operated and record provided by South Dakota District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	38	37	32	e37	26	36	52	88	46	23	29
2	22	37	37	31	e55	26	37	53	77	42	25	36
3	22	35	37	39	e55	27	37	53	73	40	25	32
4	25	35	37	37	e50	27	38	53	71	38	25	32
5	27	36	36	33	e45	27	38	53	69	35	25	31
6	25	36	35	e28	e55	27	39	53	68	37	28	32
7	26	36	35	e29	e70	26	40	57	69	37	30	36
8	25	36	e30	36	e70	28	41	57	67	35	29	36
9	25	36	e25	36	e60	26	42	61	65	35	29	36
10	25	36	e32	38	e50	29	43	62	64	33	32	37
11	25	35	36	40	45	51	57	61	63	26	30	37
12	25	37	36	39	44	107	62	60	61	25	29	37
13	25	37	36	39	42	459	60	59	60	26	29	36
14	25	37	36	37	40	324	58	59	61	26	28	37
15	25	35	36	36	38	104	54	59	61	25	30	36
16	25	36	35	35	38	77	56	59	56	25	32	36
17	26	36	33	35	37	64	68	59	58	25	29	36
18	26	36	33	e28	32	54	77	58	62	25	30	36
19	26	36	33	e24	32	50	70	57	61	21	30	38
20	26	35	33	e27	32	49	61	57	60	18	29	38
21	26	35	34	e30	31	49	57	51	57	18	28	39
22	31	35	33	35	31	46	54	50	57	18	26	39
23	34	36	33	34	31	42	52	52	57	17	26	38
24	32	36	33	34	30	41	52	55	58	18	26	38
25	31	36	33	e30	29	40	51	58	58	19	26	39
26	31	37	33	e28	27	40	52	63	57	22	27	40
27	31	37	33	e25	27	38	52	93	55	20	28	40
28	31	36	33	e22	28	35	51	131	52	21	28	40
29	31	37	33	e18	28	35	51	111	55	21	29	42
30	34	37	33	e20	---	36	52	98	52	20	31	42
31	37	---	33	e27	---	35	---	95	---	21	30	---
TOTAL	847	1083	1052	982	1189	2045	1538	1999	1872	835	872	1101
MEAN	27.3	36.1	33.9	31.7	41.0	66.0	51.3	64.5	62.4	26.9	28.1	36.7
MAX	37	38	37	40	70	459	77	131	88	46	32	42
MIN	22	35	25	18	27	26	36	50	52	17	23	29
AC-FT	1680	2150	2090	1950	2360	4060	3050	3970	3710	1660	1730	2180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)*

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
MEAN	27.6	31.9	31.6	30.9	32.0	33.9	36.2	53.7	46.0	22.5	21.6	24.7
MAX	45.0	47.9	47.1	46.1	57.8	66.0	60.9	168	128	54.9	58.9	50.4
(WY)	1973	1974	1974	1974	1971	1996	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

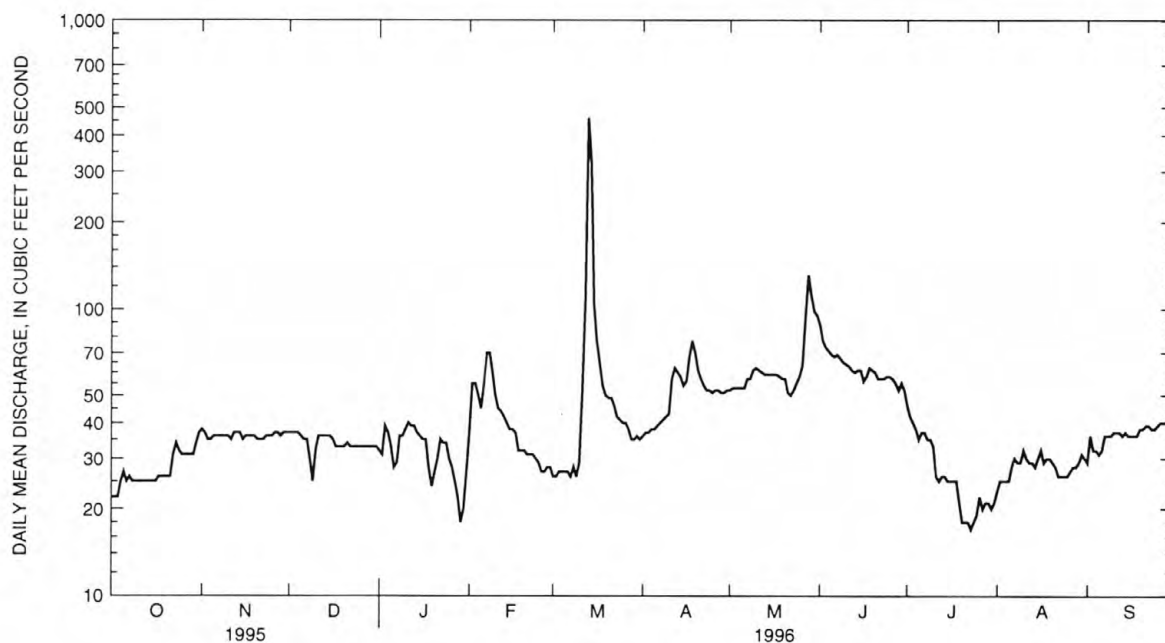
06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996*	
ANNUAL TOTAL	15492		15415		--	
ANNUAL MEAN	42.4		42.1		32.7	
HIGHEST ANNUAL MEAN	--		--		56.0	1973
LOWEST ANNUAL MEAN	--		--		17.9	1961
HIGHEST DAILY MEAN	1330	May 9	459	Mar 13	1330	May 9 1995
LOWEST DAILY MEAN	18	Mar 6	17	Jul 23	1.3	May 22 1985 ^a
ANNUAL SEVEN-DAY MINIMUM	19	Aug 29	18	Jul 19	1.9	May 21 1985
INSTANTANEOUS PEAK FLOW	--		622	Mar 13	2440	Aug 22 1973 ^b
INSTANTANEOUS PEAK STAGE	--		6.74	Mar 13	12.19	Aug 22 1973
ANNUAL RUNOFF (AC-FT)	30730		30580		23690	
10 PERCENT EXCEEDS	54		61		45	
50 PERCENT EXCEEDS	28		36		30	
90 PERCENT EXCEEDS	22		25		15	

e Estimated.

* Period using present site and datum only. 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 at gage height, 11.95 ft.

06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

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.

DRAINAGE AREA.--1,431 mi².

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.

REVISED RECORDS.--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

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: Dec. 15 to Apr. 6. Records good except those for Apr. 7 to July 24, which are fair and 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 data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	320	322	130	100	130	270	966	1560	1260	416	121
2	211	343	272	110	85	150	320	998	1360	1090	354	107
3	194	261	291	130	110	170	450	1120	1190	1020	337	97
4	191	256	219	110	140	190	800	1210	1090	997	382	90
5	206	226	257	100	150	150	1500	1310	1170	1040	380	86
6	217	265	258	90	165	120	2300	1500	1310	1150	334	83
7	207	279	225	110	180	140	2340	1710	1510	1220	292	102
8	204	225	163	130	190	160	2290	1920	1630	1080	264	115
9	202	260	143	150	170	185	2580	2050	1730	973	245	112
10	197	235	247	160	150	170	3130	2160	1900	952	231	99
11	180	120	286	150	130	160	3760	2300	1960	840	224	90
12	177	280	269	130	150	150	3300	2240	2000	712	215	85
13	182	314	263	120	160	130	2310	2220	1990	643	203	86
14	211	435	219	120	170	135	1670	2300	1980	591	194	87
15	216	495	180	130	160	140	1270	2500	2020	595	192	88
16	198	451	130	150	140	150	1240	2660	2120	626	189	88
17	183	378	150	110	150	160	1360	2840	2120	557	182	82
18	175	363	140	93	170	140	1420	3030	2120	556	173	81
19	161	318	130	100	190	130	1270	3480	1880	603	163	81
20	161	297	120	120	190	165	1020	3530	1670	591	170	86
21	162	274	110	140	180	190	923	3240	1780	493	176	87
22	165	262	120	115	160	210	830	2690	2440	449	171	92
23	151	260	110	100	140	190	760	2100	3330	455	165	94
24	172	240	120	115	160	170	829	1830	3360	403	156	112
25	191	224	130	120	180	150	1360	1730	2590	376	142	137
26	204	242	140	110	150	160	1870	1920	1730	368	131	210
27	217	223	130	120	130	180	1810	2240	1570	358	127	235
28	216	121	120	130	120	190	1530	2480	1720	338	130	209
29	211	199	130	130	110	210	1330	2560	1710	372	138	184
30	212	298	140	130	---	230	1070	2240	1540	492	132	169
31	240	---	150	120	---	250	---	1830	---	498	127	---
TOTAL	6012	8464	5684	3773	4380	5155	46912	66904	56080	21698	6735	3395
MEAN	194	282	183	122	151	166	1564	2158	1869	700	217	113
MAX	240	495	322	160	190	250	3760	3530	3360	1260	416	235
MIN	151	120	110	90	85	120	270	966	1090	338	127	81
AC-FT	11920	16790	11270	7480	8690	10220	93050	132700	111200	43040	13360	6730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

7												
MEAN	161	150	101	81.7	87.2	168	760	1140	1482	644	266	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

PLATTE RIVER BASIN

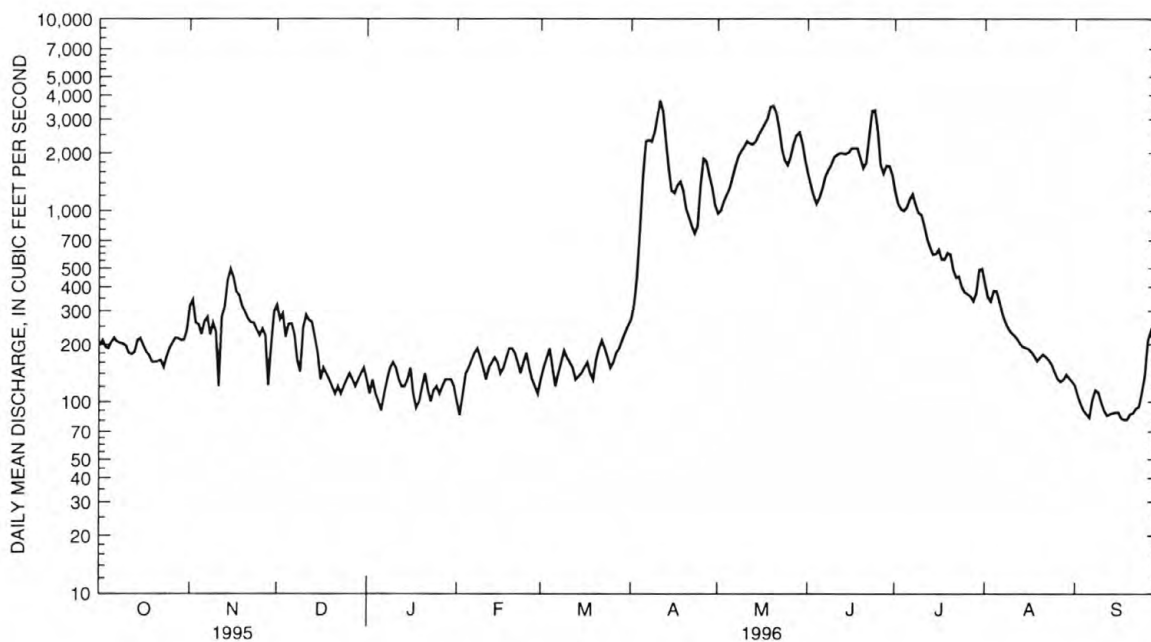
06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1996	
ANNUAL TOTAL	190753		235192		--	
ANNUAL MEAN	523		643		434	
HIGHEST ANNUAL MEAN	--		--		878	
LOWEST ANNUAL MEAN	--		--		117	
HIGHEST DAILY MEAN	4050	Jun 19	3760	Apr 11	6450	Jun 10 1923
LOWEST DAILY MEAN	48	Jan 3	81	Sep 18, 19	19	Jul 17 1934
ANNUAL SEVEN-DAY MINIMUM	53	Jan 1	85	Sep 13	20	Jul 15 1934
INSTANTANEOUS PEAK FLOW	--		3880 ^a	Apr 11	6720 ^b	Jun 11 1923
INSTANTANEOUS PEAK STAGE	--		7.85 ^c	Apr 4	9.65 ^c	Apr 25 1980
ANNUAL RUNOFF (AC-FT)	378400		466500		314200	
10 PERCENT EXCEEDS	1810		1990		1220	
50 PERCENT EXCEEDS	220		211		160	
90 PERCENT EXCEEDS	90		111		68	

a Gage height, 6.20 ft.

b Gage height 6.24 ft, site and datum then in use.

c Backwater from ice jam.



06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

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.

PERIOD OF RECORD.--May 1960 to current year.

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.

REMARKS.--Estimated daily discharges: Oct. 24-26, Nov. 2-8, 11, 12, 21, 22, 27-29, Dec. 3-5, 8-11, Dec. 14 to Jan. 23, and Apr. 15, 20-22, 24-29. Records good except those for May through June, which are fair and 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)
May 17	2200	443	3.67
May 25	2000	419	3.57
June 6	1900	*570	*4.09
June 22	0030	472	3.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	9.2	8.4	9.6	9.3	11	19	299	91	13	8.8
2	16	15	9.6	8.3	9.3	9.3	13	19	309	85	12	8.3
3	13	14	9.1	8.2	9.3	8.9	13	19	348	75	13	8.3
4	18	15	10	8.3	9.3	8.8	13	19	393	69	18	8.0
5	17	13	11	8.5	9.3	8.9	12	24	458	76	15	8.0
6	20	15	9.3	8.6	9.3	8.7	14	38	501	75	13	9.7
7	19	15	9.3	8.7	9.3	8.6	14	47	468	50	12	9.7
8	19	16	9.0	8.6	9.3	8.6	16	60	429	41	11	8.6
9	17	15	8.4	8.6	9.3	8.7	22	73	424	38	11	8.3
10	17	13	8.5	8.7	9.3	9.0	25	72	422	41	10	8.3
11	21	12	9.2	8.7	9.3	9.4	26	94	420	32	10	8.3
12	25	11	9.3	8.7	9.3	9.6	24	146	381	27	9.6	8.0
13	21	12	9.4	8.8	9.3	9.6	22	191	375	26	9.6	8.8
14	15	14	9.0	9.0	9.3	9.7	19	247	331	23	9.2	12
15	15	14	9.0	9.2	9.3	9.8	21	285	273	21	9.2	9.4
16	15	13	9.0	9.4	9.1	10	20	358	261	21	9.3	8.9
17	15	13	8.7	9.4	8.9	10	20	430	276	22	9.2	8.3
18	14	13	8.7	9.4	8.9	10	20	422	267	20	9.0	9.2
19	13	12	8.7	9.6	8.9	10	19	380	258	19	12	10
20	13	11	8.7	9.6	8.9	10	17	280	240	16	12	11
21	13	9.8	8.8	9.6	8.9	11	15	245	279	16	10	12
22	12	10	9.0	9.8	8.9	11	16	245	330	14	9.9	15
23	14	10	8.7	9.8	8.9	11	17	264	221	14	9.7	16
24	15	9.9	8.5	10	8.9	11	19	258	183	14	9.9	11
25	17	9.6	8.4	10	8.9	10	24	331	166	14	9.3	16
26	16	9.6	8.5	10	8.9	11	22	350	155	14	9.2	11
27	15	9.1	8.5	10	8.9	11	21	260	162	13	9.0	10
28	15	8.4	8.4	10	9.1	11	20	226	135	13	9.5	11
29	14	9.0	8.7	10	9.3	10	21	253	111	14	9.3	11
30	14	9.8	9.1	10	---	10	20	290	96	15	9.3	9.7
31	17	---	8.7	10	---	10	---	287	---	14	9.2	---
TOTAL	503	368.2	278.4	285.9	265.2	303.9	556	6232	8971	1023	331.4	302.6
MEAN	16.2	12.3	8.98	9.22	9.14	9.80	18.5	201	299	33.0	10.7	10.1
MAX	25	17	11	10	9.6	11	26	430	501	91	18	16
MIN	12	8.4	8.4	8.2	8.9	8.6	11	19	96	13	9.0	8.0
AC-FT	998	730	552	567	526	603	1100	12360	17790	2030	657	600

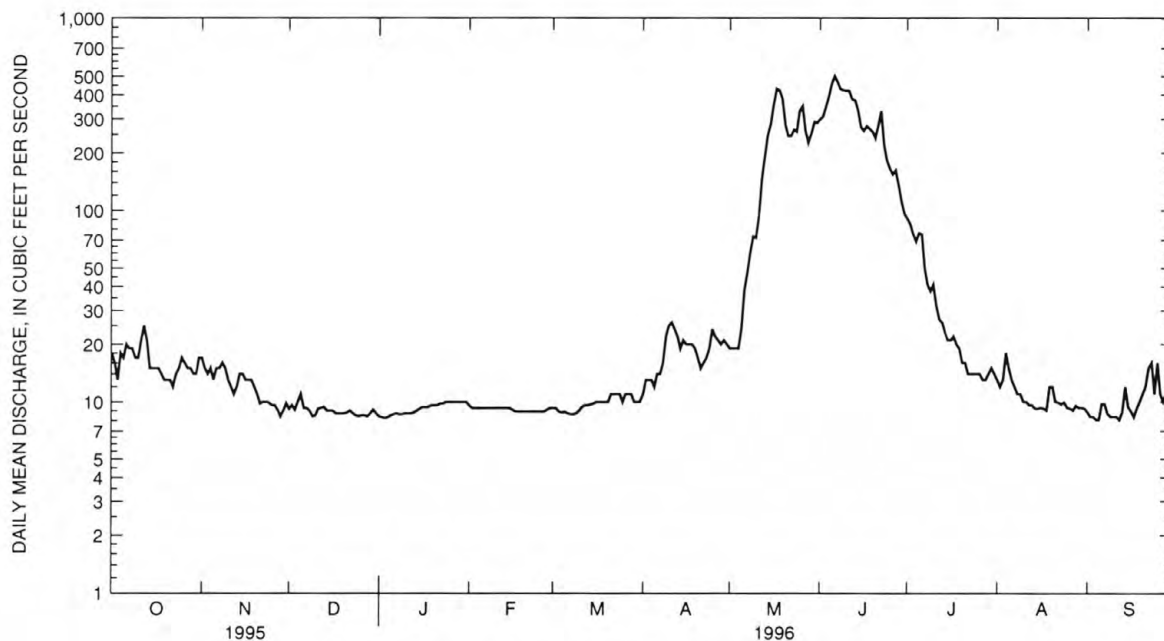
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

MEAN	14.1	11.6	9.97	9.17	9.23	10.6	23.9	163	258	57.7	13.8	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

06622700 NORTH BRUSH CREEK NEAR SARATOGA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1961 - 1996	
ANNUAL TOTAL	21410.7		19420.6		--	
ANNUAL MEAN	58.7		53.1		49.4	
HIGHEST ANNUAL MEAN	--		--		82.0	
LOWEST ANNUAL MEAN	--		--		27.3	
HIGHEST DAILY MEAN	744	Jun 14	501	Jun 6	955	Jun 25 1983
LOWEST DAILY MEAN	7.3	Mar 5	8.0	Sep 4	4.3	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	7.6	Mar 3	8.4	Dec 31	5.1	Oct 25 1976
INSTANTANEOUS PEAK FLOW	--		570	Jun 6	1360 ^a	Jun 25 1983
INSTANTANEOUS PEAK STAGE	--		4.09	Jun 6	4.40	Jun 14 1995
ANNUAL RUNOFF (AC-FT)	42470		38520		35820	
10 PERCENT EXCEEDS	215		246		160	
50 PERCENT EXCEEDS	12		12		12	
90 PERCENT EXCEEDS	8.8		8.7		8.2	

a Gage height 4.23 ft, site and datum then in use.



06622700 NORTH BRUSH CREEK NEAR SARATOGA, WY

PLATTE RIVER BASIN

241

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.--Estimated daily discharges: May 1-4, Aug. 13-18, and Sept. 5-30. Records good except those for estimated daily discharges, which are poor. 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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.5	151	45	2.0	1.8
2	---	---	---	---	---	---	---	2.5	162	38	1.9	1.7
3	---	---	---	---	---	---	---	4.5	195	29	1.9	1.6
4	---	---	---	---	---	---	---	7.0	226	24	2.3	1.4
5	---	---	---	---	---	---	---	13	263	34	2.3	1.3
6	---	---	---	---	---	---	---	31	271	27	2.1	1.2
7	---	---	---	---	---	---	---	45	267	13	2.1	1.2
8	---	---	---	---	---	---	---	55	272	9.4	2.0	1.2
9	---	---	---	---	---	---	---	68	273	9.0	1.8	1.2
10	---	---	---	---	---	---	---	68	283	7.6	1.7	1.2
11	---	---	---	---	---	---	---	72	282	4.7	1.6	1.2
12	---	---	---	---	---	---	---	103	281	3.4	1.5	1.2
13	---	---	---	---	---	---	---	128	277	2.7	1.4	1.3
14	---	---	---	---	---	---	---	158	273	2.4	1.3	1.2
15	---	---	---	---	---	---	---	170	202	2.3	1.2	1.2
16	---	---	---	---	---	---	---	198	187	2.2	1.2	1.2
17	---	---	---	---	---	---	---	247	201	2.3	1.3	1.2
18	---	---	---	---	---	---	---	232	205	2.3	1.4	1.3
19	---	---	---	---	---	---	---	192	210	2.1	2.3	1.3
20	---	---	---	---	---	---	---	160	189	2.1	2.2	1.3
21	---	---	---	---	---	---	---	139	191	2.1	2.0	1.4
22	---	---	---	---	---	---	---	142	211	2.1	2.3	1.3
23	---	---	---	---	---	---	---	148	154	2.0	2.4	1.2
24	---	---	---	---	---	---	---	142	129	2.0	2.4	1.3
25	---	---	---	---	---	---	---	177	107	1.9	2.3	1.4
26	---	---	---	---	---	---	---	177	104	1.8	2.3	1.3
27	---	---	---	---	---	---	---	158	103	1.9	2.2	1.2
28	---	---	---	---	---	---	---	141	78	1.8	2.2	1.2
29	---	---	---	---	---	---	---	138	59	1.9	2.1	1.2
30	---	---	---	---	---	---	---	148	50	2.1	2.1	1.2
31	---	---	---	---	---	---	---	145	---	2.0	2.0	---
TOTAL	---	---	---	---	---	---	---	3610.5	5856	284.1	59.8	38.9
MEAN	---	---	---	---	---	---	---	116	195	9.16	1.93	1.30
MAX	---	---	---	---	---	---	---	247	283	45	2.4	1.8
MIN	---	---	---	---	---	---	---	1.5	50	1.8	1.2	1.2
AC-FT	---	---	---	---	---	---	---	7160	11620	564	119	77

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

PLATTE RIVER BASIN

06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY--Continued

SUMMARY STATISTICS

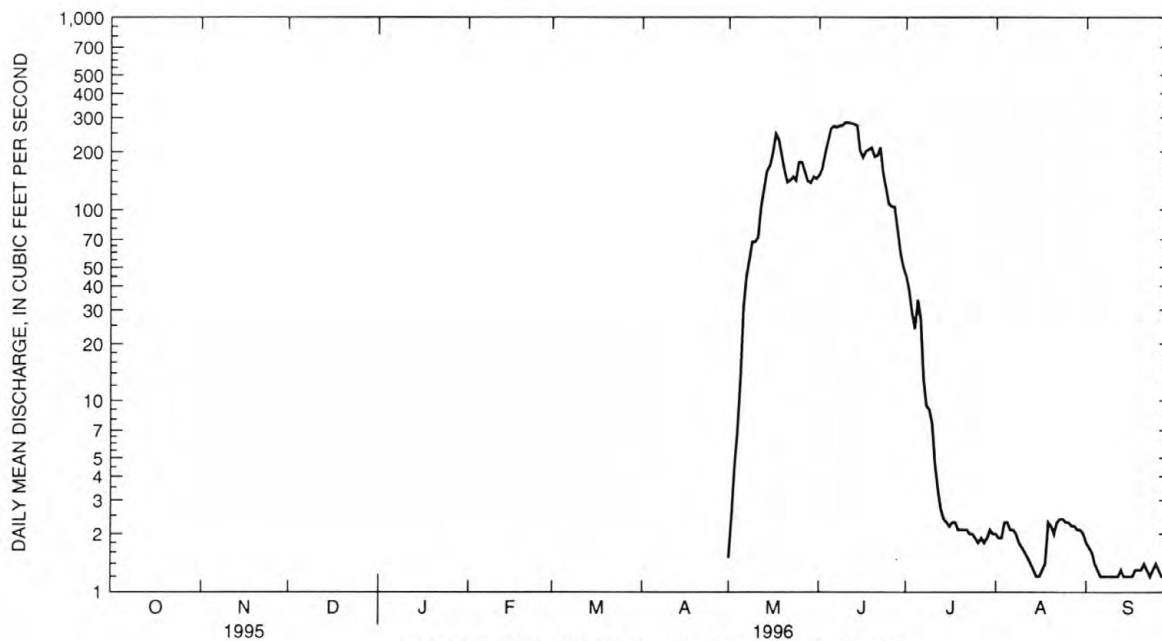
FOR 1996 WATER YEAR*

WATER YEARS 1961 - 1972

ANNUAL MEAN	--		31.8	
HIGHEST ANNUAL MEAN	--		45.9	1962
LOWEST ANNUAL MEAN	--		18.6	1963
HIGHEST DAILY MEAN	283	Jun 10	501	Jun 10 1965#
LOWEST DAILY MEAN	1.2	Several days	.80	Aug 15-20, 1963#
ANNUAL SEVEN-DAY MINIMUM	--		.84	Aug 28, 29 1963#
INSTANTANEOUS PEAK FLOW	308	Jun 10	559	Aug 14 1963
INSTANTANEOUS PEAK STAGE	3.39	Jun 10	4.09	Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--		23070	Jun 10 1965#
10 PERCENT EXCEEDS	--		91	
50 PERCENT EXCEEDS	--		8.2	
90 PERCENT EXCEEDS	--		4.6	

* During period of operation.

For period of record through 1996.



06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY

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: Oct. 23-26, Nov. 3-8, 11-19, 21, Nov. 28 to Dec. 2, Dec. 8-10, 14-17, Jan. 24 to Mar. 13, and Mar. 18 to May 10. Records good except those for Dec. 18 to Jan. 23 and May 11-29, 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 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	1830	962	4.22
June 10	2100	*1,190	*4.55

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	45	36	30	24	24	25	47	606	327	65	30
2	46	36	34	30	24	24	33	48	631	312	62	29
3	40	33	34	28	24	22	33	48	703	289	85	29
4	46	32	31	28	24	23	33	48	805	268	151	28
5	43	37	32	27	24	23	30	70	908	263	74	28
6	40	42	31	26	24	22	35	90	944	253	61	34
7	44	44	31	26	24	22	35	100	901	214	58	35
8	47	40	28	26	24	22	40	130	942	186	54	30
9	42	38	27	25	24	22	53	180	987	174	51	28
10	42	37	28	25	24	23	60	230	1010	163	49	27
11	45	33	29	25	24	24	65	257	1010	147	47	27
12	50	38	28	25	24	25	60	353	902	135	45	29
13	44	43	27	26	24	24	56	414	897	124	43	34
14	38	46	26	25	24	24	48	499	833	117	43	31
15	38	49	25	25	24	23	58	566	738	111	41	29
16	37	47	26	24	24	24	52	729	693	108	40	27
17	35	44	27	24	24	22	50	854	727	138	38	27
18	34	40	28	25	24	22	50	787	741	117	39	30
19	32	37	29	26	23	22	49	718	727	111	49	32
20	28	34	31	27	23	22	43	556	706	95	43	33
21	33	32	32	28	23	24	40	500	911	89	39	36
22	30	33	32	29	23	24	43	520	849	83	41	39
23	31	31	31	30	23	24	49	540	647	80	37	37
24	30	31	30	28	23	24	54	509	539	78	35	32
25	34	31	29	27	23	23	65	645	487	74	33	44
26	37	30	29	26	23	25	62	659	462	73	32	39
27	36	31	28	26	23	25	58	534	446	72	36	34
28	35	27	28	26	23	25	52	501	420	67	37	36
29	36	32	28	26	24	23	57	506	382	95	33	38
30	49	37	29	26	---	23	51	555	346	103	32	35
31	56	---	30	25	---	23	---	590	---	72	31	---
TOTAL	1231	1110	914	820	686	722	1439	12783	21900	4538	1524	967
MEAN	39.7	37.0	29.5	26.5	23.7	23.3	48.0	412	730	146	49.2	32.2
MAX	56	49	36	30	24	25	65	854	1010	327	151	44
MIN	28	27	25	24	23	22	25	47	346	67	31	27
AC-FT	2440	2200	1810	1630	1360	1430	2850	25360	43440	9000	3020	1920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

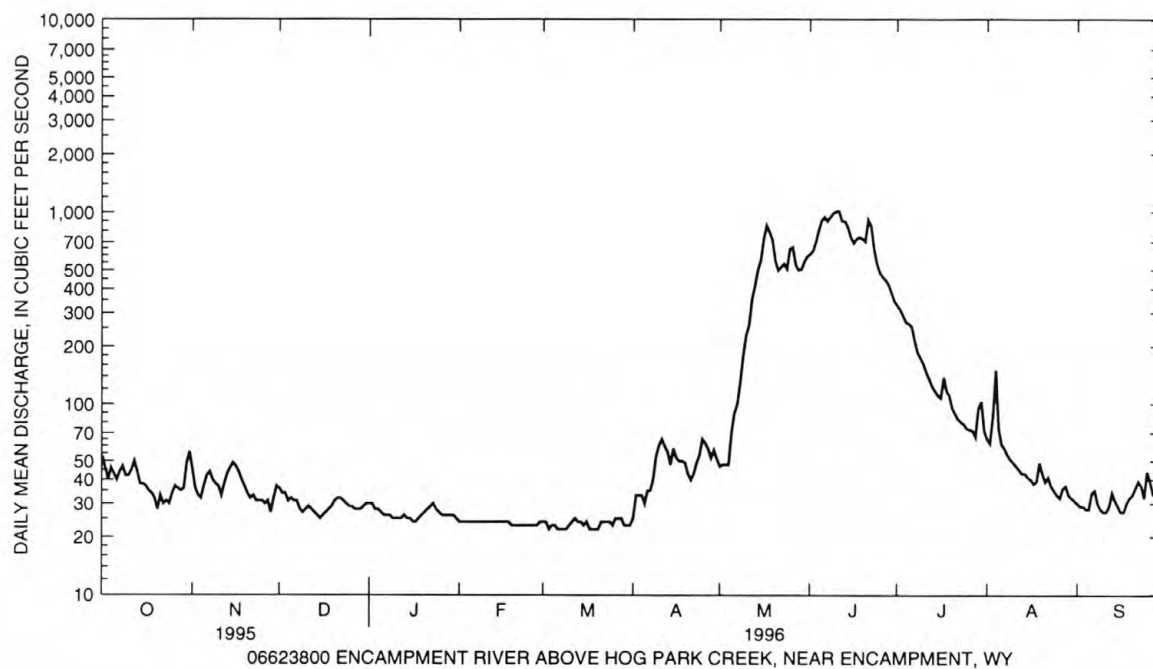
MEAN	30.1	24.4	21.8	19.4	18.4	19.3	40.4	270	600	213	47.2	31.9
MAX	60.5	38.7	32.1	28.9	28.1	30.5	76.5	468	914	581	83.3	63.4
(WY)	1966	1985	1984	1971	1971	1986	1989	1974	1978	1995	1995	1984
MIN	17.5	15.6	11.7	10.9	10.8	10.9	19.3	120	171	46.2	25.2	18.1
(WY)	1992	1978	1969	1969	1969	1969	1975	1995	1992	1994	1977	1994

PLATTE RIVER BASIN

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1965 - 1996	
ANNUAL TOTAL	56147		48634		--	
ANNUAL MEAN	154		133		111	
HIGHEST ANNUAL MEAN	--		--		159	1982
LOWEST ANNUAL MEAN	--		--		51.2	1977
HIGHEST DAILY MEAN	1170	Jun 17	1010	Jun 10,11	1360	Jun 25 1983
LOWEST DAILY MEAN	13	Feb 10	22	Several days	9.5	Dec 31 1968
ANNUAL SEVEN-DAY MINIMUM	15	Feb 5	22	Mar 3	10	Mar 8 1969
INSTANTANEOUS PEAK FLOW	--		1190	Jun 10	1680 ^a	Jun 13 1965
INSTANTANEOUS PEAK STAGE	--		4.55	Jun 10	4.81	Jun 16 1995
ANNUAL RUNOFF (AC-FT)	111400		96470		80640	
10 PERCENT EXCEEDS	687		524		378	
50 PERCENT EXCEEDS	35		36		28	
90 PERCENT EXCEEDS	16		24		16	

a About June 13, 1965, from slope-area measurement of peak flow, gage height not determined.



PLATTE RIVER BASIN

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06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT 10...	1400	43	58	7.7	6.5	14.0	568	0.3	9.5	104	K3
JUL 24...	1015	79	54	7.8	10.0	14.0	569	0.3	8.5	101	22

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

DATE	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 FIELD (MG/L AS HCO3 CO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
OCT 10...	K1	23	6.7	1.4	2.0	0.2	0.8	31	0	25	27
JUL 24...	16	20	6.1	1.2	1.8	0.2	0.5	29	0	24	25

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

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, 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)
OCT 10...	2.1	0.5	<0.1	10	33	39	0.05	3.83	<0.01	<0.05	<0.02
JUL 24...	1.9	0.2	<0.1	8.8	37	35	0.05	7.89	<0.01	0.09	0.03

DATE	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)	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 10...	<0.2	0.02	<0.01	30	13	<3	76	<4	3	<10
JUL 24...	<0.2	<0.01	0.01	10	14	<3	60	<4	2	<10

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)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 10...	<1	<1	<1.0	34	<6	--	--	3	0.35	71
JUL 24...	<1	<1	<1.0	35	<6	0.09	0.13	3	0.64	43

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. 28, Dec. 8, 9, Dec. 15 to Feb. 19, Feb. 22 to Mar. 4, Mar. 7, May 15, 16, 21-28, May 31 to June 5, June 16-21, 23, and July 8. 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)
May 18	0200	*2,510	*5.83
June 10	0430	2,380	5.71

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	166	112	74	62	100	97	189	1410	572	95	58
2	74	121	108	67	59	110	112	195	1440	539	77	57
3	85	106	103	73	63	115	120	202	1480	509	91	56
4	126	118	100	70	69	120	109	241	1550	507	192	56
5	120	111	93	65	77	122	109	302	1750	486	124	59
6	108	122	106	60	85	122	104	421	2210	492	101	58
7	112	115	99	65	90	120	118	543	2100	405	95	61
8	118	113	94	70	94	121	124	555	1960	350	89	55
9	112	120	96	72	96	124	154	683	2030	309	88	50
10	109	117	99	74	94	129	181	731	2150	306	102	47
11	108	110	98	74	90	132	232	743	2160	260	114	46
12	111	121	98	70	90	132	211	897	1930	216	123	51
13	112	123	102	63	97	128	212	1050	1840	188	122	57
14	104	153	89	64	110	129	189	1310	1790	175	124	55
15	100	147	86	66	100	131	182	1550	1560	165	122	53
16	99	131	83	68	110	132	191	1900	1450	156	118	50
17	99	123	85	62	120	131	193	2310	1370	187	106	44
18	97	117	79	60	130	127	182	2300	1400	159	90	37
19	95	113	72	64	125	125	174	2190	1450	157	101	38
20	91	115	70	70	123	130	160	1740	1400	133	102	37
21	100	102	70	72	110	108	161	1500	1500	119	93	37
22	115	111	73	70	100	98	152	1340	1690	108	93	38
23	97	107	70	64	95	103	156	1400	1400	95	93	41
24	102	103	72	67	100	94	181	1480	1180	93	92	41
25	120	102	75	70	110	104	234	1400	982	89	95	41
26	129	106	76	65	110	125	244	1650	872	96	94	51
27	120	102	76	67	100	104	269	1700	886	98	79	47
28	115	100	74	69	91	100	249	1300	810	95	74	50
29	117	107	71	69	97	99	224	1200	717	110	66	63
30	128	114	75	69	---	96	197	1300	629	147	62	75
31	155	---	78	65	---	96	---	1380	---	111	60	---
TOTAL	3369	3516	2682	2098	2797	3607	5221	35702	45096	7432	3077	1509
MEAN	109	117	86.5	67.7	96.4	116	174	1152	1503	240	99.3	50.3
MAX	155	166	112	74	130	132	269	2310	2210	572	192	75
MIN	74	100	70	60	59	94	97	189	629	89	60	37
AC-FT	6680	6970	5320	4160	5550	7150	10360	70810	89450	14740	6100	2990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

	75.9	75.9	67.2	59.7	60.7	68.0	147	756	1189	288	65.8	52.8
MEAN	75.9	75.9	67.2	59.7	60.7	68.0	147	756	1189	288	65.8	52.8
MAX	165	147	92.8	84.7	115	117	352	1258	2029	942	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

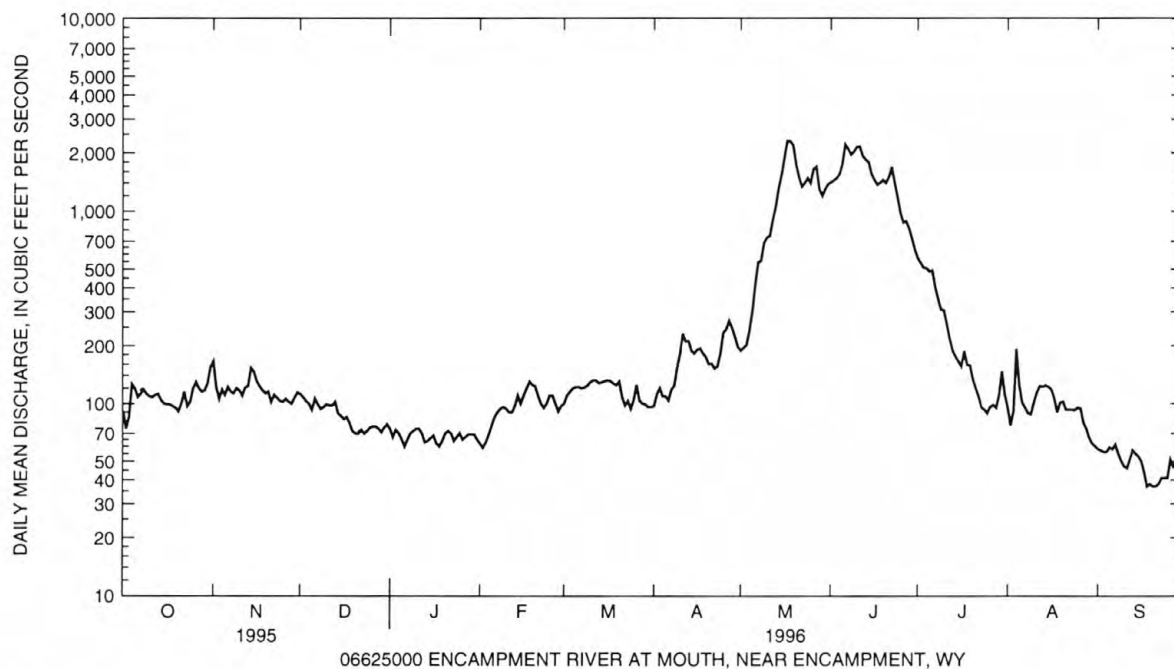
06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	126586		116106		--	
ANNUAL MEAN	347		317		242	
HIGHEST ANNUAL MEAN	--		--		370	1984
LOWEST ANNUAL MEAN	--		--		102	1977
HIGHEST DAILY MEAN	3030	Jun 17	2310	May 17	3640	Jun 4 1952
LOWEST DAILY MEAN	42	Sep 16, 17	37	Sep 18, 20, 21	8.0 ^a	Sep 1 1954
ANNUAL SEVEN-DAY MINIMUM	47	Sep 12	38	Sep 18	8.9	Aug 28 1954
INSTANTANEOUS PEAK FLOW	--		2510	May 18	4510 ^b	Jun 1 1943
INSTANTANEOUS PEAK STAGE	--		5.83	May 18	10.33 ^c	Jun 4 1952
INSTANTANEOUS LOW FLOW	--		34	Sep 18	34	Sep 18 1996
ANNUAL RUNOFF (AC-FT)	251100		230300		175500	
10 PERCENT EXCEEDS	1320		1350		789	
50 PERCENT EXCEEDS	104		110		72	
90 PERCENT EXCEEDS	72		63		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. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Mar. 29 . . . 21.5

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	28	37	119	36	8.3	3.3
2	---	---	---	---	---	---	38	40	106	32	6.9	2.8
3	---	---	---	---	---	---	37	43	98	30	6.5	2.6
4	---	---	---	---	---	---	32	46	98	28	7.7	2.3
5	---	---	---	---	---	---	29	57	100	28	7.5	2.0
6	---	---	---	---	---	---	29	70	104	28	5.9	2.6
7	---	---	---	---	---	---	34	81	102	24	5.5	3.7
8	---	---	---	---	---	---	38	73	99	22	5.4	3.7
9	---	---	---	---	---	---	49	88	102	22	5.2	3.2
10	---	---	---	---	---	---	58	82	105	23	5.0	2.9
11	---	---	---	---	---	---	74	84	103	19	4.8	2.7
12	---	---	---	---	---	---	57	108	100	17	5.1	3.4
13	---	---	---	---	---	---	55	122	89	16	4.5	4.7
14	---	---	---	---	---	---	42	150	88	15	4.5	5.2
15	---	---	---	---	---	---	42	163	85	14	5.2	5.1
16	---	---	---	---	---	---	45	179	80	13	5.8	4.6
17	---	---	---	---	---	---	49	252	77	15	4.9	4.7
18	---	---	---	---	---	---	39	218	74	14	4.8	5.7
19	---	---	---	---	---	---	38	204	71	13	4.8	6.6
20	---	---	---	---	---	---	34	175	68	11	6.4	6.9
21	---	---	---	---	---	---	36	123	71	10	6.6	6.9
22	---	---	---	---	---	---	36	110	101	9.1	5.7	6.2
23	---	---	---	---	---	---	33	117	77	8.9	4.8	5.4
24	---	---	---	---	---	---	39	124	64	9.0	4.2	5.5
25	---	---	---	---	---	---	59	165	57	8.8	3.8	5.9
26	---	---	---	---	---	---	59	263	52	8.6	3.6	5.9
27	---	---	---	---	---	---	56	214	51	8.6	3.9	6.6
28	---	---	---	---	---	---	48	194	50	8.1	4.7	6.8
29	---	---	---	---	---	---	41	169	47	8.6	5.0	6.2
30	---	---	---	---	---	---	39	143	40	13	4.2	5.8
31	---	---	---	---	---	---	---	130	---	11	3.8	---
TOTAL	---	---	---	---	---	---	1293	4024	2478	523.7	165.0	139.9
MEAN	---	---	---	---	---	---	43.1	130	82.6	16.9	5.32	4.66
MAX	---	---	---	---	---	---	74	263	119	36	8.3	6.9
MIN	---	---	---	---	---	---	28	37	40	8.1	3.6	2.0
AC-FT	---	---	---	---	---	---	2560	7980	4920	1040	327	277

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)*

	---	---	---	---	---	---	27.9	95.3	95.5	26.4	6.26	4.83
MEAN	---	---	---	---	---	---	43.2	149	230	84.0	14.0	8.28
MAX	---	---	---	---	---	---	1994	1993	1995	1995	1995	1993
(WY)	---	---	---	---	---	---	15.6	39.7	32.9	8.07	2.53	2.76
MIN	---	---	---	---	---	---	1991	1990	1992	1994	1994	1990
(WY)	---	---	---	---	---	---						

06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY--Continued

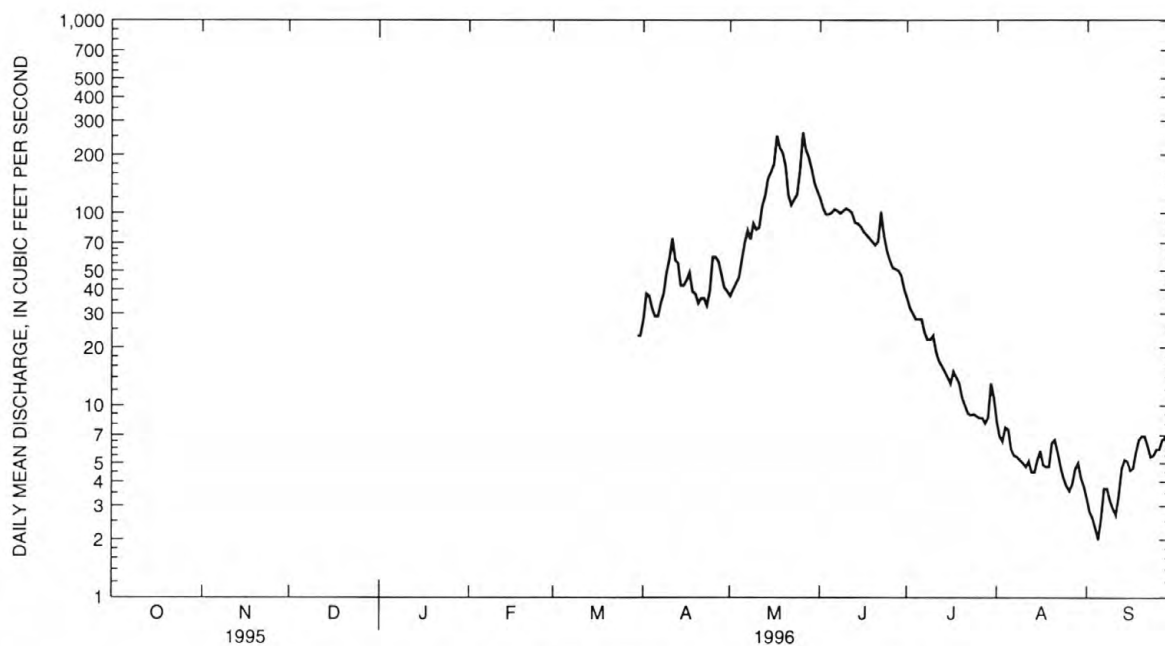
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1990 - 1996*

HIGHEST DAILY MEAN	263	May 26	379	Jun 9 1995
LOWEST DAILY MEAN	2.0	Sep 5	.40	Aug 27 1994
INSTANTANEOUS PEAK FLOW	340	May 26	461 ^a	Jun 9 1993
INSTANTANEOUS PEAK STAGE	6.48	May 26	7.22	Jun 9 1995
10 PERCENT EXCEEDS	--		117	
50 PERCENT EXCEEDS	--		19	
90 PERCENT EXCEEDS	--		2.9	

* During period of operation.
 a Gage height, 7.08 ft.



06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY

PLATTE RIVER BASIN

06628900 PASS CREEK NEAR ELK MOUNTAIN, WY

LOCATION.--Lat 41°35'12", long 106°36'40", in NE¹/₄ SE¹/₄ SE¹/₄ sec.28, T.19 N., R.82 W., Carbon County, Hydrologic Unit 10180002, on right bank 500 ft upstream from bridge on county road, 700 ft upstream from Brush Creek, 12 mi southwest of town of Elk Mountain, and 14 mi northeast of Saratoga.

DRAINAGE AREA.--91.5 mi². Area at mouth, 279 mi².

PERIOD OF RECORD.--April 1957 to current year (no winter records since 1992).

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above sea level, from topographic map. Apr. 18, 1957 to Oct. 6, 1966, 274 ft upstream at datum 6.00 ft higher. Oct. 7, 1966 to Sept 23, 1987, at site 289 ft upstream at datum 6.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 6,300 acres upstream from station. Diversion to Kerr ditch 7.5 mi upstream. Results of discharge measurements, in cubic feet per second, made when station was not in operation, are given below:

Oct.	4	.	.	.	38.9
Mar.	29	.	.	.	41.8

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 24	1900	*391	*6.79
May 17	0130	390	6.78
May 27	0630	336	6.58

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	51	46	147	22	8.5	4.3
2	---	---	---	---	---	---	71	47	135	21	7.7	3.7
3	---	---	---	---	---	---	64	49	135	20	7.2	3.4
4	---	---	---	---	---	---	51	48	141	20	8.0	3.4
5	---	---	---	---	---	---	43	61	143	21	8.0	3.6
6	---	---	---	---	---	---	42	95	139	21	6.5	4.4
7	---	---	---	---	---	---	50	112	118	17	5.9	5.1
8	---	---	---	---	---	---	60	121	104	16	6.2	4.8
9	---	---	---	---	---	---	84	147	107	16	6.0	4.3
10	---	---	---	---	---	---	89	118	101	32	5.6	4.1
11	---	---	---	---	---	---	84	115	101	34	5.3	4.0
12	---	---	---	---	---	---	71	154	100	30	4.9	4.4
13	---	---	---	---	---	---	65	183	94	32	5.0	4.8
14	---	---	---	---	---	---	47	230	92	32	5.4	5.0
15	---	---	---	---	---	---	44	250	95	32	5.2	5.1
16	---	---	---	---	---	---	55	261	90	29	5.0	4.8
17	---	---	---	---	---	---	68	303	79	28	5.0	9.1
18	---	---	---	---	---	---	49	256	72	31	4.9	12
19	---	---	---	---	---	---	38	287	58	31	6.1	14
20	---	---	---	---	---	---	44	249	52	31	6.1	15
21	---	---	---	---	---	---	39	171	62	27	5.8	16
22	---	---	---	---	---	---	36	159	141	27	5.6	14
23	---	---	---	---	---	---	48	176	73	26	5.2	13
24	---	---	---	---	---	---	204	167	56	26	4.9	13
25	---	---	---	---	---	---	149	183	43	26	4.7	13
26	---	---	---	---	---	---	97	251	35	25	4.4	13
27	---	---	---	---	---	---	86	283	46	20	4.5	13
28	---	---	---	---	---	---	60	206	46	11	4.8	12
29	---	---	---	---	---	---	49	193	35	10	5.0	11
30	---	---	---	---	---	---	48	180	20	11	4.6	11
31	---	---	---	---	---	---	---	160	---	9.8	4.5	---
TOTAL	---	---	---	---	---	---	1986	5261	2660	734.8	176.5	248.3
MEAN	---	---	---	---	---	---	66.2	170	88.7	23.7	5.69	8.28
MAX	---	---	---	---	---	---	204	303	147	34	8.5	16
MIN	---	---	---	---	---	---	36	46	20	9.8	4.4	3.4
AC-FT	---	---	---	---	---	---	3940	10440	5280	1460	350	39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

MEAN	12.1	11.8	10.2	9.56	10.2	18.1	63.5	178	131	31.5	12.9	9.89
MAX	20.5	24.9	17.6	15.3	23.6	44.5	151	540	360	85.9	31.9	23.8
(WY)	1971	1974	1974	1984	1962	1960	1971	1984	1983	1983	1983	1982
MIN	4.98	5.20	6.87	5.43	4.37	7.31	14.8	62.0	36.1	9.45	3.14	3.37
(WY)	1964	1978	1978	1981	1982	1965	1966	1989	1989	1977	1989	1977

06628900 PASS CREEK NEAR ELK MOUNTAIN, WY--Continued

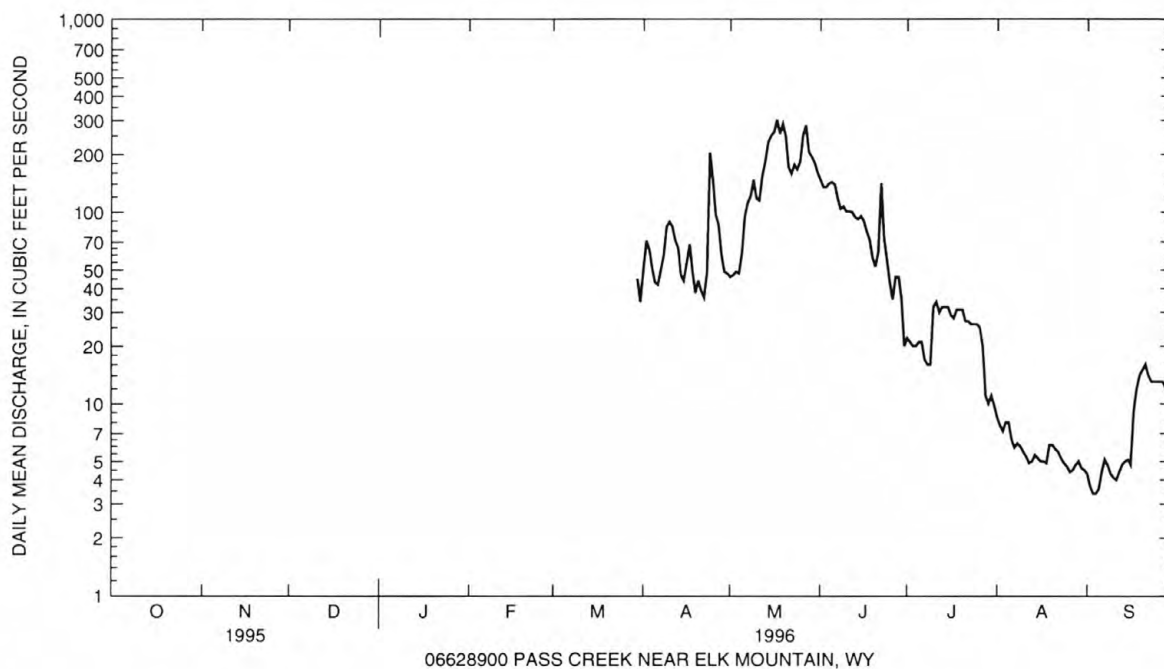
SUMMARY STATISTICS	FOR 1996 WATER YEAR*	WATER YEARS 1957 - 1992
ANNUAL MEAN	--	41.1
HIGHEST ANNUAL MEAN	--	86.4
LOWEST ANNUAL MEAN	--	20.2
HIGHEST DAILY MEAN	303 May 17	1780 May 12 1984
LOWEST DAILY MEAN	3.4 Sep 3,4	.93 Sep 7 1989#
ANNUAL SEVEN-DAY MINIMUM	--	1.0 Sep 1 1989
INSTANTANEOUS PEAK FLOW	391 Apr 24	4660a May 12 1984#
INSTANTANEOUS PEAK STAGE	6.79 Apr 24	9.12 ^b May 12 1984#
ANNUAL RUNOFF (AC-FT)	--	29790
10 PERCENT EXCEEDS	--	117
50 PERCENT EXCEEDS	--	13
90 PERCENT EXCEEDS	--	6.4

* During period of operation.

For period of record through 1996.

a From rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks, site and datum then in use. Maximum stage since at least 1938, from information by local resident.



06628900 PASS CREEK NEAR ELK MOUNTAIN, WY

PLATTE RIVER BASIN

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 probably is 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. 3-5, 7, 11, Dec. 5, 14-19, Jan. 4 to Feb. 25, and Mar. 9-15. Records good except those for Dec. 5 to Mar. 15,, which are poor. Diversions for irrigation of about 215,000 acres upstream from station. Transbasin diversions upstream from station. Bureau of Reclamation data collection platform with satellite telemetry at station.

COOPERATION.--Eight discharge measurements provided by the Bureau of Reclamation and eight discharge measurements provided by Office of the Wyoming State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	745	622	523	380	851	873	1800	4980	2800	832	305
2	563	860	722	526	425	860	973	1640	4630	2460	752	287
3	541	755	739	523	475	911	1370	1620	4500	2240	665	267
4	559	725	677	510	540	866	2030	1790	4640	2100	645	253
5	655	630	640	450	580	802	2170	1990	5020	2100	834	241
6	654	676	579	480	640	761	2610	2290	5740	2190	782	243
7	606	705	678	520	680	719	2990	2770	6230	2150	678	253
8	619	669	689	570	640	744	2960	3130	6160	2050	602	259
9	613	702	572	610	600	760	2940	3370	6180	1900	546	255
10	596	713	583	570	540	770	3240	3800	6320	1830	498	261
11	585	650	606	510	480	790	3830	3940	6640	1780	490	261
12	572	671	702	460	570	850	4590	4190	6660	1550	476	259
13	560	643	700	460	700	900	4240	4630	6260	1310	466	257
14	562	763	640	500	590	810	3340	5140	6120	1170	449	261
15	548	877	580	540	540	700	2700	5780	5870	1090	435	281
16	552	994	510	480	600	727	2250	6340	5450	1020	422	284
17	547	968	420	400	700	766	2180	6950	5240	1050	421	280
18	532	901	370	450	780	724	2240	8080	5100	1080	410	276
19	514	819	400	475	820	670	2240	8430	4970	979	391	267
20	495	796	424	510	830	635	2040	8640	4610	993	412	275
21	478	752	429	470	800	647	1800	7660	4430	959	407	275
22	509	697	406	450	750	692	1660	6520	5450	858	385	285
23	569	698	392	400	680	756	1540	5810	5870	762	388	291
24	551	682	476	460	700	864	1440	5370	5730	723	390	295
25	481	658	545	500	750	762	1520	5190	5330	719	367	316
26	543	648	468	480	806	649	2220	6000	4390	671	353	318
27	642	651	436	500	783	701	2700	6920	3530	658	336	369
28	679	631	464	540	762	730	2700	7010	3350	646	319	432
29	649	575	457	540	817	748	2360	6340	3290	627	310	484
30	649	522	489	510	---	769	2090	5780	3140	673	305	475
31	661	---	516	450	---	809	---	5360	---	825	307	---
TOTAL	17844	21776	16931	15367	18958	23743	71836	154280	155830	41963	15073	8865
MEAN	576	726	546	496	654	766	2395	4977	5194	1354	486	295
MAX	679	994	739	610	830	911	4590	8640	6660	2800	834	484
MIN	478	522	370	400	380	635	873	1620	3140	627	305	241
AC-FT	35390	43190	33580	30480	37600	47090	142500	306000	309100	83230	29900	17580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

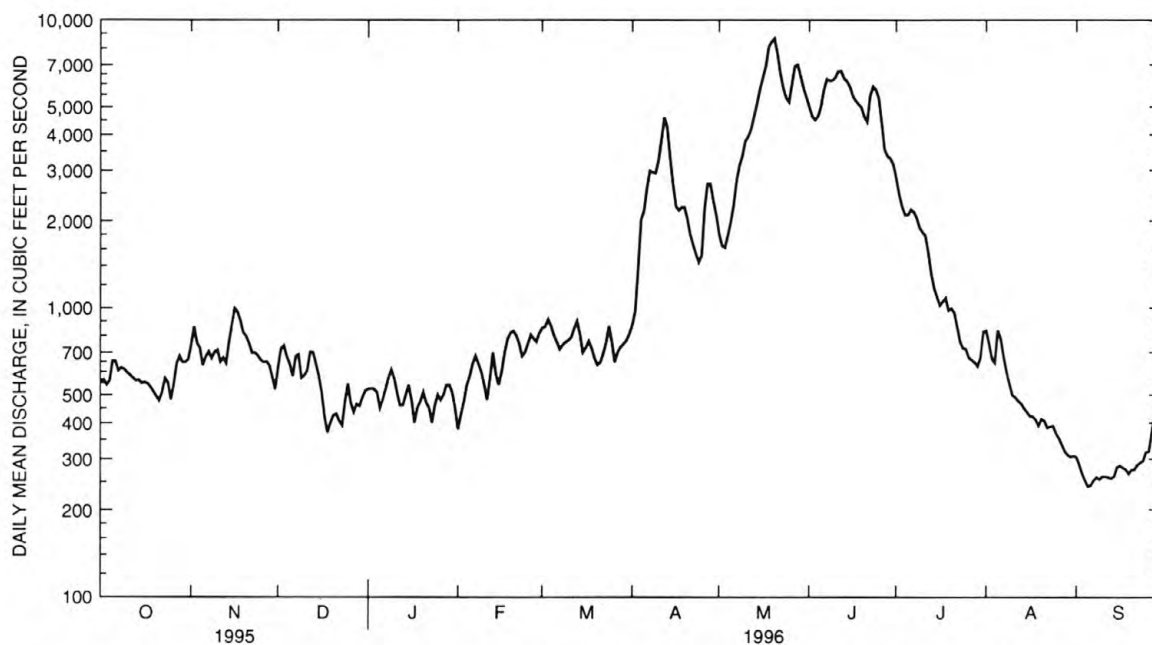
	404	419	344	310	341	528	1428	3147	4403	1434	496	299
MEAN	404	419	344	310	341	528	1428	3147	4403	1434	496	299
MAX	1036	745	546	496	654	1190	4390	8568	9999	5256	1484	821
(WY)	1966	1966	1996	1996	1996	1986	1962	1984	1983	1983	1983	1965
MIN	157	240	226	181	193	205	492	1149	830	204	135	93.3
(WY)	1957	1953	1953	1963	1964	1964	1995	1990	1954	1939	1940	1944

PLATTE RIVER BASIN

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06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	579776		562466		--	
ANNUAL MEAN	1588		1537		1132	
HIGHEST ANNUAL MEAN	--		--		2169	1984
LOWEST ANNUAL MEAN	--		--		467	1954
HIGHEST DAILY MEAN	11200	Jun 19	8640	May 20	14800	Jun 11 1986
LOWEST DAILY MEAN	212	Jan 3	241	Sep 5	70	Sep 17 1944
ANNUAL SEVEN-DAY MINIMUM	261	Jan 1	252	Sep 4	77	Sep 12 1944
INSTANTANEOUS PEAK FLOW	--		8880	May 20	16200	Jun 11 1986
INSTANTANEOUS PEAK STAGE	--		8.32	May 20	11.30	Jun 11 1986
ANNUAL RUNOFF (AC-FT)	1150000		1116000		820300	
10 PERCENT EXCEEDS	5540		4990		3180	
50 PERCENT EXCEEDS	574		685		434	
90 PERCENT EXCEEDS	345		383		228	



06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY

06630000 NORTH PLATTE RIVER ABOVE SEMINOLE RESERVOIR, NEAR SINCLAIR, WY--Continued

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 1995 TO SEPTEMBER 1996

		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)	
DATE	TIME								
OCT 31...	1705	694	431	8.1	5.0	2.5	598	9.6	
DEC 04...	1050	610	430	7.9	1.0	9.0	598	10.7	
JAN 23...	1100	418	412	7.9	0.0	-5.0	600	10.8	
MAR 15...	1230	630	409	7.9	3.5	11.5	604	10.6	
MAY 08...	1150	3070	200	7.7	11.0	15.0	604	8.6	
JUL 02...	1215	2410	298	7.9	19.5	29.5	634	7.5	
23...	1030	775	285	9.0	20.5	22.0	608	7.6	
AUG 14...	0945	450	340	8.2	19.0	27.0	612	6.8	
28...	1015	332	363	8.3	18.5	18.5	608	7.4	
SEP 09...	1230	245	406	8.3	16.0	23.0	610	8.1	
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)
OCT 31...	96	--	<0.01	<0.05	<0.02	<0.01		170	310
DEC 04...	96	--	<0.01	<0.05	<0.02	<0.01		292	296
JAN 23...	94	--	<0.01	<0.05	<0.02	<0.01		260	280
MAR 15...	101	--	0.01	<0.05	0.02	0.01		262	302
MAY 08...	99	--	<0.01	0.06	<0.02	0.01		110	128
JUL 02...	99	--	<0.01	<0.05	0.02	0.02		192	174
23...	107	K17	<0.01	0.09	0.04	0.01		164	186
AUG 14...	92	--	0.01	<0.05	0.02	0.01		106	232
28...	100	--	<0.01	0.06	<0.02	<0.01		114	224
SEP 09...	103	--	<0.01	<0.05	<0.02	<0.01		244	204

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

255

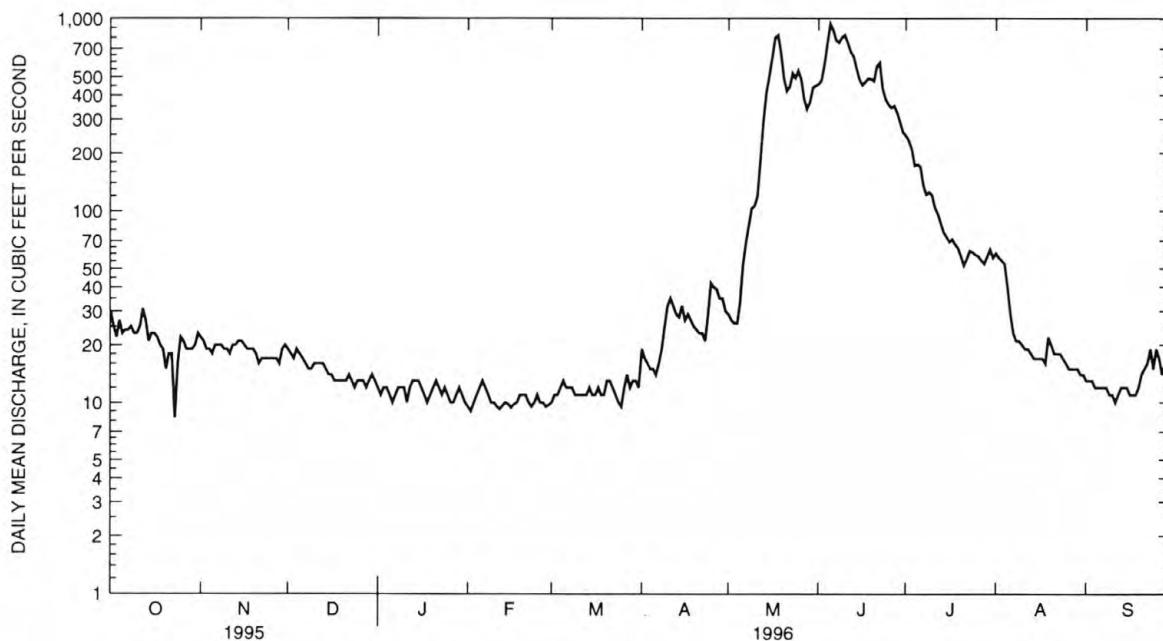
MEAN	16.7	13.5	11.7	10.7	10.5	10.4	22.8	223	512	135	31.5	21.7
MAX	40.0	22.8	18.8	15.3	17.0	15.6	45.8	409	1024	420	66.9	40.1
(WY)	1983	1973	1973	1966	1974	1979	1989	1974	1971	1982	1982	1971
MIN	9.57	8.85	6.81	7.74	7.02	7.08	10.9	59.3	158	30.9	14.2	10.3
(WY)	1990	1977	1968	1969	1969	1969	1995	1968	1987	1977	1994	1994

06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	37995.0		34688.3		--	
ANNUAL MEAN	104		94.8		84.8 ^a	
HIGHEST ANNUAL MEAN	--		--		142	1971
LOWEST ANNUAL MEAN	--		--		48.9	1977
HIGHEST DAILY MEAN	1280	Jun 16	939	Jun 5	1690	Jun 19 1971
LOWEST DAILY MEAN	6.6	Jan 24	8.3	Oct 23	4.8	Nov 2 1991
ANNUAL SEVEN-DAY MINIMUM	7.1	Jan 21	9.6	Feb 11	6.0	Oct 29 1991
INSTANTANEOUS PEAK FLOW	--		1370		2590 ^b	Jun 19 1971
INSTANTANEOUS PEAK STAGE	--		4.73		5.92	Jun 24 1983
ANNUAL RUNOFF (AC-FT)	75360		68800		61470	
10 PERCENT EXCEEDS	382		423		275	
50 PERCENT EXCEEDS	19		18		15	
90 PERCENT EXCEEDS	7.7		11		8.9	

a Annual mean, water years 1955-1996, 81.6 ft³/s, includes records for station 06632500 Rock Creek at Arlington for water years 1955-1965, adjusted for diversion by King Canyon Canal.

b Gage height, 5.83 ft.



06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY

PLATTE RIVER BASIN

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06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY

LOCATION.--Lat 41°57'40", long 106°12'31", in NW¹/₄ SW¹/₄ SW¹/₄ 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: Nov. 21, Dec. 3, and Feb. 23-25. Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--No peak discharges greater than base discharge of 400 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	28	1.9	.55	33	78	144	130	7.2	3.1	.75
2	12	6.8	24	2.5	.49	32	69	138	118	6.2	2.8	.80
3	11	6.7	18	2.5	.47	33	71	125	101	5.2	3.4	.80
4	12	8.0	13	2.0	.36	37	85	118	88	4.6	3.7	.83
5	14	9.2	8.1	1.9	.50	36	87	110	76	4.8	3.5	.80
6	13	12	5.9	2.1	.61	36	71	106	65	5.7	2.5	.80
7	12	12	6.1	2.8	1.1	32	62	107	57	5.0	2.2	.87
8	12	17	6.8	2.2	2.0	32	59	123	50	4.6	1.8	.93
9	12	24	9.5	2.2	3.2	26	71	160	46	4.1	1.5	.76
10	13	21	12	2.1	3.2	33	90	190	41	5.0	1.4	.67
11	12	12	13	1.9	4.7	38	114	206	37	5.2	1.4	.55
12	12	16	14	1.8	5.0	44	120	190	33	4.9	1.4	2.7
13	12	22	14	1.9	7.1	92	115	197	39	4.3	1.3	2.4
14	12	35	16	2.0	7.5	117	101	219	44	4.2	1.4	1.2
15	11	33	20	2.2	7.2	135	90	249	35	4.0	1.1	1.1
16	11	27	21	2.4	7.6	153	75	273	28	3.9	1.0	.98
17	11	26	17	1.9	9.3	142	79	271	26	3.9	2.2	.93
18	11	25	15	2.1	12	132	94	268	26	3.6	2.3	1.0
19	10	24	12	2.3	14	83	103	252	24	3.4	1.9	1.1
20	9.3	22	11	2.0	20	61	107	219	20	3.5	1.7	1.1
21	9.6	20	9.5	1.9	26	70	96	203	18	3.0	1.3	1.1
22	8.9	18	7.5	1.9	26	78	99	166	18	2.6	1.0	1.1
23	7.4	23	6.8	2.1	13	85	99	141	16	2.2	.84	1.1
24	8.5	22	5.8	2.1	15	67	92	137	13	2.2	.80	1.1
25	9.5	21	4.6	1.5	25	73	110	158	11	1.9	.80	1.1
26	9.6	20	3.5	1.3	16	84	178	138	9.7	1.7	.75	1.1
27	15	17	2.5	.99	32	66	187	139	8.8	1.6	.81	1.1
28	13	11	1.9	1.0	39	58	174	159	9.2	1.6	.75	1.3
29	16	12	1.7	.89	35	78	166	173	8.5	1.7	.69	1.8
30	17	22	1.9	.80	---	71	148	156	8.1	2.2	.70	2.3
31	17	---	1.9	.68	---	67	---	153	---	2.7	.69	---
TOTAL	365.8	561.7	332.0	57.86	333.88	2124	3090	5388	1204.3	116.7	50.73	34.17
MEAN	11.8	18.7	10.7	1.87	11.5	68.5	103	174	40.1	3.76	1.64	1.14
MAX	17	35	28	2.8	39	153	187	273	130	7.2	3.7	2.7
MIN	7.4	6.7	1.7	.68	.36	26	59	106	8.1	1.6	.69	.55
AC-FT	726	1110	659	115	662	4210	6130	10690	2390	231	101	68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1996, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	9.34	9.25	4.39	1.94	14.3	51.8	113	152	84.2	18.0	7.34	7.44
MAX	18.0	18.7	11.5	4.92	110	114	246	388	419	46.0	22.1	19.5
(WY)	1985	1996	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	3.76	1.40	.89
(WY)	1993	1995	1995	1992	1990	1993	1992	1992	1994	1996	1994	1994

06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY--Continued

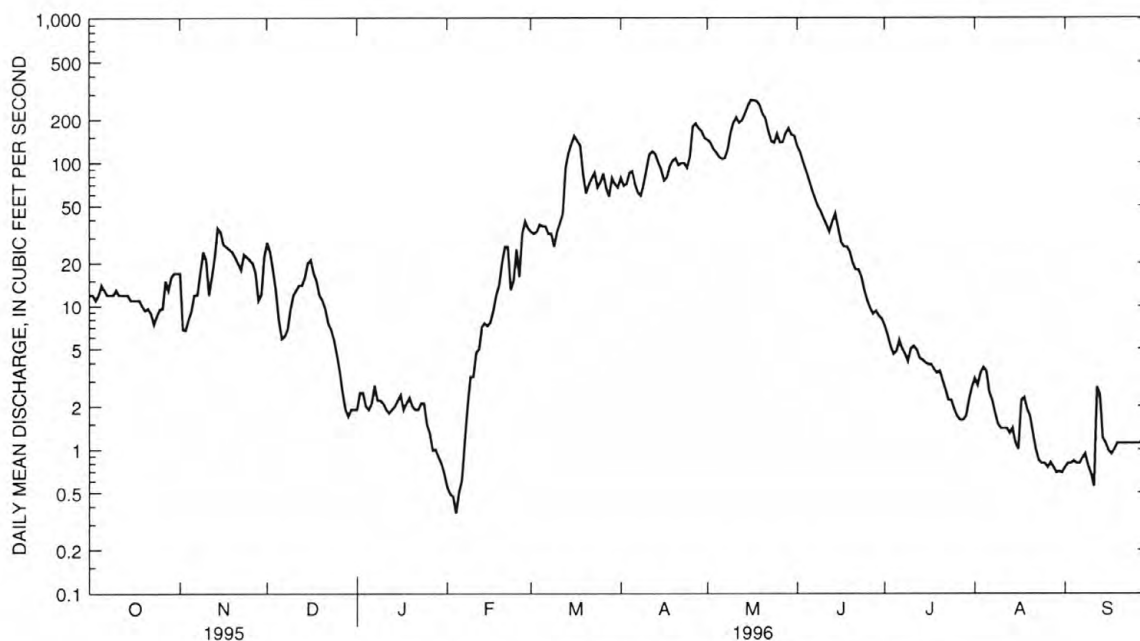
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1985 - 1996	
ANNUAL TOTAL	31873.58		13659.14		--	
ANNUAL MEAN	87.3		37.3		39.5 ^a	
HIGHEST ANNUAL MEAN	--		--		84.8	
LOWEST ANNUAL MEAN	--		--		12.7	
HIGHEST DAILY MEAN	1020	Jun 4	273	May 16	1020	Jun 4 1995
LOWEST DAILY MEAN	.59	Jan 5	.36	Feb 4	.36 ^b	Feb 4 1996
ANNUAL SEVEN-DAY MINIMUM	.81	Jan 1	.52	Jan 31	.52	Jan 31 1996
INSTANTANEOUS PEAK FLOW	--		292		9500 ^c	
INSTANTANEOUS PEAK STAGE	--		3.44		14.10 ^d	
ANNUAL RUNOFF (AC-FT)	63220		27090		28620	
10 PERCENT EXCEEDS	353		124		118	
50 PERCENT EXCEEDS	18		12		8.2	
90 PERCENT EXCEEDS	2.6		1.1		1.4	

a Average discharge, water years 1974-96, 51.8 ft³/s, unadjusted for flow from Boles Spring.

b No flow at times, water years 1974-84, site and datum then in use.

c From slope-area measurement of peak flow.

d From floodmark in gage well, site and datum then in use.



06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY

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LOCATION.--Lat 42°00'35", long 106°30'45", in SE 1/4 NW 1/4 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.

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. 10-12, Dec. 17 to Jan. 3, Jan. 7, Jan. 9 to Feb. 7, Feb. 18-22, and Feb. 28 to Mar. 4. 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. Bureau of Reclamation data collection platform with satellite telemetry at station.

COOPERATION.--Eleven discharge measurements provided by the Bureau of Reclamation and eleven discharge measurements provided by Office of the Wyoming State Engineer.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	102	103	45	40	74	180	271	782	336	29	.96
2	60	61	105	40	35	80	180	267	687	298	27	.82
3	59	47	88	48	40	90	168	252	611	252	29	.72
4	78	63	91	52	47	100	189	246	539	221	28	.72
5	80	72	102	41	52	97	208	226	541	195	25	.71
6	85	92	60	44	58	93	198	208	620	179	23	1.1
7	95	77	66	60	62	97	179	198	723	171	21	1.2
8	98	104	38	55	65	90	169	209	878	168	20	1.2
9	95	141	54	56	73	108	171	264	990	159	19	1.1
10	91	80	82	60	78	110	186	322	1020	141	18	1.2
11	91	60	97	59	89	145	233	406	985	131	18	2.2
12	86	90	100	63	97	154	272	433	975	122	17	2.4
13	79	137	119	72	95	145	313	434	970	117	14	3.2
14	73	130	64	66	87	209	310	568	966	103	12	9.6
15	72	143	40	80	93	216	311	693	976	91	11	11
16	71	154	43	70	104	225	285	873	958	85	9.6	10
17	38	150	45	50	101	228	275	1040	907	92	6.7	8.7
18	63	135	43	40	94	226	288	1080	817	83	8.5	9.1
19	65	127	40	45	96	198	309	1320	734	71	10	8.8
20	63	118	38	53	100	160	295	1450	695	62	7.7	11
21	63	107	40	61	110	145	284	1450	608	55	6.1	12
22	67	106	43	54	120	148	255	1330	568	64	5.2	12
23	49	99	40	44	69	157	257	1200	669	60	4.3	11
24	59	98	44	52	89	114	249	1020	791	54	3.5	11
25	74	99	49	48	112	82	248	903	676	51	2.1	11
26	76	96	55	45	81	94	313	933	584	45	1.5	12
27	72	100	52	50	65	160	384	1040	485	41	1.2	13
28	83	46	48	51	54	188	356	1200	403	38	1.1	13
29	89	65	50	52	60	165	333	1220	372	37	1.1	13
30	95	118	52	49	---	167	296	1120	355	33	1.3	13
31	104	---	50	45	---	180	---	961	---	32	1.2	---
TOTAL	2334	3017	1941	1650	2266	4445	7694	23137	21885	3587	382.1	206.73
MEAN	75.3	101	62.6	53.2	78.1	143	256	746	729	116	12.3	6.89
MAX	104	154	119	80	120	228	384	1450	1020	336	29	13
MIN	38	46	38	40	35	74	168	198	355	32	1.1	.71
AC-FT	4630	5980	3850	3270	4490	8820	15260	45890	43410	7110	758	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

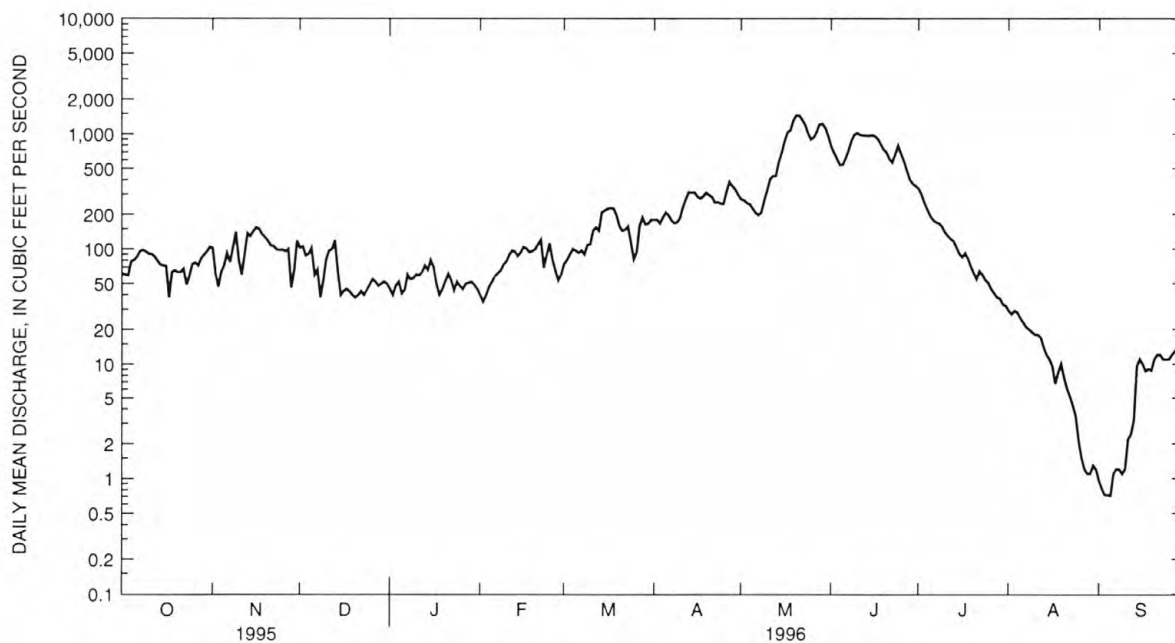
MEAN	42.9	50.4	38.3	31.1	48.3	137	332	573	675	184	55.4	29.5
MAX	132	114	72.9	57.5	397	516	950	3059	2076	1030	246	235
(WY)	1963	1974	1974	1994	1962	1943	1983	1973	1983	1983	1983	1973
MIN	9.65	16.3	8.70	7.76	10.0	20.4	66.4	81.5	58.6	5.71	4.24	3.78
(WY)	1957	1940	1979	1979	1949	1944	1995	1954	1954	1939	1994	1956

06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	111465		72544.83		--	
ANNUAL MEAN	305		198		183	
HIGHEST ANNUAL MEAN	--		--		531	1973
LOWEST ANNUAL MEAN	--		--		43.7	1954
HIGHEST DAILY MEAN	2260	Jun 21	1450	May 20, 21	5330	May 11 1973
LOWEST DAILY MEAN	20	Sep 3	.71	Sep 5	.71	Sep 5 1996
ANNUAL SEVEN-DAY MINIMUM	20	Sep 2	.89	Aug 31	.89	Aug 31 1996
INSTANTANEOUS PEAK FLOW	--		1550	May 21	6010 ^a	May 12 1973
INSTANTANEOUS PEAK STAGE	--		4.55	May 21	8.20 ^b	Feb 26 1986
ANNUAL RUNOFF (AC-FT)	221100		143900		132900	
10 PERCENT EXCEEDS	1130		635		539	
50 PERCENT EXCEEDS	80		89		52	
90 PERCENT EXCEEDS	31		11		15	

a Gage height, 6.74 ft.

b From floodmarks, backwater from ice.



06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY

PLATTE RIVER BASIN

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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 probably is non-contributing.

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, 909,000 acre-ft, July 20-22, maximum daily elevation, 6,351.45 ft, July 22; minimum daily contents, 617,000 acre-ft, May 7, 8, minimum daily elevation, 6,333.18 ft, May 8.

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

6,330	575,000	5,350	883,000
6,340	716,000	5,360	1,080,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	835000	823000	823000	804000	783000	731000	656000	627000	783000	888000	907000	863000
2	835000	823000	823000	804000	782000	729000	654000	626000	785000	889000	907000	860000
3	834000	823000	823000	803000	782000	726000	651000	623000	785000	891000	907000	858000
4	834000	823000	822000	802000	782000	724000	648000	620000	786000	893000	906000	855000
5	834000	822000	821000	802000	782000	721000	648000	619000	788000	893000	905000	853000
6	834000	822000	821000	802000	781000	720000	648000	618000	791000	896000	905000	852000
7	834000	822000	821000	802000	780000	717000	648000	617000	795000	898000	904000	861000
8	834000	822000	820000	800000	778000	716000	649000	617000	800000	900000	904000	849000
9	833000	821000	819000	799000	778000	713000	647000	619000	805000	901000	903000	846000
10	833000	821000	819000	798000	775000	712000	647000	622000	810000	903000	901000	845000
11	833000	821000	819000	796000	773000	710000	648000	624000	817000	904000	900000	843000
12	832000	821000	819000	796000	771000	709000	651000	627000	822000	905000	899000	842000
13	831000	820000	818000	796000	769000	707000	653000	631000	826000	906000	897000	840000
14	830000	821000	818000	795000	766000	706000	653000	636000	828000	907000	896000	839000
15	830000	822000	817000	794000	764000	705000	652000	642000	834000	907000	895000	837000
16	829000	822000	816000	794000	761000	703000	650000	651000	838000	907000	894000	836000
17	829000	823000	816000	794000	760000	701000	646000	660000	841000	908000	892000	835000
18	827000	823000	816000	794000	757000	699000	643000	672000	845000	908000	890000	833000
19	827000	823000	815000	793000	755000	698000	642000	684000	849000	908000	888000	831000
20	826000	823000	814000	793000	753000	696000	639000	697000	852000	909000	887000	829000
21	825000	824000	812000	792000	751000	694000	636000	709000	854000	909000	885000	828000
22	825000	824000	812000	792000	749000	690000	633000	719000	859000	909000	882000	826000
23	825000	824000	811000	791000	747000	686000	631000	726000	865000	908000	880000	825000
24	825000	824000	810000	791000	744000	683000	628000	733000	870000	908000	879000	823000
25	825000	824000	809000	789000	742000	680000	627000	740000	875000	908000	877000	821000
26	824000	823000	809000	787000	740000	676000	626000	746000	879000	908000	874000	819000
27	823000	824000	808000	787000	738000	673000	625000	755000	880000	907000	872000	819000
28	823000	824000	807000	786000	735000	670000	628000	766000	882000	906000	871000	818000
29	823000	823000	806000	785000	733000	667000	628000	773000	884000	908000	869000	817000
30	822000	823000	806000	785000	---	664000	628000	778000	886000	907000	867000	817000
31	823000	---	805000	784000	---	660000	---	781000	---	907000	865000	---
MAX	835000	824000	823000	804000	783000	731000	656000	781000	886000	909000	907000	863000
MIN	822000	820000	805000	784000	733000	660000	625000	617000	783000	888000	865000	817000
(#)	6,346.59	6,346.60	6,345.58	6,344.32	6,341.13	6,336.25	6,333.97	6,344.14	6,350.16	6,351.31	6,349.01	6,346.24
(*)	-13,000	0	-18,000	-21,000	-51,000	-73,000	-32,000	+153,000	+105,000	+21,000	-42,000	-48,000

CAL YR 1995 MAX 989000 MIN 294000 (*) +495000
WTR YR 1996 MAX 909000 MIN 617000 (*) -19000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

06639000 SWEETWATER RIVER NEAR ALCOVA, WY

LOCATION.--Lat 42°29'24", long 107°08'00", in SE¹/₄ NE¹/₄ NE¹/₄ sec.16, T.29 N., R.86 W., Natrona County, Hydrologic Unit 10180006, 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 Alcora.

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. Bureau of Reclamation data collection platform with satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	136	222	343	139	58	27
2	---	---	---	---	---	---	133	207	337	136	53	26
3	---	---	---	---	---	---	132	194	342	136	49	26
4	---	---	---	---	---	---	142	184	314	132	48	26
5	---	---	---	---	---	---	190	192	289	123	44	25
6	---	---	---	---	---	---	226	197	268	116	42	25
7	---	---	---	---	---	---	233	197	268	118	41	25
8	---	---	---	---	---	---	215	190	279	121	34	25
9	---	---	---	---	---	---	211	194	308	116	23	25
10	---	---	---	---	---	---	226	194	337	111	21	25
11	---	---	---	---	---	---	260	197	343	113	20	25
12	---	---	---	---	---	---	340	200	346	111	19	26
13	---	---	---	---	---	---	445	200	369	109	18	26
14	---	---	---	---	---	---	558	200	381	102	16	26
15	---	---	---	---	---	---	451	197	372	98	16	26
16	---	---	---	---	---	---	356	206	356	93	15	26
17	---	---	---	---	---	---	301	233	343	89	15	26
18	---	---	---	---	---	---	264	272	337	85	14	28
19	---	---	---	---	---	---	248	310	321	83	14	29
20	---	---	---	---	---	---	248	333	305	78	18	29
21	---	---	---	---	---	---	248	372	285	76	29	28
22	---	---	---	---	---	---	237	404	268	72	29	28
23	---	---	---	---	---	---	216	393	244	71	29	28
24	---	---	---	---	---	---	204	362	241	69	28	28
25	---	---	---	---	---	---	189	375	241	67	27	30
26	---	---	---	---	---	---	184	442	239	65	26	31
27	---	---	---	---	---	---	179	448	218	62	26	33
28	---	---	---	---	---	---	204	409	190	61	26	35
29	---	---	---	---	---	---	237	388	166	58	25	41
30	---	---	---	---	---	---	235	381	153	59	26	42
31	---	---	---	---	---	---	---	369	---	59	26	---
TOTAL	---	---	---	---	---	---	7448	8662	8803	2928	875	846
MEAN	---	---	---	---	---	---	248	279	293	94.5	28.2	28.2
MAX	---	---	---	---	---	---	558	448	381	139	58	42
MIN	---	---	---	---	---	---	132	184	153	58	14	25
AC-FT	---	---	---	---	---	---	14770	17180	17460	5810	1740	1680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1983, BY WATER YEAR (WY)

	MEAN	45.8	50.2	38.7	31.6	36.9	78.6	257	432	407	111	40.4	28.1
MAX	86.6	83.3	59.4	54.5	69.1	210	1869	1296	1129	362	96.8	114	
(WY)	1916	1972	1972	1953	1968	1916	1924	1980	1983	1917	1983	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	

06639000 SWEETWATER RIVER NEAR ALCOVA, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

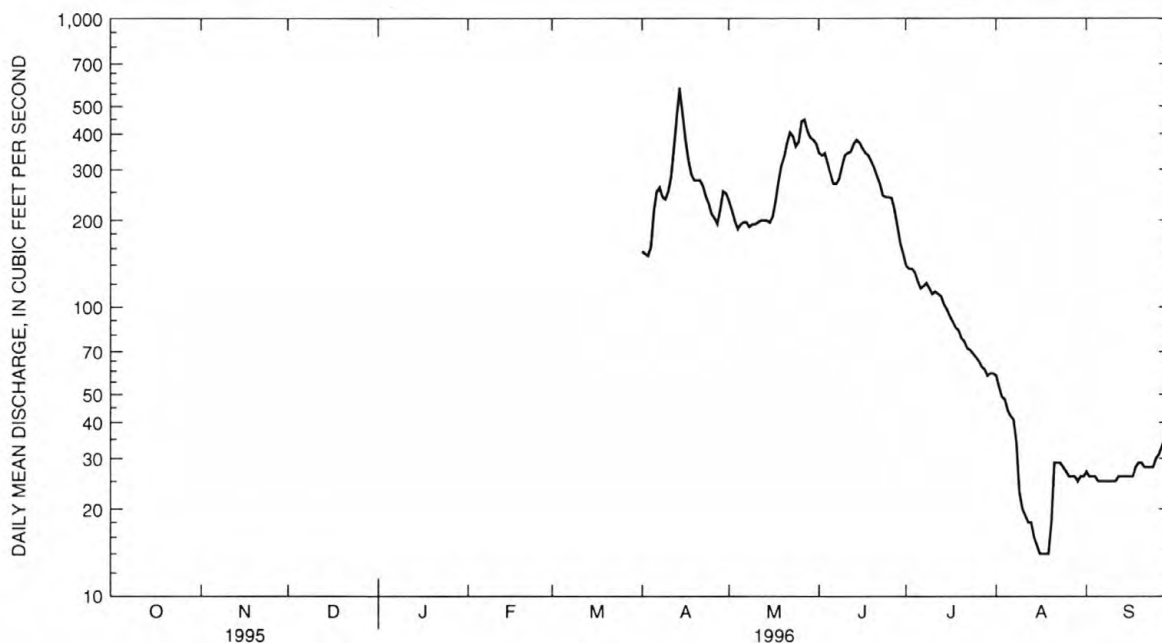
WATER YEARS 1914 - 1983

ANNUAL MEAN	--	126	
HIGHEST ANNUAL MEAN	--	312	1924
LOWEST ANNUAL MEAN	--	25.8	1940
HIGHEST DAILY MEAN	558 Apr 14	4290	Apr 13 1924
LOWEST DAILY MEAN	14 Aug 16-19	.50	Jul 30 to Aug 12 1940#
ANNUAL SEVEN-DAY MINIMUM	--	.50	Jul 30 1940
INSTANTANEOUS PEAK FLOW	590 Apr 14	4290 ^a	Apr 13 1924#
INSTANTANEOUS PEAK STAGE	3.80 Apr 14	9.90	Apr 27 1983#
ANNUAL RUNOFF (AC-FT)	--	91260	
10 PERCENT EXCEEDS	--	376	
50 PERCENT EXCEEDS	--	50	
90 PERCENT EXCEEDS	--	18	

* During period of operation.

For period of record through 1996.

a Maximum observed.



06639000 SWEETWATER RIVER NEAR ALCOVA, WY

PLATTE RIVER BASIN

06640500 PATHFINDER RESERVOIR NEAR ALCOVA, WY

LOCATION.--Lat 42°28'06", long 106°51'12", in NW¹/₄ SW¹/₄ 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 probably is non-contributing.

PERIOD OF RECORD.--January 1909 to current year. Month end 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, 983,000 acre-ft, June 15, 16, 27, elevation, 5,848.54; minimum daily contents, 639,000 acre-ft, Oct. 1, elevation, 5,830.06 ft.

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

5,825	466,000	5,835	720,000	5,845	908,000
5,830	638,000	5,840	810,000	5,850	1,010,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639000	679000	687000	705000	725000	786000	853000	929000	955000	980000	867000	780000
2	641000	679000	688000	706000	726000	789000	856000	929000	957000	979000	862000	780000
3	642000	680000	689000	706000	727000	792000	859000	929000	959000	977000	857000	779000
4	645000	681000	689000	707000	727000	794000	862000	928000	962000	974000	852000	779000
5	646000	681000	689000	707000	727000	797000	865000	928000	963000	971000	847000	778000
6	648000	681000	689000	708000	728000	799000	867000	928000	965000	968000	843000	777000
7	649000	682000	689000	708000	729000	802000	869000	928000	967000	963000	840000	776000
8	651000	683000	690000	709000	731000	804000	870000	927000	969000	960000	836000	775000
9	652000	684000	691000	710000	732000	806000	874000	927000	972000	957000	831000	775000
10	653000	684000	692000	711000	734000	810000	877000	927000	974000	957000	828000	776000
11	654000	685000	693000	711000	736000	812000	881000	927000	976000	951000	825000	774000
12	656000	685000	693000	712000	739000	814000	885000	928000	978000	946000	821000	774000
13	657000	686000	694000	712000	742000	816000	890000	927000	981000	941000	817000	773000
14	658000	686000	695000	713000	744000	817000	894000	926000	982000	938000	815000	772000
15	660000	687000	695000	714000	746000	817000	898000	926000	983000	934000	812000	772000
16	661000	686000	695000	714000	750000	817000	902000	926000	983000	931000	809000	771000
17	663000	686000	696000	715000	743000	820000	904000	928000	982000	926000	807000	771000
18	664000	685000	697000	715000	755000	820000	908000	929000	981000	922000	803000	772000
19	665000	684000	697000	716000	757000	821000	912000	930000	982000	921000	801000	771000
20	667000	683000	698000	717000	761000	821000	917000	931000	982000	916000	798000	772000
21	668000	683000	699000	717000	764000	821000	922000	932000	982000	911000	795000	772000
22	671000	682000	700000	718000	766000	826000	926000	934000	982000	906000	793000	772000
23	673000	683000	700000	719000	769000	830000	929000	935000	981000	901000	792000	771000
24	674000	682000	701000	720000	770000	832000	930000	937000	982000	897000	790000	771000
25	675000	684000	702000	721000	773000	834000	930000	940000	982000	895000	788000	771000
26	676000	684000	702000	721000	776000	838000	929000	941000	982000	891000	786000	771000
27	677000	685000	703000	723000	778000	840000	929000	943000	983000	887000	785000	772000
28	677000	685000	704000	724000	780000	841000	929000	946000	982000	882000	784000	772000
29	677000	686000	705000	724000	783000	843000	929000	947000	981000	878000	782000	771000
30	678000	685000	704000	724000	---	848000	929000	951000	980000	874000	782000	772000
31	678000	---	705000	724000	---	850000	---	953000	---	870000	781000	---
MAX	678000	687000	705000	724000	783000	850000	930000	953000	983000	980000	867000	780000
MIN	639000	679000	687000	705000	725000	786000	853000	926000	955000	870000	781000	771000
(#)	5,832.49	5,832.91	5,834.09	5,835.22	5,838.56	5,842.07	5,845.99	5,847.14	5,848.43	5,843.08	5,838.43	5,837.92
(*)	+38,000	+7,000	+20,000	+19,000	+59,000	+33,000	+79,000	+24,000	+27,000	-10,000	-89,000	-9,000
CAL YR 1995	MAX	705000	MIN	245000	(*)	+46000						
WTR YR 1996	MAX	983000	MIN	639000	(*)	+132000						

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN

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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 probably is non-contributing.

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 15, elevation, 5,498.91 ft; minimum daily contents, 144,000 acre-ft, Oct. 27, 28, Nov. 9, minimum elevation, 5,482.55 ft, Nov. 9.

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 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179000	145000	156000	156000	156000	156000	157000	181000	180000	180000	180000	181000
2	178000	146000	156000	156000	156000	156000	156000	181000	180000	179000	181000	181000
3	177000	145000	155000	156000	156000	156000	157000	181000	181000	179000	181000	181000
4	176000	145000	155000	156000	156000	156000	157000	181000	180000	180000	181000	180000
5	175000	145000	156000	156000	156000	156000	159000	181000	180000	180000	181000	181000
6	173000	145000	156000	156000	156000	156000	160000	181000	180000	180000	181000	181000
7	173000	145000	156000	156000	156000	156000	162000	181000	180000	180000	181000	181000
8	173000	145000	156000	156000	156000	156000	164000	181000	180000	181000	181000	181000
9	172000	144000	156000	156000	155000	156000	165000	181000	181000	180000	181000	181000
10	171000	145000	156000	156000	155000	156000	167000	181000	181000	180000	181000	181000
11	170000	145000	156000	156000	156000	156000	169000	181000	181000	181000	180000	181000
12	169000	145000	156000	156000	155000	156000	171000	181000	181000	181000	181000	181000
13	168000	145000	156000	156000	156000	155000	172000	181000	180000	181000	181000	181000
14	166000	145000	156000	156000	156000	155000	174000	181000	181000	181000	181000	181000
15	165000	146000	156000	156000	156000	155000	176000	182000	181000	180000	181000	181000
16	161000	147000	157000	156000	156000	158000	177000	181000	181000	180000	181000	181000
17	158000	149000	156000	156000	155000	156000	180000	180000	181000	180000	181000	181000
18	155000	150000	156000	157000	156000	156000	180000	180000	181000	180000	181000	181000
19	152000	151000	156000	156000	156000	155000	180000	180000	181000	180000	181000	182000
20	151000	152000	156000	156000	155000	156000	180000	180000	181000	180000	181000	181000
21	151000	154000	155000	156000	156000	157000	179000	180000	181000	180000	181000	180000
22	149000	155000	155000	156000	156000	156000	179000	180000	180000	180000	181000	180000
23	148000	156000	156000	156000	156000	154000	179000	181000	180000	180000	181000	180000
24	147000	156000	156000	156000	156000	155000	179000	181000	180000	180000	181000	181000
25	146000	156000	155000	157000	156000	156000	179000	181000	180000	180000	181000	181000
26	145000	155000	156000	157000	156000	156000	179000	181000	180000	180000	181000	181000
27	144000	155000	155000	156000	157000	156000	179000	181000	180000	181000	181000	180000
28	144000	155000	155000	156000	156000	156000	179000	181000	181000	181000	181000	180000
29	145000	156000	155000	156000	156000	157000	180000	181000	181000	180000	181000	181000
30	145000	156000	155000	156000	---	156000	180000	180000	180000	180000	181000	181000
31	145000	---	155000	157000	---	157000	---	180000	---	180000	181000	---
MAX	179000	156000	157000	157000	157000	158000	180000	182000	181000	181000	181000	182000
MIN	144000	144000	155000	156000	155000	154000	156000	180000	180000	179000	180000	180000
(#)	5,482.93	5,488.07	5,487.59	5,488.33	5,488.16	5,488.31	5,498.37	5,498.01	5,498.40	5,498.28	5,498.60	5,498.47
(*)	-33,000	+11,000	-1,000	+2,000	-1,000	+1,000	+3,000	0	0	0	+1,000	0
CAL YR 1995	MAX	182000	MIN	144000	(*)	-1000						
WTR YR 1996	MAX	182000	MIN	144000	(*)	+3000						

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN

06642000 NORTH PLATTE RIVER AT ALCOVA, WY

LOCATION.--Lat 42°34'27", long 106°41'31", in NW¹/4 NE¹/4 NW¹/4 sec.17, T.30 N., R.82 W., Natrona County, Hydrologic Unit 10180007, on left bank 0.5 mi downstream from Hogback Draw, 0.8 mi downstream from Gray Reef Dam, 1.9 mi northeast of Alcova, and 3.8 mi downstream from Alcova Dam.

DRAINAGE AREA.--10,812 mi², of which 700 mi² probably is non-contributing.

PERIOD OF RECORD.--February 1904 to December 1905, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1937-38, 1945. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,299.40 ft above sea level. Feb. 19, 1904, to Dec. 31, 1905, non-recording gage at site 3.7 mi upstream at different datum. June 1, 1935, to Apr. 27, 1961, water-stage recorder at site 3.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good except those for October to January and July to September, which are fair. Flow completely regulated by Seminoe, Pathfinder, and Alcova Reservoirs. (See stations 06635500, 06640500, and 06641500.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Twenty-seven discharge measurements provided by the Bureau of Reclamation and four discharge measurements provided by the Office of the Wyoming State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	504	523	521	517	500	498	1300	2620	3460	2450	2450	1200
2	504	519	527	512	506	503	1300	2820	3490	2370	2540	1200
3	498	514	525	514	511	498	1310	3100	3490	2170	2730	1160
4	530	510	521	522	500	514	1310	3100	3490	2130	2810	1020
5	525	508	536	516	500	524	1300	3100	3480	2140	2700	1020
6	516	512	532	513	500	522	1310	3100	3480	2140	2760	1040
7	509	516	537	513	506	527	1320	3110	3480	2130	2750	1040
8	494	510	542	511	500	522	1310	3110	3480	2140	2700	1020
9	524	514	534	511	500	523	1320	3120	3510	2160	2650	1020
10	516	516	535	517	511	526	1310	3130	3510	2220	2590	1020
11	512	513	524	522	506	535	1310	3130	3520	2250	2570	1020
12	512	516	531	523	517	668	1320	3140	3760	2300	2290	1010
13	520	529	537	525	511	868	1340	3140	4390	2360	2150	1000
14	527	530	528	533	511	1730	1330	3130	4560	2390	2040	1000
15	444	528	530	524	517	1760	1310	3140	4540	2380	2020	1000
16	1500	530	531	523	500	1030	1310	2900	4490	2390	2010	898
17	1510	529	530	547	511	1110	1450	2600	4220	2390	2010	673
18	1520	526	528	535	511	1700	1810	2390	3760	2390	2000	672
19	1540	537	521	529	517	1600	1810	2390	3460	2390	2020	673
20	484	533	517	517	529	1940	1800	2390	3370	2380	2000	679
21	488	532	515	517	529	1290	1800	2400	3270	2390	2000	680
22	493	529	510	523	529	1290	1810	2400	3250	2390	1860	680
23	488	536	511	517	517	1300	2050	2410	3240	2400	1800	681
24	487	529	521	500	511	1300	2330	2420	3220	2370	1800	680
25	482	530	515	500	506	1300	2480	2420	3220	2330	1800	689
26	500	527	509	500	517	1290	2490	2430	3070	2310	1780	693
27	495	530	511	488	517	1300	2500	2450	2810	2310	1580	688
28	488	530	510	500	504	1310	2500	2450	2670	2330	1460	684
29	494	526	508	511	512	1310	2490	2780	2520	2370	1520	683
30	497	521	506	500	---	1300	2550	3350	2510	2400	1430	679
31	513	---	513	494	---	1300	---	3460	---	2430	1200	---
TOTAL	19614	15703	16216	15974	14806	32388	50880	87630	104720	71700	66020	26202
MEAN	633	523	523	515	511	1045	1696	2827	3491	2313	2130	873
MAX	1540	537	542	547	529	1940	2550	3460	4560	2450	2810	1200
MIN	444	508	506	488	500	498	1300	2390	2510	2130	1200	672
AC-FT	38900	31150	32160	31680	29370	64240	100900	173800	207700	142200	131000	51970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

	MEAN	636	558	490	473	468	546	859	1631	2324	2994	2877	1462
MAX	1543	1754	1163	955	1039	2571	3476	5894	8850	7746	5061	3387	
(WY)	1986	1987	1967	1973	1972	1984	1984	1904	1905	1983	1952	1952	
MIN	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.39	18.7	564	553	180	
(WY)	1943	1942	1939	1939	1942	1938	1939	1955	1955	1967	1967	1940	

PLATTE RIVER BASIN

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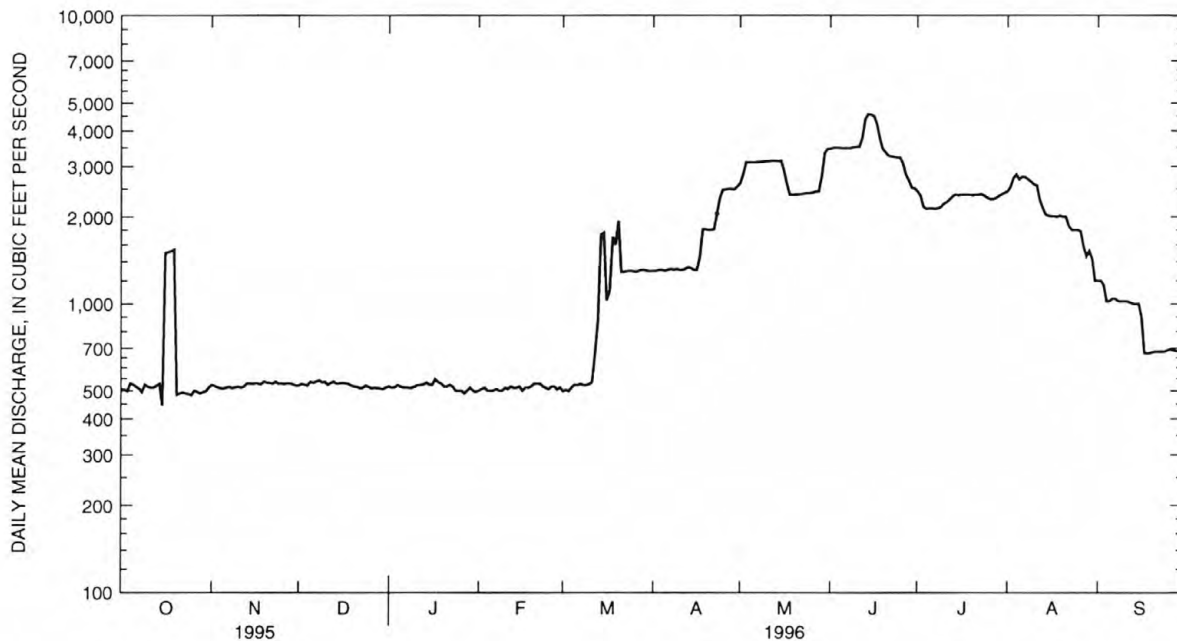
06642000 NORTH PLATTE RIVER AT ALCOVA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1996	
ANNUAL TOTAL	241518		521853		--	
ANNUAL MEAN	662		1426		1276	
HIGHEST ANNUAL MEAN	--		--		2575	
LOWEST ANNUAL MEAN	--		--		660	
HIGHEST DAILY MEAN	1710		4560		13400	
LOWEST DAILY MEAN	348		444		3.0	
ANNUAL SEVEN-DAY MINIMUM	424		489		3.0	
INSTANTANEOUS PEAK FLOW	--		4580 ^a		13400	
INSTANTANEOUS PEAK STAGE	--		6.02 ^b		11.50 ^c	
INSTANTANEOUS LOW FLOW	--		444		3.0	
ANNUAL RUNOFF (AC-FT)	479100		1035000		924700	
10 PERCENT EXCEEDS	1270		3100		3490	
50 PERCENT EXCEEDS	517		1020		882	
90 PERCENT EXCEEDS	432		506		5.0	

a Gage height, 5.11 ft.

b Backwater from aquatic growth.

c Site and datum then in use.



06642000 NORTH PLATTE RIVER AT ALCOVA, WY

PLATTE RIVER BASIN

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 probably is 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 Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
DEC 11...	1150	694	825	8.6	1.5	11.5	631	12.6	109	280
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)	BICAR-BONATE WATER DIS IT FIELD HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)
DEC 11...	69		27	70	2	3.7	174	2	146	150
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
DEC 11...	250		15	0.3	12	535	0.73	1000	6	6
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)	
APR 18...	1130	1820	610	8.0	8.0	9.0	629	8.3	85	
JUN 03...	1030	3910	510	8.2	12.5	19.5	640	7.7	86	
JUL 31...	1100	2480	542	8.0	17.5	21.0	639	7.2	90	
SEP 05...	1030	1150	618	8.5	17.0	24.5	630	7.8	98	
DATE		SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	BENZENE TOTAL (UG/L) (34030)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	TOLUENE TOTAL (UG/L) (34010)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	O-XYLENE WHOLE TOTAL (UG/L) (77135)	META/PARA-XYLENE WATER UNFLTRD (UG/L) (85795)	
APR 18...		2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
JUN 03...		2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
JUL 31...		2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
SEP 05...	--	--	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	

PLATTE RIVER BASIN

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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 September 1996 (discontinued).

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. 22-26, Nov. 2-4, 9, 11, 28, Dec. 5, 8-21, 23-30, Jan. 2, 3, 10, 17-19, 24, 25, 27, Feb. 8-12, 16, 18-20, Feb. 22 to Mar. 1, Mar. 6-8, 24-27, Apr. 13, 14, May 16 to June 3, June 21-30, and July 3 to Aug. 13. 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 9.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 11	1930	11	1.03
Apr. 2	2130	15	1.14
Apr. 8	2030	13	1.08
Apr. 24	2000	*47	*1.88

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	4.8	3.8	2.9	2.4	2.4	6.8	7.8	6.0	3.5	3.0	2.3
2	5.7	4.5	3.6	2.8	2.4	2.4	8.8	7.4	6.0	3.4	2.9	2.3
3	5.7	4.6	3.4	2.9	2.3	2.3	6.9	7.1	6.0	3.4	2.9	2.2
4	6.3	4.5	3.3	2.9	2.4	2.4	3.9	7.0	6.0	3.5	2.9	2.2
5	6.0	4.4	3.2	2.9	2.6	2.3	3.2	6.8	5.8	3.5	2.9	2.3
6	5.9	4.4	3.2	2.6	2.8	2.3	4.2	7.2	5.8	3.5	2.8	2.3
7	5.6	4.3	3.2	2.6	2.8	2.2	6.5	7.3	5.4	3.4	2.8	2.3
8	5.7	4.5	3.1	2.6	2.7	2.4	7.7	7.1	5.3	3.4	2.8	2.4
9	5.4	4.4	3.0	2.6	2.5	2.8	6.2	7.5	5.2	3.3	2.7	2.5
10	5.1	4.5	3.0	2.5	2.6	4.6	5.9	7.1	5.3	3.3	2.7	2.5
11	5.0	4.5	3.2	2.6	2.6	6.2	5.8	6.7	5.3	3.3	2.6	2.5
12	5.0	4.6	3.3	2.6	2.6	6.2	5.1	6.6	4.8	3.3	2.5	2.4
13	4.9	4.4	3.2	2.5	2.6	5.1	4.1	6.4	4.7	3.3	2.5	2.5
14	4.9	4.5	3.3	2.6	2.5	4.2	4.4	6.2	4.5	3.3	2.5	2.3
15	4.9	4.4	3.4	2.5	2.4	5.0	4.5	6.1	4.3	3.3	2.6	2.3
16	4.9	4.3	3.3	2.5	2.3	4.7	5.6	5.8	4.1	3.2	2.6	2.3
17	4.9	4.2	3.3	2.4	2.5	3.2	6.2	5.6	3.8	3.2	2.6	2.3
18	4.9	4.2	3.2	2.3	2.5	2.6	5.4	5.7	3.6	3.2	2.7	2.3
19	4.8	4.2	3.3	2.5	2.5	2.8	4.3	5.7	3.5	3.2	2.5	2.3
20	4.7	4.0	3.2	2.6	2.5	2.7	4.6	5.7	3.5	3.2	2.6	2.3
21	4.8	3.9	3.3	2.5	2.5	3.1	5.0	5.7	3.5	3.2	2.7	2.4
22	4.7	3.9	3.3	2.5	2.5	5.1	4.7	5.8	3.7	3.2	2.6	2.3
23	4.5	3.9	3.4	2.5	2.5	4.6	5.8	6.5	3.6	3.2	2.5	2.3
24	4.5	3.8	3.4	2.5	2.5	2.5	19	7.2	3.5	3.1	2.4	2.2
25	4.9	3.8	3.3	2.5	2.3	2.7	13	6.7	3.5	3.1	2.4	2.4
26	5.4	3.9	3.3	2.5	2.3	2.9	8.7	7.0	3.5	3.1	2.4	2.4
27	5.0	3.9	3.1	2.5	2.2	3.0	8.0	6.8	3.5	3.1	2.5	2.4
28	4.7	3.8	3.1	2.6	2.2	3.1	7.3	6.8	3.5	3.1	2.5	2.3
29	4.7	3.9	3.1	2.5	2.5	4.3	8.6	6.5	3.5	3.1	2.4	2.2
30	4.7	3.9	3.0	2.5	---	3.9	8.2	6.3	3.5	3.1	2.4	2.2
31	4.8	---	2.9	2.5	---	4.2	---	6.2	---	3.0	2.3	---
TOTAL	158.8	126.9	100.7	80.0	72.0	108.2	198.4	204.3	134.2	101.0	81.2	69.9
MEAN	5.12	4.23	3.25	2.58	2.48	3.49	6.61	6.59	4.47	3.26	2.62	2.33
MAX	6.3	4.8	3.8	2.9	2.8	6.2	19	7.8	6.0	3.5	3.0	2.5
MIN	4.5	3.8	2.9	2.3	2.2	2.2	3.2	5.6	3.5	3.0	2.3	2.2
AC-FT	315	252	200	159	143	215	394	405	266	200	161	139

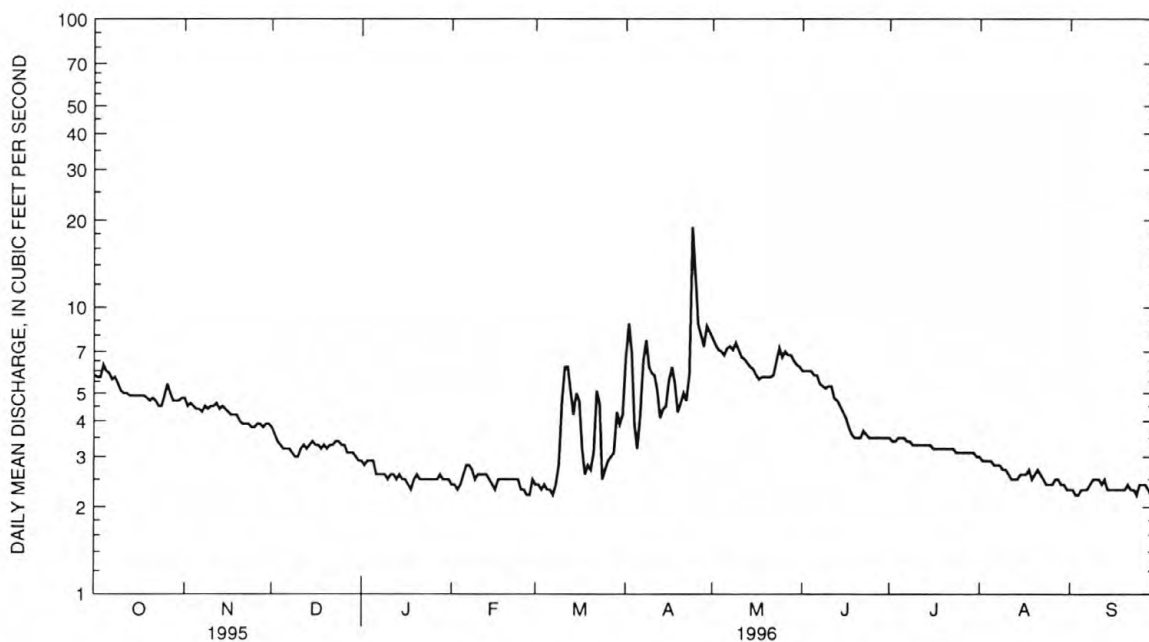
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	1.90	1.76	1.63	1.49	1.47	1.65	3.16	7.91	5.03	2.95	2.32	2.04										
MAX	5.12	4.23	3.25	2.58	2.48	3.49	7.09	25.0	19.8	10.2	7.02	5.91										
(WY)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
MIN	.73	.92	.62	.61	.72	.93	1.11	1.20	.95	.85	.70	.75										
(WY)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012

06645150 SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1975 - 1996
ANNUAL TOTAL	2646.8	1435.6	--
ANNUAL MEAN	7.25	3.92	2.78
HIGHEST ANNUAL MEAN	--	--	6.56
LOWEST ANNUAL MEAN	--	--	.94
HIGHEST DAILY MEAN	57 May 27	19 Apr 24	57 May 27 1995
LOWEST DAILY MEAN	1.0 Mar 4-8	2.2 Several days	.32 Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	1.0 Mar 2	2.3 Aug 31	.43 Dec 19 1990
INSTANTANEOUS PEAK FLOW	--	47 Apr 24	143 ^a May 5 1993
INSTANTANEOUS PEAK STAGE	--	1.88 Apr 24	2.95 May 5 1993
ANNUAL RUNOFF (AC-FT)	5250	2850	2020
10 PERCENT EXCEEDS	19	6.2	5.4
50 PERCENT EXCEEDS	4.6	3.3	1.8
90 PERCENT EXCEEDS	1.3	2.4	.95

a From rating curve extended above 20 ft³/s, on basis of slope-area measurement of peak flow.



06645150 SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER, WY

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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.

PERIOD OF RECORD.--October 1987 to September 1996 (discontinued).

REMARKS.--Estimated daily discharges: Oct. 24, 25, Nov. 2, 3, 9-11, Dec. 3-10, Dec. 14 to Jan. 8, Jan. 17-19, 23, 24, 28, Feb. 11-13, 21-29, and Mar. 6, 7, 22-26. Records good except those for May 24 to July 6, 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)
Feb. 11	1200	ice jam	*3.11
Apr. 24	1830	18	1.93
May 15	1930	18	1.95
May 24	2300	*19	1.96

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.9	2.4	1.8	1.7	1.8	2.4	6.5	11	4.4	2.5	2.0
2	3.1	2.8	2.3	1.8	1.7	1.7	2.7	6.5	9.7	4.2	2.4	2.0
3	3.0	2.7	2.1	1.9	1.7	1.7	2.7	6.5	9.1	4.0	2.5	1.9
4	3.1	4.3	2.0	1.7	1.7	1.8	2.2	6.7	8.6	3.8	2.5	1.9
5	3.0	2.7	1.9	1.6	1.7	1.7	2.1	7.2	8.1	3.7	2.5	1.8
6	3.0	2.7	2.0	1.6	1.8	1.4	2.2	8.4	8.1	3.5	2.5	1.8
7	3.0	2.6	1.9	1.7	2.0	1.5	2.6	10	7.4	3.3	2.5	1.8
8	3.1	2.9	1.7	1.7	2.1	1.6	3.2	11	7.0	3.2	2.5	1.8
9	2.9	2.5	1.9	1.8	2.3	1.8	3.6	11	6.8	3.4	2.5	1.8
10	2.8	2.4	2.2	1.8	2.1	1.9	3.9	10	6.7	3.4	2.5	1.8
11	2.8	2.7	2.3	1.8	1.7	1.9	4.2	11	6.3	3.3	2.4	1.8
12	2.8	3.0	2.3	1.7	1.5	1.9	3.7	13	6.7	3.2	2.4	1.9
13	2.8	2.8	2.2	1.8	1.6	1.8	3.6	14	6.6	3.2	2.4	1.9
14	2.8	2.7	1.9	1.8	1.8	1.8	3.7	16	5.8	3.1	2.3	1.9
15	2.8	2.7	1.8	1.8	1.7	1.9	3.8	16	5.7	3.1	2.2	1.8
16	2.8	2.8	1.9	1.8	1.7	1.9	4.7	16	5.8	3.1	2.1	1.8
17	2.8	2.7	2.0	1.7	1.8	1.8	5.1	15	5.7	3.1	2.1	1.8
18	2.8	2.8	2.0	1.5	1.9	1.8	4.7	14	5.6	3.0	2.1	1.8
19	2.8	2.7	2.0	1.6	1.8	1.7	4.3	12	5.7	3.0	2.0	1.9
20	2.8	2.5	2.0	1.7	1.8	1.9	4.2	11	5.8	2.9	2.0	1.9
21	2.7	2.5	2.0	1.7	1.7	1.9	4.0	9.3	5.6	2.9	2.1	1.8
22	2.2	2.5	1.9	1.7	1.6	1.9	3.7	8.4	5.7	2.9	2.1	1.8
23	3.0	2.4	1.8	1.6	1.5	1.8	4.9	11	5.9	2.8	2.1	1.9
24	2.1	2.4	1.8	1.6	1.5	1.7	12	10	5.6	2.7	2.1	1.9
25	2.6	2.4	1.9	1.7	1.5	1.5	9.8	16	5.3	2.7	2.0	1.9
26	3.3	2.5	2.0	1.7	1.4	1.7	7.7	14	5.2	2.7	2.0	1.9
27	3.2	2.4	1.9	1.7	1.3	1.9	7.3	16	5.1	2.7	2.1	1.9
28	3.0	2.6	1.9	1.6	1.4	2.0	6.7	15	4.9	2.6	2.2	2.0
29	3.1	2.5	1.9	1.7	1.6	2.1	6.3	15	4.8	2.7	2.0	2.0
30	3.0	2.5	1.9	1.7	---	2.1	6.4	13	4.6	2.6	2.1	1.9
31	3.1	---	1.9	1.7	---	2.2	---	12	---	2.6	2.1	---
TOTAL	89.4	80.6	61.7	53.0	49.6	56.1	138.4	361.5	194.9	97.8	69.8	56.1
MEAN	2.88	2.69	1.99	1.71	1.71	1.81	4.61	11.7	6.50	3.15	2.25	1.87
MAX	3.3	4.3	2.4	1.9	2.3	2.2	12	16	11	4.4	2.5	2.0
MIN	2.1	2.4	1.7	1.5	1.3	1.4	2.1	6.5	4.6	2.6	2.0	1.8
AC-FT	177	160	122	105	98	111	275	717	387	194	138	111

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	1.34	1.32	1.12	1.04	1.08	1.35	3.00	8.21	7.05	3.11	1.82	1.44
MAX	2.88	2.69	1.99	1.71	1.71	2.02	5.01	17.7	30.2	10.4	4.63	3.27
(WY)	1996	1996	1996	1996	1996	1994	1994	1995	1995	1995	1995	1995
MIN	.73	.69	.67	.60	.56	.78	1.53	1.79	1.07	.71	.59	.61
(WY)	1993	1993	1993	1991	1990	1990	1989	1989	1989	1989	1989	1990

PLATTE RIVER BASIN

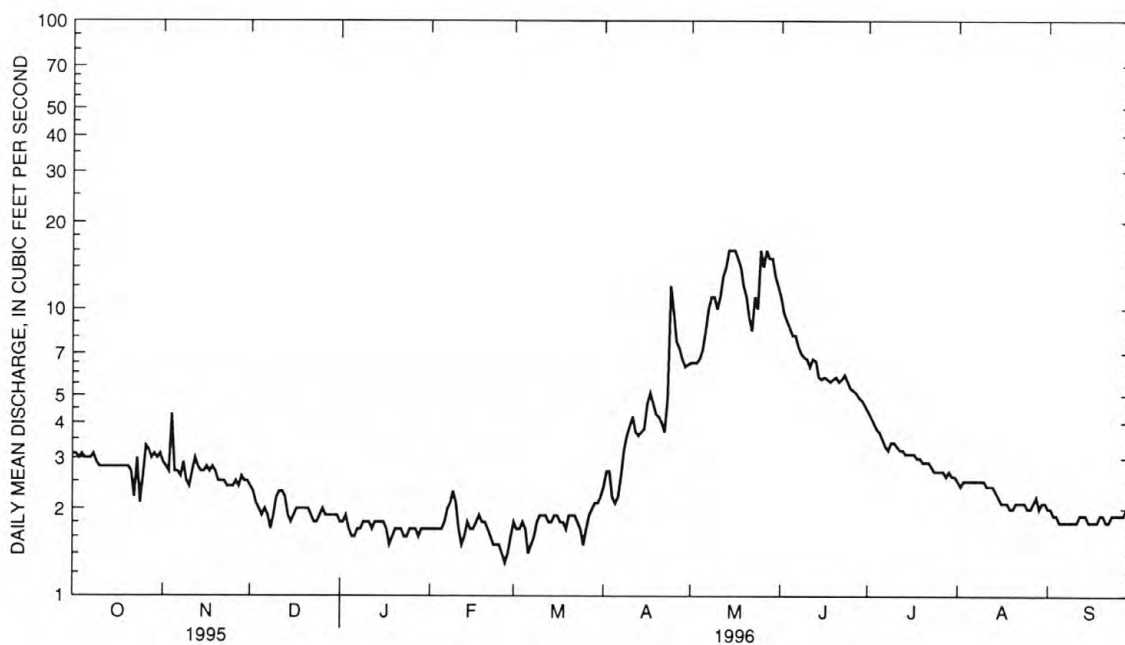
06645164 OTTER CREEK AT MOUTH, NEAR CASPER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1988 - 1996
ANNUAL TOTAL	2409.95	1308.9	--
ANNUAL MEAN	6.60	3.58	2.66
HIGHEST ANNUAL MEAN	--	--	6.28
LOWEST ANNUAL MEAN	--	--	1.14
HIGHEST DAILY MEAN	47 Jun 9	16 May 14	47 Jun 9 1995
LOWEST DAILY MEAN	.93 Feb 11	1.3 Feb 27	.43 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.99 Feb 28	1.5 Feb 22	.50 Feb 4 1990
INSTANTANEOUS PEAK FLOW	--	19 ^a May 24	87 ^b May 26 1995
INSTANTANEOUS PEAK STAGE	--	3.11 ^c Feb 11	5.11 ^c Mar 16 1988
ANNUAL RUNOFF (AC-FT)	4780	2600	1930
10 PERCENT EXCEEDS	22	7.3	5.6
50 PERCENT EXCEEDS	2.8	2.4	1.3
90 PERCENT EXCEEDS	1.1	1.7	.70

a Gage height, 1.96 ft.

b Gage height, 2.85 ft.

c Backwater from ice.



06645164 OTTER CREEK AT MOUTH, NEAR CASPER, WY

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 September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,980 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges: Records good except those for December to March, which are fair. 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)
Apr. 24	2100	*51	*3.04
May 16	1900	24	2.63
May 25	0230	30	2.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

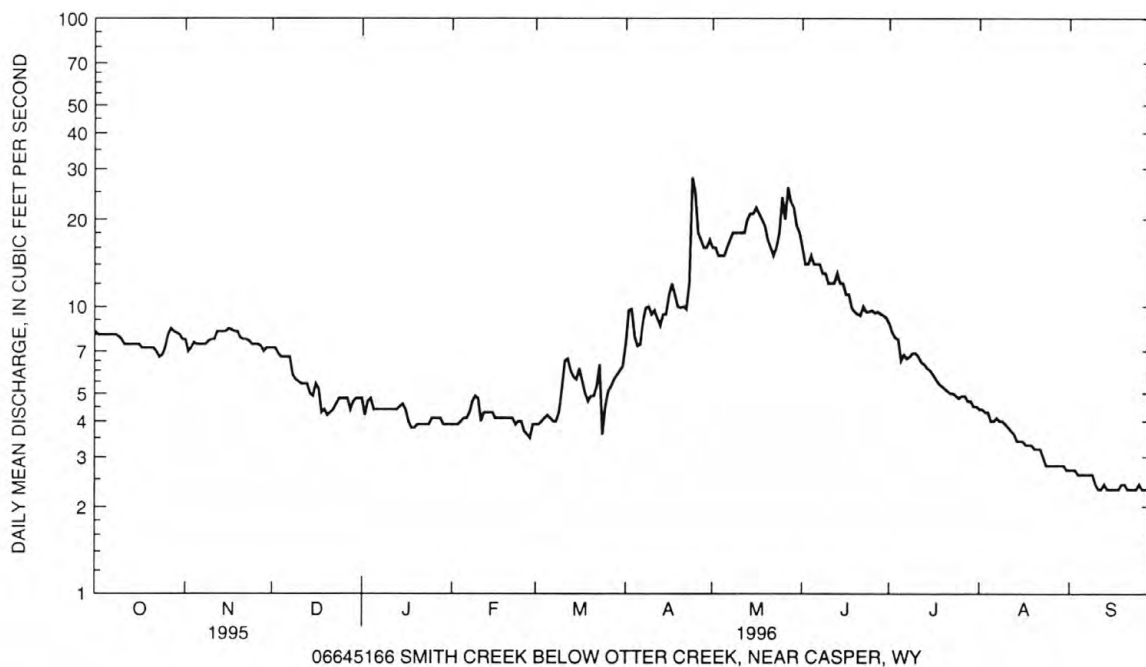
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	7.7	7.2	4.8	3.9	3.9	7.5	16	16	8.7	4.4	2.7
2	8.0	7.0	7.2	4.2	3.9	3.9	9.7	16	14	8.1	4.4	2.7
3	8.0	7.2	6.9	4.7	3.9	4.0	9.8	15	14	7.8	4.3	2.7
4	8.0	7.5	6.7	4.8	4.0	4.1	7.9	15	15	7.7	4.3	2.6
5	8.0	7.4	6.7	4.4	4.1	4.2	7.3	15	14	6.5	4.0	2.6
6	8.0	7.4	6.7	4.4	4.1	4.1	7.4	16	14	6.8	4.0	2.6
7	8.0	7.4	6.7	4.4	4.3	4.0	8.9	17	14	6.6	4.1	2.6
8	8.0	7.4	5.8	4.4	4.7	4.0	9.9	18	13	6.7	4.0	2.6
9	7.9	7.6	5.6	4.4	4.9	4.3	10	18	13	6.9	4.0	2.6
10	7.7	7.7	5.5	4.4	4.8	5.2	9.4	18	12	6.9	3.9	2.4
11	7.4	7.7	5.4	4.4	4.0	6.5	9.7	18	12	6.7	3.8	2.3
12	7.4	8.2	5.4	4.4	4.3	6.6	9.1	18	12	6.4	3.7	2.3
13	7.4	8.2	5.4	4.4	4.3	6.0	8.6	20	13	6.3	3.6	2.4
14	7.4	8.2	5.0	4.5	4.3	5.7	9.4	21	12	6.1	3.4	2.3
15	7.4	8.2	4.9	4.6	4.3	5.6	9.4	21	12	6.0	3.4	2.3
16	7.4	8.4	5.4	4.4	4.1	6.1	11	22	11	5.8	3.4	2.3
17	7.2	8.3	5.2	4.0	4.1	5.5	12	21	11	5.6	3.3	2.3
18	7.2	8.2	4.3	3.8	4.1	5.0	11	20	9.9	5.4	3.3	2.3
19	7.2	8.2	4.4	3.8	4.1	4.7	10	19	9.6	5.3	3.3	2.4
20	7.2	7.8	4.2	3.9	4.1	4.9	9.9	17	9.4	5.2	3.2	2.4
21	7.2	7.7	4.3	3.9	4.1	4.9	10	16	9.3	5.1	3.2	2.3
22	7.0	7.7	4.4	3.9	4.1	5.3	9.8	15	10	5.0	3.2	2.3
23	6.7	7.6	4.6	3.9	3.9	6.3	12	16	9.6	5.0	3.0	2.3
24	6.8	7.4	4.8	3.9	4.0	3.6	28	18	9.6	4.9	2.8	2.3
25	7.2	7.4	4.8	4.1	4.0	4.5	25	24	9.7	4.8	2.8	2.4
26	8.0	7.4	4.8	4.1	3.7	5.1	18	20	9.5	4.9	2.8	2.3
27	8.4	7.3	4.8	4.1	3.6	5.3	17	26	9.6	4.9	2.8	2.3
28	8.2	7.0	4.4	4.1	3.5	5.6	16	23	9.4	4.7	2.8	2.3
29	8.1	7.2	4.7	3.9	3.9	5.8	16	22	9.3	4.7	2.8	2.1
30	8.0	7.2	4.8	3.9	---	6.0	17	19	9.1	4.5	2.8	2.1
31	7.7	---	4.8	3.9	---	6.2	---	18	---	4.5	2.7	---
TOTAL	236.3	229.6	165.8	130.8	119.1	156.9	356.7	578	346.0	184.5	107.5	72.1
MEAN	7.62	7.65	5.35	4.22	4.11	5.06	11.9	18.6	11.5	5.95	3.47	2.40
MAX	8.4	8.4	7.2	4.8	4.9	6.6	28	26	16	8.7	4.4	2.7
MIN	6.7	7.0	4.2	3.8	3.5	3.6	7.3	15	9.1	4.5	2.7	2.1
AC-FT	469	455	329	259	236	311	708	1150	686	366	213	143

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	2.55	2.46	2.14	1.86	1.80	2.29	5.46	15.4	12.2
MAX	7.62	7.65	5.35	4.22	4.11	5.06	11.9	47.8	53.8
(WY)	1996	1996	1996	1996	1996	1996	1996	1995	1995
MIN	.79	.72	.58	.52	.59	.84	2.17	2.65	1.67
(WY)	1991	1993	1991	1991	1991	1991	1991	1989	1992

06645166 SMITH CREEK BELOW OTTER CREEK, NEAR CASPER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1988 - 1996
ANNUAL TOTAL	5181.6	2683.3	--
ANNUAL MEAN	14.2	7.33	4.77
HIGHEST ANNUAL MEAN	--	--	12.9
LOWEST ANNUAL MEAN	--	--	1.61
HIGHEST DAILY MEAN	131	28	131
LOWEST DAILY MEAN	1.3	2.1	.26
ANNUAL SEVEN-DAY MINIMUM	1.4	2.3	.45
INSTANTANEOUS PEAK FLOW	--	51	189
INSTANTANEOUS PEAK STAGE	--	3.04	3.97
ANNUAL RUNOFF (AC-FT)	10280	5320	3460
10 PERCENT EXCEEDS	47	15	10
50 PERCENT EXCEEDS	7.4	5.8	2.4
90 PERCENT EXCEEDS	1.6	2.8	.79



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 September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. 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)
Oct. 4	0830	7.6	1.32
May 7	2030	8.6	1.37
May 27	0430	*12	*1.46

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.9	4.9	4.6	4.3	4.1	4.4	6.4	8.1	4.6	4.7	4.1
2	5.3	4.5	4.9	4.4	4.1	4.1	4.4	6.2	7.5	4.5	4.6	4.1
3	5.1	4.5	4.8	4.5	4.0	4.2	4.5	6.1	7.1	4.5	4.7	4.1
4	5.5	4.6	4.9	4.5	4.1	4.3	4.4	6.2	6.8	4.5	4.4	4.2
5	4.9	4.6	4.9	4.4	4.1	4.3	4.4	6.5	6.1	4.5	4.3	4.0
6	4.9	4.7	4.9	4.4	4.3	4.1	4.4	7.0	6.1	4.7	4.4	3.9
7	4.9	4.7	4.9	4.4	4.7	4.1	4.4	8.0	5.8	4.7	4.4	3.9
8	5.3	5.0	4.7	4.5	4.6	4.1	4.6	8.3	5.6	4.7	4.3	3.9
9	4.9	5.1	4.7	4.6	4.6	4.3	4.6	8.2	5.5	4.9	4.4	3.8
10	4.9	4.9	5.1	4.6	4.3	4.4	4.7	7.4	5.5	4.8	4.4	3.9
11	4.9	4.9	5.1	4.4	4.2	4.4	5.6	7.1	5.3	4.7	4.4	3.8
12	4.9	5.2	5.1	4.5	4.2	4.4	5.7	7.0	5.6	4.8	4.4	3.9
13	4.9	5.0	5.1	4.6	4.3	4.4	5.5	7.3	5.3	4.8	4.6	3.8
14	4.9	4.9	5.0	4.6	4.4	4.4	5.4	7.5	5.0	4.7	4.6	3.7
15	4.9	4.9	5.0	4.6	4.3	4.4	5.7	7.1	5.0	4.8	4.7	3.7
16	4.9	4.9	5.1	4.6	4.3	4.4	5.3	6.8	5.0	4.7	4.8	3.6
17	4.9	4.9	5.1	4.5	4.3	4.4	5.0	6.6	4.8	4.8	4.5	3.6
18	4.9	5.0	4.9	4.3	4.4	4.4	5.1	6.5	4.7	4.7	4.5	3.7
19	4.4	5.1	5.0	4.4	4.3	4.3	5.0	6.3	4.7	4.5	4.5	3.7
20	4.4	4.9	4.9	4.4	4.3	4.5	5.2	6.1	4.7	4.5	4.5	3.7
21	4.4	4.9	5.1	4.4	4.3	4.6	5.2	5.8	5.0	4.5	4.5	3.7
22	4.9	5.1	5.1	4.4	4.4	4.6	5.3	5.7	4.9	4.6	4.6	3.7
23	4.6	5.1	4.9	4.4	4.1	4.6	6.3	6.5	4.8	4.5	4.6	3.8
24	4.6	4.9	4.9	4.4	4.2	4.4	6.8	6.6	4.7	4.7	4.6	3.9
25	4.7	4.7	4.8	4.4	4.1	4.1	7.0	8.0	4.7	4.6	4.6	4.1
26	5.1	4.9	4.6	4.4	4.1	4.2	7.0	8.5	4.7	4.8	4.6	4.2
27	4.9	4.9	4.6	4.4	4.1	4.4	6.9	10	4.8	4.8	4.5	4.0
28	4.7	4.8	4.6	4.4	3.9	4.4	6.9	9.3	4.8	4.8	4.5	3.9
29	4.8	5.1	4.4	4.4	4.0	4.4	6.9	9.4	4.8	4.8	4.4	3.9
30	4.8	4.9	4.4	4.4	---	4.4	6.8	9.0	4.8	4.7	4.4	4.0
31	4.9	---	4.6	4.4	---	4.4	---	8.5	---	4.8	4.2	---
TOTAL	151.2	146.5	151.0	138.2	123.3	134.5	163.4	225.9	162.2	145.0	139.6	116.3
MEAN	4.88	4.88	4.87	4.46	4.25	4.34	5.45	7.29	5.41	4.68	4.50	3.88
MAX	5.5	5.2	5.1	4.6	4.7	4.6	7.0	10	8.1	4.9	4.8	4.2
MIN	4.4	4.5	4.4	4.3	3.9	4.1	4.4	5.7	4.7	4.5	4.2	3.6
AC-FT	300	291	300	274	245	267	324	448	322	288	277	231

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	3.88	3.87	3.71	3.60	3.67	3.87	4.25	6.86	6.27	4.45	3.93	3.81
MAX	4.88	4.88	4.87	4.46	4.25	4.78	5.45	17.5	19.1	7.97	5.74	5.25
(WY)	1996	1996	1996	1996	1996	1988	1996	1995	1995	1995	1995	1995
MIN	3.16	3.21	3.00	2.88	3.16	3.36	3.66	3.83	3.44	3.41	3.04	3.01
(WY)	1993	1993	1993	1993	1993	1993	1990	1992	1992	1994	1992	1992

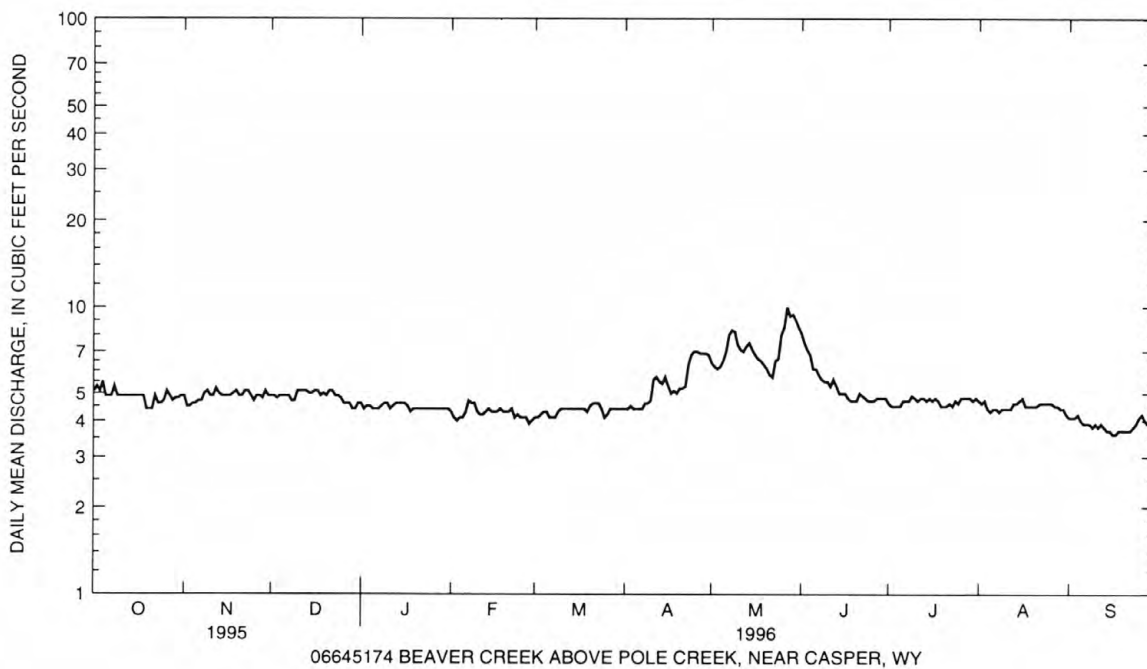
PLATTE RIVER BASIN

06645174 BEAVER CREEK ABOVE POLE CREEK, NEAR CASPER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1988 - 1996
ANNUAL TOTAL	2562.2	1797.1	--
ANNUAL MEAN	7.02	4.91	4.35
HIGHEST ANNUAL MEAN	--	--	6.62
LOWEST ANNUAL MEAN	--	--	3.52
HIGHEST DAILY MEAN	49 May 27	10 May 27	49 May 27 1995
LOWEST DAILY MEAN	3.0 Jan 2	3.6 Sep 16, 17	2.6 Dec 21 1992
ANNUAL SEVEN-DAY MINIMUM	3.1 Jan 1	3.7 Sep 14	2.7 Dec 18 1992
INSTANTANEOUS PEAK FLOW	--	12 May 27	75 ^a Jun 3 1995
INSTANTANEOUS PEAK STAGE	--	1.46 May 27	3.19 ^b May 8 1995
ANNUAL RUNOFF (AC-FT)	5080	3560	3150
10 PERCENT EXCEEDS	15	6.3	5.3
50 PERCENT EXCEEDS	4.9	4.7	3.8
90 PERCENT EXCEEDS	3.2	4.1	3.2

a Gage height, 2.40 ft.

b Backwater due to drift and bank slumpage.



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 September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,880 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 9, 10, Jan. 18, 19, Feb. 8-15, Feb. 28 to Mar. 1, and Mar. 23-25.

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)
Apr 24	1735	*19	*1.75
May 18	2230	6.7	1.28
May 27	0430	7.9	1.40

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.2	1.1	.92	.95	.93	1.3	3.2	3.1	.97	1.1	.74
2	1.3	1.1	1.1	.90	.79	1.1	1.4	3.5	3.0	.84	.99	.73
3	1.3	1.2	1.0	.98	.95	1.1	1.3	3.5	3.0	.89	.96	.71
4	1.3	1.2	1.0	.96	.98	1.1	1.3	3.4	2.6	.84	.99	.70
5	1.3	1.2	.99	.94	.98	1.1	1.2	3.5	2.5	.85	.93	.70
6	1.3	1.2	.99	.94	1.0	1.1	1.3	4.1	2.4	1.0	.96	.69
7	1.3	1.2	1.0	.94	1.1	1.1	1.5	4.3	2.5	.90	.93	.69
8	1.3	1.3	.89	.94	1.0	1.1	1.8	4.3	2.3	.95	.91	.69
9	1.2	1.3	.86	.94	1.0	1.1	1.8	4.2	2.1	1.0	.90	.69
10	1.2	1.2	.94	.93	.96	1.2	1.9	3.4	2.0	1.2	.88	.68
11	1.1	1.1	1.0	.92	.90	1.2	1.9	3.4	1.8	1.2	.86	.68
12	1.2	1.3	1.0	.92	.90	1.2	2.0	3.6	2.0	1.2	.82	.68
13	1.2	1.2	1.0	.92	.94	1.2	1.9	4.0	1.8	1.1	.80	.71
14	1.2	1.2	.97	.93	.96	1.2	1.8	4.1	1.7	1.1	.80	.70
15	1.1	1.2	.97	.93	.98	1.2	1.9	4.0	1.7	1.1	.79	.70
16	1.1	1.2	.99	.93	1.0	1.2	2.4	3.9	1.6	1.1	.77	.69
17	1.1	1.2	.95	.88	1.1	1.2	2.5	4.4	1.6	1.0	.77	.68
18	1.1	1.2	.96	.84	1.1	1.1	2.1	5.0	1.5	1.0	.77	.68
19	1.1	1.1	.98	.90	1.1	1.1	2.0	5.6	1.4	1.0	.77	.68
20	1.1	1.1	.97	.95	1.1	1.1	2.0	4.9	1.4	1.0	.77	.67
21	1.1	1.1	.98	.94	1.1	1.2	2.1	4.4	1.4	.97	.76	.70
22	1.2	1.1	.99	.93	1.1	1.2	1.9	4.5	1.4	1.0	.74	.71
23	1.2	1.1	.98	.92	1.0	1.1	3.5	4.3	1.3	.99	.75	.71
24	1.3	1.1	.98	.92	1.1	1.0	10	4.1	1.3	.95	.74	.71
25	1.3	1.1	.97	.93	1.1	1.1	5.0	6.4	1.3	.95	.73	.73
26	1.4	1.1	.95	.94	1.0	1.2	3.8	5.3	1.4	1.1	.74	.75
27	1.4	1.1	.94	.94	.87	1.1	3.1	7.0	1.5	1.2	.79	.71
28	1.2	1.0	.91	.94	.83	1.2	2.5	5.6	1.4	1.1	.76	.72
29	1.2	1.1	.89	.94	.79	1.2	2.4	5.2	1.4	1.0	.72	.72
30	1.2	1.1	.91	.95	---	1.2	2.7	4.4	1.3	1.0	.72	.70
31	1.3	---	.92	.96	---	1.2	---	3.7	---	1.2	.74	---
TOTAL	38.0	34.8	30.08	28.82	28.68	35.33	72.3	135.2	55.7	31.70	25.66	21.05
MEAN	1.23	1.16	.97	.93	.99	1.14	2.41	4.36	1.86	1.02	.83	.70
MAX	1.4	1.3	1.1	.98	1.1	1.2	10	7.0	3.1	1.2	1.1	.75
MIN	1.1	1.0	.86	.84	.79	.93	1.2	3.2	1.3	.84	.72	.67
AC-FT	75	69	60	57	57	70	143	268	110	63	51	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

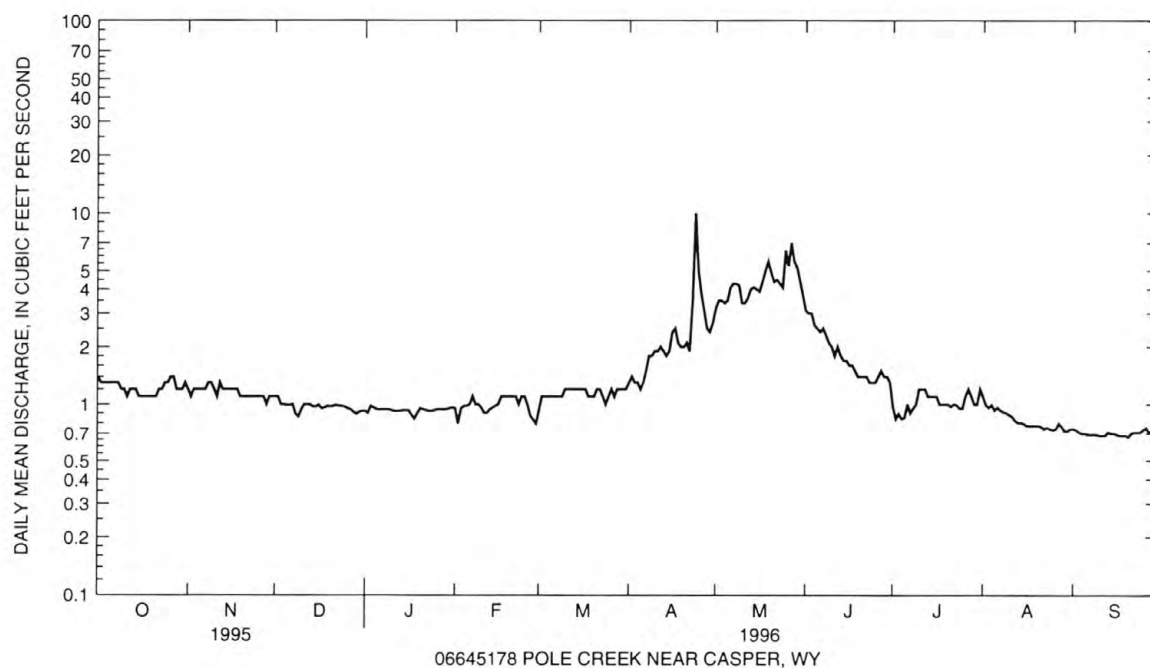
MEAN	.60	.60	.53	.49	.51	.69	1.55	3.97	2.53	1.06	.74	.65
MAX	1.23	1.16	.97	.93	.99	1.14	2.47	10.4	9.17	2.51	1.32	1.29
(WY)	1996	1996	1996	1996	1996	1996	1994	1995	1995	1995	1995	1995
MIN	.32	.33	.29	.27	.32	.43	.66	.89	.63	.41	.33	.34
(WY)	1990	1993	1991	1991	1993	1991	1989	1989	1992	1989	1989	1992

06645178 POLE CREEK NEAR CASPER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996	
ANNUAL TOTAL	942.64		537.32		--	
ANNUAL MEAN	2.58		1.47		1.16	
HIGHEST ANNUAL MEAN	--		--		2.43	
LOWEST ANNUAL MEAN	--		--		.54	
HIGHEST DAILY MEAN	45		10		45	
LOWEST DAILY MEAN	.21		.67		.12	
ANNUAL SEVEN-DAY MINIMUM	.36		.69		.23	
INSTANTANEOUS PEAK FLOW	--		19		123 ^a	
INSTANTANEOUS PEAK STAGE	--		1.75		3.11 ^b	
ANNUAL RUNOFF (AC-FT)	1870		1070		842	
10 PERCENT EXCEEDS	7.4		3.1		2.1	
50 PERCENT EXCEEDS	1.2		1.1		.67	
90 PERCENT EXCEEDS	.43		.75		.35	

a About.

b Backwater from landslide debris.

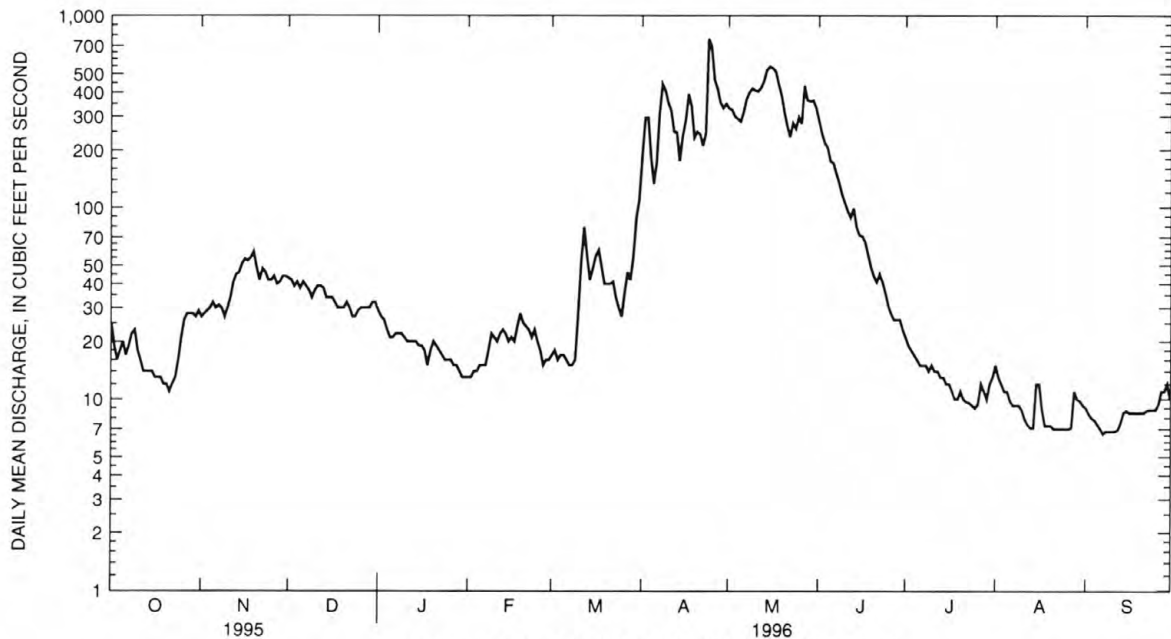


EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

MEAN	8.02	10.5	8.88	7.33	8.72	28.2	181	259	93.1	14.8	4.95	5.26
MAX	18.4	40.5	34.2	19.2	19.3	65.8	352	805	435	57.4	10.8	11.0
(WY)	1996	1996	1996	1996	1996	1995	1987	1995	1995	1947	1995	1995
MIN	3.85	6.04	3.38	3.85	3.44	9.77	44.8	46.5	14.2	3.04	2.47	2.10
(WY)	1990	1993	1991	1991	1947	1950	1989	1989	1989	1989	1989	1990

06646000 DEER CREEK IN CANYON, NEAR GLENROCK, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1946 - 1996
ANNUAL TOTAL	47253.3	30066.4	--
ANNUAL MEAN	129	82.1	54.0
HIGHEST ANNUAL MEAN	--	--	124 1995
LOWEST ANNUAL MEAN	--	--	13.9 1989
HIGHEST DAILY MEAN	1390 May 12	760 Apr 24	1920 Jun 10 1986
LOWEST DAILY MEAN	4.4 Feb 11,13	6.6 Sep 7	1.1 Sep 17 1990
ANNUAL SEVEN-DAY MINIMUM	4.7 Feb 9	6.8 Sep 6	1.4 Sep 12 1990
INSTANTANEOUS PEAK FLOW	--	1350 Apr 24	3200 Jun 10 1986
INSTANTANEOUS PEAK STAGE	--	7.36 Apr 24	9.42 Jun 10 1986
ANNUAL RUNOFF (AC-FT)	93730	59640	39110
10 PERCENT EXCEEDS	370	303	161
50 PERCENT EXCEEDS	30	25	9.0
90 PERCENT EXCEEDS	6.5	8.8	3.6



06646000 DEER CREEK IN CANYON, NEAR GLENROCK, WY

281

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.

PERIOD OF RECORD.--April 1946 to September 1951, October 1961 to September 1967, October 1971 to current year.

REMARKS.--Estimated daily discharges: Nov. 1-4, 9, 10, Dec. 9-12, Dec. 18 to Mar. 17, and Mar. 23-26. Records good except those for daily discharges less than 1.0 ft³/s and 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)
Apr. 24	2200	329	3.74
May 16	2130	*580	*4.42

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	11	21	12	5.2	4.9	31	174	165	8.1	2.0	.33
2	5.7	12	22	11	5.2	5.2	38	165	149	7.5	1.0	.24
3	5.2	13	17	11	5.0	5.4	39	157	134	6.9	.62	.20
4	5.9	14	21	9.5	5.2	5.7	34	153	127	6.4	.49	.18
5	6.9	14	17	8.0	5.6	5.6	33	152	108	5.7	.37	.15
6	6.2	13	20	8.3	5.8	5.8	39	173	101	5.5	.29	.15
7	6.8	12	19	8.4	6.0	6.1	54	212	88	5.1	.25	.17
8	7.6	12	16	8.4	6.2	6.5	75	250	76	4.8	.23	.17
9	7.7	11	14	8.0	6.4	7.1	99	292	67	4.4	.21	.15
10	6.8	12	15	7.2	6.1	8.4	119	282	60	4.7	.21	.15
11	6.6	13	17	7.0	5.8	11	131	294	54	4.3	.19	.14
12	7.1	17	17	7.3	5.6	12	125	324	49	3.7	.16	.18
13	7.3	18	18	7.5	5.8	11	111	380	47	3.3	.15	.22
14	6.7	18	15	7.5	5.8	9.8	117	467	40	3.1	.14	.22
15	6.1	19	14	7.3	5.6	11	121	515	37	2.9	.15	.21
16	5.9	20	14	7.3	5.7	12	145	521	35	2.4	.16	.19
17	5.7	20	14	6.7	5.8	10	172	512	31	2.0	.15	.21
18	5.7	21	13	6.3	5.8	9.7	162	431	27	1.7	.13	.22
19	5.7	23	13	6.5	5.8	9.9	142	354	23	2.2	.13	.24
20	5.5	21	13	6.4	5.7	12	145	275	21	1.9	.12	.26
21	5.3	21	14	6.4	5.6	11	123	222	20	1.4	.12	.28
22	5.6	21	13	6.2	5.5	13	114	191	21	1.1	.12	.30
23	5.8	20	12	6.0	5.4	12	144	218	18	.91	1.2	.31
24	7.2	19	11	6.0	5.4	11	239	186	16	.86	.91	.31
25	9.9	20	12	5.8	5.3	10	267	173	14	.68	.40	.35
26	11	21	12	5.6	5.1	12	236	179	12	.63	.26	.59
27	12	19	12	5.6	5.1	15	224	206	11	.79	.21	.88
28	11	20	12	5.6	4.8	16	201	184	12	.84	.22	1.2
29	11	22	12	5.4	4.8	21	191	199	11	.72	.42	1.0
30	12	21	13	5.2	---	26	185	188	9.2	1.5	1.2	.80
31	13	---	13	5.2	---	25	---	181	---	1.7	.47	---
TOTAL	231.0	518	466	224.6	161.1	341.1	3856	8210	1583.2	97.73	12.68	10.00
MEAN	7.45	17.3	15.0	7.25	5.56	11.0	129	265	52.8	3.15	.41	.33
MAX	13	23	22	12	6.4	26	267	521	165	8.1	2.0	1.2
MIN	5.2	11	11	5.2	4.8	4.9	31	152	9.2	.63	.12	.14
AC-FT	458	1030	924	445	320	677	7650	16280	3140	194	25	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

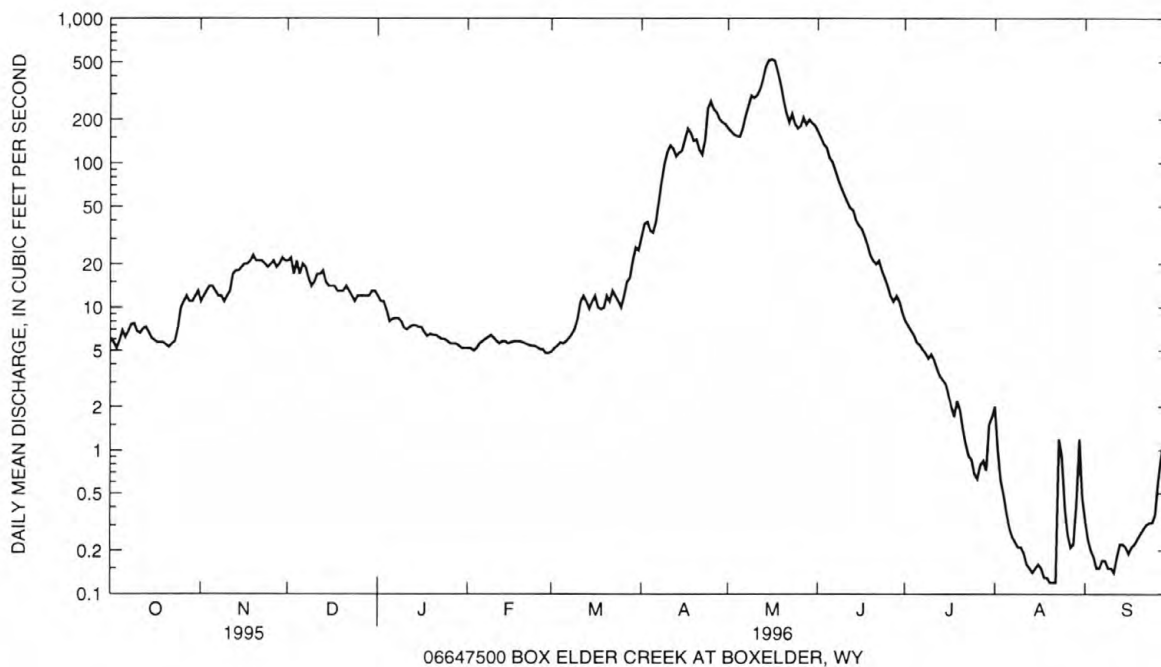
MEAN	2.25	3.16	2.65	2.27	2.64	7.84	75.6	240	80.8	9.16	1.45	.80
MAX	12.5	17.6	15.0	7.52	9.25	31.1	220	562	332	48.8	4.95	4.11
(WY)	1983	1983	1996	1983	1962	1983	1962	1973	1995	1947	1984	1973
MIN	.24	.60	.46	.66	.093	1.47	9.33	39.5	8.28	.21	.021	.058
(WY)	1965	1964	1964	1981	1966	1981	1981	1989	1985	1989	1989	1981

PLATTE RIVER BASIN

06647500 BOX ELDER CREEK AT BOXELDER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1946 - 1996
ANNUAL TOTAL	26482.51	15711.41	--
ANNUAL MEAN	72.6	42.9	35.8
HIGHEST ANNUAL MEAN	--	--	85.8
LOWEST ANNUAL MEAN	--	--	6.95
HIGHEST DAILY MEAN	905 Jun 3	521 May 16	2460 May 14 1965
LOWEST DAILY MEAN	.22 Sep 6	.12 Aug 20-22	.00 Some years
ANNUAL SEVEN-DAY MINIMUM	.28 Sep 2	.13 Aug 16	.00 Some years
INSTANTANEOUS PEAK FLOW	--	580 May 16	4530 May 14 1965
INSTANTANEOUS PEAK STAGE	--	4.42 May 16	8.58 ^a May 14 1965
ANNUAL RUNOFF (AC-FT)	52530	31160	25960
10 PERCENT EXCEEDS	308	165	108
50 PERCENT EXCEEDS	12	9.4	2.9
90 PERCENT EXCEEDS	.99	.26	.39

a Site and datum then in use.



06652000 NORTH PLATTE RIVER AT ORIN, WY

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 probably is 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. Elevation of gage is 4,660 ft above sea level, from topographic map. 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: Jan. 1-15, Jan. 17 to Feb. 16, and Feb. 29 to Mar. 1. Records good except those for January 1 to March 27, which are poor. 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. U.S. Geological Survey data collection platform with satellite telemetry at station.

COOPERATION.--Thirteen discharge measurements provided by the Bureau of Reclamation and four provided by the Office of the Wyoming State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	898	839	839	770	570	540	1680	3930	4280	2580	2250	1470
2	844	827	834	625	600	759	1740	3920	4190	2530	2250	1250
3	793	781	834	535	580	918	1870	3920	4080	2410	2210	1190
4	788	768	831	485	560	949	1980	4110	4050	2380	2290	1200
5	805	819	804	500	600	1070	1900	4150	3990	2210	2380	1160
6	789	815	802	460	700	824	1770	4080	3880	2140	2380	1060
7	791	811	815	445	860	672	1730	4070	3840	2150	2290	1070
8	786	804	775	480	1010	660	1890	4210	3810	2130	2390	1100
9	799	810	705	590	1180	747	2050	4340	3780	2100	2440	1070
10	782	817	521	730	1230	840	2190	4460	3720	2120	2430	1050
11	783	849	655	920	1150	1040	2210	4380	3690	2150	2420	1040
12	772	855	1150	890	990	947	2330	4290	3660	2180	2430	1030
13	763	905	967	910	1010	877	2290	4280	3640	2210	2410	1080
14	776	920	866	980	1080	936	2370	4340	4090	2260	2140	1080
15	774	895	820	1020	1090	1500	2210	4440	4500	2290	2100	1080
16	789	893	802	954	1000	2210	2320	4480	4600	2280	1990	1050
17	841	891	799	850	872	1980	2490	4510	4640	2260	1940	1080
18	1640	879	804	670	884	1620	2640	4080	4560	2240	1920	1060
19	1680	861	727	560	920	1980	2800	3660	4150	2270	1920	901
20	1710	858	708	520	969	2330	2960	3410	3740	2240	1940	876
21	1570	852	624	580	884	2210	2910	3190	3630	2210	1940	852
22	914	831	686	660	855	2090	2900	3020	3570	2200	1930	857
23	885	833	732	640	853	1820	2840	2980	3530	2180	1970	864
24	851	827	573	620	829	1830	3140	3170	3450	2200	1820	840
25	788	811	664	600	799	1740	4140	3100	3400	2210	1780	816
26	830	804	635	560	800	1300	4390	3370	3350	2150	1750	830
27	827	822	641	580	719	1770	4190	3830	3350	2150	1730	855
28	822	826	617	570	506	1890	4140	4080	3060	2150	1750	846
29	821	815	632	600	455	1600	4000	3880	2930	2170	1580	839
30	808	830	649	580	---	1600	4000	3770	2700	2190	1500	815
31	828	---	682	570	---	1640	---	4090	---	2280	1580	---
TOTAL	28547	25148	23193	20454	24555	42889	80070	121540	113860	69220	63850	30311
MEAN	921	838	748	660	847	1384	2669	3921	3795	2233	2060	1010
MAX	1710	920	1150	1020	1230	2330	4390	4510	4640	2580	2440	1470
MIN	763	768	521	445	455	540	1680	2980	2700	2100	1500	815
AC-FT	56620	49880	46000	40570	48700	85070	158800	241100	225800	137300	126600	60120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1996, BY WATER YEAR (WY)

	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
MEAN	1197	1090	907	910	1004	1161	1851	3338	3220	2626	2307	1637
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

PLATTE RIVER BASIN

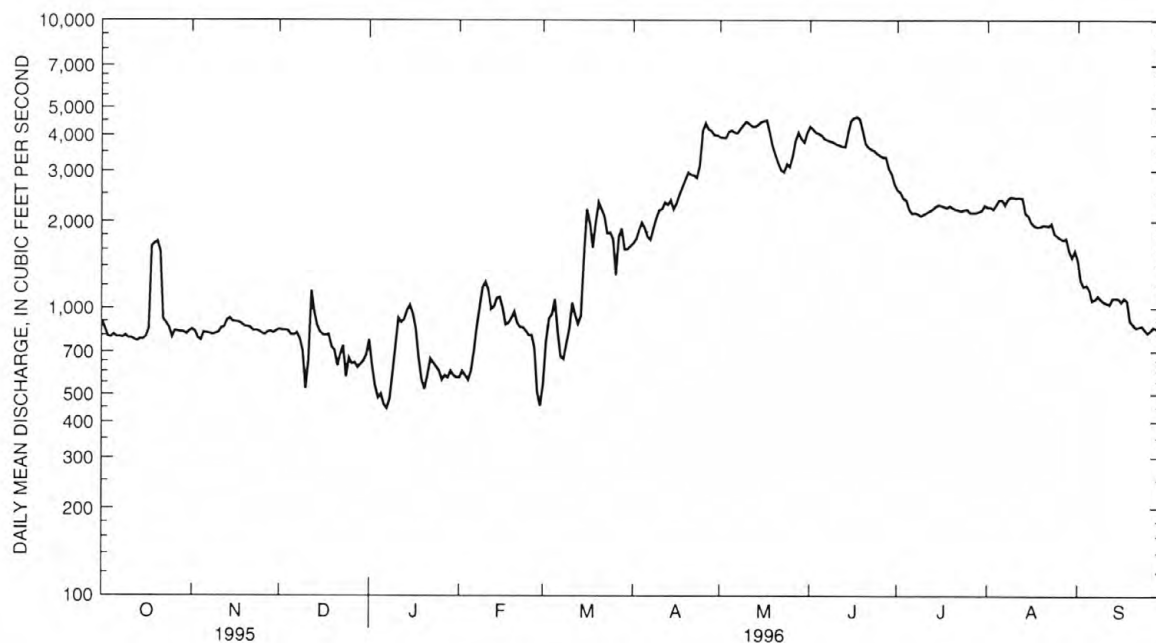
06652000 NORTH PLATTE RIVER AT ORIN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1895 - 1996	
ANNUAL TOTAL	505846		643637		--	
ANNUAL MEAN	1386		1759		1625	
HIGHEST ANNUAL MEAN	--		--		3110	1984
LOWEST ANNUAL MEAN	--		--		935	1961
HIGHEST DAILY MEAN	8020	May 28	4640	Jun 17	20300	Jun 27 1917
LOWEST DAILY MEAN	220	Feb 14	445	Jan 7	140	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	446	Feb 11	499	Jan 3	324	Sep 25 1966
INSTANTANEOUS PEAK FLOW	--		4820 ^a	Apr 25	23800	May 15 1965
INSTANTANEOUS PEAK STAGE	--		8.35 ^b	Jan 3	10.45 ^c	Jun 12 1970
ANNUAL RUNOFF (AC-FT)	1003000		1277000		1177000	
10 PERCENT EXCEEDS	3380		3920		3780	
50 PERCENT EXCEEDS	848		1120		1290	
90 PERCENT EXCEEDS	656		653		698	

a Gage height, 5.67 ft.

b Backwater from ice.

c Site and datum then in use.



06652000 NORTH PLATTE RIVER AT ORIN, WY

PLATTE RIVER BASIN

285

06652700 GLENDO RESERVOIR NEAR GLENDO, 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 probably is 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, 545,000 acre-ft, June 3, elevation, 4,637.17 ft; minimum daily contents, 83,700 acre-ft, Oct. 1, elevation, 4,576.07 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		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83700	145000	198000	243000	282000	328000	404000	506000	543000	507000	325000	156000
2	85100	146000	200000	243000	283000	329000	407000	507000	544000	503000	320000	150000
3	86100	148000	201000	245000	285000	331000	411000	509000	545000	498000	315000	145000
4	88000	149000	203000	246000	285000	333000	415000	511000	544000	492000	310000	140000
5	89900	151000	205000	247000	287000	335000	418000	512000	544000	486000	305000	135000
6	91400	153000	207000	248000	288000	336000	422000	514000	544000	480000	301000	130000
7	93300	155000	209000	249000	290000	337000	425000	516000	543000	479000	296000	126000
8	95000	156000	209000	249000	292000	338000	427000	520000	543000	483000	290000	121000
9	96500	159000	210000	251000	294000	340000	431000	522000	543000	486000	285000	117000
10	98500	160000	211000	253000	296000	342000	435000	525000	542000	482000	280000	113000
11	100000	162000	213000	255000	299000	344000	440000	528000	542000	476000	275000	109000
12	101000	164000	215000	257000	300000	345000	445000	530000	541000	471000	270000	105000
13	103000	166000	217000	259000	303000	347000	449000	532000	539000	465000	265000	102000
14	105000	168000	219000	260000	304000	349000	453000	533000	539000	459000	259000	99100
15	107000	170000	221000	263000	306000	352000	458000	536000	538000	454000	254000	96500
16	108000	172000	222000	264000	308000	355000	460000	537000	538000	449000	248000	94800
17	110000	173000	224000	266000	310000	358000	463000	539000	538000	443000	242000	92500
18	113000	175000	225000	266000	312000	362000	464000	541000	538000	437000	236000	92000
19	116000	177000	227000	267000	313000	364000	468000	541000	538000	432000	230000	91700
20	120000	179000	228000	268000	315000	368000	471000	539000	537000	427000	224000	93100
21	123000	181000	229000	269000	317000	371000	474000	539000	535000	422000	218000	93600
22	126000	183000	230000	271000	319000	374000	478000	539000	534000	414000	212000	94600
23	128000	184000	231000	272000	320000	378000	482000	538000	532000	409000	206000	94600
24	130000	186000	232000	273000	322000	381000	485000	539000	529000	400000	200000	95500
25	131000	188000	233000	274000	323000	383000	489000	539000	527000	389000	195000	95900
26	134000	190000	235000	275000	325000	385000	492000	542000	525000	378000	189000	96500
27	136000	191000	236000	277000	326000	389000	495000	543000	522000	368000	183000	97200
28	137000	193000	238000	278000	327000	392000	499000	543000	519000	358000	177000	98000
29	139000	195000	239000	279000	327000	395000	501000	543000	515000	347000	171000	99700
30	141000	196000	240000	280000	---	398000	504000	543000	512000	337000	166000	101000
31	143000	---	241000	281000	---	401000	---	543000	---	331000	161000	---
MAX	143000	196000	241000	281000	327000	401000	504000	543000	545000	507000	325000	156000
MIN	83700	145000	198000	243000	282000	328000	404000	506000	512000	331000	161000	91700
(#)	4,589.71	4,599.00	4,605.65	4,610.94	4,616.46	4,624.45	4,633.89	4,637.02	4,634.55	4,616.88	4,593.16	4,580.65
(*)	+60,000	+53,000	+45,000	+40,000	+46,000	+74,000	+104,000	+39,000	-31,000	-181,000	-170,000	-60,000

CAL YR 1995 MAX 606000 MIN 81400 (*) +10000
WTR YR 1996 MAX 545000 MIN 83700 (*) +18000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

06652800 NORTH PLATTE RIVER BELOW GLENDO RESERVOIR, WY

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.

DRAINAGE AREA.--15,548 mi², of which 1,215 mi² probably is non-contributing.

PERIOD OF RECORD.--October 1957 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,488.94 ft above sea level, (levels by Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Dec. 8-11, 19, 20, 22, 23, 26-30, Jan. 1, 2, 4-6, and Mar. 23-26. 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. Bureau of Reclamation data collection platform with satellite telemetry at station.

COOPERATION.--Twenty discharge measurements provided by the Bureau of Reclamation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	28	29	27	31	27	36	2710	3920	4620	4820	4060
2	290	27	29	28	31	27	35	2780	3910	4810	4690	3930
3	170	27	29	29	31	27	34	3020	3920	5150	4820	3750
4	31	27	29	28	31	27	34	3030	3910	5100	4800	3620
5	28	27	28	27	31	27	34	3040	3920	5050	4790	3560
6	27	27	29	29	31	27	34	2870	3850	5020	4800	3440
7	28	27	29	30	31	27	34	2650	3850	2400	4850	3180
8	29	27	28	31	31	27	34	2620	3840	475	4950	3170
9	30	27	27	31	31	27	33	2660	3820	482	5020	3120
10	32	27	27	31	32	27	34	2780	3810	3560	5020	3030
11	34	26	28	31	31	27	41	2990	3820	5560	5030	2990
12	35	27	28	30	31	27	38	2980	3850	5120	5040	2880
13	35	28	28	30	30	27	38	3130	4020	4960	4950	2470
14	34	27	27	30	30	26	35	3350	4360	4900	4990	2450
15	37	28	27	29	31	27	414	3360	4380	4850	4980	2280
16	37	28	27	29	30	27	1080	3350	4390	4790	4950	2070
17	37	28	27	30	30	26	1080	3340	4400	4950	4940	1870
18	35	28	27	30	30	26	1100	3350	4360	5070	4940	1500
19	34	28	26	30	30	26	1110	3360	4400	5070	4980	921
20	32	28	27	30	30	26	1110	3370	4390	4990	4950	438
21	32	28	28	31	29	26	1060	3390	4390	5040	4890	488
22	36	29	28	31	29	26	1030	3370	4400	5230	4830	494
23	34	29	27	30	29	25	1040	3250	4400	5010	4790	531
24	31	29	29	31	30	24	1300	2980	4390	6690	4750	588
25	30	29	28	31	30	23	1990	2940	4370	7400	4720	594
26	29	29	27	31	28	24	2180	2940	4480	7360	4590	583
27	28	29	27	32	27	30	2450	3140	4460	7460	4490	488
28	27	28	27	32	27	29	2450	3670	4470	7450	4460	348
29	27	28	28	32	27	36	2450	3850	4320	7420	4480	336
30	27	28	28	31	---	37	2590	3840	4420	7380	4300	334
31	28	---	28	32	---	37	---	3930	---	5840	4090	---
TOTAL	1896	833	861	934	870	852	24928	98040	125220	159207	148700	59513
MEAN	61.2	27.8	27.8	30.1	30.0	27.5	831	3163	4174	5136	4797	1984
MAX	552	29	29	32	32	37	2590	3930	4480	7460	5040	4060
MIN	27	26	26	27	27	23	33	2620	3810	475	4090	334
AC-FT	3760	1650	1710	1850	1730	1690	49440	194500	248400	315800	294900	118000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

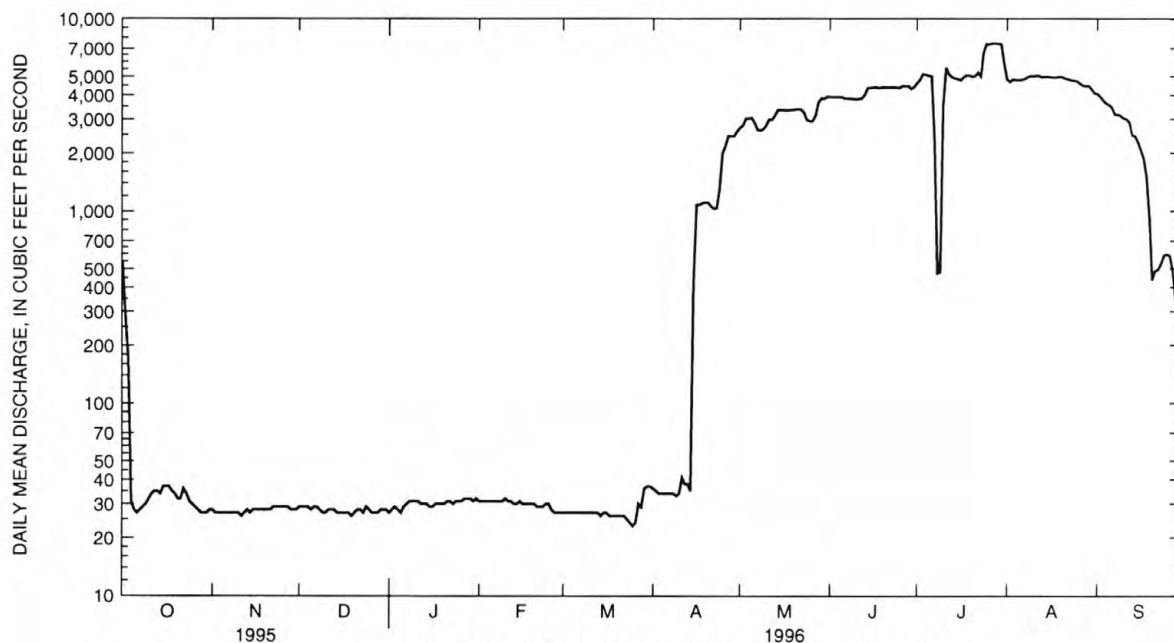
	MEAN	71.2	30.6	15.7	13.5	108	469	1106	2151	2712	4855	4953	2544
MAX	951	857	324	173	1054	3837	3868	4688	8916	8681	8923	6027	
(WY)	1987	1987	1959	1963	1984	1974	1974	1984	1973	1983	1983	1983	
MIN	1.51	1.09	1.00	1.30	1.33	1.58	203	15.4	66.1	3104	3871	906	
(WY)	1992	1991	1991	1992	1990	1990	1960	1990	1962	1962	1977	1961	

PLATTE RIVER BASIN

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06652800 NORTH PLATTE RIVER BELOW GLEND0 RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	493886		621854		--	
ANNUAL MEAN	1353		1699		1597	
HIGHEST ANNUAL MEAN	--		--		3126	1984
LOWEST ANNUAL MEAN	--		--		920	1961
HIGHEST DAILY MEAN	7770	Jul 29	7460	Jul 27	10300	Jun 30 1984
LOWEST DAILY MEAN	23	Jan 1	23	Mar 25	.41	Oct 17 1977
ANNUAL SEVEN-DAY MINIMUM	24	Jan 1	25	Mar 20	.64	Dec 20 1990
INSTANTANEOUS PEAK FLOW	--		7520	Jul 24	10300	Jun 29 1984
INSTANTANEOUS PEAK STAGE	--		9.99	Jul 24	11.16	Jun 29 1984
ANNUAL RUNOFF (AC-FT)	979600		1233000		1157000	
10 PERCENT EXCEEDS	4740		4890		4900	
50 PERCENT EXCEEDS	40		35		199	
90 PERCENT EXCEEDS	27		27		2.0	



06652800 NORTH PLATTE RIVER BELOW GLEND0 RESERVOIR, WY

06653300 HORSESHOE CREEK NEAR CASSA. WY

LOCATION.--Lat 42°27'57", long 105°04'22", SE 1/4 NW 1/4 SE 1/4 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 September 1996 (discontinued). 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.--Estimated daily discharges: Dec. 21, 22, Jan. 17, 24-30, Feb. 1, 2, and Mar. 7. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	26	39	20	11	16	30	172	116	28	18	5.7
2	11	24	38	19	12	17	33	164	103	26	18	5.3
3	11	20	37	22	13	16	39	155	98	23	18	5.1
4	11	22	33	20	13	17	43	138	98	24	18	5.2
5	12	23	32	15	16	16	42	128	86	24	18	5.2
6	15	24	32	17	18	13	40	124	70	23	18	5.8
7	17	25	29	22	19	12	40	123	70	22	16	5.8
8	18	24	29	21	17	13	48	114	68	22	11	5.1
9	17	26	24	20	17	16	47	114	60	22	8.5	4.7
10	17	36	26	20	20	15	53	129	62	22	8.3	4.3
11	15	35	37	20	19	17	60	117	64	19	7.7	4.3
12	14	32	36	20	19	19	78	110	63	19	7.4	4.2
13	13	36	35	19	19	22	93	102	65	19	7.3	4.4
14	13	38	35	19	18	22	89	99	54	20	6.9	4.3
15	13	41	30	20	19	21	106	96	52	19	7.8	22
16	13	42	30	20	16	20	150	97	55	18	8.7	11
17	12	43	29	17	18	21	200	93	54	17	8.0	8.8
18	11	43	27	14	18	21	185	90	53	16	7.8	7.5
19	11	43	22	19	19	19	172	86	50	14	7.7	7.3
20	12	43	21	20	19	17	160	83	45	14	7.6	6.8
21	12	40	20	18	19	16	163	79	47	14	6.5	6.4
22	15	40	20	18	20	21	146	71	57	14	5.5	5.9
23	18	39	20	15	20	22	162	71	53	13	8.0	5.8
24	16	37	24	15	18	19	205	77	46	13	10	5.7
25	17	36	25	14	18	17	200	70	43	13	8.4	5.5
26	19	36	22	13	18	18	178	78	40	13	6.9	6.1
27	21	38	22	14	12	23	163	178	37	13	6.7	6.9
28	24	35	21	14	13	22	170	220	33	13	6.8	6.8
29	24	37	20	13	14	24	170	188	30	15	6.7	6.2
30	24	39	22	12	---	27	188	155	29	15	6.7	6.4
31	25	---	20	12	---	29	---	137	---	18	6.3	---
TOTAL	479.7	1023	857	542	492	588	3453	3658	1801	565	307.2	194.5
MEAN	15.5	34.1	27.6	17.5	17.0	19.0	115	118	60.0	18.2	9.91	6.48
MAX	25	43	39	22	20	29	205	220	116	28	18	22
MIN	8.7	20	20	12	11	12	30	70	29	13	5.5	4.2
AC-FT	951	2030	1700	1080	976	1170	6850	7260	3570	1120	609	388

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

MEAN	6.25	8.13	7.15	5.89	6.38	10.5	49.1	144	139	26.9	8.89	5.09
MAX	25.9	34.1	27.6	17.5	17.0	21.7	131	459	434	101	21.4	14.3
(WY)	1966	1996	1996	1996	1996	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

PLATTE RIVER BASIN

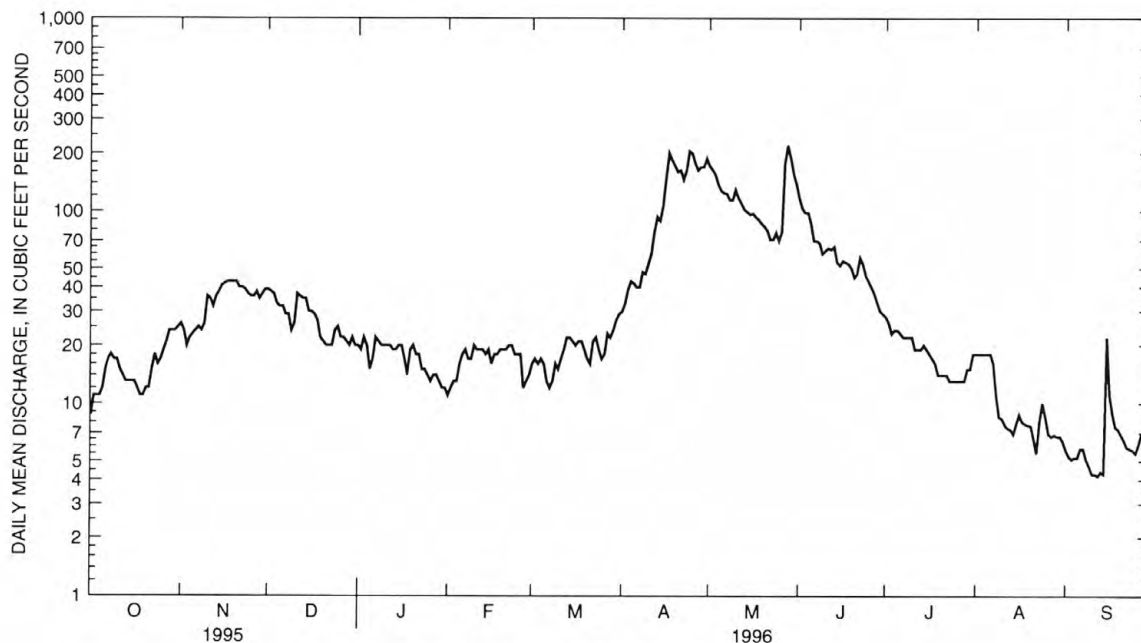
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06653300 HORSESHOE CREEK NEAR CASSA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1962 - 1996
ANNUAL TOTAL	32958.7	13960.4	--
ANNUAL MEAN	90.3	38.1	34.8
HIGHEST ANNUAL MEAN	--	--	85.0
LOWEST ANNUAL MEAN	--	--	5.51
HIGHEST DAILY MEAN	1310 Jun 8	220 May 28	2790 May 15 1965
LOWEST DAILY MEAN	1.7 Mar 19	4.2 Sep 12	.00 Aug 18 1966
ANNUAL SEVEN-DAY MINIMUM	1.8 Mar 17	4.5 Sep 8	.00 Sep 18 1966
INSTANTANEOUS PEAK FLOW	--	236 May 28	7850 ^a Jun 14 1965
INSTANTANEOUS PEAK STAGE	--	3.19 May 28	8.42 ^b Jun 14 1965
ANNUAL RUNOFF (AC-FT)	65370	27690	25210
10 PERCENT EXCEEDS	368	100	72
50 PERCENT EXCEEDS	18	20	8.9
90 PERCENT EXCEEDS	4.3	7.4	1.7

a From rating curve extended above 1,190 ft³/s on basis of slope-conveyance study.

b Site and datum then in use.



06653300 HORSESHOE CREEK NEAR CASSA, WY

06653500 HORSESHOE CREEK NEAR GLEND, 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 September 1996 (discontinued). 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. 8-10, 22-24, 26-30, Jan. 2-3, 5-8, 17-21, Jan. 23 to Feb. 6, Feb. 28, 29, and Mar. 6-8, 24-27. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	27	30	16	17	16	31	149	105	20	9.9	4.7
2	2.4	27	29	17	16	17	33	139	97	13	9.1	4.6
3	2.9	24	28	20	15	14	36	134	92	8.1	9.3	4.4
4	2.6	22	26	22	16	14	41	124	90	2.4	8.7	4.1
5	2.9	22	26	20	18	13	42	117	79	2.5	8.4	3.9
6	3.2	22	27	16	19	11	40	111	58	3.0	8.3	4.5
7	6.8	24	25	17	20	13	39	96	52	3.6	8.4	4.5
8	8.6	25	23	18	23	15	44	91	52	4.4	8.5	4.3
9	8.7	25	22	19	18	16	45	89	48	5.8	8.3	3.8
10	8.7	27	27	21	17	15	48	99	47	6.0	7.6	3.4
11	7.2	28	33	23	18	14	56	90	53	6.0	7.1	3.4
12	6.4	26	37	22	19	16	70	83	58	5.7	7.0	3.6
13	5.2	28	37	21	19	20	81	75	65	5.6	6.7	3.8
14	4.7	30	38	20	20	22	85	71	57	5.9	6.3	3.9
15	4.5	31	34	20	20	22	90	68	53	6.5	7.0	4.0
16	6.2	37	32	20	19	20	109	63	54	7.2	7.0	4.2
17	7.3	37	32	19	18	23	134	59	54	7.3	5.8	4.5
18	14	36	30	17	20	24	131	59	51	6.7	5.3	4.6
19	15	34	25	15	22	22	129	60	50	6.3	5.1	4.2
20	14	36	25	18	23	19	125	58	49	6.3	5.3	3.9
21	13	32	24	20	23	15	126	53	49	6.2	4.9	4.0
22	17	28	22	21	24	22	121	48	57	6.1	4.9	3.9
23	21	28	20	19	25	24	127	47	54	6.3	5.5	3.8
24	20	25	21	22	25	23	149	50	51	6.9	5.2	3.8
25	21	24	22	20	22	17	159	50	49	6.7	5.3	3.8
26	18	24	24	17	24	18	162	58	47	5.2	5.1	4.1
27	15	27	25	20	19	19	147	110	46	5.0	5.3	4.2
28	19	27	27	18	17	21	148	162	42	5.1	5.5	3.8
29	21	25	22	17	15	22	146	144	33	5.3	5.9	3.7
30	21	28	18	16	---	26	155	125	29	5.5	5.9	3.5
31	25	---	16	16	---	29	---	115	---	8.1	5.7	---
TOTAL	344.6	836	827	587	571	582	2849	2797	1721	198.7	208.3	120.9
MEAN	11.1	27.9	26.7	18.9	19.7	18.8	95.0	90.2	57.4	6.41	6.72	4.03
MAX	25	37	38	23	25	29	162	162	105	20	9.9	4.7
MIN	2.3	22	16	15	15	11	31	47	29	2.4	4.9	3.4
AC-FT	684	1660	1640	1160	1130	1150	5650	5550	3410	394	413	240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

	5.79	6.79	6.53	5.94	6.32	9.67	54.7	130	91.0	17.5	5.55	4.66
MEAN	5.79	6.79	6.53	5.94	6.32	9.67	54.7	130	91.0	17.5	5.55	4.66
MAX	29.7	27.9	26.7	18.9	19.7	25.3	185	455	405	104	23.3	16.6
(WY)	1966	1996	1996	1996	1996	1993	1924	1917	1965	1967	1967	1938
MIN	1.00	1.00	1.23	1.15	.98	1.48	.020	1.56	1.10	.52	.000	.000
(WY)	1922	1922	1990	1990	1990	1990	1935	1954	1940	1918	1918	1918

PLATTE RIVER BASIN

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06653500 HORSESHOE CREEK NEAR GLENDO, WY--Continued

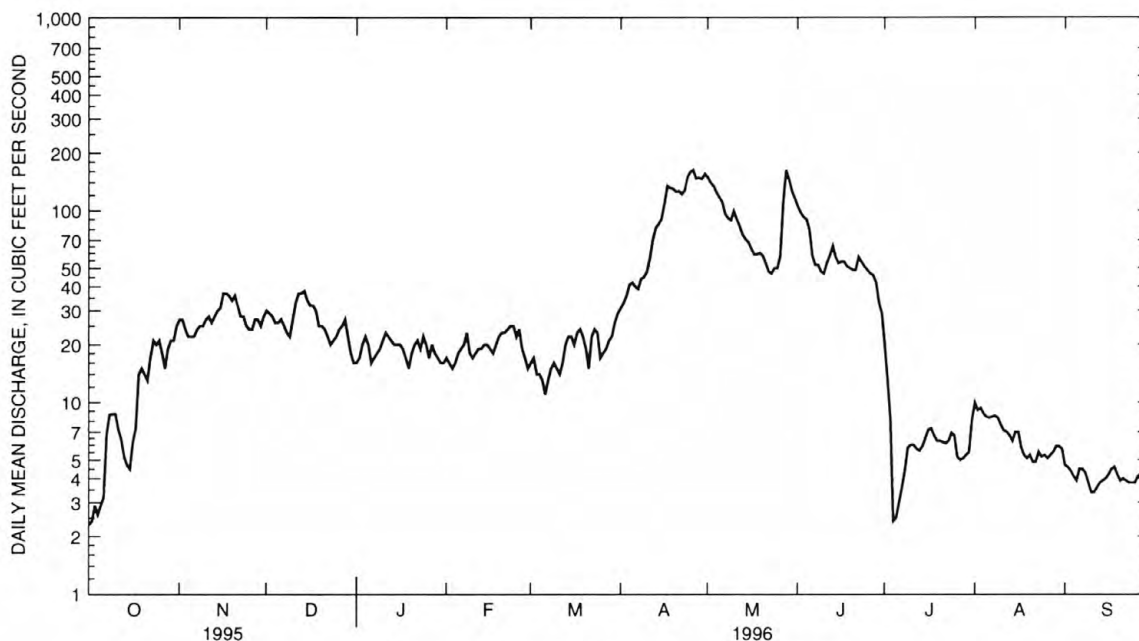
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1916 - 1996
ANNUAL TOTAL	28660.4	11642.5	--
ANNUAL MEAN	78.5	31.8	28.8
HIGHEST ANNUAL MEAN	--	--	84.2
LOWEST ANNUAL MEAN	--	--	2.11
HIGHEST DAILY MEAN	1140 May 28	162 Apr 26, May 28	3000 May 15 1965
LOWEST DAILY MEAN	1.6 Apr 12	2.3 Oct 1	.00 Jul 9 1918
ANNUAL SEVEN-DAY MINIMUM	1.8 Apr 9	3.3 Oct 1	.00 Jul 9 1918
INSTANTANEOUS PEAK FLOW	--	170 ^a Apr 25	11900 ^b May 30 1935
INSTANTANEOUS PEAK STAGE	--	4.26 ^c Mar 25	8.80 ^d May 30 1935
ANNUAL RUNOFF (AC-FT)	56850	23090	20880
10 PERCENT EXCEEDS	282	86	75
50 PERCENT EXCEEDS	6.3	20	5.8
90 PERCENT EXCEEDS	2.6	4.5	1.9

a Gage height, 4.06 ft.

b From rating curve extended above 750 ft³/s on basis of slope-area measurement of peak flow.

c Backwater from ice.

d From floodmarks, present site and datum.



06653500 HORSESHOE CREEK NEAR GLENDO, WY

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 probably is non-contributing.

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, 37,800 acre-ft, June 3, elevation, 4,416.58 ft; minimum daily contents, 2,540 acre-ft, Oct. 7, elevation, 4,389.54 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 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9480	6230	10900	15000	18300	21400	25300	32500	37100	35300	35400	33300
2	8410	6380	11000	15000	18400	21500	25500	32800	37500	34200	35100	33500
3	7240	6530	11100	15200	18500	21600	25600	33100	37800	33400	34800	33700
4	5810	6700	11300	15300	18500	21700	25700	33500	37700	32800	34500	34200
5	4110	6690	11500	15400	18600	21800	25800	33700	37700	32300	34200	34300
6	2830	6910	11600	15500	18700	21900	26000	34100	37500	31500	33900	34400
7	2540	7070	11900	15700	18900	22000	26000	33700	37300	27800	33600	34400
8	2730	7270	11900	15700	19000	22100	26300	33200	37200	18200	33300	34300
9	2910	7430	11900	15900	19200	22200	26400	32800	37100	8770	33100	34100
10	3080	7560	12100	16000	19300	22400	26400	32400	36800	1280	32900	33800
11	3250	7720	12200	16200	19400	22500	26800	32300	36900	1640	32800	33500
12	3400	7900	12400	16300	19500	22600	26500	32200	37000	2230	32700	33300
13	3540	8070	12500	16400	19700	22700	26500	31900	36900	1940	32500	33100
14	3670	8230	12700	16500	19800	22800	26000	31900	36900	1780	32300	30600
15	3810	8390	12900	16700	19900	22900	24600	31900	36900	1430	32200	29500
16	3950	8550	13000	16800	20000	23100	24500	31800	37100	946	32100	28300
17	4070	8710	13200	16900	20100	23300	24800	31800	37300	573	32000	27000
18	4240	8870	13300	16900	20200	23500	25000	31900	37300	578	31900	25700
19	4320	9050	13400	17000	20300	23500	25300	31900	37300	764	31800	23900
20	4430	9190	13500	17200	20400	23600	25800	32000	37300	752	31800	22400
21	4580	9360	13600	17200	20500	23700	26100	32200	37200	476	31800	20700
22	4770	9520	13800	17300	20600	23800	26400	32600	37400	621	31900	19200
23	4920	9720	13900	17500	20700	24300	26600	33200	37400	1230	32000	17600
24	5070	9840	14000	17500	20800	24200	26700	33500	37300	3360	32100	16300
25	5200	9970	14100	17600	20900	24200	26700	33600	37300	8900	32100	14300
26	5360	10200	14200	17800	21000	24400	27300	34200	37400	13700	32200	12300
27	5480	10300	14400	17900	21100	24600	28400	34700	37600	18500	32300	10100
28	5630	10400	14500	17900	21200	24600	29500	35400	37700	23300	32400	8020
29	5750	10600	14600	18000	21300	24800	30500	35900	37300	27200	32600	5800
30	5910	10700	14700	18100	---	25000	31500	36300	36100	31700	32800	3900
31	6100	---	14800	18200	---	25100	---	36700	---	35100	33000	---
MAX	9480	10700	14800	18200	21300	25100	31500	36700	37800	35300	35400	34400
MIN	2540	6230	10900	15000	18300	21400	24500	31800	36100	476	31800	3900
(#)	4,396.03	4,400.94	4,404.19	4,406.45	4,408.29	4,410.41	4,413.65	4,416.09	4,415.83	4,415.34	4,414.38	4,392.58
(*)	-3,450	+4,600	+4,100	+3,400	+3,100	+3,800	+6,400	+5,200	-600	-1,000	-2,100	-29,100
CAL YR 1995	MAX	42100	MIN	2540	(*)	+3700						
WTR YR 1996	MAX	37800	MIN	2540	(*)	-5650						

(#) 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 SE¹/₄ SE¹/₄ 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 probably is 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. 6-10, Jan 4-7, 18-22, 26, Jan. 29 to Feb. 5, and Mar. 24-27. 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 station 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. Bureau of Reclamation data collection platform with satellite telemetry at station.

COOPERATION.--Twenty-four discharge measurements provided by the Bureau of Reclamation and one discharge measurement provided by Office of the Wyoming State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	6.5	2.5	8.3	9.1	6.5	4.6	2470	3950	4980	4920	3980
2	864	6.8	2.3	7.8	8.9	6.9	4.6	2810	3940	5230	4900	3830
3	857	6.4	2.2	8.2	8.8	6.9	3.8	3060	4020	5420	4910	3690
4	869	5.5	2.7	8.0	9.6	6.9	4.1	3070	4110	5400	4920	3650
5	901	5.2	2.9	7.4	11	6.6	4.2	3050	4120	5380	4910	3590
6	700	4.5	2.7	7.1	12	6.9	4.2	3060	4120	5350	4950	3480
7	242	4.2	2.4	7.5	15	6.6	4.0	3070	4100	5340	4990	3340
8	7.0	4.4	2.2	8.0	13	6.3	4.1	3070	4030	5330	5050	3350
9	5.6	4.4	2.2	8.3	13	6.5	4.6	3080	4010	5330	5080	3310
10	5.1	3.8	2.8	8.6	10	6.9	10	3150	4010	5270	5070	3210
11	10	4.0	4.5	8.3	9.9	6.9	87	3230	3960	5290	5100	3180
12	14	4.2	4.2	8.3	11	6.9	209	3220	3880	5180	5120	3180
13	12	4.2	4.6	9.3	11	6.6	217	3380	4090	5090	5120	3180
14	12	4.0	4.2	9.9	11	6.3	337	3570	4420	5040	5100	3160
15	12	4.1	5.0	9.9	11	6.6	841	3560	4430	4990	5080	2990
16	12	4.0	5.6	9.6	11	6.3	1090	3550	4430	4990	5040	2790
17	11	3.8	5.7	7.1	11	6.1	1070	3560	4450	4860	5030	2680
18	10	3.8	5.9	6.7	10	5.4	1090	3500	4420	4900	5040	2400
19	8.9	3.8	6.3	6.3	10	5.1	1090	3480	4410	4950	5040	1940
20	9.7	3.8	6.9	7.0	9.9	5.5	1080	3500	4410	4920	4980	1360
21	9.8	3.8	6.9	9.0	9.5	5.1	1050	3420	4430	4910	4910	1310
22	9.8	3.8	6.9	10	9.3	5.3	1040	3340	4440	4960	4830	1300
23	8.4	3.8	7.2	11	9.0	4.1	1040	3270	4430	4940	4780	1260
24	9.1	3.8	7.5	11	8.6	3.9	1350	3080	4420	4930	4740	1200
25	9.0	3.7	8.2	11	8.7	3.7	2000	3070	4410	4980	4740	1590
26	8.3	3.1	8.3	9.8	8.3	3.7	2010	3050	4390	5000	4590	1610
27	7.3	2.5	8.3	11	7.6	4.0	2150	3040	4410	5010	4470	1600
28	7.2	2.7	8.3	12	7.5	4.2	2160	3530	4450	5030	4350	1420
29	7.4	2.8	8.3	11	7.5	4.5	2140	3920	4600	5010	4380	1340
30	6.9	2.9	8.3	9.9	---	4.7	2290	3940	4870	5020	4200	1240
31	7.1	---	8.3	9.4	---	4.7	---	3940	---	5020	4010	---
TOTAL	5489.6	124.3	164.3	276.7	292.2	176.6	24389.2	102040	128160	158050	150350	76160
MEAN	177	4.14	5.30	8.93	10.1	5.70	813	3292	4272	5098	4850	2539
MAX	901	6.8	8.3	12	15	6.9	2290	3940	4870	5420	5120	3980
MIN	5.1	2.5	2.2	6.3	7.5	3.7	3.8	2470	3880	4860	4010	1200
AC-FT	10890	247	326	549	580	350	48380	202400	254200	313500	298200	151100

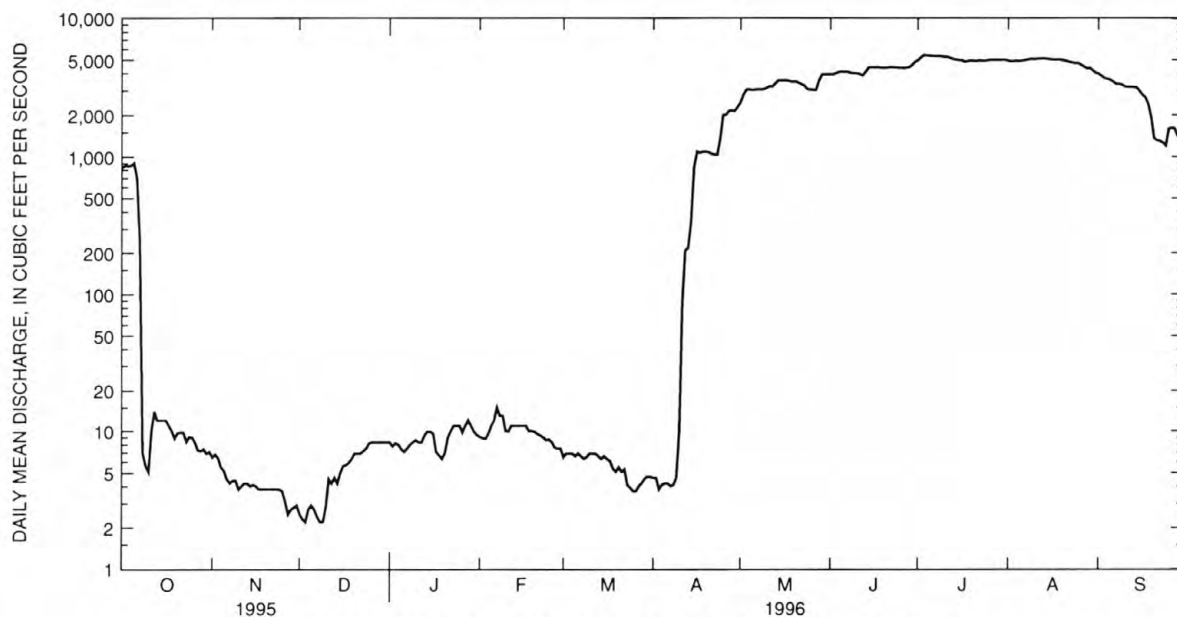
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1901	544	5690	1913	2.42	1990
1902	246	2610	1913	1.40	1976
1903	178	1000	1907	1.35	1963
1904	164	800	1907	1.38	1990
1905	204	900	1907	1.27	1991
1906	450	3837	1974	1.24	1991
1907	1140	5680	1924	11.5	1957
1908	2945	8585	1901	7.15	1990
1909	4214	15380	1917	413	1982
1910	4749	9896	1917	1304	1902
1911	4208	9035	1983	400	1902
1912	2657	6518	1983	196	1902

PLATTE RIVER BASIN

06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1901 - 1996	
ANNUAL TOTAL	529723.0		645672.9		--	
ANNUAL MEAN	1451		1764		1819	
HIGHEST ANNUAL MEAN	--		--		3556	
LOWEST ANNUAL MEAN	--		--		832	
HIGHEST DAILY MEAN	5430	May 29	5420	Jul 3	30000	Jun 3 1908
LOWEST DAILY MEAN	2.2	Dec 3	2.2	Dec 3	.00	Feb 28 1927
ANNUAL SEVEN-DAY MINIMUM	2.5	Dec 3	2.5	Dec 3, 8, 9	.00	Nov 19 1951
INSTANTANEOUS PEAK FLOW	--	--	5500	Jul 3	30000	Jun 2 1908
INSTANTANEOUS PEAK STAGE	--	--	6.31	Jul 3	11.50	Jun 2 1908
ANNUAL RUNOFF (AC-FT)	1051000		1281000		1318000	
10 PERCENT EXCEEDS	4740		4980		4950	
50 PERCENT EXCEEDS	10		13		735	
90 PERCENT EXCEEDS	4.2		4.2		4.4	



06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WY

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MEAN	194	99.3	64.2	56.9	83.5	251	450	1243	1979	1850	1407	696
MAX	1389	1130	405	494	604	3885	5410	6175	14360	8330	5465	3976
(WY)	1918	1987	1930	1927	1930	1974	1924	1924	1917	1917	1983	1983
MIN	4.20	.71	.30	.24	.012	.000	2.83	13.6	126	559	86.6	43.8
(WY)	1967	1967	1967	1962	1967	1976	1954	1990	1982	1934	1934	1934

06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY--Continued

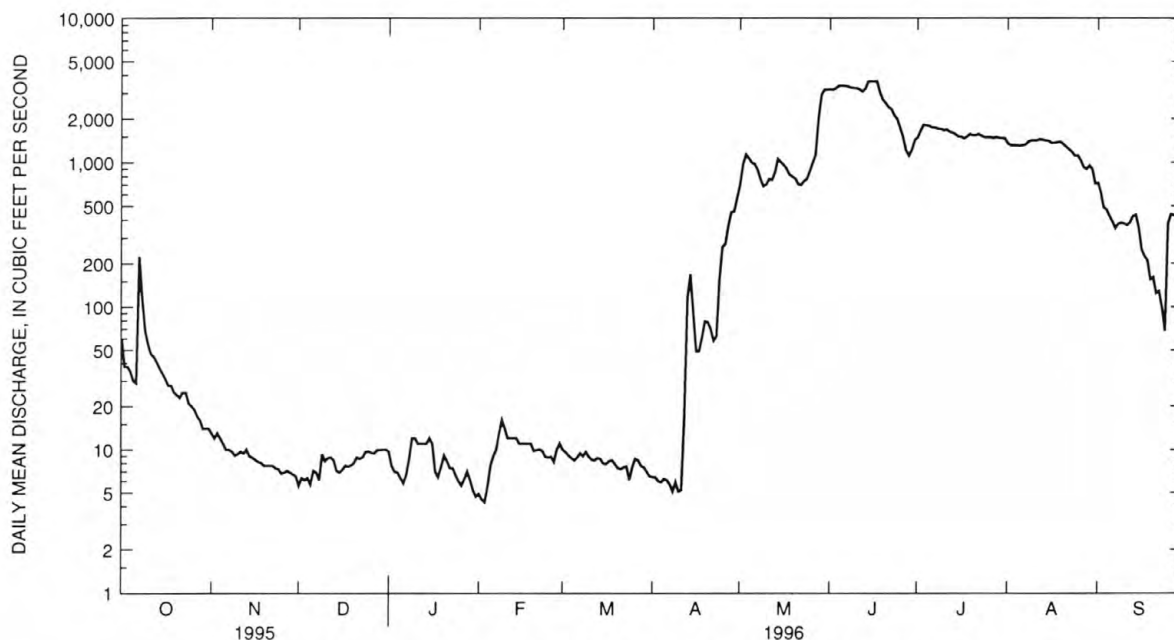
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1917 - 1996*
ANNUAL TOTAL	202180.9	220939.9	--
ANNUAL MEAN	554	604	701
HIGHEST ANNUAL MEAN	--	--	2992 1917
LOWEST ANNUAL MEAN	--	--	178 1954
HIGHEST DAILY MEAN	4100 May 28	3630 Jun 17	19500 Jun 28 1917
LOWEST DAILY MEAN	5.1 Apr 10	4.3 Feb 3	.00 Many days, Several years#
ANNUAL SEVEN-DAY MINIMUM	5.7 Apr 5	5.0 Jan 29	.00 Jan 8 1962
INSTANTANEOUS PEAK FLOW	--	3670 Jun 17	22000 ^a Jun 26 1955#
INSTANTANEOUS PEAK STAGE	--	8.01 Jun 17	9.85 ^b Jun 26 1955#
ANNUAL RUNOFF (AC-FT)	401000	438200	508100
10 PERCENT EXCEEDS	1480	1690	1840
50 PERCENT EXCEEDS	20	34	143
90 PERCENT EXCEEDS	7.4	6.8	3.6

* Period prior to 1917 water year not used in computations, monthly and seasonal only.

For period of record through 1996.

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.



06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY

LOCATION.--River: Lat 41°08'17", long 105°58'49", in NW¹/₄ SE¹/₄ 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 SE¹/₄ NE¹/₄ 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 for river since 1972; no winter records for canal 1972 to 1995). 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.--No estimated daily discharges. 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. National Weather Service, in cooperation with State of Wyoming, has data collection platform with satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	81	164	942	616	88	37
2	---	---	---	---	---	---	101	166	910	570	77	34
3	---	---	---	---	---	---	121	179	932	550	77	32
4	---	---	---	---	---	---	103	196	1010	530	89	31
5	---	---	---	---	---	---	88	221	1090	522	78	30
6	---	---	---	---	---	---	81	280	1210	516	73	30
7	---	---	---	---	---	---	95	335	1210	504	65	33
8	---	---	---	---	---	---	100	371	1180	462	60	35
9	---	---	---	---	---	---	137	455	1220	446	57	33
10	---	---	---	---	---	---	185	487	1260	437	57	31
11	---	---	---	---	---	---	230	482	1300	373	54	30
12	---	---	---	---	---	---	192	580	1320	331	53	29
13	---	---	---	---	---	---	179	698	1300	265	50	34
14	---	---	---	---	---	---	148	885	1300	173	49	37
15	---	---	---	---	---	---	134	1050	1250	150	51	39
16	---	---	---	---	---	---	142	1180	1460	142	53	38
17	---	---	---	---	---	---	148	1400	1230	140	60	35
18	---	---	---	---	---	---	145	1520	1120	135	52	34
19	---	---	---	---	---	---	139	1720	1060	148	49	35
20	---	---	---	---	---	---	122	1550	1000	136	51	41
21	---	---	---	---	---	---	119	1320	1070	114	50	41
22	---	---	---	---	---	---	111	1160	1270	101	50	42
23	---	---	---	---	---	---	108	1090	1230	91	49	46
24	---	---	---	---	---	---	124	1050	1010	93	44	51
25	---	---	---	---	---	---	210	1070	858	93	43	73
26	---	---	---	---	---	---	228	1160	791	87	41	132
27	---	---	---	---	---	---	214	1210	800	87	40	103
28	---	---	---	---	---	---	196	1090	841	84	42	84
29	---	---	---	---	---	---	162	968	766	91	42	83
30	---	---	---	---	---	---	176	945	658	194	40	98
31	---	---	---	---	---	---	---	916	---	125	39	---
TOTAL	---	---	---	---	---	---	4318	25898	32598	8306	1723	1431
MEAN	---	---	---	---	---	---	144	835	1087	268	55.6	47.7
MAX	---	---	---	---	---	---	230	1720	1460	616	89	132
MIN	---	---	---	---	---	---	81	164	658	84	39	29
AC-FT	---	---	---	---	---	---	8560	51370	64660	16470	3420	2840

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

PLATTE RIVER BASIN

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY--Continued

SUMMARY STATISTICS

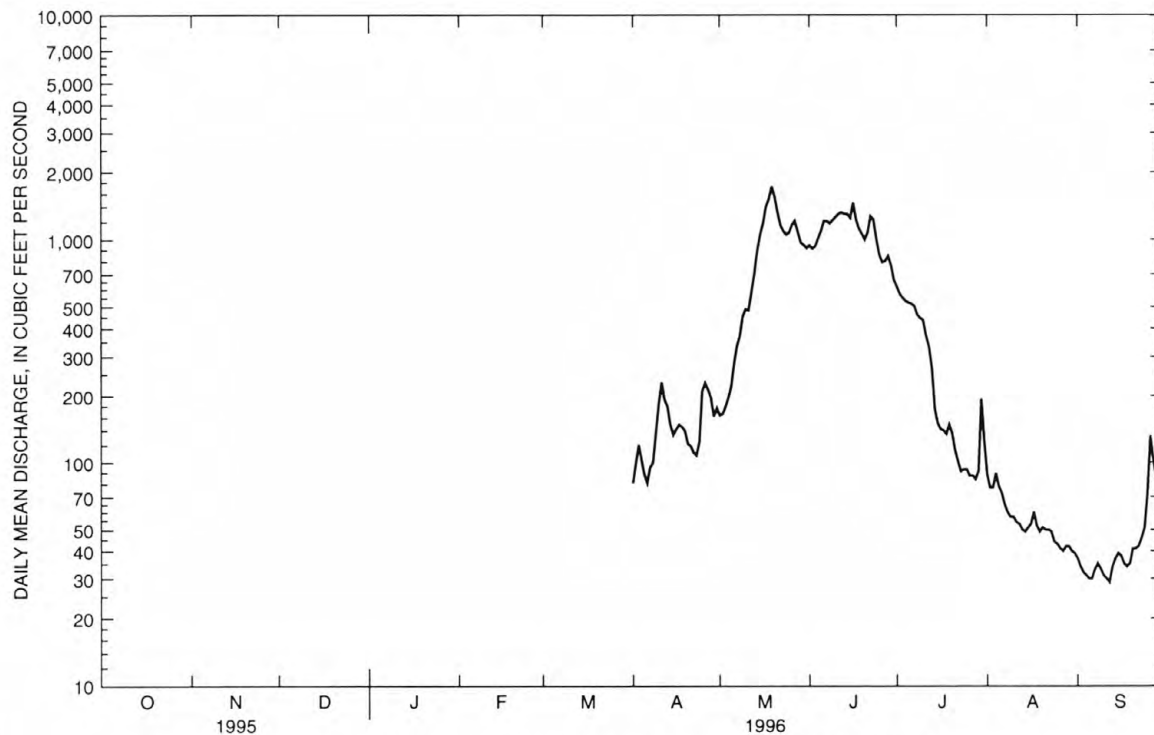
FOR 1996 WATER YEAR*

WATER YEARS 1912 - 1971

ANNUAL MEAN	--		171	
HIGHEST ANNUAL MEAN	--		319	1957
LOWEST ANNUAL MEAN	--		64.9	1934
HIGHEST DAILY MEAN	1720	May 19	3320	Jun 14 1957
LOWEST DAILY MEAN	6.4	Sep 2	.00	May 1 1912
ANNUAL SEVEN-DAY MINIMUM	--		6.0	Oct 15 1913
INSTANTANEOUS PEAK FLOW	1860	May 19	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 1996.



06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY

PLATTE RIVER BASIN

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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 reddiverted 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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.8	12	66	10	2.6	.80
2	---	---	---	---	---	---	5.6	12	60	8.8	1.9	.65
3	---	---	---	---	---	---	6.1	12	65	8.2	1.9	.64
4	---	---	---	---	---	---	5.0	13	72	7.4	2.5	.52
5	---	---	---	---	---	---	4.4	15	79	6.6	2.6	.45
6	---	---	---	---	---	---	4.6	21	80	6.9	2.0	.45
7	---	---	---	---	---	---	5.9	24	70	6.4	1.7	.40
8	---	---	---	---	---	---	7.2	27	65	5.6	1.6	.41
9	---	---	---	---	---	---	10	30	61	5.8	1.4	.47
10	---	---	---	---	---	---	11	32	54	8.0	1.3	.45
11	---	---	---	---	---	---	15	32	45	6.4	1.2	.39
12	---	---	---	---	---	---	11	36	41	5.1	1.0	.47
13	---	---	---	---	---	---	11	41	41	4.6	.89	.59
14	---	---	---	---	---	---	8.0	36	36	4.4	.75	.88
15	---	---	---	---	---	---	7.3	38	46	3.9	.76	1.1
16	---	---	---	---	---	---	8.4	38	73	3.5	.85	1.2
17	---	---	---	---	---	---	9.8	45	41	3.4	.86	.92
18	---	---	---	---	---	---	8.7	45	30	3.3	.86	.95
19	---	---	---	---	---	---	8.2	47	25	3.2	.89	1.0
20	---	---	---	---	---	---	7.1	43	22	3.1	.85	1.2
21	---	---	---	---	---	---	6.9	39	22	2.6	.79	1.2
22	---	---	---	---	---	---	6.4	34	33	2.0	1.0	1.3
23	---	---	---	---	---	---	6.6	35	30	1.9	.92	1.4
24	---	---	---	---	---	---	8.8	40	22	1.8	1.1	1.3
25	---	---	---	---	---	---	17	41	16	1.8	.89	2.0
26	---	---	---	---	---	---	15	43	13	2.0	.73	3.9
27	---	---	---	---	---	---	14	47	15	1.8	.69	3.6
28	---	---	---	---	---	---	14	52	19	1.6	.76	3.0
29	---	---	---	---	---	---	12	71	15	2.4	1.0	4.2
30	---	---	---	---	---	---	12	86	12	4.4	.86	3.7
31	---	---	---	---	---	---	---	76	---	4.0	.87	---
TOTAL	---	---	---	---	---	---	270.8	1163	1269	140.9	38.02	39.54
MEAN	---	---	---	---	---	---	9.03	37.5	42.3	4.55	1.23	1.32
MAX	---	---	---	---	---	---	17	86	80	10	2.6	4.2
MIN	---	---	---	---	---	---	3.8	12	12	1.6	.69	.39
AC-FT	---	---	---	---	---	---	537	2310	2520	279	75	78

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

PLATTE RIVER BASIN

06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1969 - 1971

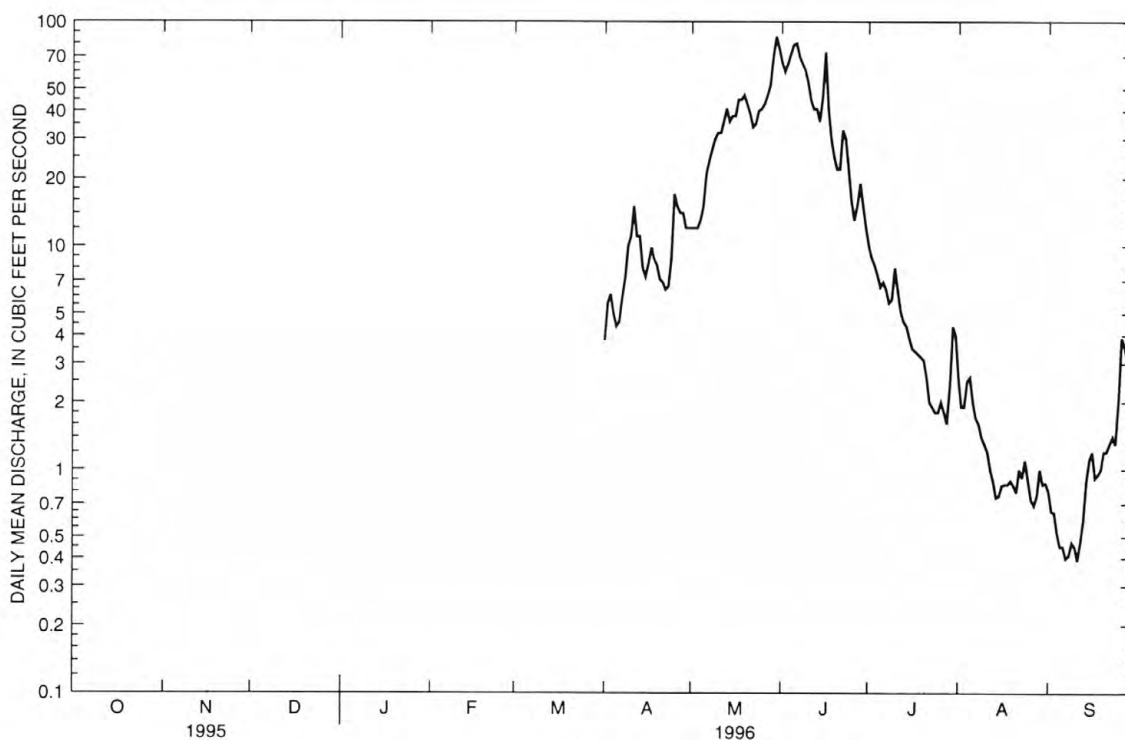
ANNUAL MEAN	--		12.7	
HIGHEST ANNUAL MEAN	--		18.0	1971
LOWEST ANNUAL MEAN	--		6.41	1969
HIGHEST DAILY MEAN	86	May 30	193	Jun 15 1970
LOWEST DAILY MEAN	.39	Sep 11	.13	Jul 26-28 1972#
ANNUAL SEVEN-DAY MINIMUM	--		.30	Sep 4 1969
INSTANTANEOUS PEAK FLOW	127	Jun 16	6710 ^a	Jul 19 1977#
INSTANTANEOUS PEAK STAGE	1.72	Jun 16	6.65 ^b	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 1996.

a From slope-area measurement of peak flow.

b From floodmarks.



06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE

PLATTE RIVER BASIN

301

06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WY

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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	40	46	387	258	52	24
2	---	---	---	---	---	---	42	52	392	247	48	21
3	---	---	---	---	---	---	40	46	449	232	53	21
4	---	---	---	---	---	---	36	43	561	223	82	19
5	---	---	---	---	---	---	37	46	727	237	62	19
6	---	---	---	---	---	---	39	53	887	245	50	22
7	---	---	---	---	---	---	41	64	825	208	47	23
8	---	---	---	---	---	---	43	64	785	182	43	22
9	---	---	---	---	---	---	49	76	801	182	42	21
10	---	---	---	---	---	---	54	91	846	193	40	20
11	---	---	---	---	---	---	61	86	867	155	36	20
12	---	---	---	---	---	---	54	123	782	144	35	36
13	---	---	---	---	---	---	51	187	770	138	35	51
14	---	---	---	---	---	---	48	262	697	125	33	36
15	---	---	---	---	---	---	46	343	598	119	34	35
16	---	---	---	---	---	---	44	411	505	115	33	29
17	---	---	---	---	---	---	44	549	522	134	31	28
18	---	---	---	---	---	---	43	627	518	118	30	30
19	---	---	---	---	---	---	41	650	507	115	36	30
20	---	---	---	---	---	---	43	497	492	100	43	31
21	---	---	---	---	---	---	44	414	596	85	36	31
22	---	---	---	---	---	---	45	393	677	75	35	30
23	---	---	---	---	---	---	48	394	511	71	34	34
24	---	---	---	---	---	---	45	405	425	69	32	35
25	---	---	---	---	---	---	60	548	379	66	29	41
26	---	---	---	---	---	---	55	561	350	63	27	41
27	---	---	---	---	---	---	51	481	366	60	30	39
28	---	---	---	---	---	---	47	401	358	57	33	35
29	---	---	---	---	---	---	43	361	311	64	28	33
30	---	---	---	---	---	---	44	386	275	76	29	31
31	---	---	---	---	---	---	---	376	---	58	28	---
TOTAL	---	---	---	---	---	---	1378	9036	17166	4214	1206	888
MEAN	---	---	---	---	---	---	45.9	291	572	136	38.9	29.6
MAX	---	---	---	---	---	---	61	650	887	258	82	51
MIN	---	---	---	---	---	---	36	43	275	57	27	19
AC-FT	---	---	---	---	---	---	2730	17920	34050	8360	2390	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1971, BY WATER YEAR (WY)

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

PLATTE RIVER BASIN

06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WY--Continued

SUMMARY STATISTICS

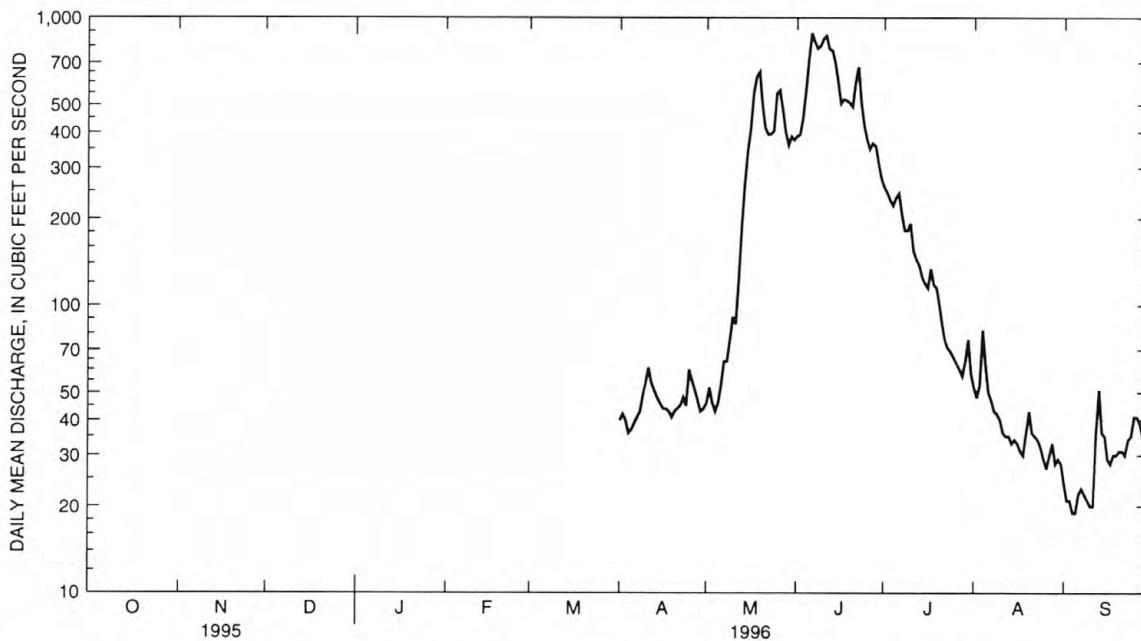
FOR 1996 WATER YEAR*

WATER YEARS 1903 - 1971

ANNUAL MEAN	--		103	
HIGHEST ANNUAL MEAN	--		184	1917
LOWEST ANNUAL MEAN	--		32.7	1934
HIGHEST DAILY MEAN	887	Jun 6	2400	Jun 1 1914
LOWEST DAILY MEAN	19	Sep 4,5	1.0	Sep 17-20 1913#
ANNUAL SEVEN-DAY MINIMUM	--		1.7	Sep 15 1913
INSTANTANEOUS PEAK FLOW	994	Jun 6	3450	Jun 10 1965#
INSTANTANEOUS PEAK STAGE	3.80	Jun 6	5.33	Jun 10 1965
ANNUAL RUNOFF (AC-FT)	--		74370	
10 PERCENT EXCEEDS	--		275	
50 PERCENT EXCEEDS	--		31	
90 PERCENT EXCEEDS	--		16	

* During period of operation.

For period of record through 1996.



06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WY

PLATTE RIVER BASIN

303

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 probably is 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: Oct. 1-4, 22-25, Nov. 2-8, 10, 11, Nov. 28 to Dec. 3, Dec. 5, Dec. 18 to Mar. 20, Mar. 24-30, and Aug. 27 to Sept. 1. Records good except those for periods of estimated daily discharges, 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. National Weather Service, in cooperation with State of Wyoming, has data collection platform with satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	138	120	78	41	62	134	152	820	373	56	13
2	67	110	140	68	38	68	132	147	706	314	78	11
3	80	100	130	74	40	74	130	142	631	286	70	12
4	86	110	134	70	46	80	132	131	620	298	69	10
5	92	130	110	64	54	78	137	122	607	318	64	11
6	86	140	101	66	64	70	136	110	581	340	54	9.4
7	81	150	80	72	76	66	133	110	598	348	58	9.3
8	80	170	49	84	86	68	132	107	665	340	51	8.2
9	78	149	93	96	98	78	130	115	753	326	43	8.0
10	76	120	102	92	92	100	133	138	815	322	39	6.3
11	76	82	104	90	88	120	147	154	835	314	36	5.9
12	77	135	120	94	92	140	202	171	842	316	32	8.0
13	74	137	155	100	98	130	244	181	856	296	29	7.7
14	73	129	85	110	94	120	231	200	853	262	28	12
15	71	139	78	120	86	120	228	249	841	231	28	19
16	76	143	102	110	92	130	243	297	815	191	28	21
17	82	138	89	100	100	120	236	322	741	162	27	17
18	79	137	88	74	110	110	207	306	650	144	27	17
19	79	130	92	76	100	94	195	359	610	141	25	22
20	76	123	90	78	92	110	187	438	558	136	24	22
21	77	117	86	82	94	119	176	521	440	122	24	24
22	72	116	78	72	90	109	168	562	416	110	28	24
23	49	114	70	58	86	112	161	588	436	101	24	21
24	50	111	74	52	90	78	149	555	513	89	24	21
25	60	109	84	47	96	72	134	531	551	82	30	27
26	96	102	80	44	86	76	127	591	494	74	23	28
27	140	90	76	48	74	90	142	789	382	68	20	35
28	139	86	80	56	66	110	165	981	366	63	19	42
29	143	96	84	62	58	120	159	1060	375	61	18	63
30	152	110	88	54	---	130	156	1030	392	57	17	67
31	133	---	86	47	---	143	---	921	---	61	15	---
TOTAL	2637	3661	2948	2338	2327	3097	4986	12080	18762	6346	1108	601.8
MEAN	85.1	122	95.1	75.4	80.2	99.9	166	390	625	205	35.7	20.1
MAX	152	170	155	120	110	143	244	1060	856	373	78	67
MIN	37	82	49	44	38	62	127	107	366	57	15	5.9
AC-FT	5230	7260	5850	4640	4620	6140	9890	23960	37210	12590	2200	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

MEAN	55.1	71.6	55.3	44.9	54.4	106	159	287	748	279	83.7	29.8
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

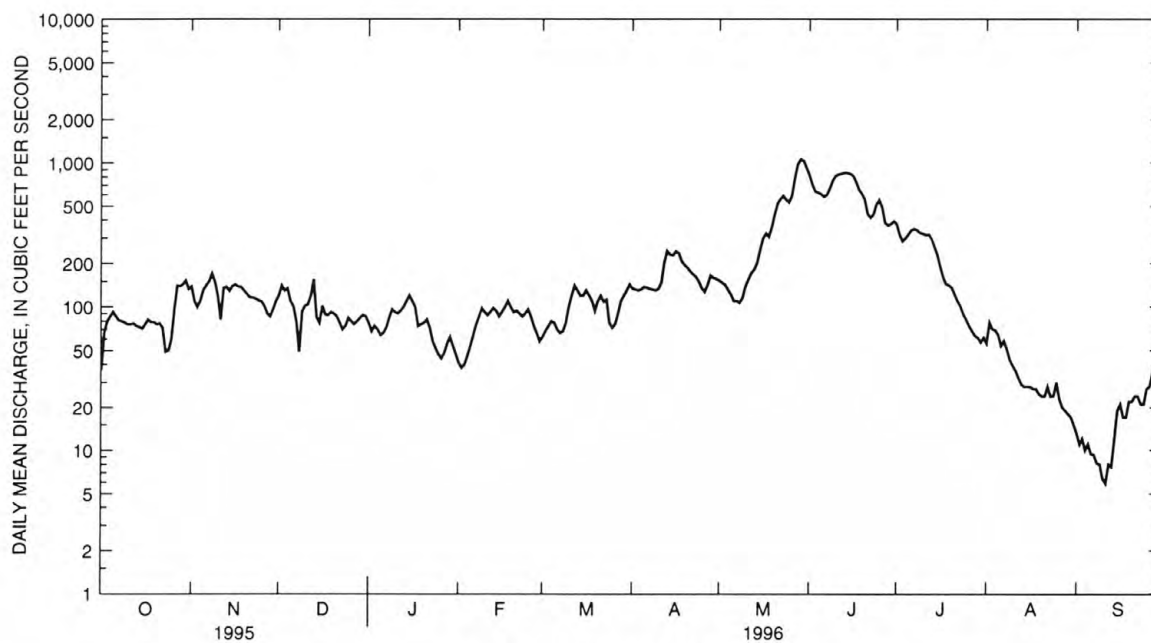
PLATTE RIVER BASIN

06661585 LARAMIE RIVER NEAR BOSLER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1973 - 1996	
ANNUAL TOTAL	69032.1		60891.8		--	
ANNUAL MEAN	189		166		164	
HIGHEST ANNUAL MEAN	--		--		475	
LOWEST ANNUAL MEAN	--		--		39.4	
HIGHEST DAILY MEAN	2340	Jun 21	1060	May 29	4390	Jun 28 1983
LOWEST DAILY MEAN	3.8	Jan 4	5.9	Sep 11	.00	Oct 10 1987
ANNUAL SEVEN-DAY MINIMUM	5.8	Jan 1	7.6	Sep 7	.03	Oct 9 1987
INSTANTANEOUS PEAK FLOW	--		1070	May 29	4480 ^a	Jun 11 1986
INSTANTANEOUS PEAK STAGE	--		4.38	May 29	8.40 ^b	Apr 22 1973
ANNUAL RUNOFF (AC-FT)	136900		120800		119000	
10 PERCENT EXCEEDS	505		437		381	
50 PERCENT EXCEEDS	57		97		61	
90 PERCENT EXCEEDS	12		27		13	

a Gage height, 7.39 ft.

b Ice jam.



06661585 LARAMIE RIVER NEAR BOSLER, WY

06662000 LARAMIE RIVER NEAR LOOKOUT, WY

LOCATION.--Lat 41°45'44", long 105°41'16", in NE¹/₄ NW¹/₄ SE¹/₄ 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.

DRAINAGE AREA.--2,174 mi², of which 603 mi² probably is noncontributing.

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 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.--No estimated daily discharges. 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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	149	164	967	370	81	21
2	---	---	---	---	---	---	144	155	868	339	80	18
3	---	---	---	---	---	---	140	149	756	301	105	19
4	---	---	---	---	---	---	140	142	705	294	104	16
5	---	---	---	---	---	---	146	133	690	310	95	14
6	---	---	---	---	---	---	147	117	673	335	87	12
7	---	---	---	---	---	---	143	110	660	357	80	10
8	---	---	---	---	---	---	136	108	695	367	82	11
9	---	---	---	---	---	---	133	105	754	365	77	10
10	---	---	---	---	---	---	132	119	828	350	69	9.9
11	---	---	---	---	---	---	153	137	833	337	64	9.8
12	---	---	---	---	---	---	188	157	821	330	59	7.8
13	---	---	---	---	---	---	275	184	822	336	50	10
14	---	---	---	---	---	---	292	187	842	312	39	14
15	---	---	---	---	---	---	257	238	828	277	37	14
16	---	---	---	---	---	---	280	288	819	245	39	13
17	---	---	---	---	---	---	278	339	768	207	34	12
18	---	---	---	---	---	---	261	330	687	183	32	14
19	---	---	---	---	---	---	238	351	606	169	32	15
20	---	---	---	---	---	---	219	424	584	158	31	13
21	---	---	---	---	---	---	206	510	491	141	29	13
22	---	---	---	---	---	---	192	568	427	123	28	16
23	---	---	---	---	---	---	177	598	407	131	29	19
24	---	---	---	---	---	---	167	605	437	134	29	20
25	---	---	---	---	---	---	142	576	494	115	28	18
26	---	---	---	---	---	---	126	591	507	104	31	15
27	---	---	---	---	---	---	132	682	429	93	28	15
28	---	---	---	---	---	---	161	870	356	93	25	19
29	---	---	---	---	---	---	174	997	346	90	23	24
30	---	---	---	---	---	---	165	1060	358	86	23	40
31	---	---	---	---	---	---	---	1060	---	81	23	---
TOTAL	---	---	---	---	---	---	5493	12054	19458	7133	1573	462.5
MEAN	---	---	---	---	---	---	183	389	649	230	50.7	15.4
MAX	---	---	---	---	---	---	292	1060	967	370	105	40
MIN	---	---	---	---	---	---	126	105	346	81	23	7.8
AC-FT	---	---	---	---	---	---	10900	23910	38590	14150	3120	917

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

PLATTE RIVER BASIN

06662000 LARAMIE RIVER NEAR LOOKOUT, WY--Continued

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
 ANNUAL RUNOFF (AC-FT)
 10 PERCENT EXCEEDS
 50 PERCENT EXCEEDS
 90 PERCENT EXCEEDS

FOR 1996 WATER YEAR**

--
 --
 --
 1060 May 30,31
 7.8 Sep 12
 --
 1080 May 31
 3.89 May 31
 --
 --
 --
 --

WATER YEARS 1912 - 1972*

122
 401
 15.9
 3130 Jun 17 1957
 .00 Jul 15 1934
 .00 Jul 15 1934
 4380^a Jun 29 1983#
 8.0^b 1973#
 88600
 299
 47
 6.5

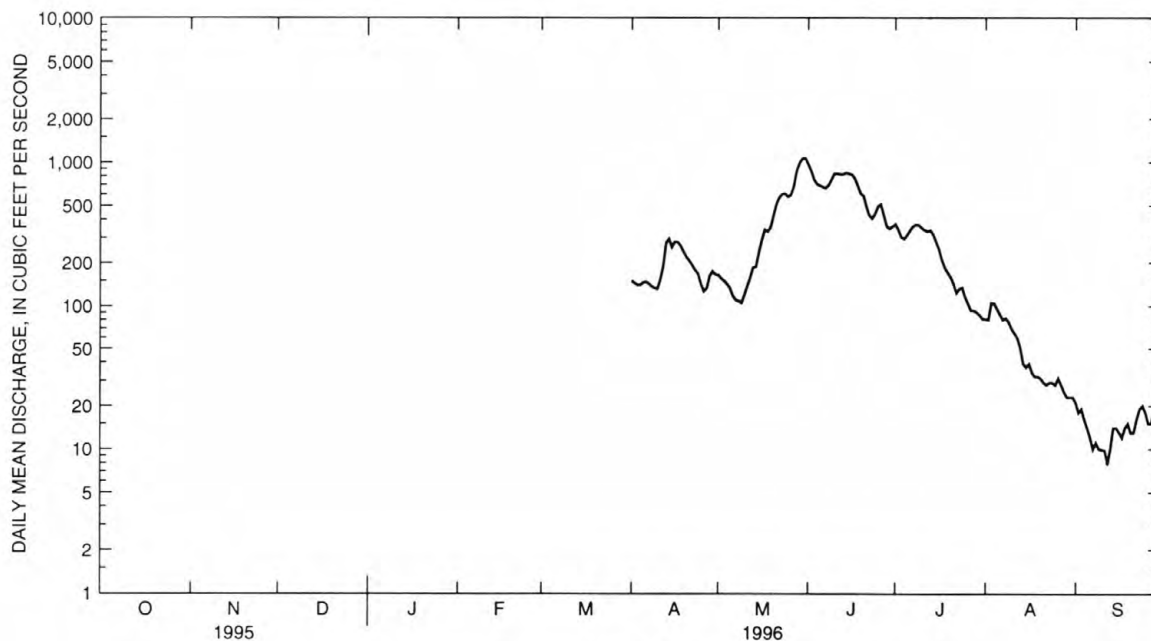
* January 1921 to December 1927 not used in computations.

** During period of operation.

For period of record through 1996.

a Gage height, 6.99 ft.

b Backwater from ice.



06662000 LARAMIE RIVER NEAR LOOKOUT, WY

307

MEAN	4.24	---	---	---	---	7.75	33.2	71.7	49.0	25.8	14.8	6.55
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

PLATTE RIVER BASIN

06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY--Continued

SUMMARY STATISTICS

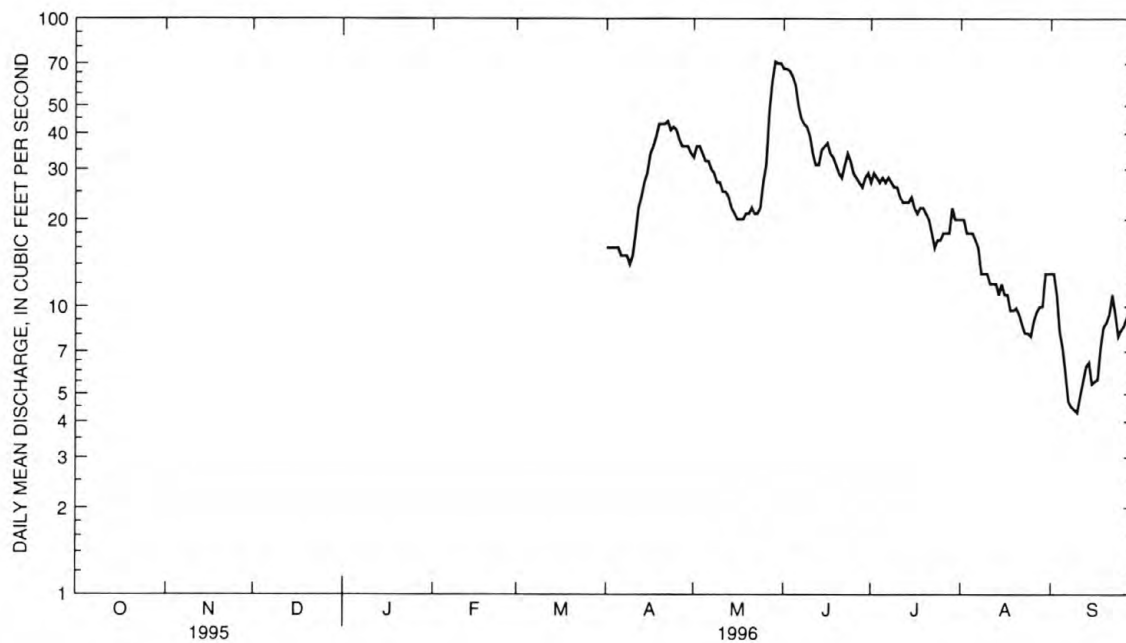
FOR 1996 WATER YEAR*

WATER YEARS 1974 - 1996*

HIGHEST DAILY MEAN	71	May 29	1280	Aug 20 1990
LOWEST DAILY MEAN	4.3	Sep 10	19900 ^a 49	Sep 8 1977
INSTANTANEOUS PEAK FLOW	78	May 30	15.60	Aug 20 1990
INSTANTANEOUS PEAK STAGE	2.36	May 30	61	Aug 20 1990
10 PERCENT EXCEEDS	--		9.4	
50 PERCENT EXCEEDS	--		2.4	
90 PERCENT EXCEEDS	--			

* During period of operation.

a On basis of slope-area measurement of peak flow at site 1.2 mi upstream.



06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY

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 U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	35	59	89	19	68	31
2	---	---	---	---	---	---	33	64	80	47	51	27
3	---	---	---	---	---	---	33	65	82	74	52	35
4	---	---	---	---	---	---	35	63	95	66	54	32
5	---	---	---	---	---	---	36	62	84	63	50	26
6	---	---	---	---	---	---	35	45	78	65	46	27
7	---	---	---	---	---	---	33	28	71	62	43	27
8	---	---	---	---	---	---	32	25	69	62	46	27
9	---	---	---	---	---	---	32	24	67	66	57	26
10	---	---	---	---	---	---	32	27	49	68	58	25
11	---	---	---	---	---	---	45	27	27	66	51	26
12	---	---	---	---	---	---	57	25	30	65	47	27
13	---	---	---	---	---	---	55	25	65	68	43	27
14	---	---	---	---	---	---	61	22	78	69	45	28
15	---	---	---	---	---	---	58	21	93	69	70	27
16	---	---	---	---	---	---	57	48	94	65	102	27
17	---	---	---	---	---	---	59	92	93	60	92	27
18	---	---	---	---	---	---	60	98	63	69	91	76
19	---	---	---	---	---	---	64	101	55	99	92	64
20	---	---	---	---	---	---	68	100	53	94	90	34
21	---	---	---	---	---	---	67	95	57	87	86	25
22	---	---	---	---	---	---	67	82	57	75	82	22
23	---	---	---	---	---	---	66	88	59	69	82	21
24	---	---	---	---	---	---	65	130	43	73	80	20
25	---	---	---	---	---	---	67	96	22	81	80	18
26	---	---	---	---	---	---	64	110	20	86	80	19
27	---	---	---	---	---	---	60	98	22	91	64	19
28	---	---	---	---	---	---	62	97	28	94	51	19
29	---	---	---	---	---	---	62	99	23	119	48	19
30	---	---	---	---	---	---	58	95	25	146	46	18
31	---	---	---	---	---	---	---	106	---	115	49	---
TOTAL	---	---	---	---	---	---	1558	2117	1771	2352	1996	846
MEAN	---	---	---	---	---	---	51.9	68.3	59.0	75.9	64.4	28.2
MAX	---	---	---	---	---	---	68	130	95	146	102	76
MIN	---	---	---	---	---	---	32	21	20	19	43	18
AC-FT	---	---	---	---	---	---	3090	4200	3510	4670	3960	1680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

MEAN	29.0	---	---	---	---	25.5	62.7	121	94.5	90.6	77.4	36.9
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

PLATTE RIVER BASIN

06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

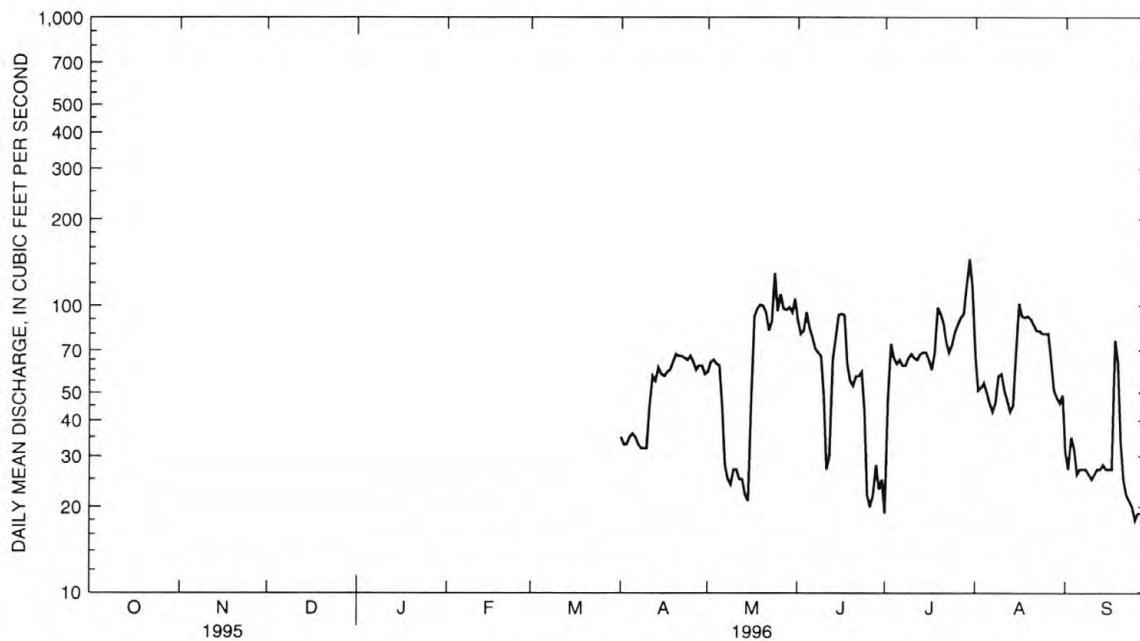
WATER YEARS 1980 - 1996*

HIGHEST DAILY MEAN	146	Jul 30	1280	May 22 1983
LOWEST DAILY MEAN	18	Sep 25,30	1,000	Sep 1-4,11 1981
INSTANTANEOUS PEAK FLOW	293	Jul 29	6900 ^a	Aug 20 1990
INSTANTANEOUS PEAK STAGE	1.97	Jul 29	8.35 ^b	Aug 20 1990
10 PERCENT EXCEEDS	--		143	
50 PERCENT EXCEEDS	--		50	
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.



06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY

PLATTE RIVER BASIN

311

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 1995 TO SEPTEMBER 1996

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							
31...	0745	2.2	1240	8.4	6.0	2.0	641
APR							
02...	1130	1.1	1170	8.2	10.5	23.0	637
JUN							
25...	1015	0.87	1200	8.3	19.0	27.0	643
AUG							
13...	0755	1.3	1270	8.0	17.0	17.0	649
DATE		OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	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							
31...	9.7	93	K12	0.04	3.4	0.23	0.01
APR							
02...	13.2	142	61	0.08	4.2	1.8	0.05
JUN							
25...	9.3	120	230	0.05	3.2	0.08	0.30
AUG							
13...	4.7	58	200	0.05	2.8	0.18	0.29

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 probably is 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. 28-30, Dec. 9-13, 20, 23-25, 28, Jan. 5-8, 18-21, Jan. 23 to Feb. 9, Feb. 21, 22, Feb. 27 to Mar. 1, and Mar. 25-27. 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. Army Corps of Engineers data collection platform with satellite telemetry at station.

COOPERATION.--Nine discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

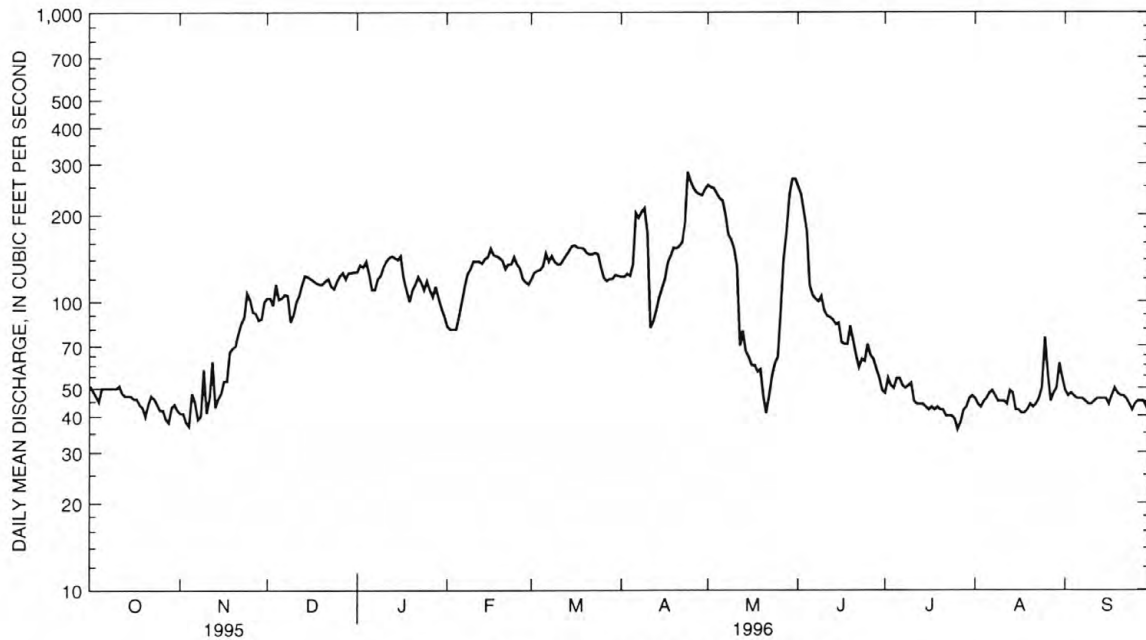
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	41	103	127	82	120	122	253	250	48	46	49
2	49	41	103	134	80	126	122	249	235	54	44	47
3	47	38	97	132	80	128	125	247	204	51	43	48
4	45	37	115	138	80	129	123	237	176	50	45	47
5	50	48	102	125	89	133	135	228	114	54	46	46
6	50	45	103	110	100	147	203	224	105	54	48	46
7	50	39	106	110	113	138	196	200	102	51	49	46
8	50	40	105	120	125	144	205	171	100	50	47	45
9	50	58	85	123	130	138	211	164	104	51	45	44
10	50	41	90	132	138	135	174	152	93	52	45	44
11	51	46	100	138	138	135	81	132	89	45	45	45
12	48	62	105	142	138	140	85	70	88	44	44	46
13	47	43	115	144	136	145	93	79	86	44	49	46
14	47	46	123	142	141	150	103	67	83	44	48	46
15	47	48	122	140	143	156	111	64	84	43	42	46
16	46	53	120	144	153	157	120	60	72	42	42	44
17	46	53	118	121	145	154	137	60	71	43	41	47
18	44	67	116	110	144	154	144	57	71	42	41	50
19	43	69	115	100	142	153	154	58	82	43	42	48
20	40	70	115	110	139	148	153	47	73	42	44	47
21	44	77	118	115	130	146	156	41	65	42	43	47
22	47	84	120	122	135	146	161	47	59	40	44	46
23	46	88	113	117	135	148	188	55	63	40	46	44
24	44	107	111	110	143	146	282	61	62	40	50	42
25	42	102	118	118	135	132	261	64	71	39	75	44
26	42	92	123	110	131	121	247	92	65	36	56	45
27	39	91	126	104	120	118	239	139	63	38	45	45
28	38	86	120	113	117	120	236	173	58	42	48	45
29	43	87	126	103	115	120	234	234	54	43	50	43
30	44	100	126	95	---	124	246	266	49	46	61	47
31	42	---	127	89	---	123	---	266	---	47	54	---
TOTAL	1422	1899	3486	3738	3597	4274	5047	4257	2891	1400	1468	1375
MEAN	45.9	63.3	112	121	124	138	168	137	96.4	45.2	47.4	45.8
MAX	51	107	127	144	153	157	282	266	250	54	75	50
MIN	38	37	85	89	80	118	81	41	49	36	41	42
AC-FT	2820	3770	6910	7410	7130	8480	10010	8440	5730	2780	2910	2730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1996, BY WATER YEAR (WY)

	MEAN	72.5	85.7	93.0	90.6	95.6	107	163	411	334	141	66.4	62.7
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	1981	1963	1966	1975	1964	

06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1957 - 1996	
ANNUAL TOTAL	65582		34854		--	
ANNUAL MEAN	180		95.2		144	
HIGHEST ANNUAL MEAN	--		--		672	1983
LOWEST ANNUAL MEAN	--		--		26.1	1981
HIGHEST DAILY MEAN	2940	Jun 11	282	Apr 24	5810	May 10 1973
LOWEST DAILY MEAN	15	Mar 30	36	Jul 26	2.0	Jan 23 1981
ANNUAL SEVEN-DAY MINIMUM	31	Jan 1	39	Jul 21	3.1	Jan 21 1981
INSTANTANEOUS PEAK FLOW	--		300	Apr 24	6260	May 10 1973
INSTANTANEOUS PEAK STAGE	--		3.19	Apr 24	9.40	May 10 1973
ANNUAL RUNOFF (AC-FT)	130100		69130		104200	
10 PERCENT EXCEEDS	445		154		227	
50 PERCENT EXCEEDS	51		85		68	
90 PERCENT EXCEEDS	39		43		28	



06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY

PLATTE RIVER BASIN

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 probably is 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. 8-10, 23, Jan. 2, 5-8, 19-29, Feb. 1-7, 27-29, and Mar. 25. 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. Army Corps of Engineers data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	815	321	304	294	238	265	250	668	3020	1320	1320	932
2	657	296	296	285	220	262	250	753	3160	1320	1220	912
3	559	288	299	293	230	259	249	901	3220	1410	1190	851
4	531	292	299	295	270	258	246	1030	3340	1470	1220	773
5	501	302	297	288	310	257	245	1020	3360	1490	1200	758
6	479	270	302	263	360	260	247	961	3340	1460	1160	747
7	464	291	297	282	410	258	262	945	3380	1440	1160	696
8	494	293	280	295	361	261	267	878	3430	1430	1150	655
9	527	295	263	296	309	261	271	785	3410	1410	1180	639
10	479	297	280	296	298	260	275	720	3400	1440	1230	626
11	448	297	292	289	285	258	277	711	3390	1400	1220	615
12	444	300	295	289	280	258	260	715	3200	1430	1220	616
13	437	306	295	292	280	261	249	679	3140	1380	1230	624
14	435	299	297	291	281	259	252	743	3300	1400	1230	667
15	441	295	297	290	281	262	279	845	3550	1340	1230	700
16	428	291	294	291	278	265	288	842	3620	1330	1240	661
17	408	288	293	275	280	267	277	839	3690	1300	1210	623
18	419	288	289	176	279	266	275	817	3580	1280	1210	584
19	418	288	287	260	277	259	280	781	3060	1320	1230	595
20	412	289	286	285	274	258	289	766	2780	1330	1210	556
21	415	289	288	305	273	259	293	728	2590	1320	1180	642
22	426	293	288	315	274	258	293	680	2510	1320	1150	623
23	407	293	280	310	273	260	289	735	2420	1340	1220	574
24	398	294	293	308	270	267	295	871	2250	1320	1160	555
25	399	297	297	300	271	258	331	886	2080	1290	1140	521
26	396	301	294	302	267	255	404	1040	1880	1300	1140	615
27	366	297	291	320	265	257	453	1210	1650	1280	1090	719
28	381	294	290	305	265	253	514	1300	1370	1290	1020	750
29	368	295	291	275	265	252	621	1860	1250	1300	987	752
30	349	298	295	248	---	252	678	2450	1270	1300	1040	761
31	338	---	298	251	---	251	---	2830	---	1340	1030	---
TOTAL	14039	8837	9047	8864	8224	8036	9459	30989	85640	42100	36417	20342
MEAN	453	295	292	286	284	259	315	1000	2855	1358	1175	678
MAX	815	321	304	320	410	267	678	2830	3690	1490	1320	932
MIN	338	270	263	176	220	251	245	668	1250	1280	987	521
AC-FT	27850	17530	17940	17580	16310	15940	18760	61470	169900	83510	72230	40350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1996, BY WATER YEAR (WY)

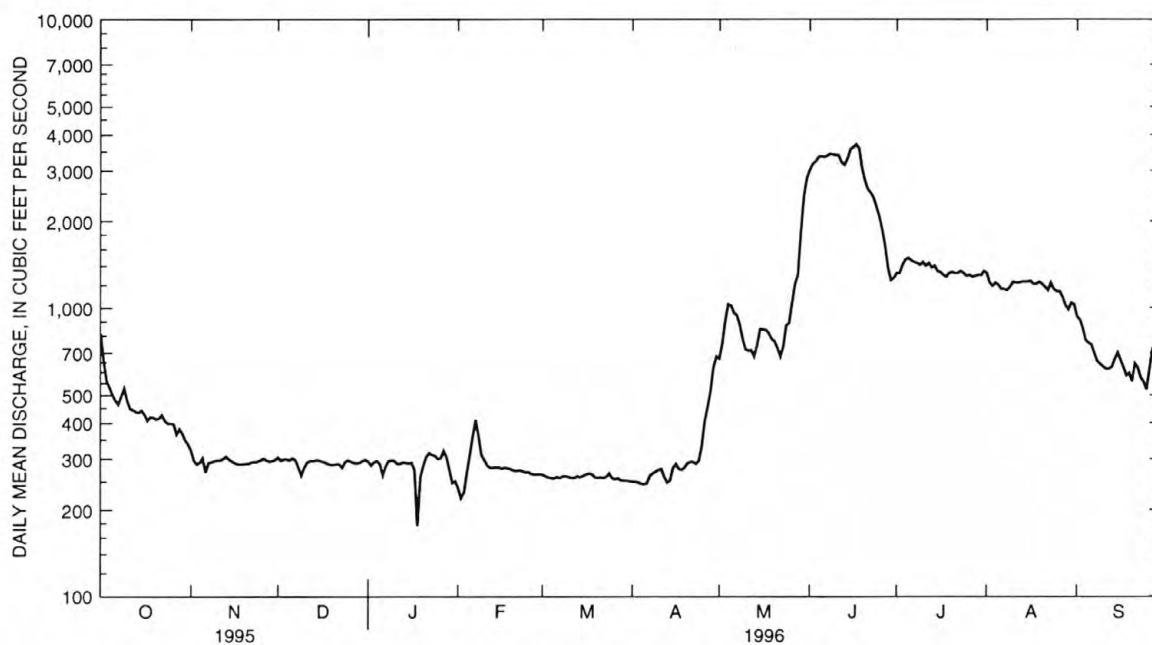
	MEAN	MAX	(WY)	MIN	(WY)
1929	512	1666	1987	150	1957
1930	429	1454	1987	174	1935
1931	382	895	1930	191	1991
1932	338	751	1930	166	1993
1933	344	1063	1984	148	1993
1934	493	4202	1974	141	1991
1935	596	4407	1974	141	1991
1936	1163	7226	1971	43.9	1990
1937	1651	10360	1929	49.1	1992
1938	1526	7170	1983	611	1934
1939	1273	5751	1983	154	1934
1940	871	4766	1983	230	1934

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1929 - 1996	
ANNUAL TOTAL	304682		281994		--	
ANNUAL MEAN	835		770		781	
HIGHEST ANNUAL MEAN	--		--		2863	1984
LOWEST ANNUAL MEAN	--		--		388	1992
HIGHEST DAILY MEAN	5490	Jun 12	3690	Jun 17	17600	Jun 2 1929
LOWEST DAILY MEAN	158	Mar 29	176	Jan 18	3.9	May 13 1992
ANNUAL SEVEN-DAY MINIMUM	161	Mar 26	247	Jan 29	4.4	Jun 20 1992
INSTANTANEOUS PEAK FLOW	--		3720	Jun 17	17900 ^a	Jun 2 1929
INSTANTANEOUS PEAK STAGE	--		4.89	Jun 17	7.04 ^b	Jun 2 1929
ANNUAL RUNOFF (AC-FT)	604300		559300		565500	
10 PERCENT EXCEEDS	1860		1430		1440	
50 PERCENT EXCEEDS	297		398		488	
90 PERCENT EXCEEDS	176		260		210	

a Maximum observed.

b Site and datum then in use.



06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

PLATTE RIVER BASIN

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 1995 TO SEPTEMBER 1996

		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)	
		DATE		TIME												
		NOV		01...		0825		322		910		5.0		-2.0		
		JAN		03...		0930		290		909		1.5		--		
		FEB		18...		0940		280		853		8.0		10.5		
		APR		03...		1415		249		904		11.5		12.5		
				26...		1445		410		769		14.0		16.0		
		MAY		15...		0810		915		791		15.5		25.0		
		JUN		18...		1000		3630		687		18.5		21.0		
		JUL		17...		0915		1360		684		20.0		29.0		
		AUG		14...		0910		1220		693		29.5		20.5		
		SEP		17...		0745		614		814		16.0		14.5		
DATE		TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)			
APR		26...	1445	410	8.1	655	9.3	105	<0.035	<0.035	<0.035	<0.002	<0.035	<0.002		
JUL		17...	0915	1360	8.0	657	7.5	96	<0.035	<0.035	<0.035	<0.002	<0.035	0.008		
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)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER, FLTRD, 0.7 U GF, REC (UG/L) (82680)			
APR		26...	<0.016	<0.016	<0.021	0.005	E0.007	<0.001	<0.002	<0.014	<0.035	<0.035	<0.002	<0.003		
JUL		17...	<0.016	<0.016	<0.021	0.014	E0.004	<0.001	<0.002	<0.014	<0.035	<0.035	<0.002	<0.003		
E - Estimate.																
DATE		CARBO-FURAN WATER, FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER, FLTRD 0.7 U GF, REC (UG/L) (82682)	P, P' DDE DISSOLV (UG/L) (34653)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)			
APR		26...	<0.003	<0.011	<0.035	<0.004	<0.05	<0.004	<0.002	<0.006	<0.017	<0.002	<0.035	<0.02		
JUL		17...	<0.003	<0.011	<0.035	<0.004	<0.05	0.015	<0.002	<0.006	<0.017	<0.002	<0.035	<0.02		

YELLOWSTONE RIVER BASIN

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06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL- FOTON WATER FLTRD, 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ESFEN- VAL- ERATE, WAT,FLT GF 0.7U REC (UG/L) (49298)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
APR 26...	<0.032	<0.001	<0.003	<0.035	<0.017	<0.02	<0.035	<0.002	<0.019	<0.004	<0.003
JUL 17...	<0.032	<0.001	<0.003	<0.035	<0.017	<0.02	<0.035	E0.003	<0.019	0.005	<0.003

E - Estimate.

DATE	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS (UG/L) (04095)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)
APR 26...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026
JUL 17...	<0.013	<0.035	<0.003	<0.014	<0.002	<0.004	<0.002	<0.05	<0.035	<0.005	<0.026

DATE	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
APR 26...	<0.017	<0.006	<0.002	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018
JUL 17...	<0.017	<0.006	<0.002	<0.004	<0.004	<0.007	<0.003	<0.015	<0.024	<0.019	<0.018

DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
APR 26...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	E0.007	<0.003	<0.007	<0.004	<0.013
JUL 17...	<0.004	<0.004	<0.004	<0.005	<0.002	<0.05	E0.007	<0.003	<0.007	<0.004	<0.013

E - Estimate.

DATE	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS- SOLVED (UG/L) (39762)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
APR 26...	<0.035	<0.035	<0.021	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.050	<0.002
JUL 17...	<0.035	<0.035	<0.021	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.050	E0.005

E - Estimate.

PLATTE RIVER BASIN

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 September 1996 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 6,140 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 14-16 and Dec. 18 to Apr. 17. Records poor.

REVISIONS.--Revised figures of discharge for the water year 1995, superseding those published in the report for 1995, are given below. Estimated daily discharges for 1995: Oct. 1-3, Nov. 3-28, Dec. 4-11, and Feb. 27 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	.19	.14	.13	.20	.32	.32	1.1	15	53	6.0	.24
2	.24	.18	.14	.13	.21	.30	.30	1.1	65	62	5.7	.20
3	.22	.16	.14	.14	.21	.33	.34	1.6	58	46	4.5	.19
4	.16	.15	.14	.12	.20	.36	.27	1.7	63	38	4.1	.20
5	.16	.16	.12	.13	.23	.34	.23	1.7	67	32	4.1	.17
6	.15	.18	.12	.14	.26	.33	.21	1.8	65	29	4.3	.15
7	.16	.20	.11	.14	.30	.34	.21	1.8	58	25	4.3	.15
8	.16	.18	.10	.13	.34	.36	.19	2.1	106	21	3.8	.16
9	.16	.16	.10	.14	.34	.38	.18	2.1	151	19	3.3	.17
10	.17	.18	.09	.15	.34	.42	.20	2.2	128	17	2.9	.17
11	.17	.19	.11	.16	.34	.46	.21	2.1	118	16	2.2	.18
12	.18	.18	.15	.16	.34	.44	.25	2.2	104	15	2.6	.19
13	.20	.17	.15	.14	.33	.43	.27	2.3	86	15	2.2	.19
14	.20	.16	.15	.15	.32	.45	.28	2.0	70	15	1.9	.19
15	.23	.15	.15	.15	.37	.48	.30	1.9	53	17	1.8	.19
16	.24	.16	.15	.15	.48	.47	.31	1.9	46	19	1.7	.20
17	.25	.16	.14	.14	.46	.45	.36	2.8	41	16	1.5	.20
18	.23	.15	.13	.14	.45	.48	.41	3.2	59	14	1.3	.24
19	.24	.16	.11	.14	.44	.45	.44	2.8	64	14	1.2	.28
20	.24	.18	.11	.15	.43	.43	.46	2.7	60	14	1.1	.28
21	.23	.16	.11	.15	.44	.50	.51	2.5	51	14	1.0	.28
22	.22	.15	.12	.15	.45	.45	.59	2.3	42	13	.92	.28
23	.22	.17	.11	.15	.46	.40	.67	2.3	34	11	.80	.30
24	.20	.18	.11	.16	.46	.35	.71	2.3	32	10	.69	.30
25	.20	.19	.12	.16	.49	.35	.75	2.3	36	9.0	.61	.33
26	.19	.17	.11	.16	.32	.30	.77	2.2	36	8.3	.49	.32
27	.20	.14	.12	.16	.30	.28	.80	2.2	33	7.7	.43	.37
28	.19	.12	.12	.17	.33	.27	.84	2.1	34	7.2	.33	.32
29	.19	.13	.13	.17	---	.26	.89	2.1	34	6.6	.30	.36
30	.20	.14	.13	.17	---	.28	1.0	2.1	39	6.0	.27	.41
31	.19	---	.14	.19	---	.30	---	2.1	---	5.7	.25	---
TOTAL	6.21	4.95	3.87	4.62	9.84	11.76	13.27	65.6	1848	595.5	66.59	7.21
MEAN	.20	.16	.12	.15	.35	.38	.44	2.12	61.6	19.2	2.15	.24
MAX	.25	.20	.15	.19	.49	.50	1.0	3.2	151	62	6.0	.41
MIN	.15	.12	.09	.12	.20	.26	.18	1.1	15	5.7	.25	.15
AC-FT	12	9.8	7.7	9.2	20	23	26	130	3670	1180	132	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994
MEAN	.20	.16	.12	.15	.35	.38	1.32	1.49	30.9	9.70	1.13	.21
MAX	.20	.16	.12	.15	.35	.38	2.20	2.12	61.6	19.2	2.15	.24
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MIN	.20	.16	.12	.15	.35	.38	.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	2637.42	---	---
ANNUAL MEAN	7.23	7.23	1995
HIGHEST ANNUAL MEAN	---	7.23	1995
LOWEST ANNUAL MEAN	---	7.23	1995
HIGHEST DAILY MEAN	151	Jun 9	151 Jun 9 1995
LOWEST DAILY MEAN	.09	Dec 10	.02 Aug 18, 1994
ANNUAL SEVEN-DAY MINIMUM	.11	Dec 5	.03 Aug 17 1994
INSTANTANEOUS PEAK FLOW	163	Jun 8	163 Jun 8 1995
INSTANTANEOUS PEAK STAGE	6.24	Jun 8	6.24 Jun 8 1995
ANNUAL RUNOFF (AC-FT)	5230		5230
10 PERCENT EXCEEDS	23		8.3
50 PERCENT EXCEEDS	.32		.27
90 PERCENT EXCEEDS	.14		.12

06755800 CROW CREEK AT ROUND TOP ROAD, NEAR CHEYENNE, WY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	11	11	5.8	6.0	6.2	8.2	8.2	7.9	.42	.57	.47
2	.51	11	11	5.6	5.8	6.4	8.2	7.8	6.5	.38	.55	.53
3	.48	11	11	5.8	5.8	6.6	8.0	4.8	5.8	.36	.48	.63
4	.46	13	11	5.8	6.0	6.8	8.4	4.3	5.7	.34	.49	.57
5	.43	13	9.2	5.4	6.2	6.6	9.0	3.5	5.1	.28	.51	.48
6	.51	14	8.0	5.8	6.3	6.4	9.6	2.6	4.3	.26	.47	.66
7	1.0	14	7.2	6.6	6.4	6.2	10	2.7	3.8	.27	.38	.66
8	.71	14	5.9	7.4	6.6	6.0	11	3.0	3.6	.24	.25	.50
9	1.1	14	7.1	7.8	6.6	5.8	12	3.3	3.2	.32	.28	.43
10	1.3	14	7.1	7.8	6.6	6.0	13	4.2	2.5	.38	.34	.35
11	2.8	12	7.1	7.8	6.6	6.0	24	3.8	2.0	.27	.37	.36
12	4.3	12	7.1	8.0	6.6	5.8	25	2.6	1.9	.28	.36	.50
13	5.1	12	7.1	8.2	6.8	5.8	25	2.6	1.7	.38	.35	.56
14	5.2	12	6.8	8.2	6.8	5.6	26	2.5	2.0	1.2	.44	.84
15	5.4	12	6.8	8.0	6.6	5.8	26	3.5	2.4	.49	.41	.71
16	5.6	12	6.0	8.0	6.6	6.0	24	3.6	3.0	.26	.39	.58
17	6.5	12	4.9	7.8	6.8	6.0	22	3.4	2.9	.24	.35	.71
18	7.8	13	5.0	7.6	7.0	6.0	22	2.6	2.6	.23	.32	.52
19	9.5	13	5.0	7.6	7.2	5.8	23	3.2	1.9	.24	.28	.81
20	10	13	5.4	7.6	7.2	6.0	20	4.7	1.5	.25	.26	.67
21	10	13	5.2	7.6	7.2	6.2	10	4.2	1.3	.45	.25	.81
22	10	13	5.0	7.4	7.4	6.2	6.7	3.9	2.1	.71	.25	.84
23	12	13	5.2	7.2	7.4	6.4	5.4	5.7	1.9	.79	.20	.78
24	14	13	5.4	7.2	7.2	6.2	5.1	6.9	1.4	.86	.18	.91
25	14	13	5.6	7.0	7.0	6.2	5.0	7.4	1.1	.59	.18	1.1
26	13	13	5.6	6.8	6.8	6.2	4.4	11	.80	.54	.21	1.1
27	13	12	5.8	6.6	6.6	6.4	4.4	14	.66	.47	.22	1.1
28	13	10	5.8	6.6	6.4	6.8	5.8	15	.55	.57	.27	1.2
29	12	11	5.6	6.6	6.2	7.8	6.7	15	.51	.69	.83	1.2
30	12	11	5.6	6.4	---	8.2	7.3	14	.48	.62	.52	1.2
31	12	---	5.8	6.2	---	8.2	---	10	---	.50	.46	---
TOTAL	204.17	374	210.3	218.2	192.7	196.6	395.2	184.0	81.10	13.88	11.42	21.78
MEAN	6.59	12.5	6.78	7.04	6.64	6.34	13.2	5.94	2.70	.45	.37	.73
MAX	14	14	11	8.2	7.4	8.2	26	15	7.9	1.2	.83	1.2
MIN	.43	10	4.9	5.4	5.8	5.6	4.4	2.5	.48	.23	.18	.35
AC-FT	405	742	417	433	382	390	784	365	161	28	23	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

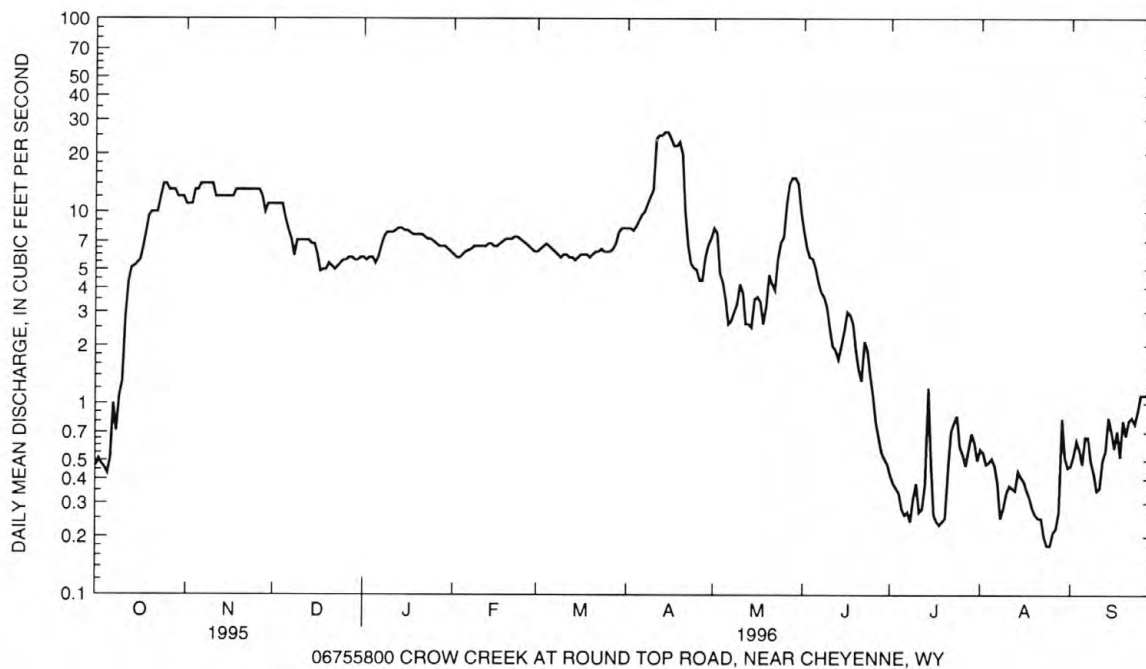
	1994	1995	1996	1995	1996	1995	1996	1995	1996	1995	1996	1996
MEAN	3.39	6.32	3.45	3.59	3.55	3.36	5.27	2.97	21.5	6.62	.88	.38
MAX	6.59	12.5	6.78	7.04	6.64	6.34	13.2	5.94	61.6	19.2	2.15	.73
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1996
MIN	.20	.16	.12	.15	.35	.38	.44	.86	.19	.19	.12	.18
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

PLATTE RIVER BASIN

06755800 CROW CREEK AT ROUND TOP ROAD, NEAR CHEYENNE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1994 - 1996		
ANNUAL TOTAL	3410.86			2103.35			--		
ANNUAL MEAN	9.34			5.75			6.49		
HIGHEST ANNUAL MEAN	--			--			7.23		
LOWEST ANNUAL MEAN	--			--			5.75		
HIGHEST DAILY MEAN	151	Jun	9	26	Apr	14	151	Jun	9 1995
LOWEST DAILY MEAN	.12	Jan	4	.18	Aug	24,25	.02	Aug	18,19, 26,27 1994
ANNUAL SEVEN-DAY MINIMUM	.13	Jan	1	.21	Aug	21	.03	Aug	17 1994
INSTANTANEOUS PEAK FLOW	--			36	Jul	14 ^a	163	Jun	8 1995
INSTANTANEOUS PEAK STAGE	--			5.63	Jul	14 ^a	6.24	Jun	8 1995
ANNUAL RUNOFF (AC-FT)	6770			4170			4700		
10 PERCENT EXCEEDS	23			12			12		
50 PERCENT EXCEEDS	1.8			5.8			.69		
90 PERCENT EXCEEDS	.18			.38			.14		

a Highest recorded peak. Slightly higher peak may have occurred Apr. 11-15.



PLATTE RIVER BASIN

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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 September 1996 (discontinued).

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: Jan. 29 to Feb. 9, Feb. 14, 16-23, Feb. 25 to Mar. 2, and Mar. 5-9, 24-30. Records poor.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Mar. 21 to June 14. Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.14	.40	.05	.00	.02	.00
2	---	---	---	---	---	---	.13	.54	.18	.00	.01	.00
3	---	---	---	---	---	---	.14	.47	.07	.00	.00	.00
4	---	---	---	---	---	---	.11	.40	.05	.00	.00	.00
5	---	---	---	---	---	---	.06	.33	.04	.00	.00	.00
6	---	---	---	---	---	---	.06	.32	.03	.00	.00	.00
7	---	---	---	---	---	---	.07	.30	.03	.00	.00	.00
8	---	---	---	---	---	---	.12	.35	.02	.00	.00	.00
9	---	---	---	---	---	---	.17	.27	.02	.00	.00	.00
10	---	---	---	---	---	---	.32	.18	.02	.00	.00	.00
11	---	---	---	---	---	---	.28	.16	.02	.00	.00	.00
12	---	---	---	---	---	---	.36	.12	.02	.00	.00	.00
13	---	---	---	---	---	---	.56	.70	.02	.00	.00	.00
14	---	---	---	---	---	---	.52	.43	.02	.00	.00	.00
15	---	---	---	---	---	---	.30	.98	.01	.00	.00	.00
16	---	---	---	---	---	---	.19	.84	.01	.01	.00	.00
17	---	---	---	---	---	---	.14	.54	.01	.00	.00	.00
18	---	---	---	---	---	---	.09	.37	.01	.00	.00	.00
19	---	---	---	---	---	---	.08	.21	.02	.00	.00	.00
20	---	---	---	---	---	---	.06	.13	.02	.00	.00	.00
21	---	---	---	---	---	.38	.06	.12	.02	.00	.00	.01
22	---	---	---	---	---	.24	.06	.09	.02	.00	.00	.01
23	---	---	---	---	---	.66	.05	.08	.01	.00	.00	.01
24	---	---	---	---	---	.03	.05	.09	.01	.00	.00	.01
25	---	---	---	---	---	.02	.15	.07	.00	.00	.00	.01
26	---	---	---	---	---	.02	.12	.06	.00	.00	.00	.01
27	---	---	---	---	---	.02	.08	.05	.00	.00	.00	.01
28	---	---	---	---	---	.04	.13	.04	.00	.00	.00	.01
29	---	---	---	---	---	.10	.20	.04	.00	.00	.00	.01
30	---	---	---	---	---	.16	.30	.03	.00	.00	.00	.01
31	---	---	---	---	---	.14	---	.06	---	.00	.00	---
TOTAL	---	---	---	---	---	---	5.10	8.77	0.73	0.01	0.03	0.10
MEAN	---	---	---	---	---	---	.17	.28	.024	.000	.001	.003
MAX	---	---	---	---	---	---	.56	.98	.18	.01	.02	.01
MIN	---	---	---	---	---	---	.05	.03	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	10	17	1.4	.02	.06	.2

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

	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MEAN	---	---	---	---	---	---	.17	.28	.024	.000	.001	.003
MAX	---	---	---	---	---	---	.17	.28	.024	.000	.001	.003
(WY)	---	---	---	---	---	---	1994	1994	1994	1994	1994	1994
MIN	---	---	---	---	---	---	.17	.28	.024	.000	.001	.003
(WY)	---	---	---	---	---	---	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR*

HIGHEST DAILY MEAN	.98	May 15
LOWEST DAILY MEAN	.00	Many days
10 PERCENT EXCEEDS	.31	
50 PERCENT EXCEEDS	.01	
90 PERCENT EXCEEDS	.00	

* During period of operation.

06755840 DIAMOND CREEK BELOW ROUND TOP ROAD, AT F.E. WARREN AIR FORCE BASE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.023	.013	.005	.008	.007	.005	.090	.33	.69	.15	.017	.014
MAX	.023	.013	.005	.008	.007	.005	.17	.37	1.36	.30	.033	.025
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MIN	.023	.013	.005	.008	.007	.005	.010	.28	.024	.000	.001	.003
(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	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	Most years
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	.38	
50 PERCENT EXCEEDS	.02	.02	
90 PERCENT EXCEEDS	.00	.00	

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.00	.00	.00	.00	.00	.08	.02	1.5	.00	.01	.01
2	.02	.00	.00	.00	.00	.00	.07	.02	.97	.00	.01	.00
3	.01	.00	.00	.00	.00	.01	.03	.03	1.3	.00	.01	.00
4	.02	.00	.00	.00	.00	.01	.02	.03	1.7	.00	.01	.00
5	.02	.00	.00	.00	.04	.00	.06	.04	.77	.00	.00	.00
6	.02	.00	.00	.00	.10	.00	.09	.04	.56	.00	.01	.01
7	.02	.00	.00	.00	.06	.00	.09	.04	.64	.00	.01	.01
8	.01	.00	.00	.00	.04	.00	.12	.06	.29	.00	.01	.01
9	.01	.00	.00	.00	.02	.01	.09	.09	.10	.05	.01	.00
10	.01	.00	.00	.00	.00	.02	.06	.07	.10	.01	.01	.00
11	.01	.00	.00	.00	.01	.04	.20	.06	.20	.00	.01	.01
12	.00	.00	.00	.00	.01	.04	.54	.04	.06	.08	.00	.01
13	.00	.00	.00	.00	.02	.04	.73	.03	.06	.02	.00	.01
14	.00	.00	.00	.00	.02	.11	.68	.02	.17	.01	.01	.01
15	.00	.00	.00	.00	.01	.10	.48	.00	.57	.01	.01	.01
16	.00	.00	.00	.00	.01	.09	.37	.10	.57	.01	.01	.01
17	.00	.00	.00	.00	.02	.07	.33	.42	.29	.01	.00	.01
18	.00	.00	.00	.00	.12	.06	.11	.71	.18	.00	.01	.01
19	.00	.00	.00	.00	.18	.05	.24	1.0	.09	.01	.01	.02
20	.00	.00	.00	.00	.14	.02	.02	1.6	.05	.01	.01	.01
21	.00	.00	.00	.00	.03	.02	.02	1.5	.04	.00	.01	.01
22	.00	.00	.00	.00	.04	.02	.00	1.1	.07	.00	.01	.01
23	.00	.00	.00	.00	.04	.02	.05	1.7	.03	.00	.00	.01
24	.01	.00	.00	.00	.01	.01	.03	2.3	.02	.01	.00	.02
25	.01	.00	.00	.00	.00	.01	.04	2.3	.03	.01	.00	.02
26	.01	.00	.00	.00	.00	.02	.03	2.4	.01	.01	.00	.02
27	.00	.00	.00	.00	.00	.02	.01	2.6	.01	.01	.00	.02
28	.00	.00	.00	.00	.00	.04	.01	2.4	.01	.01	.01	.01
29	.00	.00	.00	.00	.00	.06	.02	2.1	.01	.01	.14	.01
30	.00	.00	.00	.00	---	.09	.02	1.8	.01	.01	.02	.01
31	.00	---	.00	.00	---	.12	---	1.7	---	.02	.01	---
TOTAL	0.20	0.00	0.00	0.00	0.92	1.10	4.64	26.32	10.41	0.31	0.36	0.29
MEAN	.006	.000	.000	.000	.032	.035	.15	.85	.35	.010	.012	.010
MAX	.02	.00	.00	.00	.18	.12	.73	2.6	1.7	.08	.14	.02
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
AC-FT	.4	.00	.00	.00	1.8	2.2	9.2	52	21	.6	.7	.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

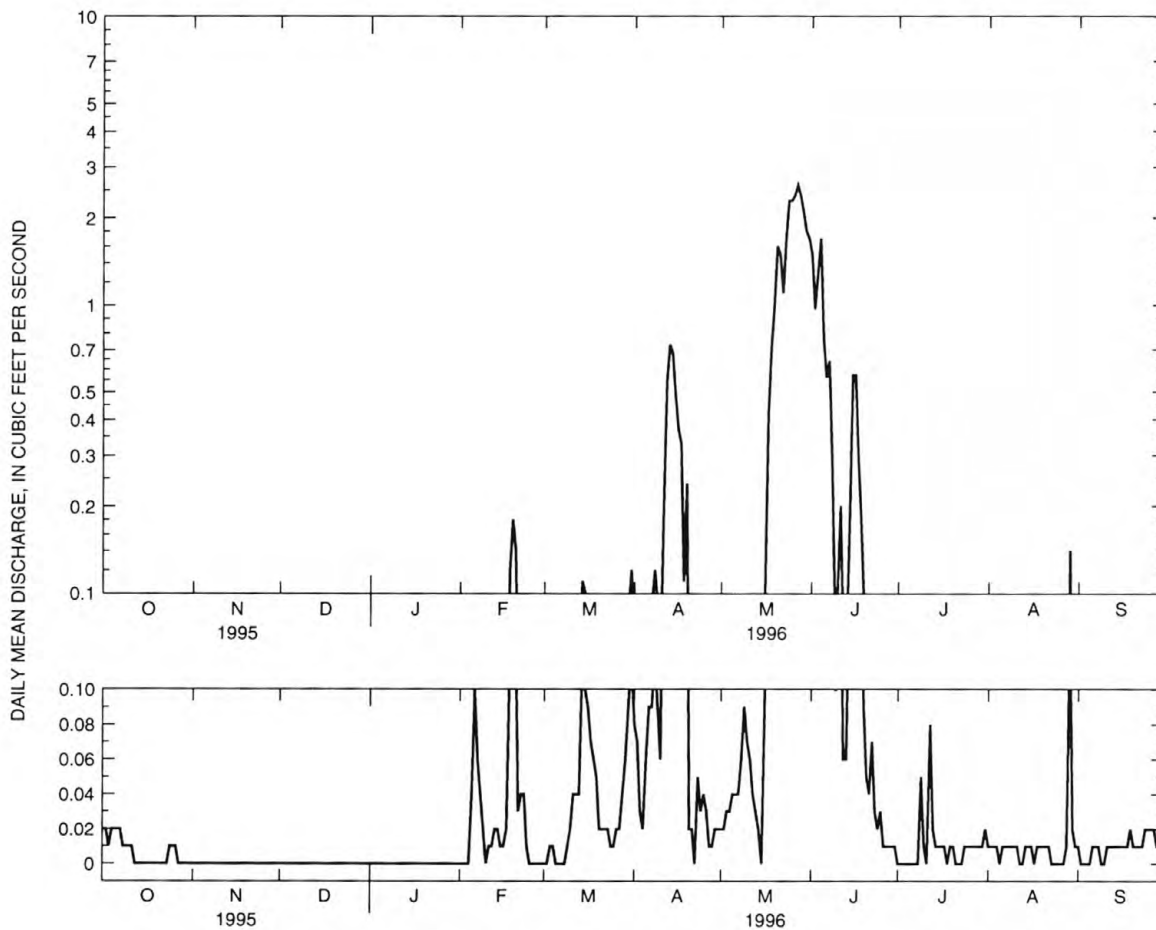
MEAN	.015	.006	.003	.004	.020	.020	.11	.50	.58	.10	.015	.013
MAX	.023	.013	.005	.008	.032	.035	.17	.85	1.36	.30	.033	.025
(WY)	1995	1995	1995	1995	1996	1996	1994	1996	1995	1995	1995	1995
MIN	.006	.000	.000	.000	.007	.005	.010	.28	.024	.000	.001	.003
(WY)	1996	1996	1996	1996	1995	1995	1995	1994	1994	1994	1994	1994

06755840 DIAMOND CREEK BELOW ROUND TOP ROAD, AT F.E. WARREN AIR FORCE BASE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	64.49		44.55		--	
ANNUAL MEAN	.18		.12		.15	
HIGHEST ANNUAL MEAN	--		--		.18	1995
LOWEST ANNUAL MEAN	--		--		.12	1996
HIGHEST DAILY MEAN	3.5	Jun 10	2.6	May 27	3.5	Jun 10 1995
LOWEST DAILY MEAN	.00	Many days	.00	Many days	.00	Many days,
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 12	.00	most years
INSTANTANEOUS PEAK FLOW	--		2.6	May 27, 28 ^a	3.6	Jun 9 1995
INSTANTANEOUS PEAK STAGE	--		1.83	Mar 28 ^b	1.88	Jun 9 1995
ANNUAL RUNOFF (AC-FT)	128		88		109	
10 PERCENT EXCEEDS	.54		.18		.33	
50 PERCENT EXCEEDS	.01		.01		.01	
90 PERCENT EXCEEDS	.00		.00		.00	

a Gage height, 1.80 ft.

b Backwater from ice.



06755840 DIAMOND CREEK BELOW ROUND TOP ROAD, AT F.E. WARREN AIR FORCE BASE, WY

PLATTE RIVER BASIN

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 September 1996 (discontinued).

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. 3, Dec. 18 to Jan. 3, Jan. 7-10, Jan. 17 to Feb. 8, Feb. 14-19, Feb. 23 to Mar. 1, Mar. 6-10, and Mar. 13 to Apr. 11. Records fair except those for estimated daily discharges, which are poor.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Oct. 28, Nov. 13-15, 24-27, Jan. 7, Jan. 26 to Feb. 13, Feb. 24-26, and Mar. 8-9. Records fair except those for estimated daily discharges and those above 1 ft³/s, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.13	.13	.08	.11	.15	.21	.44	.12	.01	.41	.06
2	.09	.12	.13	.08	.10	.17	.24	.54	.32	.01	.09	.05
3	.09	.11	.13	.08	.10	.19	.23	.47	.14	.01	.05	.04
4	.09	.11	.12	.08	.10	.19	.25	.40	.09	.01	.04	.04
5	.09	.10	.11	.10	.11	.21	.22	.33	.06	.02	.05	.04
6	.10	.08	.10	.10	.12	.27	.19	.32	.05	.02	.05	.04
7	.21	.07	.09	.10	.11	.17	.22	.32	.05	.02	.03	.04
8	.16	.07	.10	.11	.10	.14	.25	.35	.04	.02	.04	.04
9	.14	.07	.12	.10	.10	.14	.27	.27	.03	.01	.04	.03
10	.14	.08	.15	.08	.11	.15	.36	.22	.03	.01	.18	.03
11	.13	.08	.15	.07	.11	.15	.38	.18	.03	.05	.06	.03
12	.11	.08	.18	.10	.11	.19	.56	.16	.02	.02	.05	.03
13	.12	.09	.16	.12	.12	.47	.73	1.1	.03	.20	.13	.08
14	.17	.09	.14	.11	.12	.80	.64	.60	.02	.06	.05	.05
15	.15	.10	.13	.13	.14	.62	.46	.98	.02	.05	.04	.04
16	.15	.10	.13	.13	.15	.66	.37	.84	.02	.03	.04	.04
17	.27	.11	.13	.13	.15	.86	.28	.54	.02	.04	.04	.04
18	.80	.13	.12	.13	.19	.51	.25	.37	.02	.04	.03	.04
19	.28	.11	.11	.12	.17	.51	.20	.27	.12	.04	.04	.04
20	.17	.10	.10	.13	.15	.44	.18	.21	.05	.03	.04	.05
21	.15	.12	.09	.13	.15	.43	.18	.17	.05	.03	.04	.06
22	.14	.13	.08	.13	.15	.37	.17	.15	.05	.03	.05	.07
23	.14	.12	.07	.13	.12	.75	.15	.13	.04	.03	.04	.06
24	.13	.10	.05	.13	.13	.34	.14	.13	.02	.28	.04	.06
25	.12	.09	.05	.14	.13	.19	.36	.12	.02	.13	.05	.07
26	.11	.09	.06	.16	.15	.18	.24	.11	.01	.04	.04	.07
27	.11	.10	.07	.15	.17	.16	.19	.11	.01	.03	.03	.06
28	.11	.10	.07	.14	.16	.15	.24	.10	.01	.03	.06	.05
29	.11	.12	.07	.13	---	.18	.28	.09	.01	.03	.04	.06
30	.09	.13	.07	.12	---	.19	.36	.08	.01	.03	.04	.06
31	.12	---	.08	.11	---	.21	---	.10	---	.14	.07	---
TOTAL	4.88	3.03	3.29	3.55	3.63	10.14	8.80	10.20	1.51	1.50	2.00	1.47
MEAN	.16	.10	.11	.11	.13	.33	.29	.33	.050	.048	.065	.049
MAX	.80	.13	.18	.16	.19	.86	.73	1.1	.32	.28	.41	.08
MIN	.09	.07	.05	.07	.10	.14	.14	.08	.01	.01	.03	.03
AC-FT	9.7	6.0	6.5	7.0	7.2	20	17	20	3.0	3.0	4.0	2.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	1992	1993	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MEAN	.12	.10	.10	.10	.12	.24	.37	.25	.22	.071	.093	.082
MAX	.16	.10	.11	.11	.13	.33	.45	.33	.50	.096	.11	.14
(WY)	1994	1993	1994	1994	1994	1994	1993	1994	1993	1992	1993	1993
MIN	.075	.10	.098	.091	.12	.15	.29	.17	.050	.048	.065	.049
(WY)	1993	1994	1993	1993	1993	1993	1994	1993	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1992 - 1994
ANNUAL TOTAL	65.35	54.00	--
ANNUAL MEAN	.18	.15	.16
HIGHEST ANNUAL MEAN	--	--	.17 1993
LOWEST ANNUAL MEAN	--	--	.15 1994
HIGHEST DAILY MEAN	2.0 Jun 3	1.1 May 13	2.0 Jun 3 1993
LOWEST DAILY MEAN	.03 Jul 28	.01 Jun 26-Jul 4, Jul 9,10	.01 Jun 26-Jul 4, Jul 9,10 1994
ANNUAL SEVEN-DAY MINIMUM	.04 Jul 26	.01 Jun 26	.01 Jun 26 1994
INSTANTANEOUS PEAK FLOW	--	7.6 May 13	8.6 Aug 21 1993
INSTANTANEOUS PEAK STAGE	--	2.59 May 13	2.71 Aug 21 1993
ANNUAL RUNOFF (AC-FT)	130	107	116
10 PERCENT EXCEEDS	.34	.32	.29
50 PERCENT EXCEEDS	.11	.11	.10
90 PERCENT EXCEEDS	.06	.03	.04

PLATTE RIVER BASIN

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06755860 DIAMOND CREEK AT F.E. WARREN AIR FORCE BASE, WY--Continued

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

MEAN	.12	.098	.088	.089	.12	.20	.29	.34	.49	.16	.093	.097
MAX	.16	.10	.11	.11	.13	.33	.45	.53	1.30	.41	.11	.14
(WY)	1994	1993	1994	1994	1994	1994	1993	1995	1995	1995	1993	1995
MIN	.075	.092	.061	.062	.12	.12	.12	.17	.050	.048	.065	.049
(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	51.37	96.77	--
ANNUAL MEAN	.14	.27	.19
HIGHEST ANNUAL MEAN	--	--	.27
LOWEST ANNUAL MEAN	--	--	.15
HIGHEST DAILY MEAN	1.1 May 13	4.0 Jun 9	4.0 Jun 9 1995
LOWEST DAILY MEAN	.01 Jun 26	.02 Dec 14,16	.01 Jun 26-Jul 4, 1994
ANNUAL SEVEN-DAY MINIMUM	.01 Jun 26	.03 Dec 11	.01 Jun 26 1994
INSTANTANEOUS PEAK FLOW	--	13 Oct 3	13 Jul 9,10 1994
INSTANTANEOUS PEAK STAGE	--	2.84 Oct 3	2.84 Oct 3 1994
ANNUAL RUNOFF (AC-FT)	102	192	141
10 PERCENT EXCEEDS	.33	.62	.36
50 PERCENT EXCEEDS	.10	.10	.10
90 PERCENT EXCEEDS	.03	.06	.05

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.11	.09	.06	.02	.06	.28	.14	1.0	.00	.15	.07
2	.10	.10	.09	.07	.01	.07	.27	.14	.73	.00	.14	.06
3	.09	.10	.09	.06	.00	.07	.29	.14	.76	.00	.11	.05
4	.25	.10	.09	.07	.01	.08	.26	.14	1.2	.00	.06	.05
5	.14	.11	.09	.06	.06	.09	.36	.13	.82	.00	.04	.06
6	.12	.11	.08	.06	.11	.09	.31	.12	.29	.01	.26	.15
7	.11	.10	.07	.09	.19	.09	.35	.13	.60	.00	.08	.06
8	.11	.10	.07	.10	.18	.09	.42	.13	.35	.00	.04	.05
9	.11	.10	.05	.11	.16	.10	.43	.17	.20	.78	.04	.05
10	.10	.12	.07	.10	.08	.14	.42	.17	.11	.13	.06	.05
11	.10	.11	.11	.08	.05	.18	1.2	.15	.17	.02	.05	.05
12	.08	.11	.10	.09	.07	.20	.88	.15	.11	.73	.04	.06
13	.08	.18	.10	.10	.09	.21	1.1	.14	.21	.25	.04	.08
14	.08	.13	.08	.10	.08	.24	1.0	.11	.08	.05	.08	.10
15	.09	.11	.08	.11	.08	.22	.83	.09	.53	.03	.07	.09
16	.09	.10	.08	.11	.08	.21	.72	.08	.45	.03	.05	.07
17	.09	.10	.08	.12	.09	.21	.64	.08	.30	.08	.05	.09
18	.09	.10	.08	.10	.10	.21	.52	.13	.18	.03	.25	.27
19	.08	.10	.07	.07	.20	.18	.59	.42	.06	.23	.08	.21
20	.08	.10	.05	.04	.17	.16	.36	.84	.02	.06	.08	.08
21	.08	.10	.06	.04	.16	.16	.30	.88	.29	.03	.06	.07
22	.11	.10	.05	.05	.17	.15	.26	.81	.17	.02	.06	.07
23	.16	.09	.05	.04	.17	.15	.24	1.5	.06	.02	.06	.07
24	.11	.09	.06	.03	.13	.14	.23	2.2	.01	.02	.06	.18
25	.13	.09	.06	.02	.09	.12	.28	2.5	.00	.03	.06	.12
26	.11	.08	.08	.00	.07	.14	.23	3.1	.00	.08	.06	.11
27	.10	.08	.07	.01	.07	.20	.20	2.8	.01	.03	.05	.09
28	.10	.08	.05	.02	.06	.24	.15	2.5	.09	.09	.16	.09
29	.10	.10	.07	.03	.06	.31	.14	1.7	.02	.05	1.9	.08
30	.10	.10	.08	.03	---	.30	.14	1.2	.00	.05	.32	.08
31	.11	---	.07	.03	---	.29	---	1.1	---	.40	.09	---
TOTAL	3.31	3.10	2.32	2.00	2.81	5.10	13.40	23.89	8.82	3.25	4.65	2.71
MEAN	.11	.10	.075	.065	.097	.16	.45	.77	.29	.10	.15	.090
MAX	.25	.18	.11	.12	.20	.31	1.2	3.1	1.2	.78	1.9	.27
MIN	.08	.08	.05	.00	.00	.06	.14	.08	.00	.00	.04	.05
AC-FT	6.6	6.1	4.6	4.0	5.6	10	27	47	17	6.4	9.2	5.4

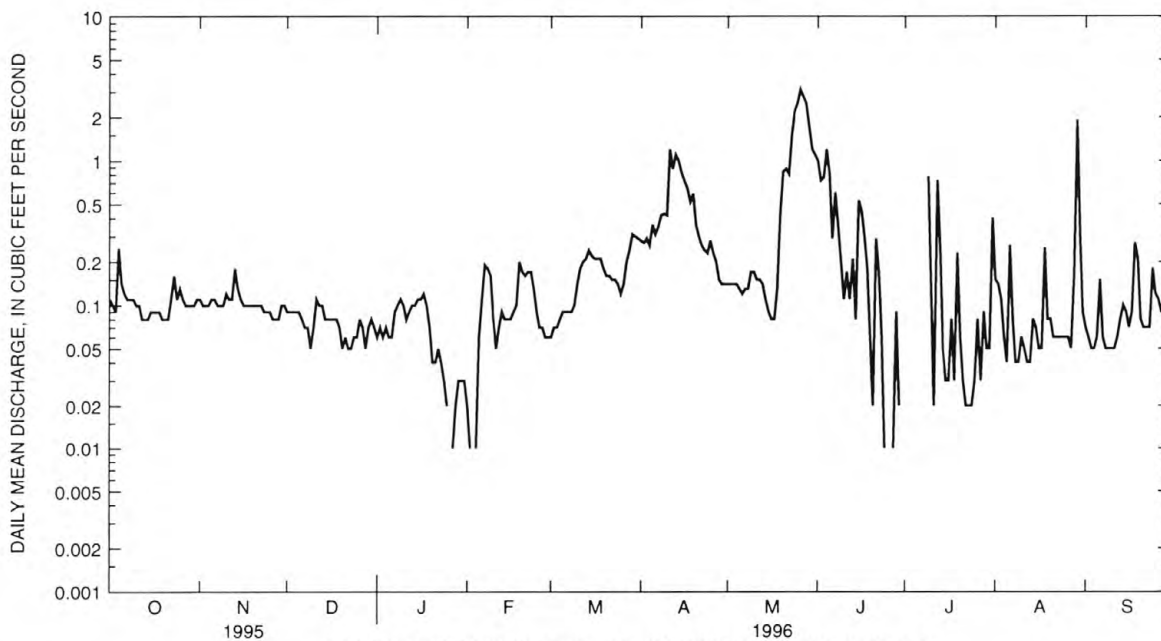
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	.12	.10	.085	.083	.12	.19	.33	.45	.15	.10	.096
MAX	.16	.10	.11	.11	.13	.33	.45	.77	1.30	.41	.15
(WY)	1994	1996	1994	1994	1994	1994	1993	1996	1995	1996	1995
MIN	.075	.092	.061	.062	.097	.12	.12	.17	.050	.048	.065
(WY)	1993	1995	1995	1995	1996	1995	1995	1993	1994	1994	1994

PLATTE RIVER BASIN

06755860 DIAMOND CREEK AT F.E. WARREN AIR FORCE BASE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	96.93	75.36	--
ANNUAL MEAN	.27	.21	.20
HIGHEST ANNUAL MEAN	--	--	.27
LOWEST ANNUAL MEAN	--	--	.15
HIGHEST DAILY MEAN	4.0 Jun 9	3.1 May 26	4.0 Jun 9 1995
LOWEST DAILY MEAN	.04 Several days	.00 Several days	.00 Several days, 1996
ANNUAL SEVEN-DAY MINIMUM	.04 Jan 25	.00 Jun 30	.00 Jun 30 1996
INSTANTANEOUS PEAK FLOW	--	17 Aug 29	17 Aug 29 1996
INSTANTANEOUS PEAK STAGE	--	2.98 Aug 29	2.98 Aug 29 1996
ANNUAL RUNOFF (AC-FT)	192	149	143
10 PERCENT EXCEEDS	.61	.41	.36
50 PERCENT EXCEEDS	.11	.10	.10
90 PERCENT EXCEEDS	.06	.03	.05



06755860 DIAMOND CREEK AT F.E. WARREN AIR FORCE BASE, WY

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 September 1996 (discontinued).

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. 2-6, Dec. 7-11, and Dec. 15 to Apr. 1. Records fair except those for estimated daily discharges, which are poor.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Oct. 28-30, Nov. 6-9, 13, 14, 18, Dec. 15 to Mar. 15, May 21 to June 22, June 27 to July 2, and July 10, 11, 13. Records fair except those for estimated daily discharges and those for June 25 to September 30, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.23	.20	.12	.09	.10	.22	.38	.13	.01	.26	.09
2	.13	.16	.18	.11	.09	.11	.25	.46	.32	.01	.11	.06
3	.13	.15	.16	.12	.10	.12	.23	.45	.26	.03	.05	.06
4	.12	.15	.15	.11	.10	.14	.24	.40	.12	.03	.02	.05
5	.11	.13	.13	.12	.11	.16	.22	.33	.08	.03	.05	.04
6	.11	.13	.13	.11	.11	.18	.18	.31	.06	.03	.03	.04
7	.23	.15	.16	.10	.10	.17	.21	.29	.05	.04	.01	.05
8	.18	.16	.20	.10	.09	.15	.23	.36	.04	.02	.02	.05
9	.15	.20	.23	.09	.08	.13	.26	.27	.03	.01	.01	.05
10	.14	.27	.21	.10	.09	.14	.35	.22	.03	.01	.07	.05
11	.14	.19	.19	.10	.09	.14	.35	.22	.03	.02	.08	.06
12	.14	.15	.18	.09	.08	.13	.50	.20	.03	.04	.01	.06
13	.14	.14	.16	.10	.08	.14	.64	1.1	.03	.06	.09	.07
14	.18	.14	.15	.11	.09	.20	.58	.70	.03	.14	.06	.10
15	.18	.16	.14	.12	.09	.30	.44	1.0	.03	.08	.02	.07
16	.17	.16	.14	.12	.10	.53	.37	.88	.03	.06	.02	.08
17	.31	.16	.13	.11	.11	.77	.27	.60	.03	.03	.02	.09
18	.91	.16	.12	.10	.12	.51	.23	.43	.05	.03	.03	.09
19	.37	.16	.11	.11	.12	.46	.21	.27	.15	.03	.03	.09
20	.20	.15	.10	.11	.11	.41	.18	.17	.12	.03	.04	.10
21	.18	.16	.09	.12	.10	.38	.18	.16	.09	.02	.04	.11
22	.17	.18	.08	.13	.09	.35	.17	.15	.12	.02	.04	.12
23	.15	.16	.08	.14	.09	.64	.14	.13	.09	.03	.04	.10
24	.15	.15	.08	.14	.10	.37	.12	.12	.06	.08	.04	.10
25	.15	.15	.09	.13	.09	.20	.32	.12	.03	.23	.04	.12
26	.15	.15	.10	.12	.10	.19	.24	.12	.02	.03	.04	.12
27	.15	.16	.09	.11	.11	.18	.18	.12	.01	.02	.03	.12
28	.15	.17	.09	.11	.10	.18	.19	.12	.01	.01	.08	.11
29	.14	.19	.10	.10	---	.19	.26	.12	.01	.01	.05	.11
30	.13	.20	.10	.09	---	.22	.33	.10	.01	.01	.04	.12
31	.26	---	.11	.09	---	.24	---	.11	---	.08	.08	---
TOTAL	5.95	4.97	4.18	3.43	2.73	8.13	8.29	10.41	2.10	1.28	1.55	2.48
MEAN	.19	.17	.13	.11	.097	.26	.28	.34	.070	.041	.050	.083
MAX	.91	.27	.23	.14	.12	.77	.64	1.1	.32	.23	.26	.12
MIN	.11	.13	.08	.09	.08	.10	.12	.10	.01	.01	.01	.04
AC-FT	12	9.9	8.3	6.8	5.4	16	16	21	4.2	2.5	3.1	4.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	.15	.16	.13	.11	.11	.22	.37	.26	.25	.068	.089	.10
MAX	.19	.17	.13	.11	.12	.26	.47	.34	.55	.10	.13	.18
(WY)	1994	1994	1994	1994	1993	1994	1993	1994	1993	1992	1993	1993
MIN	.11	.15	.12	.11	.097	.18	.28	.18	.070	.041	.050	.057
(WY)	1993	1993	1993	1993	1994	1993	1994	1993	1994	1994	1994	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1992 - 1994
ANNUAL TOTAL	74.38	55.50	--
ANNUAL MEAN	.20	.15	.17
HIGHEST ANNUAL MEAN	--	--	.19
LOWEST ANNUAL MEAN	--	--	.15
HIGHEST DAILY MEAN	2.5 Jun 3	1.1 May 13	2.5 Jun 3 1993
LOWEST DAILY MEAN	.01 Jul 28	.01 Jun 27 to Jul 2, Jul 9,10,28-30, Aug. 7,12	.01 Jul 28,29, Aug 1, 1993 Jun 27 to Jul 12, Jul 9,10,12-30, Aug 7,12,1994
ANNUAL SEVEN-DAY MINIMUM	.02 Jul 26	.01 Jun 26	.01 Jun 26 1994
INSTANTANEOUS PEAK FLOW	--	5.2 May 13	8.5 Jun 3 1993
INSTANTANEOUS PEAK STAGE	--	2.35 May 13	2.56 Jun 3 1993
ANNUAL RUNOFF (AC-FT)	148	110	125
10 PERCENT EXCEEDS	.38	.29	.30
50 PERCENT EXCEEDS	.13	.12	.12
90 PERCENT EXCEEDS	.06	.03	.04

06755880 DIAMOND CREEK AT MOUTH, AT F.E. WARREN AIR FORCE BASE, WY--Continued

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

MEAN	.15	.14	.11	.10	.12	.20	.32	.40	.53	.15	.093	.12
MAX	.19	.17	.13	.11	.15	.26	.47	.68	1.36	.40	.13	.18
(WY)	1994	1994	1994	1994	1995	1994	1993	1995	1995	1995	1993	1995
MIN	.11	.11	.068	.085	.097	.17	.22	.18	.070	.041	.050	.057
(WY)	1993	1995	1995	1995	1994	1995	1995	1993	1994	1994	1994	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	50.40	111.62	--	
ANNUAL MEAN	.14	.31	.22	
HIGHEST ANNUAL MEAN	--	--	.31	1995
LOWEST ANNUAL MEAN	--	--	.15	1994
HIGHEST DAILY MEAN	1.1	May 13	3.4	Jun 9,10 1995
LOWEST DAILY MEAN	.01	Jun 27 to Jul 2, Jul 9,10,28-30, Aug 7,12	.02	Dec 15,16 Aug 8,9 1992 Jul 28,29, Aug 1 1993, Jun 27 to Jul 2, Jul 9,10,28-30, Aug 7,12 1994
ANNUAL SEVEN-DAY MINIMUM	.01	Jun 26	.03	Dec 12
INSTANTANEOUS PEAK FLOW	--	--	9.3	Jun 7
INSTANTANEOUS PEAK STAGE	--	--	2.60	Jun 7
ANNUAL RUNOFF (AC-FT)	100	221	157	
10 PERCENT EXCEEDS	.27	.74	.40	
50 PERCENT EXCEEDS	.10	.14	.12	
90 PERCENT EXCEEDS	.03	.07	.05	

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

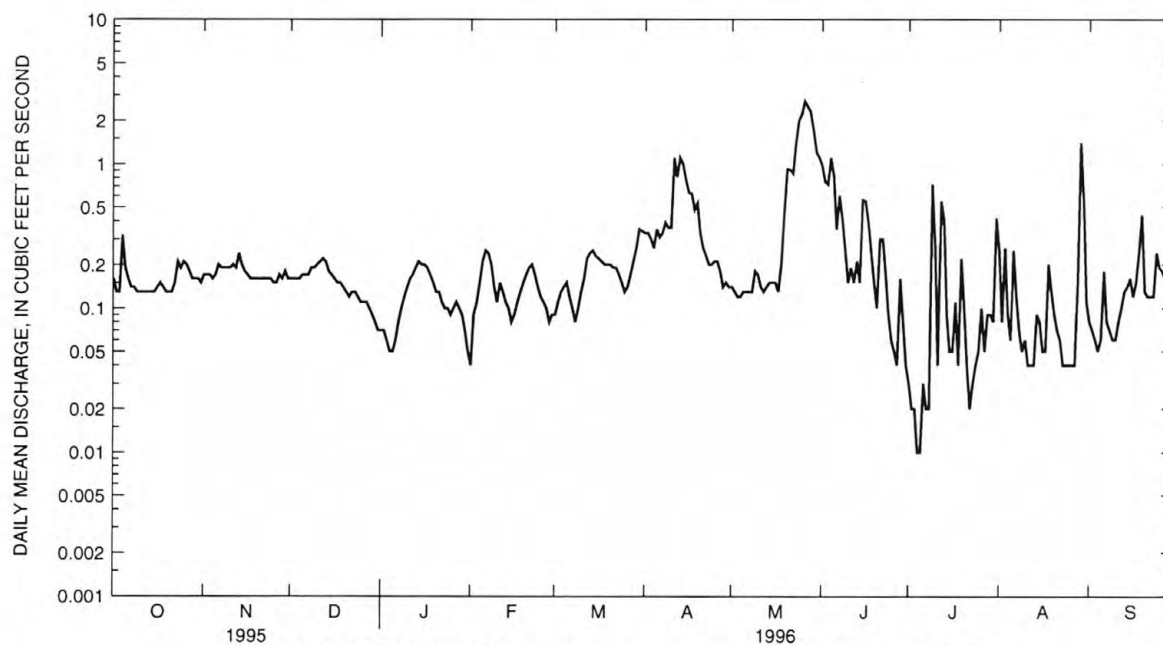
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.17	.16	.07	.04	.09	.33	.14	.97	.03	.25	.08
2	.13	.17	.16	.07	.09	.11	.33	.13	.75	.02	.08	.07
3	.13	.17	.16	.06	.11	.13	.30	.12	.72	.02	.26	.06
4	.32	.16	.16	.05	.15	.14	.26	.12	1.1	.01	.09	.05
5	.19	.17	.17	.05	.21	.15	.35	.13	.83	.01	.06	.06
6	.16	.20	.17	.06	.25	.12	.31	.13	.35	.03	.25	.18
7	.14	.19	.17	.08	.24	.10	.33	.13	.60	.02	.12	.08
8	.14	.19	.19	.10	.20	.08	.39	.13	.41	.02	.07	.07
9	.13	.19	.19	.12	.14	.10	.36	.18	.25	.72	.05	.06
10	.13	.19	.20	.14	.11	.13	.36	.17	.15	.28	.06	.06
11	.13	.20	.21	.16	.15	.16	1.1	.14	.19	.04	.04	.08
12	.13	.19	.22	.17	.13	.22	.81	.13	.15	.55	.04	.10
13	.13	.24	.21	.19	.11	.24	1.1	.14	.21	.41	.04	.13
14	.13	.20	.18	.21	.10	.25	1.0	.15	.15	.09	.09	.14
15	.13	.18	.17	.20	.08	.23	.78	.15	.56	.05	.08	.16
16	.14	.17	.16	.20	.09	.22	.63	.15	.55	.05	.05	.12
17	.15	.16	.15	.19	.11	.21	.62	.13	.39	.11	.05	.15
18	.14	.16	.15	.17	.13	.20	.48	.20	.24	.04	.20	.24
19	.13	.16	.14	.15	.15	.20	.53	.45	.15	.22	.13	.44
20	.13	.16	.13	.13	.17	.20	.33	.92	.10	.10	.09	.13
21	.13	.16	.12	.13	.19	.19	.26	.91	.30	.04	.07	.12
22	.15	.16	.13	.11	.20	.19	.23	.86	.30	.02	.06	.12
23	.21	.16	.13	.10	.17	.17	.20	1.4	.17	.03	.04	.12
24	.19	.16	.12	.10	.14	.15	.20	2.0	.09	.04	.04	.24
25	.21	.15	.11	.09	.12	.13	.21	2.2	.06	.05	.04	.19
26	.20	.15	.11	.10	.11	.14	.21	2.7	.05	.10	.04	.18
27	.18	.17	.11	.11	.10	.17	.18	2.5	.04	.05	.04	.16
28	.16	.16	.10	.10	.08	.21	.14	2.3	.16	.09	.15	.15
29	.16	.18	.09	.09	.09	.26	.15	1.7	.08	.09	1.4	.14
30	.16	.16	.08	.07	---	.35	.14	1.2	.04	.08	.56	.14
31	.15	---	.07	.05	---	.34	---	1.1	---	.42	.11	---
TOTAL	4.87	5.23	4.62	3.62	3.96	5.58	12.62	22.81	10.11	3.83	4.65	4.02
MEAN	.16	.17	.15	.12	.14	.18	.42	.74	.34	.12	.15	.13
MAX	.32	.24	.22	.21	.25	.35	1.1	2.7	1.1	.72	1.4	.44
MIN	.13	.15	.07	.05	.04	.08	.14	.12	.04	.01	.04	.05
AC-FT	9.7	10	9.2	7.2	7.9	11	25	45	20	7.6	9.2	8.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	.15	.15	.12	.11	.13	.20	.35	.48	.49	.15	.10	.13
MAX	.19	.17	.15	.12	.15	.26	.47	.74	1.36	.40	.15	.18
(WY)	1994	1996	1996	1996	1995	1994	1993	1996	1995	1995	1996	1995
MIN	.11	.11	.068	.085	.097	.17	.22	.18	.070	.041	.050	.057
(WY)	1993	1995	1995	1995	1994	1995	1995	1993	1994	1994	1994	1992

06755880 DIAMOND CREEK AT MOUTH, AT F.E. WARREN AIR FORCE BASE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	116.34	85.92	--
ANNUAL MEAN	.32	.23	.22
HIGHEST ANNUAL MEAN	--	--	.31
LOWEST ANNUAL MEAN	--	--	.15
HIGHEST DAILY MEAN	3.4 Jun 9	2.7 May 26	3.4 Jun 9,10 1995
LOWEST DAILY MEAN	.04 Jul 27-29	.01 Jul 4,5	.01 Many days 1994
ANNUAL SEVEN-DAY MINIMUM	.05 Jul 25	.02 Jul 2	.01 Jun 26 1994
INSTANTANEOUS PEAK FLOW	--	10 Aug 29	10 Aug 29 1996
INSTANTANEOUS PEAK STAGE	--	2.65 Aug 29	2.65 Aug 29 1996
ANNUAL RUNOFF (AC-FT)	231	170	161
10 PERCENT EXCEEDS	.74	.41	.40
50 PERCENT EXCEEDS	.17	.15	.13
90 PERCENT EXCEEDS	.08	.05	.05



06755880 DIAMOND CREEK AT MOUTH, AT F.E. WARREN AIR FORCE BASE, WY

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 R.E. Warren AFB, and 2 mi downstream from mouth of Diamond Creek.

DRAINAGE AREA.--253 mi².

PERIOD OF RECORD.--March 1994 to September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,070 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 23, Oct. 31 to Nov. 5, Nov. 11, 28, 29, Dec. 7, 8, 15, 17-20, 23, Jan. 1-7, Jan. 11 to Feb. 17, Feb. 26 to Mar. 1, Mar. 6-8, Mar. 16 to Apr. 14, and Sept. 6-30. Records fair except those for estimated daily discharges, which are poor.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Mar. 21 to June 12, and Aug. 31 to Sept. 30. Records fair except those for estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.1	3.9	1.1	.42	3.5	.80
2	---	---	---	---	---	---	3.2	4.0	1.0	.45	1.8	.80
3	---	---	---	---	---	---	3.4	3.2	1.1	.46	.94	.80
4	---	---	---	---	---	---	3.6	2.9	1.0	.45	.73	.70
5	---	---	---	---	---	---	3.5	2.7	.90	.44	.68	.70
6	---	---	---	---	---	---	3.4	2.5	.85	.45	.61	.70
7	---	---	---	---	---	---	3.5	2.4	.80	.49	.54	.70
8	---	---	---	---	---	---	3.6	2.5	.77	.48	.58	.80
9	---	---	---	---	---	---	3.8	2.1	.70	.44	.59	.80
10	---	---	---	---	---	---	4.2	1.9	.62	.41	.58	1.0
11	---	---	---	---	---	---	4.9	1.9	.62	.47	.75	1.2
12	---	---	---	---	---	---	5.4	1.8	.62	.54	.62	1.3
13	---	---	---	---	---	---	5.5	1.1	.62	.76	.87	1.8
14	---	---	---	---	---	---	8.2	7.0	.62	.86	.82	2.0
15	---	---	---	---	---	---	4.6	4.5	.58	2.5	.69	1.7
16	---	---	---	---	---	---	3.8	3.8	.59	1.0	.62	1.7
17	---	---	---	---	---	---	3.2	2.8	.57	.73	.59	1.7
18	---	---	---	---	---	---	2.9	2.2	.55	.58	.54	1.6
19	---	---	---	---	---	---	2.7	1.8	.82	.51	.55	1.7
20	---	---	---	---	---	---	2.9	1.7	.84	.50	.55	1.7
21	---	---	---	---	---	5.6	2.7	1.6	.75	.48	.57	1.8
22	---	---	---	---	---	5.6	2.6	1.5	.80	.42	.62	1.9
23	---	---	---	---	---	4.0	2.2	1.4	.68	.43	.61	1.8
24	---	---	---	---	---	3.9	1.9	1.3	.62	.69	.58	1.7
25	---	---	---	---	---	3.6	2.2	1.4	.58	1.5	.56	1.4
26	---	---	---	---	---	3.4	2.0	1.2	.52	.57	.54	1.5
27	---	---	---	---	---	3.8	1.9	.95	.45	.52	.52	1.8
28	---	---	---	---	---	3.4	2.5	.85	.45	.47	.60	2.0
29	---	---	---	---	---	3.2	3.2	.78	.46	.45	.59	2.4
30	---	---	---	---	---	2.9	3.6	.72	.45	.45	.57	2.6
31	---	---	---	---	---	2.9	---	.90	---	.55	.80	---
TOTAL	---	---	---	---	---	42.3	104.2	79.20	21.03	19.47	23.71	43.10
MEAN	---	---	---	---	---	3.85	3.47	2.55	.70	.63	.76	1.44
MAX	---	---	---	---	---	5.6	8.2	11	1.1	2.5	3.5	2.6
MIN	---	---	---	---	---	2.9	1.9	.72	.45	.41	.52	.70
AC-FT	---	---	---	---	---	84	207	157	42	39	47	85

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

	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	3.47	2.55	.70	.63	.76	1.44
MAX	---	---	---	---	---	---	3.47	2.55	.70	.63	.76	1.44
(WY)	---	---	---	---	---	---	1994	1994	1994	1994	1994	1994
MIN	---	---	---	---	---	---	3.47	2.55	.70	.63	.76	1.44
(WY)	---	---	---	---	---	---	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR*

HIGHEST DAILY MEAN	11	May 13
LOWEST DAILY MEAN	.41	Jul 10
INSTANTANEOUS PEAK FLOW	a	
INSTANTANEOUS PEAK STAGE	a	
10 PERCENT EXCEEDS	3.7	
50 PERCENT EXCEEDS	.98	
90 PERCENT EXCEEDS	.48	

* During period of operation.

a Not determined, probably occurred May 13 during a period of estimated record.

PLATTE RIVER BASIN

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06755950 CROW CREEK AT F.E. WARREN AIR FORCE BASE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	1.92	1.31	1.27	1.30	1.49	1.26	2.59	5.11	34.2	11.6	1.68	1.53
MAX	1.92	1.31	1.27	1.30	1.49	1.26	3.47	7.66	67.7	22.6	2.60	1.62
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MIN	1.92	1.31	1.27	1.30	1.49	1.26	1.71	2.55	.70	.63	.76	1.44
(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	3411.13	--	
ANNUAL MEAN	9.35	9.35	
HIGHEST ANNUAL MEAN	--	9.35	1995
LOWEST ANNUAL MEAN	--	9.35	1995
HIGHEST DAILY MEAN	105	105	Jun 9 1995
LOWEST DAILY MEAN	.92	.41	Jul 10 1994
ANNUAL SEVEN-DAY MINIMUM	.98	.45	Jun 30 1994
INSTANTANEOUS PEAK FLOW	a	a	
INSTANTANEOUS PEAK STAGE	a	a	
ANNUAL RUNOFF (AC-FT)	6770	6770	
10 PERCENT EXCEEDS	34	13	
50 PERCENT EXCEEDS	1.5	1.5	
90 PERCENT EXCEEDS	1.2	.62	

a Not determined, probably occurred June 9 during a period of estimated record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	9.6	11	7.6	6.0	6.2	9.2	7.8	13	1.1	1.9	1.3
2	1.9	9.4	10	7.2	5.6	6.4	9.2	7.7	11	1.1	1.1	1.2
3	2.3	10	10	7.4	5.2	6.9	9.0	6.5	10	.98	1.4	1.0
4	2.1	12	10	7.0	5.4	7.2	9.4	5.9	9.7	.87	.89	.90
5	2.3	14	9.9	6.0	5.6	8.1	10	5.4	9.2	.83	.75	.78
6	2.0	15	11	6.2	5.8	7.6	10	4.4	7.6	.83	.88	1.2
7	1.7	13	11	7.0	6.0	6.8	11	4.5	6.7	.80	.99	.86
8	1.7	13	10	8.0	6.0	6.4	11	4.7	6.2	.78	.75	.76
9	1.6	13	9.0	8.0	6.2	6.5	11	5.2	5.6	2.3	.70	.72
10	1.9	13	10	8.8	6.2	7.2	11	5.6	4.8	1.6	.66	.70
11	2.1	12	11	9.4	6.4	6.9	19	5.4	4.2	.93	.60	.74
12	2.8	12	11	9.6	6.6	5.5	23	5.0	3.8	1.1	.55	.86
13	3.2	12	11	10	7.0	5.1	26	4.8	4.1	1.5	.67	1.9
14	3.1	12	10	9.8	6.8	5.7	27	4.7	4.0	1.1	.66	1.1
15	3.6	12	10	9.8	6.6	6.1	27	4.6	4.3	.87	.77	.96
16	3.2	12	9.8	9.8	7.2	6.4	25	4.8	4.8	.76	.70	.92
17	5.0	12	9.6	9.4	8.2	6.2	24	4.9	4.3	.83	.63	.96
18	5.8	11	9.4	8.8	8.6	6.2	22	4.5	3.5	.67	.69	.98
19	5.4	11	9.2	8.6	9.5	6.0	22	4.7	2.7	1.2	.91	1.5
20	6.1	11	9.4	8.8	10	6.2	20	6.4	2.3	.92	.83	1.0
21	6.9	10	8.7	8.8	11	6.4	15	5.8	2.3	.69	.78	.94
22	7.3	11	8.0	8.4	11	6.4	11	5.0	3.2	.62	.72	.96
23	8.0	10	8.0	8.2	9.2	6.8	10	8.6	3.0	.70	.70	.94
24	11	10	8.3	8.0	8.8	6.6	8.9	10	2.3	.78	.65	1.3
25	12	11	8.2	7.8	9.2	6.4	8.2	11	1.9	.86	.70	1.1
26	12	10	8.1	7.2	8.2	6.6	7.5	17	1.6	.96	.58	1.1
27	11	11	8.4	7.0	7.2	7.2	7.3	18	1.4	.95	.62	1.1
28	11	10	7.5	7.2	6.6	8.2	7.8	19	1.5	1.2	.76	1.1
29	11	11	7.5	7.4	6.0	10	7.9	18	1.5	1.4	.78	1.2
30	11	11	7.1	7.0	---	9.6	7.9	19	1.2	1.2	5.8	1.2
31	10	---	7.8	6.4	---	9.2	---	15	---	2.5	1.6	---
TOTAL	170.6	344.0	289.9	250.6	212.1	213.0	427.3	253.9	141.7	32.93	37.74	31.28
MEAN	5.50	11.5	9.35	8.08	7.31	6.87	14.2	8.19	4.72	1.06	1.22	1.04
MAX	12	15	11	10	11	10	27	19	13	2.5	7.8	1.9
MIN	1.6	9.4	7.1	6.0	5.2	5.1	7.3	4.4	1.2	.62	.55	.70
AC-FT	338	682	575	497	421	422	848	504	281	65	75	62

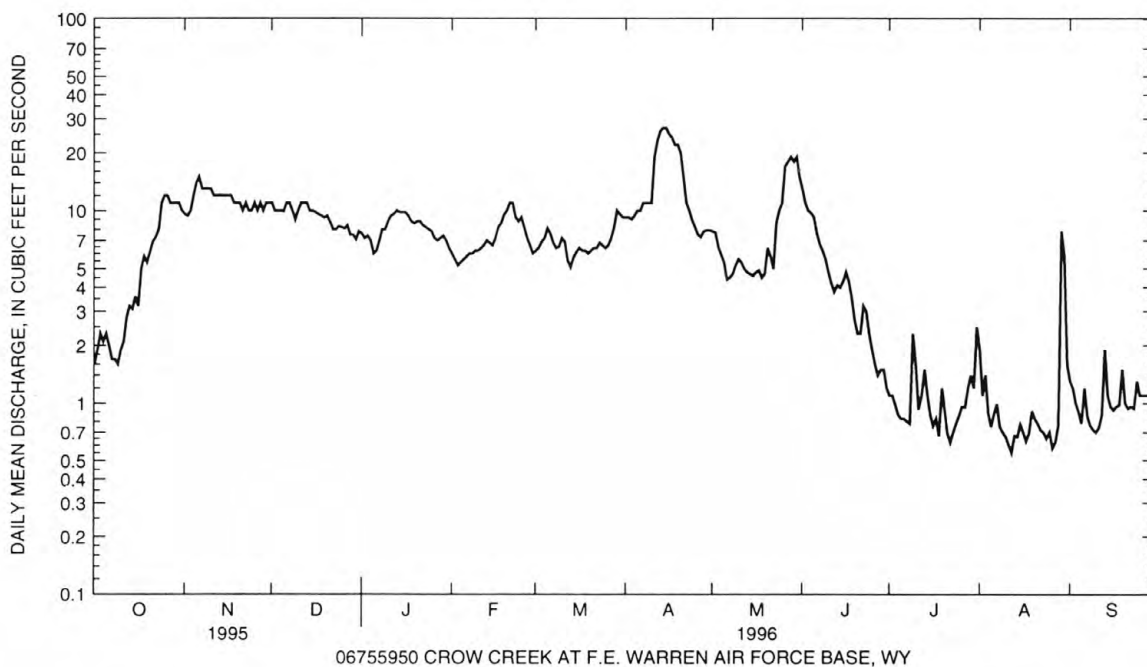
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	3.71	6.39	5.31	4.69	4.45	4.06	6.48	6.13	24.4	8.11	1.53	1.37
MAX	5.50	11.5	9.35	8.08	7.31	6.87	14.2	8.19	67.7	22.6	2.60	1.62
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995
MIN	1.92	1.31	1.27	1.30	1.49	1.26	1.71	2.55	.70	.63	.76	1.04
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1996

06755950 CROW CREEK AT F.E. WARREN AIR FORCE BASE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	4077.53	2405.05	--
ANNUAL MEAN	11.2	6.57	7.96
HIGHEST ANNUAL MEAN	--	--	9.35
LOWEST ANNUAL MEAN	--	--	6.57
HIGHEST DAILY MEAN	105 Jun 9	27 Apr 14	105 Jun 9 1995
LOWEST DAILY MEAN	.92 Jan 3	.55 Aug 12	.41 Jul 10 1994
ANNUAL SEVEN-DAY MINIMUM	1.0 Jan 1	.65 Aug 11	.45 Jun 30 1994
INSTANTANEOUS PEAK FLOW	-- 0	54 Aug 29	a
INSTANTANEOUS PEAK STAGE	--	2.32 Aug 29	a
ANNUAL RUNOFF (AC-FT)	8090	4770	5760
10 PERCENT EXCEEDS	34	11	11
50 PERCENT EXCEEDS	2.8	6.4	1.9
90 PERCENT EXCEEDS	1.2	.83	.73

a Not determined, probably occurred June 9, 1995 during a period of estimated record.



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. 2-5, 28, Dec. 7-9, Dec. 14 to Jan. 2, Jan. 4-7, Jan. 11 to Mar. 10, and Mar. 24-28. Records fair except those for estimated daily discharges, which are 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.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Oct. 1-24, Nov. 13, 23-26, Dec. 3-7, 13-20, 29, 30, Jan. 1-7, 11-13, Jan. 15 to Feb. 26, Mar. 1, 8-10, and Mar. 28 to May 1. Records good except those for estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.7	2.2	1.9	1.6	3.7	3.9	4.0	2.5	1.1	9.1	1.4
2	1.9	2.3	2.2	1.8	1.6	4.1	3.8	4.8	7.3	1.1	4.0	1.2
3	1.9	2.1	2.2	2.0	1.7	5.1	3.9	4.1	2.5	1.2	1.9	1.2
4	2.1	2.2	2.0	2.2	1.7	5.7	3.8	3.8	1.8	1.1	1.3	1.2
5	1.9	2.0	2.0	2.1	1.7	7.4	3.7	3.6	1.6	1.1	1.3	1.1
6	1.9	2.1	2.0	2.1	1.7	7.5	3.9	3.3	1.5	1.1	1.3	1.1
7	2.5	2.0	2.1	2.1	1.7	6.0	4.2	3.4	1.5	1.2	1.1	1.1
8	2.0	2.0	2.1	2.1	1.7	5.4	4.6	4.2	1.5	1.2	1.2	1.1
9	1.9	1.9	2.1	2.1	1.7	5.0	5.2	3.3	1.4	1.1	1.3	1.2
10	1.8	1.8	2.2	2.3	1.7	5.2	5.4	3.2	1.4	1.0	1.4	1.9
11	1.8	1.8	2.2	2.0	1.7	5.2	6.6	3.2	1.4	1.6	1.5	2.1
12	2.2	2.0	2.2	1.9	1.7	5.7	7.8	2.8	1.4	1.2	1.3	2.2
13	1.9	2.0	2.2	1.8	1.8	5.8	6.6	16	1.4	3.8	2.4	3.7
14	2.1	2.2	2.0	2.0	1.9	6.2	6.0	8.8	1.3	2.8	1.5	4.0
15	1.9	2.1	2.1	1.9	1.9	6.0	5.0	6.0	1.3	4.5	1.3	3.3
16	1.9	2.2	2.2	1.8	2.2	6.1	4.5	4.9	1.3	1.6	1.3	3.3
17	5.8	2.1	2.2	1.6	2.6	6.2	3.7	4.2	1.3	1.2	1.3	3.3
18	14	2.5	2.1	1.7	3.0	6.0	3.0	3.5	1.3	1.0	1.2	3.3
19	2.8	2.3	2.0	1.9	2.6	5.8	2.8	2.9	3.0	.97	1.2	3.5
20	2.4	2.3	2.0	1.9	2.4	5.8	2.6	2.6	1.8	.97	1.2	3.5
21	2.4	2.3	2.1	2.0	2.3	5.4	2.4	2.3	1.7	.95	1.2	3.6
22	2.4	2.2	2.3	2.0	2.2	5.4	2.3	2.2	1.7	1.0	1.5	3.8
23	2.3	2.1	2.5	2.0	2.2	5.1	2.1	2.1	1.5	1.1	1.2	3.4
24	2.4	2.1	2.6	2.0	2.6	4.7	2.0	2.0	1.4	3.3	1.1	3.1
25	2.5	2.0	2.7	1.9	2.2	4.3	3.4	3.5	1.3	4.3	1.1	1.7
26	2.5	2.3	2.5	1.8	2.8	4.1	3.0	2.5	1.2	1.2	1.1	1.8
27	2.6	2.8	2.2	1.7	3.6	4.0	2.8	2.0	1.2	1.1	1.0	2.3
28	2.9	2.8	2.1	1.7	3.7	3.6	3.0	1.9	1.3	1.1	1.2	3.6
29	2.5	2.5	2.1	1.7	---	3.5	3.2	1.9	1.2	1.2	1.1	3.5
30	2.7	2.3	2.0	1.6	---	3.7	3.4	1.8	1.1	1.2	1.1	3.5
31	2.7	---	1.8	1.6	---	3.8	---	3.6	---	2.2	1.5	---
TOTAL	84.4	66.0	67.2	59.2	60.2	161.5	118.6	118.4	52.1	49.49	51.2	75.0
MEAN	2.72	2.20	2.17	1.91	2.15	5.21	3.95	3.82	1.74	1.60	1.65	2.50
MAX	14	2.8	2.7	2.3	3.7	7.5	7.8	16	7.3	4.5	9.1	4.0
MIN	1.8	1.8	1.8	1.6	1.6	3.5	2.0	1.8	1.1	.95	1.0	1.1
AC-FT	167	131	133	117	119	320	235	235	103	98	102	149

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

	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MEAN	2.72	2.20	2.17	1.91	2.15	5.21	3.95	3.82	1.74	1.60	1.65	2.50
MAX	2.72	2.20	2.17	1.91	2.15	5.21	3.95	3.82	1.74	1.60	1.65	2.50
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	2.72	2.20	2.17	1.91	2.15	5.21	3.95	3.82	1.74	1.60	1.65	2.50
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

ANNUAL TOTAL	963.29
ANNUAL MEAN	2.64
HIGHEST DAILY MEAN	16 May 13
LOWEST DAILY MEAN	.95 Jul 21
ANNUAL SEVEN-DAY MINIMUM	1.0 Jul 17
INSTANTANEOUS PEAK FLOW	66 May 13
INSTANTANEOUS PEAK STAGE	3.03 May 13
ANNUAL RUNOFF (AC-FT)	1910
10 PERCENT EXCEEDS	4.8
50 PERCENT EXCEEDS	2.1
90 PERCENT EXCEEDS	1.2

PLATTE RIVER BASIN

06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	2.61	1.83	1.78	1.70	1.88	3.40	2.95	6.73	37.5	14.1	2.71	2.77
MAX	2.72	2.20	2.17	1.91	2.15	5.21	3.95	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	3.82	1.74	1.60	1.65	2.50
(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	910.09				3895.3				--			
ANNUAL MEAN	2.49				10.7				6.66			
HIGHEST ANNUAL MEAN	--				--				10.7			1995
LOWEST ANNUAL MEAN	--				--				2.64			1994
HIGHEST DAILY MEAN	16		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)	1810				7730				4820			
10 PERCENT EXCEEDS		4.9				44				9.5		
50 PERCENT EXCEEDS		1.8				1.8				2.0		
90 PERCENT EXCEEDS		1.2				1.3				1.3		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

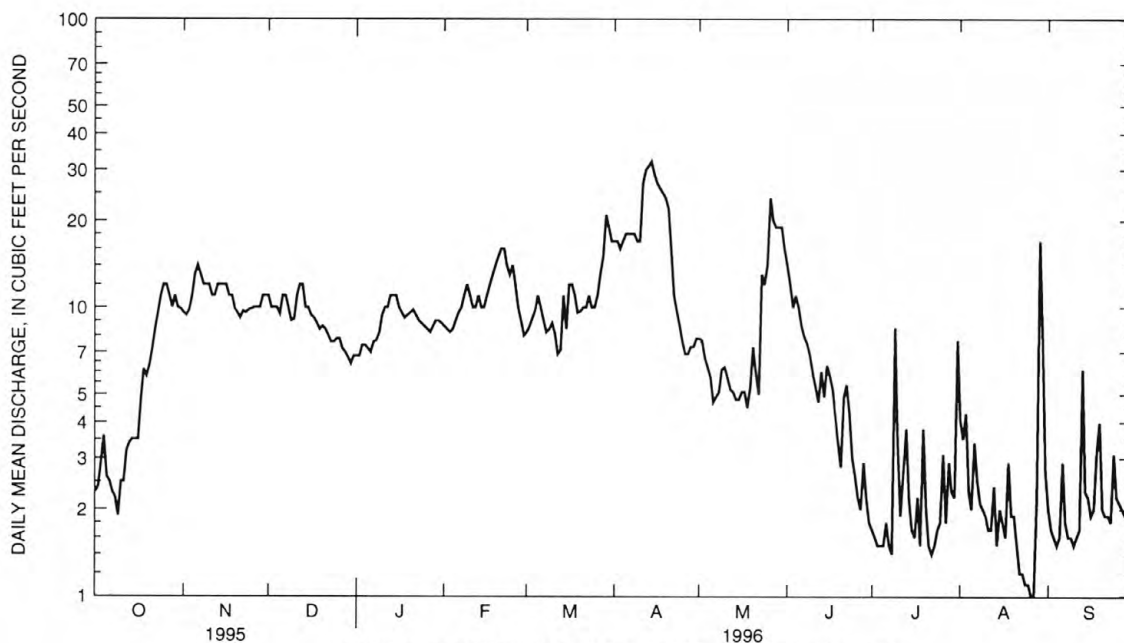
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	9.6	11	6.8	8.6	8.2	17	7.8	14	1.7	4.1	2.0
2	2.4	9.4	10	6.8	8.4	8.6	17	7.7	12	1.6	3.5	1.7
3	2.9	9.8	10	7.4	8.2	9.2	16	6.7	10	1.5	4.3	1.6
4	3.6	11	10	7.4	8.4	9.8	17	6.2	11	1.5	2.3	1.5
5	2.6	13	9.5	7.2	9.0	11	18	5.7	10	1.5	2.0	1.6
6	2.5	14	11	7.0	9.6	10	18	4.7	8.6	1.8	3.4	2.9
7	2.3	13	11	7.6	10	9.0	18	4.9	7.9	1.5	2.5	1.8
8	2.2	12	10	7.7	11	8.2	18	5.1	7.5	1.4	2.1	1.6
9	1.9	12	9.0	8.2	12	8.4	17	6.1	6.8	8.5	2.0	1.6
10	2.5	12	9.1	9.4	11	8.8	17	6.2	5.9	3.4	1.9	1.5
11	2.5	11	11	10	10	8.1	27	5.7	5.3	1.9	1.7	1.6
12	3.2	11	12	10	10	6.9	30	5.2	4.7	2.7	1.7	1.7
13	3.4	12	12	11	11	7.1	31	5.1	6.0	3.8	2.4	6.1
14	3.5	12	10	11	10	11	32	4.8	4.9	2.2	1.5	2.3
15	3.5	12	10	11	10	8.4	29	4.8	6.3	1.7	2.0	2.2
16	3.5	12	9.4	10	11	12	27	5.1	5.8	1.6	1.8	1.9
17	4.8	11	9.2	9.6	12	12	26	5.1	5.2	2.2	1.6	2.0
18	6.1	11	8.8	9.2	13	11	25	4.5	4.2	1.5	2.9	3.1
19	5.8	9.9	8.4	9.4	14	9.6	24	5.3	3.4	3.8	1.9	4.0
20	6.3	9.6	8.6	9.6	15	9.7	22	7.3	2.8	2.0	1.9	2.0
21	7.2	9.2	8.4	9.8	16	10	16	5.9	4.9	1.5	1.5	1.9
22	8.4	9.7	8.0	9.4	16	10	11	5.0	5.4	1.4	1.2	1.9
23	9.6	9.6	7.6	9.0	14	11	9.7	13	4.3	1.5	1.2	1.8
24	11	9.8	7.6	8.8	13	10	8.6	12	3.0	1.7	1.1	3.1
25	12	9.9	7.8	8.6	14	10	7.6	14	2.6	1.8	1.1	2.2
26	12	10	7.8	8.4	12	11	6.9	24	2.2	3.1	1.0	2.1
27	11	10	7.2	8.2	10	13	6.9	20	2.0	1.8	1.0	2.0
28	10	10	7.0	8.6	9.0	15	7.3	19	2.9	2.9	2.2	1.9
29	11	11	6.7	9.0	8.0	21	7.3	19	2.2	2.3	17	1.9
30	10	11	6.4	9.0	---	19	7.8	19	1.8	2.2	7.8	1.8
31	9.9	---	6.8	8.8	---	17	---	16	---	7.7	2.7	---
TOTAL	179.9	327.5	281.3	273.9	324.2	334.0	535.1	280.9	173.6	75.7	85.3	65.3
MEAN	5.80	10.9	9.07	8.84	11.2	10.8	17.8	9.06	5.79	2.44	2.75	2.18
MAX	12	14	12	11	16	21	32	24	14	8.5	17	6.1
MIN	1.9	9.2	6.4	6.8	8.0	6.9	6.9	4.5	1.8	1.4	1.0	1.5
AC-FT	357	650	558	543	643	662	1060	557	344	150	169	130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	3.68	4.86	4.21	4.08	5.05	5.86	7.91	7.51	26.9	10.2	2.73	2.57
MAX	5.80	10.9	9.07	8.84	11.2	10.8	17.8	9.65	73.3	26.7	3.78	3.03
(WY)	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995
MIN	2.50	1.46	1.39	1.48	1.61	1.60	1.95	3.82	1.74	1.60	1.65	2.18
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1996

06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	4519.6	2936.7	--
ANNUAL MEAN	12.4	8.02	7.11
HIGHEST ANNUAL MEAN	--	--	10.7
LOWEST ANNUAL MEAN	--	--	2.64
HIGHEST DAILY MEAN	118 Jun 9	32 Apr 14	118 Jun 9 1995
LOWEST DAILY MEAN	1.2 Several days	1.0 Aug 26,27	.95 Jul 21 1994
ANNUAL SEVEN-DAY MINIMUM	1.3 Feb 11	1.2 Aug 21	1.0 Jul 17 1994
INSTANTANEOUS PEAK FLOW	--	102 Aug 29	139 Jul 2 1995
INSTANTANEOUS PEAK STAGE	--	3.44 Aug 29	3.69 Jul 2 1995
ANNUAL RUNOFF (AC-FT)	8960	5820	5150
10 PERCENT EXCEEDS	44	14	13
50 PERCENT EXCEEDS	4.0	8.0	2.5
90 PERCENT EXCEEDS	1.4	1.8	1.3



06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY

PLATTE RIVER BASIN

06756060 CROW CREEK NEAR ARCHER, WY

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.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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 11...	1530	11	853	8.1	17.0	17.0	624
FEB 07...	1145	24	1180	8.1	7.0	12.0	618
MAY 13...	0845	9.3	779	8.2	13.0	16.5	618
AUG 14...	0900	14	746	8.0	17.0	26.5	628

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 11...	7.4	94	120	0.42	6.3	0.49	1.3
FEB 07...	9.2	94	150	0.13	2.5	3.4	1.1
MAY 13...	12.6	148	135	0.55	2.9	3.5	1.7
AUG 14...	8.0	101	300	0.57	4.6	1.2	1.5

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 September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,480 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9-11, Dec. 17 to Feb. 18, and May 14 to June 17. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation.

REVISIONS.--Revised figures of discharge for the water year 1994, and the statistics for water year 1995, superseding those published in the report for 1994 and 1995, are given below. Estimated daily discharges for 1994: Nov. 19 to Dec. 11, Dec. 13-30, Jan. 1 to Feb. 27, Mar. 1, 4, 8-10, 13, 23-30, and May 29 to June 26. Records fair except those for estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	15	19	5.0	9.4	7.4	6.3	1.9	.78	.81	.82	1.4
2	34	15	18	5.6	11	7.6	5.9	2.9	1.0	.92	.79	1.6
3	34	15	17	8.0	12	8.3	5.6	2.9	1.5	1.0	.74	1.5
4	38	15	18	9.8	12	9.0	5.1	1.9	1.0	.99	.70	1.7
5	38	14	16	12	12	8.0	4.5	1.5	.80	1.0	.77	1.6
6	35	15	15	10	12	8.0	4.7	1.6	.74	1.1	.74	1.6
7	32	17	15	8.0	11	7.1	4.3	2.3	.70	1.1	.67	1.6
8	30	19	16	8.6	10	6.4	4.0	2.3	.68	1.2	.70	1.6
9	29	21	18	9.0	9.0	6.6	4.5	1.5	.66	1.1	.72	1.6
10	29	22	20	9.6	9.6	6.8	5.1	1.4	.64	1.1	.71	1.6
11	27	23	22	10	11	6.6	5.1	1.3	.62	1.2	.74	1.5
12	27	22	12	11	10	7.7	21	1.3	.60	1.2	.78	1.5
13	18	21	11	12	11	11	7.8	1.4	.60	1.2	.89	1.5
14	16	20	11	13	12	16	3.8	1.3	.58	1.3	.83	1.6
15	16	20	7.4	14	13	17	3.2	1.2	.58	1.2	.82	1.5
16	18	21	6.0	13	14	16	3.3	1.1	.56	1.2	.76	1.5
17	20	22	5.0	12	15	15	3.7	1.1	.56	1.2	.78	1.6
18	26	19	4.4	13	16	14	4.2	1.1	.54	1.1	.88	1.7
19	32	18	4.2	14	16	16	4.1	1.1	.54	1.1	.89	1.7
20	37	19	4.1	16	14	21	3.8	1.0	.70	1.3	1.1	1.8
21	25	20	3.8	17	13	22	3.8	.96	.64	1.0	1.1	1.8
22	20	19	3.5	17	11	23	3.4	.97	.58	.95	1.2	2.3
23	17	17	3.2	18	9.0	22	3.0	.92	.56	.95	1.1	4.0
24	17	14	3.5	17	8.6	18	2.4	.93	.54	.92	1.2	3.5
25	18	12	3.9	16	7.4	17	2.1	.96	.54	.95	1.2	2.7
26	17	11	4.2	14	8.0	14	1.9	1.0	.54	.89	1.2	2.9
27	17	13	3.7	13	7.4	10	2.1	1.1	.55	.86	1.3	2.9
28	17	16	3.6	12	6.8	9.0	3.4	.89	.62	.84	1.3	2.9
29	16	19	3.7	11	---	8.2	3.8	.77	.72	.81	1.3	2.3
30	15	20	3.8	10	---	8.0	3.6	.74	.73	.78	1.3	2.1
31	16	---	3.9	9.0	---	7.9	---	.72	---	.77	1.3	---
TOTAL	764	534	299.9	367.6	311.2	374.6	139.5	42.06	20.40	32.04	29.33	59.1
MEAN	24.6	17.8	9.67	11.9	11.1	12.1	4.65	1.36	.68	1.03	.95	1.97
MAX	38	23	22	18	16	23	21	2.9	1.5	1.3	1.3	4.0
MIN	15	11	3.2	5.0	6.8	6.4	1.9	.72	.54	.77	.67	1.4
AC-FT	1520	1060	595	729	617	743	277	83	40	64	58	117

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

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	14.4	15.9	8.73	9.24	9.06	15.6	3.78	5.07	46.1	8.26	8.70	7.73
MAX	24.6	24.2	15.5	16.0	11.5	34.8	4.92	12.0	182	29.9	31.3	13.9
(WY)	1994	1992	1992	1991	1992	1992	1991	1991	1991	1991	1991	1991
MIN	4.87	6.86	3.65	2.26	2.15	7.55	2.28	1.36	.68	1.03	.95	1.97
(WY)	1993	1993	1991	1993	1993	1991	1992	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1990 - 1994
ANNUAL TOTAL	3223.0	2973.73	--
ANNUAL MEAN	8.83	8.15	13.3
HIGHEST ANNUAL MEAN	--	--	28.2
LOWEST ANNUAL MEAN	--	--	5.94
HIGHEST DAILY MEAN	78	38	636
LOWEST DAILY MEAN	1.0	.54	.54
ANNUAL SEVEN-DAY MINIMUM	1.2	.56	.56
INSTANTANEOUS PEAK FLOW	--	40 ^a	789
INSTANTANEOUS PEAK STAGE	--	3.66 ^b	6.09
ANNUAL RUNOFF (AC-FT)	6390	5900	9640
10 PERCENT EXCEEDS	22	19	24
50 PERCENT EXCEEDS	3.3	4.2	5.4
90 PERCENT EXCEEDS	1.6	.77	1.4

a Gage height, 2.46 ft.

b Ice jam.

YELLOWSTONE RIVER BASIN

06756100 CROW CREEK NEAR CARPENTER, WY--Continued

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

MEAN	12.9	15.6	8.28	7.72	7.76	12.9	3.46	8.74	55.4	12.7	7.61	8.21
MAX	24.6	24.2	15.5	16.0	11.5	34.8	4.92	27.1	182	34.8	31.3	13.9
(WY)	1994	1992	1992	1991	1992	1992	1991	1995	1991	1995	1991	1991
MIN	4.87	6.86	3.65	1.62	2.15	1.87	2.17	1.36	.68	1.03	.95	1.97
(WY)	1993	1993	1991	1995	1993	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1990 - 1995

ANNUAL TOTAL	2229.03	6463.58	--	
ANNUAL MEAN	6.11	17.7	14.2	
HIGHEST ANNUAL MEAN	--	--	28.2	1991
LOWEST ANNUAL MEAN	--	--	5.94	1993
HIGHEST DAILY MEAN	23	Mar 22	156	Jun 5
LOWEST DAILY MEAN	.54	Jun 18, 19	.48	Aug 28
ANNUAL SEVEN-DAY MINIMUM	.56	Jun 22	.63	Aug 26
INSTANTANEOUS PEAK FLOW	--	--	163	Jun 4
INSTANTANEOUS PEAK STAGE	--	--	3.70	Jun 4
ANNUAL RUNOFF (AC-FT)	4420	12820	10280	
10 PERCENT EXCEEDS	15	54	26	
50 PERCENT EXCEEDS	4.2	4.5	5.2	
90 PERCENT EXCEEDS	.77	1.2	1.4	

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	25	19	5.2	3.1	40	33	6.0	1.7	3.5	1.1	19
2	42	23	20	5.4	3.0	40	34	4.7	1.7	3.6	1.0	17
3	33	30	21	4.5	3.0	32	33	5.7	1.7	3.8	1.1	16
4	25	30	21	3.5	3.4	28	32	6.3	1.6	3.6	.89	15
5	14	9.9	21	3.6	4.0	24	33	8.5	1.6	3.6	.81	18
6	13	4.9	21	3.7	5.0	22	33	5.4	1.6	3.9	1.1	20
7	12	3.8	24	3.7	6.0	27	32	4.8	1.6	4.3	.76	23
8	11	3.4	25	3.7	8.0	24	31	3.0	1.6	3.9	.72	19
9	10	3.2	25	3.7	10	27	28	2.5	1.6	3.0	1.6	15
10	10	30	25	3.7	12	23	15	4.3	1.5	2.4	1.9	13
11	9.7	48	25	4.0	11	24	16	3.0	1.5	1.2	1.8	13
12	10	51	24	4.3	11	24	18	2.1	1.5	1.88	2.0	15
13	12	51	21	4.6	15	22	32	2.0	1.5	1.5	3.7	16
14	10	45	21	4.4	15	24	46	2.0	1.5	1.6	4.6	13
15	10	40	22	4.3	14	23	54	2.0	1.5	3.4	5.7	18
16	7.2	35	21	4.3	15	27	36	2.0	1.4	6.1	8.7	16
17	4.5	31	21	4.2	16	32	21	2.0	1.4	5.9	5.4	16
18	15	27	21	4.0	18	31	16	1.9	1.3	5.2	4.7	17
19	21	26	21	4.7	21	29	22	1.9	1.1	6.8	7.4	25
20	15	26	21	5.2	21	28	22	1.9	1.4	8.6	7.0	23
21	16	26	21	5.4	22	27	23	1.9	1.9	6.8	7.1	21
22	18	21	19	4.6	22	26	21	1.8	3.8	2.7	4.2	19
23	18	20	17	4.4	25	25	20	1.8	4.8	1.5	5.4	16
24	28	20	18	4.5	25	7.3	19	1.8	3.7	1.2	5.1	20
25	24	20	18	4.3	25	8.3	11	1.8	3.1	1.1	5.4	25
26	24	20	15	4.0	25	23	9.8	1.8	3.3	1.6	5.4	21
27	23	20	12	5.0	24	77	4.3	1.8	2.9	1.2	2.4	52
28	23	23	10	4.4	22	85	4.9	1.7	3.5	1.1	3.0	55
29	23	21	8.0	4.0	31	37	4.9	1.7	4.1	1.1	11	42
30	23	19	7.0	3.6	---	31	4.6	1.7	4.0	1.0	22	35
31	24	---	5.0	3.2	---	31	---	1.7	---	1.1	21	---
TOTAL	578.4	753.2	590.0	132.1	435.5	928.6	709.5	91.5	65.4	97.18	153.98	653
MEAN	18.7	25.1	19.0	4.26	15.0	30.0	23.6	2.95	2.18	3.13	4.97	21.8
MAX	50	51	25	5.4	31	85	54	8.5	4.8	8.6	22	55
MIN	4.5	3.2	5.0	3.2	3.0	7.3	4.3	1.7	1.1	.88	.72	13
AC-FT	1150	1490	1170	262	864	1840	1410	181	130	193	305	1300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	13.9	17.2	10.1	7.14	9.00	15.7	6.82	7.91	47.8	11.3	7.23	10.1
MAX	24.6	25.1	19.0	16.0	15.0	34.8	23.6	27.1	182	34.8	31.3	21.8
(WY)	1994	1996	1996	1991	1996	1992	1996	1995	1991	1995	1991	1996
MIN	4.87	6.86	3.65	1.62	2.15	1.87	2.17	1.36	.68	1.03	.95	1.97
(WY)	1993	1993	1991	1995	1993	1995	1995	1994	1994	1994	1994	1994

YELLOWSTONE RIVER BASIN

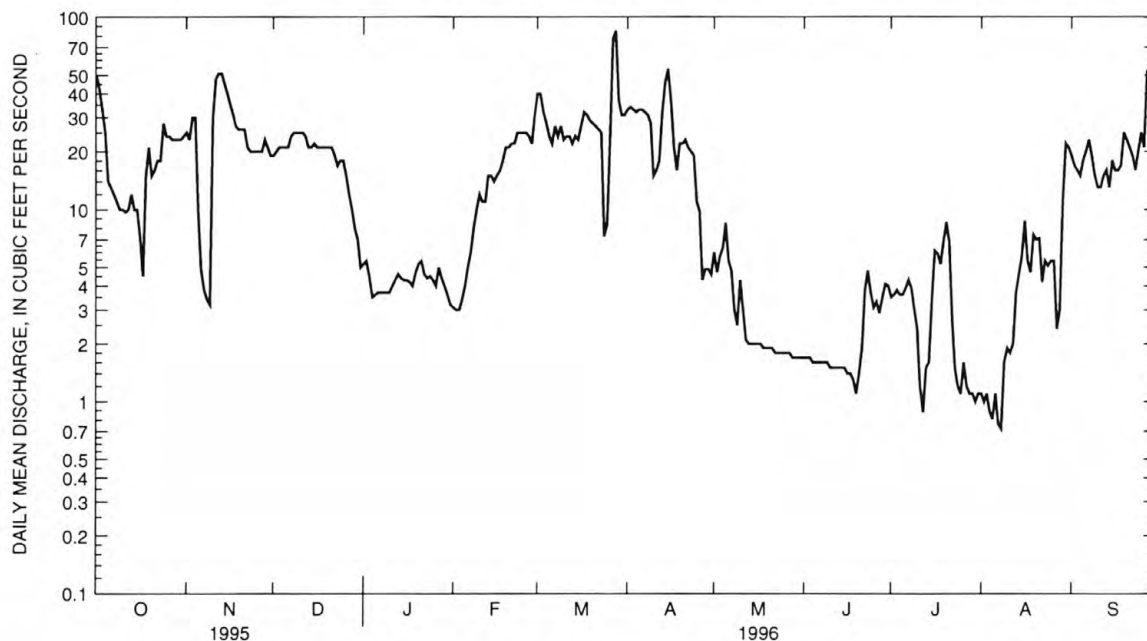
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06756100 CROW CREEK NEAR CARPENTER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	7531.98	5188.36	--
ANNUAL MEAN	20.6	14.2	14.2
HIGHEST ANNUAL MEAN	--	--	28.2
LOWEST ANNUAL MEAN	--	--	5.94
HIGHEST DAILY MEAN	156 Jun 5	85 Mar 28	636 Jun 3 1991
LOWEST DAILY MEAN	.48 Aug 28	.72 Aug 8	.48 Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	.63 Aug 26	.91 Aug 2	.56 Jun 22 1994
INSTANTANEOUS PEAK FLOW	--	175 ^a Mar 28	789 Jun 3 1991
INSTANTANEOUS PEAK STAGE	--	3.91 ^b Feb 6	6.09 Jun 3 1991
ANNUAL RUNOFF (AC-FT)	14940	10290	10280
10 PERCENT EXCEEDS	54	31	27
50 PERCENT EXCEEDS	7.0	10	5.5
90 PERCENT EXCEEDS	1.2	1.6	1.4

a Gage height, 3.78 ft.

b Backwater from ice.



06756100 CROW CREEK NEAR CARPENTER, WY

COLORADO RIVER BASIN

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

LOCATION.--Lat 43°01'08", long 110°07'03", in SE¹/₄ SE¹/₄ NE¹/₄ sec.8, T.35 N., R.111 W., Sublette County, Hydrologic Unit 14040101, on right bank 100 ft upstream from bridge on U.S. Highways 189 and 191, 3.4 mi upstream from Beaver Creek, and 12 mi north of Daniel.

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.

REVISÉD 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. 17, Nov. 2-5, 10-12, 18-23, 29, 30, Dec. 2-10, Dec. 13 to Apr. 6, and May 24-30. 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 data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	168	189	210	90	110	170	258	1490	2270	1160	413
2	203	84	120	170	80	110	200	262	1570	2210	1080	397
3	200	94	92	190	84	120	200	256	1870	2400	981	383
4	198	150	110	160	90	120	190	244	2330	2600	927	363
5	196	200	100	130	96	110	180	249	2770	2810	851	341
6	188	206	150	120	110	110	230	294	3070	2960	764	328
7	187	186	170	130	120	120	260	371	3130	3000	695	321
8	196	200	150	140	140	120	313	421	3020	2720	654	311
9	190	194	200	160	130	120	377	481	3180	2280	630	295
10	184	160	270	150	130	120	435	577	3460	2090	618	278
11	175	140	289	140	110	120	498	692	3770	2000	622	268
12	172	130	259	130	100	120	457	905	3780	1960	628	276
13	171	188	240	120	110	120	409	1120	3710	1900	622	286
14	167	307	230	100	120	110	369	1280	3640	1750	637	293
15	170	227	200	100	130	110	366	1360	3570	1660	654	329
16	165	216	200	100	120	110	369	1530	3540	1600	642	348
17	160	201	200	105	130	120	359	1930	3400	1550	644	371
18	162	170	170	94	140	130	336	2270	3410	1470	622	367
19	169	170	160	110	130	117	249	1960	3340	1400	601	348
20	160	160	170	110	120	100	201	1590	2920	1400	572	333
21	157	130	170	130	110	130	201	1340	2440	1350	535	312
22	161	130	170	120	110	150	197	1350	2320	1240	497	293
23	124	150	170	110	100	160	202	1400	2390	1140	474	272
24	149	171	170	110	110	120	211	1800	2270	1110	454	261
25	181	170	170	110	110	90	269	1900	2200	1080	433	250
26	183	160	170	110	110	110	272	2100	2270	1050	423	240
27	177	138	170	110	90	120	276	2100	2420	1030	420	233
28	163	105	190	120	90	150	265	1900	2740	1010	427	230
29	166	120	200	130	100	170	247	1800	2920	1050	434	223
30	181	180	210	110	---	160	249	1600	2690	1110	432	219
31	183	---	220	100	---	160	---	1650	---	1180	435	---
TOTAL	5449	5005	5679	3929	3210	3837	8557	36990	85630	54380	19568	9182
MEAN	176	167	183	127	111	124	285	1193	2854	1754	631	306
MAX	211	307	289	210	140	170	498	2270	3780	3000	1160	413
MIN	124	84	92	94	80	90	170	244	1490	1010	420	219
AC-FT	10810	9930	11260	7790	6370	7610	16970	73370	169800	107900	38810	18211

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

MEAN	199	143	123	108	110	123	288	1021	1790	1267	544	300
MAX	433	223	183	176	166	240	600	1811	3813	2424	997	592
(WY)	1984	1983	1996	1967	1967	1932	1943	1956	1986	1975	1982	1963
MIN	102	67.7	70.0	50.0	60.0	70.0	129	269	610	399	213	150
(WY)	1989	1994	1933	1933	1933	1933	1970	1977	1934	1988	1988	1988

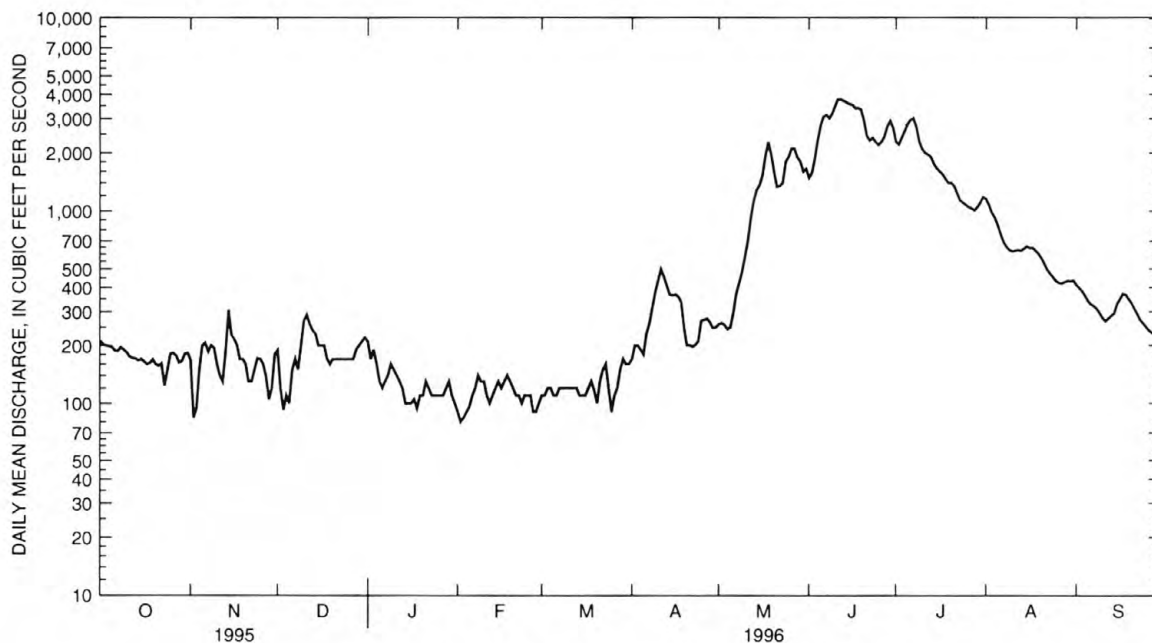
GREEN RIVER BASIN

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09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996*	
ANNUAL TOTAL	208559		241416		--	
ANNUAL MEAN	571		660		503	
HIGHEST ANNUAL MEAN	--		--		768	
LOWEST ANNUAL MEAN	--		--		281	
HIGHEST DAILY MEAN	3560	Jul 14	3780	Jun 12	5450	Jun 6 1986
LOWEST DAILY MEAN	80	Jan 23	80	Feb 2	36	Nov 26 1933
ANNUAL SEVEN-DAY MINIMUM	84	Jan 20	93	Jan 30	43	Nov 24 1933
INSTANTANEOUS PEAK FLOW	--		3880		5490 ^a	
INSTANTANEOUS PEAK STAGE	--		5.08		5.77	
ANNUAL RUNOFF (AC-FT)	413700		478800		364300	
10 PERCENT EXCEEDS	1970		2200		1420	
50 PERCENT EXCEEDS	207		211		200	
90 PERCENT EXCEEDS	100		110		100	

* No record for 1993 water year.

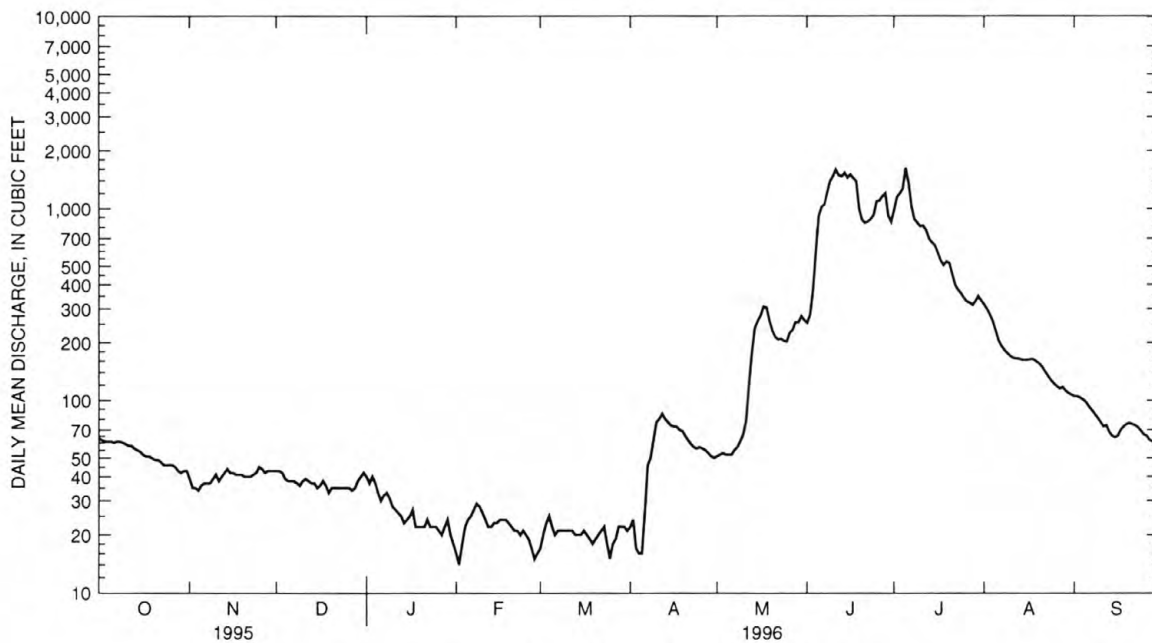
^a Gage height, 5.65 ft.

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1955 - 1996
ANNUAL TOTAL	75832	74109	--
ANNUAL MEAN	208	202	175
HIGHEST ANNUAL MEAN	--	--	253
LOWEST ANNUAL MEAN	--	--	96.7
HIGHEST DAILY MEAN	1830	1620	2280
LOWEST DAILY MEAN	16	14	3.3
ANNUAL SEVEN-DAY MINIMUM	17	18	3.4
INSTANTANEOUS PEAK FLOW	--	1750	2550 ^a
INSTANTANEOUS PEAK STAGE	--	6.18	7.65
ANNUAL RUNOFF (AC-FT)	150400	147000	127100
10 PERCENT EXCEEDS	819	811	566
50 PERCENT EXCEEDS	43	52	42
90 PERCENT EXCEEDS	19	21	13

a Gage height, 7.15 ft.



09196500 PINE CREEK ABOVE FREMONT LAKE, WY

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 September 1996 (discontinued).

INSTRUMENTATION.--Water temperature recorder since March 1987, provides continuous recordings. Temperature sensor is located in the stream at the gage..

REMARKS.--Records represent water temperature at sensor within 0.5°C. No record Oct. 1-10 and Feb. 1-5.

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, 19.6°C, Aug. 16, 24; minimum recorded, 0.0°C on many days during October to February.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	.6	.0	1.2	.0	.0	.0	---	---	.5	.5
2	---	---	.0	.0	.2	.0	.0	.0	---	---	.5	.5
3	---	---	.0	.0	.0	.0	.0	.0	---	---	.5	.5
4	---	---	.4	.0	.0	.0	.0	.0	---	---	.5	.5
5	---	---	.0	.0	.0	.0	.0	.0	---	---	.6	.5
6	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6
7	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.6	.6
8	---	---	2.5	.2	.0	.0	.0	.0	.0	.0	.6	.6
9	---	---	2.3	.0	.0	.0	.0	.0	.1	.0	1.0	.6
10	---	---	.0	.0	.0	.0	.0	.0	.1	.1	.8	.6
11	10.6	6.3	.0	.0	.0	.0	.0	.0	.1	.1	1.4	.6
12	6.9	3.3	.0	.0	.0	.0	.0	.0	.1	.1	.9	.7
13	7.3	1.9	1.1	.0	.0	.0	.0	.0	.1	.1	.7	.7
14	8.8	2.2	1.8	.1	.0	.0	.0	.0	.2	.1	1.2	.7
15	9.4	3.2	2.3	.0	.0	.0	.0	.0	.2	.2	1.6	.7
16	8.8	3.8	2.2	.0	.0	.0	.0	.0	.2	.2	1.2	.7
17	8.3	1.7	1.8	.0	.0	.0	.0	.0	.2	.2	1.2	.8
18	6.8	3.9	1.6	.0	.0	.0	.0	.0	.2	.2	.8	.8
19	6.2	1.6	1.9	.0	.0	.0	.0	.0	.3	.2	.8	.8
20	6.9	1.0	1.2	.0	.0	.0	.0	.0	.3	.3	1.4	.8
21	4.8	2.3	.9	.0	.0	.0	.0	.0	.3	.3	1.7	.8
22	3.1	.8	1.4	.0	.0	.0	.0	.0	.3	.3	1.3	.9
23	3.8	.0	1.4	.0	.0	.0	.0	.0	.3	.3	.9	.9
24	3.4	.0	1.3	.0	.0	.0	.0	.0	.4	.3	.9	.9
25	4.4	.1	.6	.0	.0	.0	.0	.0	.4	.4	.9	.9
26	3.2	.9	.4	.0	.0	.0	.0	.0	.4	.4	1.0	.9
27	4.4	.0	.0	.0	.0	.0	.0	.0	.4	.4	1.0	1.0
28	5.1	.0	.0	.0	.0	.0	.0	.0	.4	.4	1.2	1.0
29	4.7	1.1	.3	.0	.0	.0	.0	.0	.5	.4	1.0	1.0
30	3.3	1.3	.1	.0	.0	.0	.0	.0	---	---	1.0	1.0
31	1.6	.0	---	---	.1	.0	.0	.0	---	---	1.8	1.0
MONTH	---	---	2.5	.0	1.2	.0	.0	.0	---	---	1.8	.5

GREEN RIVER BASIN

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09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.4	1.1	2.6	.7	7.2	1.4	9.9	5.6	17.8	13.2	18.2	11.7
2	1.9	1.1	2.1	.6	8.1	2.1	10.5	6.2	16.5	12.9	17.7	11.1
3	5.4	1.1	3.4	.6	8.2	2.5	10.1	6.8	15.9	12.3	18.4	11.5
4	1.5	1.1	5.9	.6	7.2	2.4	10.1	6.9	15.1	11.4	18.7	12.7
5	5.4	1.1	5.7	.6	7.5	2.9	10.0	6.4	16.2	10.5	14.7	11.2
6	8.8	1.1	6.1	1.2	7.3	2.9	9.8	6.0	15.5	11.7	15.9	9.5
7	7.9	1.0	4.3	1.6	8.7	3.8	10.6	6.1	16.4	10.0	16.6	9.6
8	5.5	1.0	5.8	1.3	8.4	5.0	10.9	6.8	17.8	11.3	17.2	10.1
9	5.4	1.0	6.2	1.2	8.7	4.8	10.4	8.0	16.9	11.8	17.6	10.6
10	3.6	1.0	6.1	1.6	8.4	4.7	11.8	7.6	18.6	11.9	18.5	11.4
11	4.2	1.0	8.9	.7	6.8	4.4	11.9	7.8	19.3	12.4	14.9	12.0
12	1.1	1.0	7.8	1.4	7.8	4.3	12.5	8.0	19.3	12.9	17.9	12.2
13	2.2	.9	7.5	1.5	8.2	4.5	12.8	8.7	19.3	13.5	15.4	12.0
14	4.3	.9	3.1	1.5	8.0	4.6	12.9	8.6	18.9	13.4	13.7	10.8
15	5.0	.9	3.3	1.4	8.1	4.6	13.2	9.9	18.9	13.4	15.4	9.6
16	4.1	.9	3.6	2.0	7.8	4.2	12.2	9.4	19.6	12.9	11.6	10.1
17	2.5	.9	3.8	1.8	7.9	4.0	12.5	9.6	18.3	13.9	10.9	8.3
18	.9	.9	2.4	1.3	6.2	3.8	13.5	10.4	17.7	12.7	10.1	8.2
19	2.0	.8	3.7	1.4	6.9	3.2	14.2	10.5	17.4	11.1	11.0	8.8
20	1.6	.8	4.6	.7	7.0	4.1	14.2	10.1	18.6	12.1	11.2	7.6
21	1.4	.8	5.3	.6	6.6	4.2	14.4	9.8	18.3	12.4	12.0	9.6
22	2.1	.8	5.0	2.7	6.8	4.1	15.3	10.4	18.3	11.8	12.6	7.9
23	3.6	.8	3.4	1.7	7.7	3.2	15.7	11.1	18.9	12.0	12.0	5.9
24	2.2	.8	4.9	2.0	8.7	4.5	15.8	11.0	19.6	12.7	11.0	6.3
25	4.7	.7	6.7	2.8	8.4	4.7	15.4	11.6	19.4	13.0	9.1	6.4
26	4.7	.7	4.9	2.5	8.3	4.8	16.5	11.9	19.0	13.4	8.4	4.9
27	2.2	.7	5.2	2.7	6.7	5.1	16.9	11.9	19.3	13.9	9.6	4.5
28	3.8	.7	3.3	2.6	5.6	4.5	16.9	12.7	18.9	13.9	12.7	5.4
29	4.6	.7	5.8	1.4	8.0	3.7	15.2	13.2	17.7	12.5	13.3	6.3
30	5.7	.7	5.1	1.9	9.4	5.0	16.0	13.3	19.3	12.5	13.5	6.9
31	---	---	5.5	1.8	---	---	16.9	13.0	19.2	12.5	---	---
MONTH	8.8	.7	8.9	.6	9.4	1.4	16.9	5.6	19.6	10.0	18.7	4.5

GREEN RIVER BASIN

091970000 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) are 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 and Highland Ditch divert water upstream from station for irrigation downstream from station. Result of discharge measurement, in cubic feet per second, made when station was not in operation, is given below:

Mar. 26 . . . 21.8

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey after Sept. 30, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	22	52	268	803	187	81
2	---	---	---	---	---	---	22	52	257	808	189	81
3	---	---	---	---	---	---	22	52	253	853	191	80
4	---	---	---	---	---	---	22	55	267	900	191	80
5	---	---	---	---	---	---	22	60	291	968	191	80
6	---	---	---	---	---	---	22	60	317	1080	188	80
7	---	---	---	---	---	---	22	60	339	1110	188	68
8	---	---	---	---	---	---	22	61	433	1070	180	61
9	---	---	---	---	---	---	23	63	546	1020	140	61
10	---	---	---	---	---	---	22	64	660	976	139	61
11	---	---	---	---	---	---	22	65	788	938	138	60
12	---	---	---	---	---	---	22	67	893	942	135	58
13	---	---	---	---	---	---	22	70	957	961	136	57
14	---	---	---	---	---	---	22	73	1050	788	139	58
15	---	---	---	---	---	---	22	74	1080	683	138	58
16	---	---	---	---	---	---	22	86	1100	571	136	57
17	---	---	---	---	---	---	22	144	1130	453	134	55
18	---	---	---	---	---	---	22	278	1160	360	125	55
19	---	---	---	---	---	---	22	329	1170	325	117	55
20	---	---	---	---	---	---	22	329	1160	294	117	54
21	---	---	---	---	---	---	22	323	1140	275	118	53
22	---	---	---	---	---	---	22	314	1110	276	119	52
23	---	---	---	---	---	---	22	308	1090	270	115	52
24	---	---	---	---	---	---	23	299	1060	270	101	52
25	---	---	---	---	---	---	23	293	1050	267	88	52
26	---	---	---	---	---	---	34	290	875	264	87	52
27	---	---	---	---	---	---	52	285	788	263	85	49
28	---	---	---	---	---	---	52	284	815	240	85	45
29	---	---	---	---	---	---	52	282	833	190	84	45
30	---	---	---	---	---	---	52	282	825	188	82	45
31	---	---	---	---	---	---	---	282	---	189	82	---
TOTAL	---	---	---	---	---	---	795	5336	23705	18595	4145	1797
MEAN	---	---	---	---	---	---	26.5	172	790	600	134	59.9
MAX	---	---	---	---	---	---	52	329	1170	1110	191	81
MIN	---	---	---	---	---	---	22	52	253	188	82	45
AC-FT	---	---	---	---	---	---	1580	10580	47020	36880	8220	3560

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

09197000 PINE CREEK BELOW FREMONT LAKE, WY--Continued

SUMMARY STATISTICS

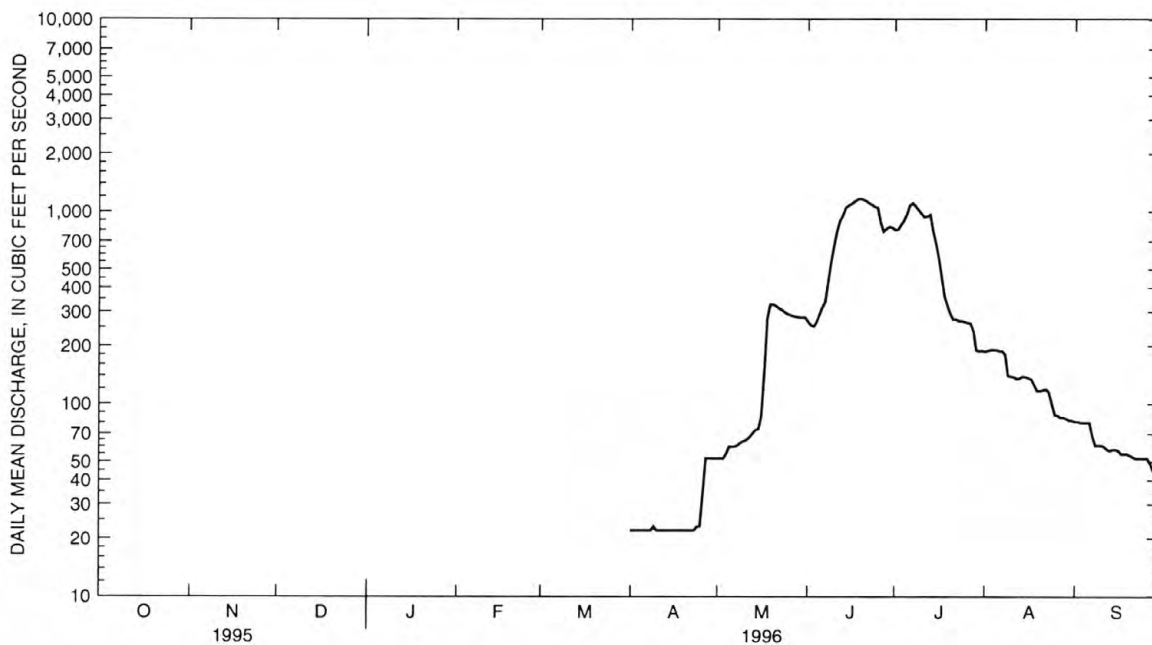
FOR 1996 WATER YEAR*

WATER YEARS 1911 - 1918

ANNUAL MEAN	--		197	
HIGHEST ANNUAL MEAN	--		211	1917
LOWEST ANNUAL MEAN	--		183	1912
HIGHEST DAILY MEAN	1170	Jun 19	2330	Jun 17 1918
LOWEST DAILY MEAN	22	Apr 1-8, 10-23	8.6	Apr 23 1990#
ANNUAL SEVEN-DAY MINIMUM	--		18	Feb 1 1917
INSTANTANEOUS PEAK FLOW	1210	Jun 19	2330	Jun 17 1918#
INSTANTANEOUS PEAK STAGE	3.61	Jun 19	--	
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 1996.



09197000 PINE CREEK BELOW FREMONT LAKE, WY

GREEN RIVER BASIN

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.

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. 2-6, 11, 12, and Dec. 4 to Apr. 3. 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 data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	398	402	310	210	260	420	442	1540	3260	939	372
2	422	350	404	280	200	270	470	448	1480	3050	921	350
3	425	320	385	310	210	280	455	448	1610	3010	893	349
4	422	320	370	290	220	280	458	448	2020	3070	875	332
5	404	350	350	260	230	280	433	448	2690	3410	843	338
6	403	385	320	250	250	250	408	448	3480	3580	841	340
7	406	399	320	270	280	270	470	448	4160	3550	845	341
8	418	386	320	290	300	270	656	443	4410	3350	741	329
9	423	378	330	310	280	270	680	506	4860	3110	696	310
10	410	380	380	310	250	270	775	535	5430	2950	644	311
11	412	350	400	280	240	270	799	503	5950	2760	617	299
12	413	360	409	260	250	270	788	487	6430	2580	617	326
13	405	406	410	240	260	270	705	512	6400	2460	600	325
14	398	417	380	230	270	260	553	607	6160	2350	582	322
15	399	423	320	230	280	250	514	746	6100	2240	571	327
16	399	427	340	230	250	260	517	873	6170	2180	551	333
17	399	415	340	220	270	270	522	1110	6160	2110	549	356
18	405	399	280	210	290	250	514	1420	5960	1860	546	368
19	403	414	250	230	280	240	493	1740	5700	1640	534	367
20	467	423	260	250	270	250	468	1640	5160	1610	511	356
21	488	410	260	270	260	270	453	1530	4540	1390	498	346
22	495	398	260	260	250	290	442	1460	3850	1350	487	332
23	486	399	260	250	260	310	436	1390	3570	1250	487	314
24	598	393	260	240	280	280	435	1380	3500	1200	489	311
25	626	391	260	220	280	230	454	1320	3370	1150	453	311
26	644	393	260	220	280	240	481	1250	3400	1130	410	306
27	498	384	260	220	260	300	487	1400	3210	1090	385	306
28	416	389	270	220	250	350	500	1480	3370	1100	398	306
29	413	428	290	250	250	390	480	1560	3750	1060	395	306
30	401	416	310	230	---	380	450	1590	3640	1020	380	306
31	398	---	330	220	---	370	---	1630	---	972	375	---
TOTAL	13724	11701	9990	7860	7460	8700	15716	30242	128070	66842	18673	9895
MEAN	443	390	322	254	257	281	524	976	4269	2156	602	330
MAX	644	428	410	310	300	390	799	1740	6430	3580	939	372
MIN	398	320	250	210	200	230	408	442	1480	972	375	299
AC-FT	27220	23210	19820	15590	14800	17260	31170	59980	254000	132600	37040	19630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1996, BY WATER YEAR (WY)

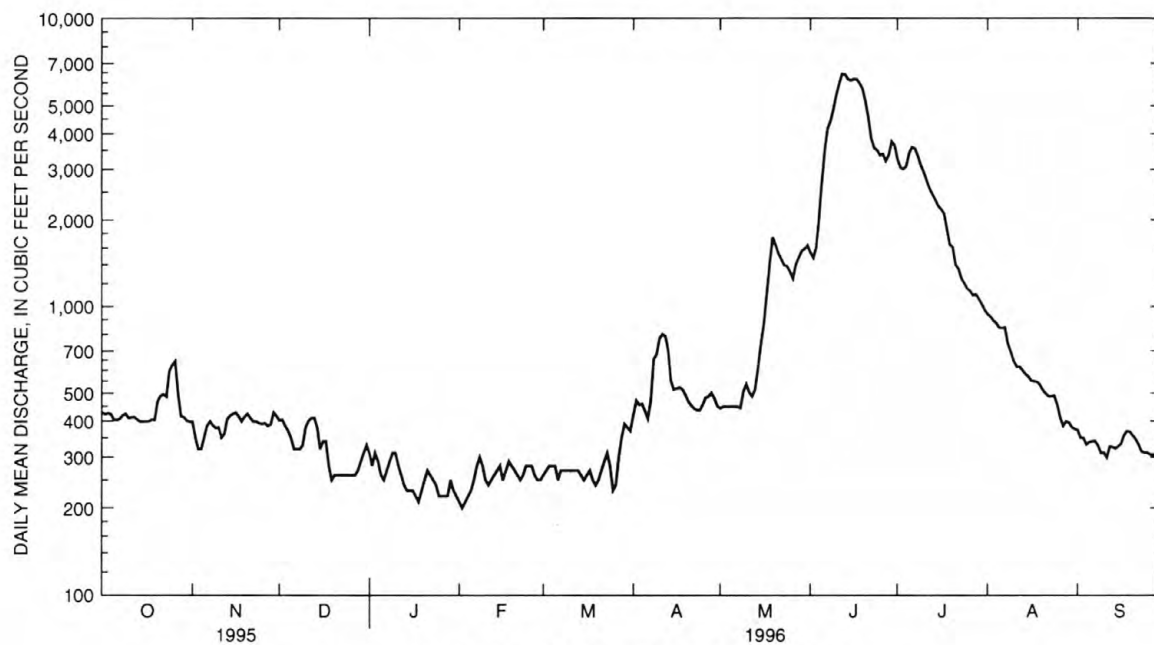
	MEAN	376	321	241	198	209	262	439	1123	3016	1662	589	373
MAX	989	608	397	277	337	597	1114	2539	7064	4155	1279	766	
(WY)	1983	1984	1983	1969	1969	1972	1969	1986	1982	1982	1983	1983	
MIN	171	188	139	129	135	161	181	254	699	405	225	164	
(WY)	1989	1989	1989	1963	1989	1977	1981	1977	1992	1961	1988	1988	

GREEN RIVER BASIN

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09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1954 - 1996	
ANNUAL TOTAL	357341		328873		--	
ANNUAL MEAN	979		899		735	
HIGHEST ANNUAL MEAN	--		--		1288	1986
LOWEST ANNUAL MEAN	--		--		313	1977
HIGHEST DAILY MEAN	7500	Jun 17	6430	Jun 12	9110	Jun 7 1986
LOWEST DAILY MEAN	120	Jan 24	200	Feb 2	90	Jan 13 1963
ANNUAL SEVEN-DAY MINIMUM	144	Jan 20	217	Jan 30	104	Jan 9 1963
INSTANTANEOUS PEAK FLOW	--		6600	Jun 12	9190	Jun 7 1986
INSTANTANEOUS PEAK STAGE	--		6.87	Jun 12	8.28	Jun 7 1986
ANNUAL RUNOFF (AC-FT)	708800		652300		532400	
10 PERCENT EXCEEDS	3770		2710		1840	
50 PERCENT EXCEEDS	399		404		329	
90 PERCENT EXCEEDS	220		250		185	



09205000 NEW FORK RIVER NEAR BIG PINEY, WY

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.

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. 2-10, Nov. 26 to Apr. 4, Jun 8-13, and July 18-21. 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 data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	753	839	640	400	430	500	940	1360	4870	7510	2260	735
2	761	680	640	420	400	520	1000	1430	4230	6440	2180	719
3	767	660	560	420	350	520	1200	1440	4030	5840	2130	695
4	773	700	480	420	400	520	1100	1420	4480	5840	1980	673
5	756	680	470	400	450	520	1090	1310	5340	6550	1880	645
6	749	690	470	380	500	520	1050	1220	6500	7100	1800	654
7	747	700	440	420	540	520	1190	1340	7570	7090	1680	656
8	753	740	440	470	600	520	1470	1570	8200	6840	1520	637
9	776	780	450	500	560	520	1900	1730	9000	6320	1400	626
10	768	800	480	500	500	540	2160	1920	9400	5800	1270	602
11	757	800	500	500	500	560	2330	2030	11000	5360	1180	563
12	740	827	500	500	500	560	2400	2090	11000	4910	1150	575
13	719	944	500	500	500	560	2350	2420	12000	4690	1110	625
14	705	959	500	500	520	560	1910	2870	12200	4530	1070	620
15	706	1060	500	500	520	560	1680	3280	11900	4410	1080	657
16	703	1050	500	520	520	560	1640	3420	12000	4390	1060	688
17	697	973	500	470	540	560	1690	3680	12200	4420	1040	759
18	706	937	500	460	560	540	1720	4460	11700	4200	1060	835
19	702	931	440	500	580	500	1570	5450	11300	3900	1050	841
20	707	946	400	540	560	540	1430	5460	10900	3600	1010	819
21	795	857	400	580	540	560	1330	4550	9770	3400	968	796
22	826	808	400	560	540	580	1230	3890	8430	3050	928	756
23	833	821	400	520	540	600	1180	3660	7380	2990	904	716
24	824	859	400	500	540	560	1180	3650	7060	2710	889	685
25	933	812	400	450	540	500	1290	3490	6710	2570	871	680
26	991	760	400	450	520	500	1560	3340	6430	2520	781	674
27	1060	700	400	450	450	600	1670	3620	6310	2450	755	677
28	845	640	400	450	480	680	1720	4050	6600	2380	758	699
29	793	620	400	450	490	740	1550	4550	7740	2380	783	672
30	784	640	400	450	---	860	1380	4810	8190	2390	770	647
31	806	---	400	450	---	900	---	5010	---	2330	755	---
TOTAL	24235	24213	14310	14630	14670	17780	45910	94520	254440	138910	38072	20626
MEAN	782	807	462	472	506	574	1530	3049	8481	4481	1228	688
MAX	1060	1060	640	580	600	900	2400	5460	12200	7510	2260	841
MIN	697	620	400	380	350	500	940	1220	4030	2330	755	563
AC-FT	48070	48030	28380	29020	29100	35270	91060	187500	504700	275500	75520	40910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

MEAN	835	738	536	464	491	699	1421	2815	5722	3544	1479	889
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

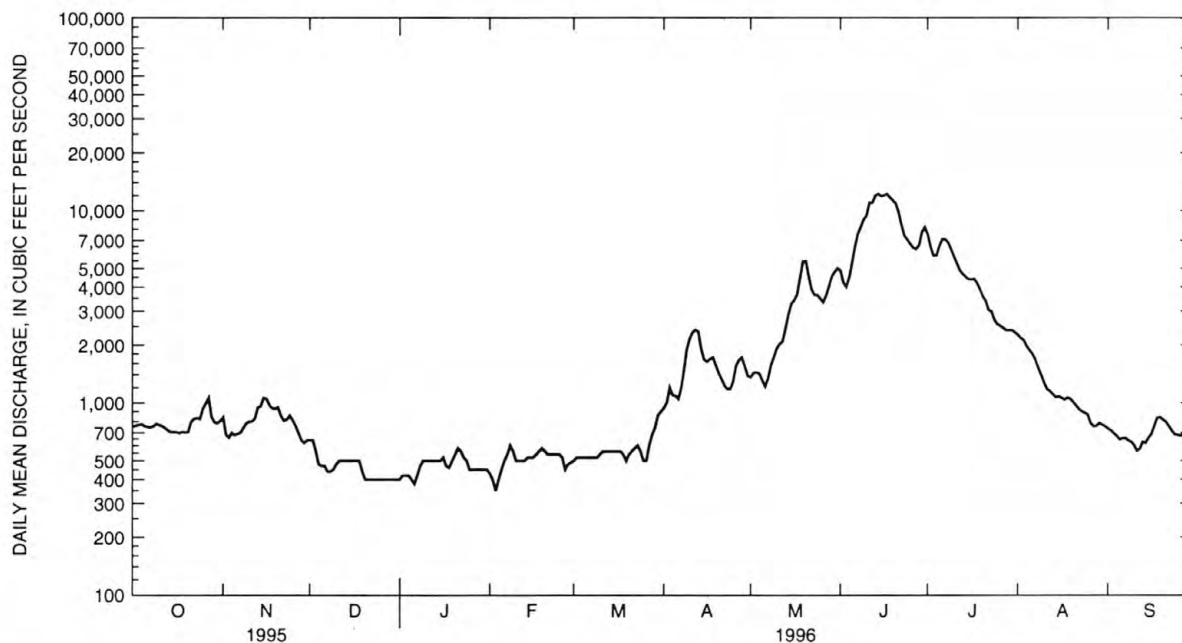
GREEN RIVER BASIN

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09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	675296		702316		--	
ANNUAL MEAN	1850		1919		1639 ^a	
HIGHEST ANNUAL MEAN	--		--		2908	1986
LOWEST ANNUAL MEAN	--		--		668	1977
HIGHEST DAILY MEAN	11600	Jun 18	12200	Jun 14,17	18800	Jun 9 1986
LOWEST DAILY MEAN	300	Jan 23	350	Feb 3	188	May 17 1977
ANNUAL SEVEN-DAY MINIMUM	334	Jan 18	400	Dec 20	215	May 13 1977
INSTANTANEOUS PEAK FLOW	--		12400	Jun 14	18800	Jun 9 1986
INSTANTANEOUS PEAK STAGE	--		9.28	Jun 14	10.50	Jun 9 1986
ANNUAL RUNOFF (AC-FT)	1339000		1393000		1187000	
10 PERCENT EXCEEDS	6370		5450		4040	
50 PERCENT EXCEEDS	800		780		800	
90 PERCENT EXCEEDS	400		457		430	

a Average discharge, water years 1947-96, 1,614 ft³/s.



09209400 GREEN RIVER NEAR LA BARGE, WY

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

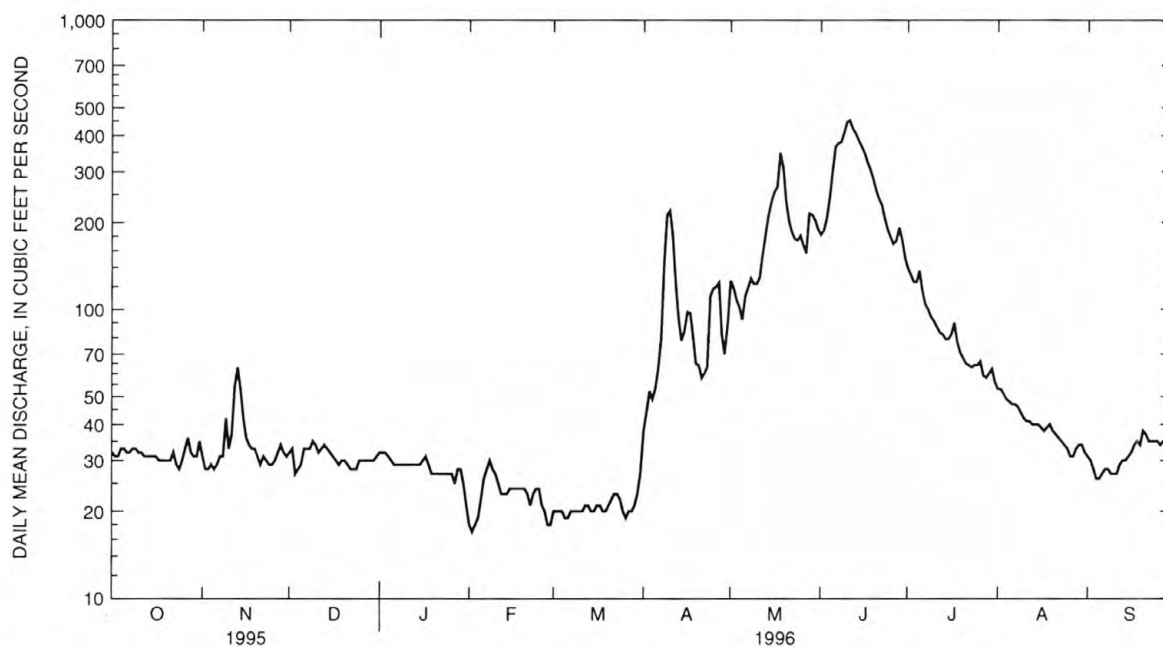
Date	Time	Discharge (ft ³ /s)	Gage height (ft)
April 9	2200	300	7.25
April 26	2230	162	6.40
May 18	1545	455	8.08
June 11	1315	*486	*8.23

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	31	32	32	18	20	38	126	182	139	53	31
2	31	28	33	32	17	20	44	119	188	132	53	30
3	31	28	27	32	18	20	52	108	207	125	51	28
4	33	29	28	31	19	20	49	102	243	125	49	26
5	33	28	29	30	22	19	53	92	302	136	48	26
6	32	29	33	29	26	19	62	111	367	116	47	27
7	32	31	33	29	28	20	79	119	376	104	47	28
8	33	31	33	29	30	20	145	128	381	100	46	28
9	33	42	35	29	28	20	213	123	410	94	44	27
10	32	33	34	29	27	20	220	123	445	91	42	27
11	32	37	32	29	25	20	179	129	451	87	41	27
12	31	54	33	29	23	21	123	155	423	83	41	29
13	31	63	34	29	23	21	93	181	406	82	40	30
14	31	53	33	29	23	20	78	212	385	79	40	30
15	31	42	32	29	24	20	84	237	367	79	40	31
16	31	36	31	30	24	21	98	256	349	82	39	32
17	30	34	30	31	24	21	97	266	325	90	38	34
18	30	33	29	29	24	20	80	349	306	77	39	35
19	30	33	30	27	24	20	65	312	284	71	40	34
20	30	31	30	27	24	21	64	238	260	68	38	38
21	30	29	29	27	23	22	58	203	242	65	37	37
22	32	31	28	27	21	23	60	186	231	64	36	35
23	29	30	28	27	23	23	63	176	208	63	35	35
24	28	29	28	27	24	22	111	174	190	64	34	35
25	30	29	30	27	24	20	118	180	179	64	33	35
26	33	30	30	27	21	19	120	167	169	66	31	34
27	36	32	30	25	20	20	124	157	173	59	31	35
28	32	34	30	28	18	20	82	215	192	58	33	35
29	31	32	30	28	18	21	70	213	174	60	34	34
30	31	31	30	25	---	23	90	204	151	62	34	34
31	35	---	31	21	---	27	---	190	---	56	32	---
TOTAL	976	1033	955	880	663	643	2812	5551	8566	2641	1246	947
MEAN	31.5	34.4	30.8	28.4	22.9	20.7	93.7	179	286	85.2	40.2	31.6
MAX	36	63	35	32	30	27	220	349	451	139	53	38
MIN	28	28	27	21	17	19	38	92	151	56	31	26
AC-FT	1940	2050	1890	1750	1320	1280	5580	11010	16990	5240	2470	1880

MEAN	31.7	29.7	26.2	25.4	26.8	32.3	99.6	213	227	76.5	37.0	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

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1952 - 1996
ANNUAL TOTAL	26845	26913	--
ANNUAL MEAN	73.5	73.5	71.3
HIGHEST ANNUAL MEAN	--	--	155
LOWEST ANNUAL MEAN	--	--	24.8
HIGHEST DAILY MEAN	677	451	865
LOWEST DAILY MEAN	14	17	5.6
ANNUAL SEVEN-DAY MINIMUM	15	19	6.2
INSTANTANEOUS PEAK FLOW	--	486	907
INSTANTANEOUS PEAK STAGE	--	8.23	9.51
ANNUAL RUNOFF (AC-FT)	53250	53380	51650
10 PERCENT EXCEEDS	200	190	183
50 PERCENT EXCEEDS	32	33	33
90 PERCENT EXCEEDS	18	22	20



09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY

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.

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, 327,900 acre-ft, Aug. 4, 5, 6, elevation, 6,503.80 ft; minimum daily, 99,400 acre-ft, Apr. 1, minimum elevation, 6,464.87.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,500.09	299,400	-
Oct. 31	6,496.98	276,400	-23,000
Nov. 30	6,494.45	258,300	-18,100
Dec. 31	6,488.42	217,200	-41,100
CAL YR 1995	-	-	+52,900
Jan. 31	6,479.68	165,000	-52,200
Feb. 29	6,470.96	123,000	-42,000
Mar. 31	6,464.93	98,600	-24,400
Apr. 30	6,468.65	113,300	+14,700
May 31	6,473.03	132,200	+18,900
June 30	6,496.79	275,000	+142,800
July 31	6,503.47	325,400	+50,400
Aug. 31	6,500.37	301,500	-23,900
Sept. 30	6,495.12	263,100	-38,400
WTR YR 1996	-	-	-36,300

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LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼ NW¼ NE¼ 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.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft above sea level.

REMARKS.--Estimated daily discharges: July 30 to Aug. 1. 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 data collection platform with satellite telemetry at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1050	1100	1100	1230	1170	1190	1720	4100	6120	1680	1500
2	1070	1050	1070	1100	1230	1190	1220	1810	4080	5780	1670	1500
3	1060	1060	1070	1110	1240	1190	1210	1820	4040	5560	1680	1490
4	1100	1080	1080	1130	1240	1210	1210	1840	4330	5300	1670	1510
5	1090	1070	1070	1120	1250	1210	1210	1840	4910	5290	1670	1440
6	1080	1070	1100	1120	1270	1200	1200	1980	5170	5290	1670	1350
7	1080	1080	1090	1130	1280	1190	1210	2160	5200	5280	1660	1360
8	1090	1070	1120	1140	1190	1200	1230	2110	5270	5010	1560	1360
9	1100	1080	1110	1140	1140	1210	1230	2100	5320	4440	1470	1360
10	1100	1080	1120	1140	1150	1210	1190	2100	5380	3920	1480	1380
11	1090	1090	1120	1150	1150	1220	1190	2110	5620	3620	1470	1320
12	1090	1090	1150	1140	1160	1240	1210	2110	5880	3510	1470	1240
13	1090	1100	1150	1140	1160	1260	1210	2260	6090	3500	1470	1250
14	1080	1090	1140	1140	1160	1250	1220	2420	6620	3510	1510	1260
15	1090	1080	1100	1150	1160	1260	1230	2390	6880	3350	1560	1280
16	1080	1120	1120	1140	1160	1260	1240	2650	6970	2940	1550	1310
17	1080	1170	1130	1150	1170	1250	1240	2920	7030	2710	1490	1320
18	1080	1160	1110	1160	1170	1210	1270	2930	7030	2690	1500	1330
19	1080	1150	1090	1160	1170	1200	1290	2920	7420	2670	1510	1250
20	1090	1140	1080	1160	1170	1210	1290	3220	7730	2680	1490	1180
21	1100	1120	1090	1180	1150	1210	1280	3510	7820	2670	1530	1170
22	1080	1120	1090	1200	1160	1220	1290	3540	7820	2510	1560	1180
23	1090	1120	1090	1200	1160	1220	1450	3770	7780	2240	1530	1190
24	1100	1120	1080	1190	1140	1210	1570	4030	7530	2140	1540	1190
25	1080	1110	1080	1200	1150	1200	1700	4060	7320	2020	1550	1200
26	1060	1110	1090	1210	1150	1210	1810	4000	7070	1910	1540	1200
27	1030	1110	1090	1210	1160	1220	1820	3990	6620	1930	1430	1210
28	1020	1100	1090	1220	1160	1190	1630	4040	6440	1920	1500	1210
29	1030	1100	1090	1220	1170	1190	1550	3980	6420	1850	1510	1170
30	1030	1090	1090	1220	---	1190	1700	4050	6420	1750	1510	1170
31	1040	---	1090	1230	---	1190	---	4100	---	1680	1510	---
TOTAL	33380	32980	34090	36000	34250	37590	40290	88480	186310	105790	47940	38880
MEAN	1077	1099	1100	1161	1181	1213	1343	2854	6210	3413	1546	1296
MAX	1100	1170	1150	1230	1280	1260	1820	4100	7820	6120	168	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

MEAN	1005	862	785	798	851	932	1521	2401	4493	3300	1636	1251
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	1988

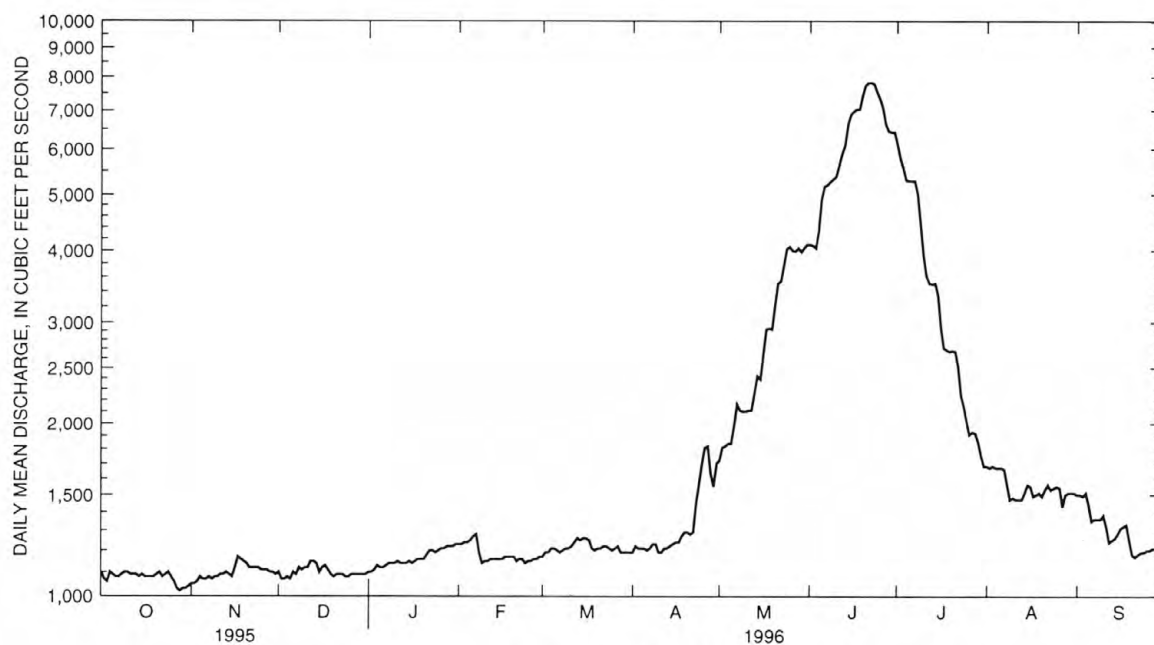
GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	660364		715980		--	
ANNUAL MEAN	1809		1956		1656	
HIGHEST ANNUAL MEAN	--		--		3060	
LOWEST ANNUAL MEAN	--		--		690	
HIGHEST DAILY MEAN	6760	Jul 9	7820	Jun 21,22	18600	Sep 6 1965
LOWEST DAILY MEAN	485	Sep 12	1020	Oct 28	209	Nov 22 1968
ANNUAL SEVEN-DAY MINIMUM	617	Sep 11	1040	Oct 27	251	Dec 25 1967
INSTANTANEOUS PEAK FLOW	--		7880	Jun 21	19400 ^a	Sep 5 1965
INSTANTANEOUS PEAK STAGE	--		15.46	Jun 21	18.74 ^b	Sep 5 1965
ANNUAL RUNOFF (AC-FT)	1310000		1420000		1200000	
10 PERCENT EXCEEDS	5630		4170		3670	
50 PERCENT EXCEEDS	1100		1210		1090	
90 PERCENT EXCEEDS	803		1090		485	

a Caused by emergency release from Fontenelle Reservoir.

b From floodmarks.



09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

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 1995 TO SEPTEMBER 1996

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE PER (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)	
OCT	18...	0915	1100	309	8.6	9.0	12.0	604	8.8	96	130
DEC	11...	1500	1140	349	8.6	2.0	7.5	605	11.1	101	150
FEB	07...	0910	1290	401	8.4	2.0	2.0	607	10.8	98	180
MAR	19...	0930	1200	464	8.2	2.0	-1.0	610	10.8	98	190
APR	09...	1510	1200	487	8.2	3.0	18.0	607	9.7	91	200
MAY	02...	0950	1820	425	8.5	8.0	11.0	603	10.0	107	190
JUN	17...	1225	6960	273	8.2	16.0	22.0	608	8.1	103	120
JUL	16...	1330	2940	280	8.3	18.0	26.0	605	7.7	103	120
AUG	13...	1230	1470	266	8.5	19.0	22.0	613	7.8	105	130
SEP	05...	1450	1460	281	8.7	18.0	17.5	605	7.7	103	130
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 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	18...	35	11	14	0.5	1.2	114	44	1.9	<0.1	6.8
DEC	11...	39	12	15	0.5	1.4	127	50	2.6	0.2	7.0
FEB	07...	48	14	16	0.5	1.4	146	64	3.0	0.3	7.7
MAR	19...	53	15	18	0.6	1.5	154	84	3.4	0.2	8.2
APR	09...	52	16	26	0.8	2.0	158	98	4.9	0.2	8.0
MAY	02...	51	15	18	0.6	2.2	156	67	3.8	0.2	7.3
JUN	17...	34	9.5	7.4	0.3	1.6	113	27	1.5	0.1	7.7
JUL	16...	32	9.8	8.8	0.3	1.3	116	27	1.4	0.1	7.6
AUG	13...	35	11	12	0.5	1.3	124	38	1.7	0.1	7.1
SEP	05...	35	11	12	0.5	1.2	124	37	1.8	0.2	<0.1

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	SOLIDS, SUM OF CONSTITUENTS, 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)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 18...	182	0.25	541	<0.01	<0.05	<0.02	<0.2	0.01	<0.01	0.02
DEC 11...	203	0.28	626	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	0.01
FEB 07...	242	0.33	843	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01
MAR 19...	276	0.38	894	<0.01	0.05	<0.02	0.2	0.02	0.02	<0.01
APR 09...	302	0.41	979	<0.01	0.06	0.02	0.2	0.02	<0.01	<0.01
MAY 02...	258	0.35	1270	<0.01	<0.05	0.02	0.3	0.01	<0.01	0.01
JUN 17...	157	0.21	2940	<0.01	<0.05	0.04	0.2	0.03	<0.01	0.02
JUL 16...	158	0.22	1260	0.01	0.10	0.03	<0.2	0.04	0.02	0.03
AUG 13...	181	0.25	719	0.01	0.06	0.10	0.4	<0.01	0.04	0.03
SEP 05...	173	0.24	682	0.02	0.06	0.06	0.3	0.01	<0.01	<0.01

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: May 11 to June 5. Records good except those for estimated daily discharges, which are poor. 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 data collection platform with satellite telemetry at station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 12	0800	*964	*7.43

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	54	38	240	282	72	19
2	---	---	---	---	---	---	60	40	260	282	71	20
3	---	---	---	---	---	---	60	42	400	290	66	20
4	---	---	---	---	---	---	57	39	540	283	59	20
5	---	---	---	---	---	---	53	38	634	291	52	21
6	---	---	---	---	---	---	53	40	760	369	49	21
7	---	---	---	---	---	---	54	43	755	318	45	21
8	---	---	---	---	---	---	63	46	708	263	40	21
9	---	---	---	---	---	---	111	48	782	226	36	20
10	---	---	---	---	---	---	113	49	807	208	33	20
11	---	---	---	---	---	---	92	70	808	196	30	21
12	---	---	---	---	---	---	67	90	821	179	29	21
13	---	---	---	---	---	---	62	120	704	165	28	20
14	---	---	---	---	---	---	47	140	661	154	28	20
15	---	---	---	---	---	---	40	200	641	143	24	20
16	---	---	---	---	---	---	39	260	657	139	23	20
17	---	---	---	---	---	---	40	310	604	136	22	18
18	---	---	---	---	---	---	48	350	562	127	21	17
19	---	---	---	---	---	---	43	300	519	114	21	17
20	---	---	---	---	---	---	38	270	409	107	22	16
21	---	---	---	---	---	---	37	220	370	102	22	16
22	---	---	---	---	---	---	36	230	353	96	21	16
23	---	---	---	---	---	---	37	240	355	90	19	16
24	---	---	---	---	---	---	38	260	337	85	19	17
25	---	---	---	---	---	---	40	280	326	81	20	18
26	---	---	---	---	---	---	46	310	336	78	20	19
27	---	---	---	---	---	---	45	300	340	74	20	20
28	---	---	---	---	---	---	43	290	370	71	19	20
29	---	---	---	---	---	---	41	280	382	68	19	21
30	---	---	---	---	---	---	37	270	325	68	19	21
31	---	---	---	---	---	---	---	259	---	72	19	---
TOTAL	---	---	---	---	---	---	1594	5472	15766	5157	988	577
MEAN	---	---	---	---	---	---	53.1	177	526	166	31.9	19.2
MAX	---	---	---	---	---	---	113	350	821	369	72	21
MIN	---	---	---	---	---	---	36	38	240	68	19	16
AC-FT	---	---	---	---	---	---	3160	10850	31270	10230	1960	1140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1971, BY WATER YEAR (WY)

	MEAN	29.9	21.2	13.2	11.1	12.1	21.8	50.8	236	403	165	45.2	27.9
MAX	75.6	41.0	21.7	22.9	26.0	46.7	146	454	705	419	155	83.9	
(WY)	1928	1934	1969	1969	1969	1967	1969	1928	1965	1917	1930	1927	
MIN	8.90	9.17	3.00	.30	.10	2.98	22.5	89.1	55.5	14.3	8.48	2.07	
(WY)	1932	1961	1960	1960	1960	1961	1958	1933	1934	1934	1931	1931	

GREEN RIVER BASIN

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

SUMMARY STATISTICS

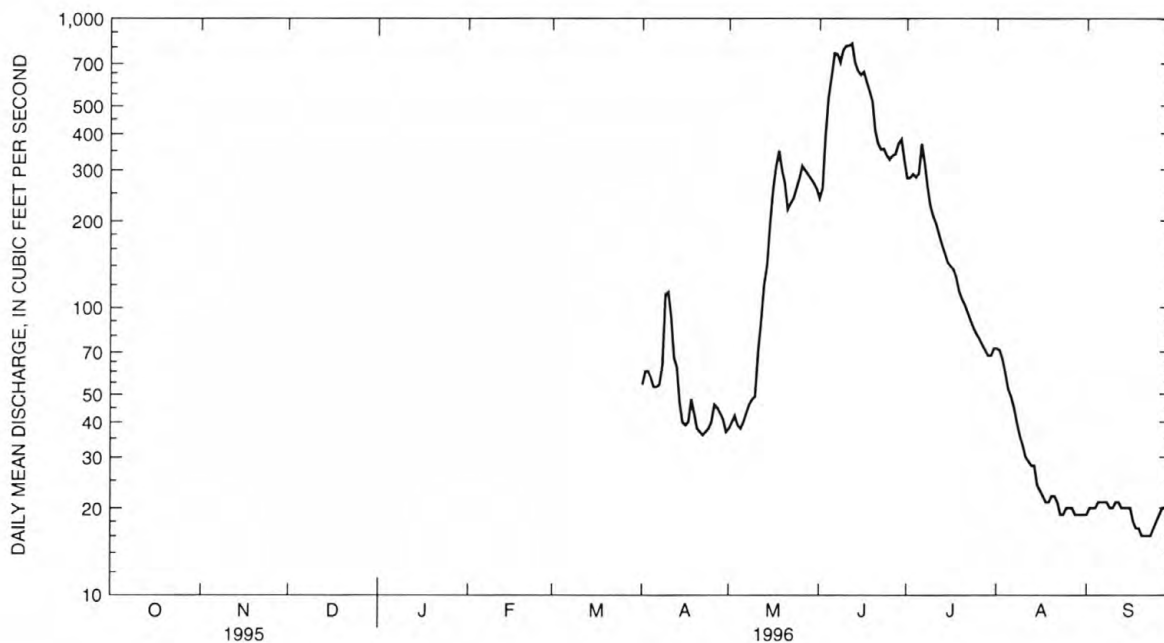
FOR 1996 WATER YEAR*

WATER YEARS 1915 - 1971

ANNUAL MEAN	--		86.7	
HIGHEST ANNUAL MEAN	--		148	1917
LOWEST ANNUAL MEAN	--		33.0	1934
HIGHEST DAILY MEAN	821	Jun 12	1320	Jun 12 1965#
LOWEST DAILY MEAN	16	Sep 20-23	.00	Jan 27-31 1963#
ANNUAL SEVEN-DAY MINIMUM	--		.10	Feb 1 1960
INSTANTANEOUS PEAK FLOW	964	Jun 12	1890	Jun 3 1986#
INSTANTANEOUS PEAK STAGE	7.43	Jun 12	8.46	Jun 3 1986, Jun 17 1995#
ANNUAL RUNOFF (AC-FT)	--		62800	
10 PERCENT EXCEEDS	--		272	
50 PERCENT EXCEEDS	--		25	
90 PERCENT EXCEEDS	--		9.0	

* During period of operation.

For period of record through 1996.



09213500 BIG SANDY RIVER NEAR FARSON, WY

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.--No estimated daily contents. 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. U.S. Geological Survey data collection platform with satellite telemetry 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, 38,800 acre-ft, June 15-17, elevation, 6,757.74 ft; minimum contents recorded, 10,400 acre-ft, Sept. 16, elevation, 6,741.91 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 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24000	25500	26900	27700	28400	29400	31300	34100	33300	37800	31200	15300
2	24000	25500	27000	27700	28400	29400	31400	34200	33400	37700	30900	14800
3	24100	25500	27000	27700	28500	29400	31500	34200	33600	37700	30500	14400
4	24200	25500	27000	27800	28500	29500	31600	34200	33800	37600	30100	14000
5	24200	25500	27000	27800	28500	29500	31700	34300	34200	37500	29800	13600
6	24300	25500	27100	27800	28600	29500	31800	34200	34800	37500	29400	13200
7	24400	25600	27100	27800	28600	29500	32000	34200	35400	37400	29000	12800
8	24400	25600	27100	27800	28600	29600	32100	33900	35800	37200	28700	12400
9	24500	25700	27100	27800	28700	29700	32300	33800	36400	37000	28100	12000
10	24600	25700	27200	27900	28700	29700	32500	33500	37000	37000	27700	11700
11	24700	25700	27200	27900	28700	29700	32700	33200	37700	36800	27100	11400
12	24800	25800	27300	28100	28700	29800	32800	32900	38300	36700	26600	11100
13	24700	25800	27400	27900	28700	29900	32900	32600	38700	36300	25900	10800
14	24700	26000	27400	27900	28800	30000	33100	32300	38700	36200	25300	10500
15	24800	26000	27400	28000	28800	30100	33100	32200	38800	35800	24600	10400
16	24900	26100	27400	28000	28800	30100	33200	32200	38800	35600	24100	10500
17	24900	26200	27400	28200	28900	30100	33300	32200	38800	35500	23500	10500
18	25000	26200	27500	28200	29000	30200	33300	32500	38600	35300	22900	10500
19	25000	26300	27500	28200	29000	30200	33400	32700	38500	35100	22200	10600
20	25000	26300	27500	28300	29100	30300	33400	32600	38300	34900	21500	10700
21	25100	26400	27500	28300	29100	30400	33500	32500	38100	34600	20900	10800
22	25100	26400	27500	28300	29100	30500	33600	32300	37800	34500	20300	10800
23	25200	26400	27600	28300	29200	30500	33700	32200	37600	34200	19700	10800
24	25200	26500	27600	28400	29200	30600	33700	32200	37500	33900	19200	10900
25	25200	26600	27600	28400	29200	30700	33800	32100	37500	33500	18600	10900
26	25300	26700	27600	28400	29200	30700	33800	32200	37500	33100	18100	10900
27	25300	26700	27600	28400	29200	30800	33800	32200	37600	32800	17600	10900
28	25300	26700	27600	28500	29200	30900	33900	32300	37700	32400	17100	11000
29	25400	26800	27600	28500	29300	31000	34000	32600	37800	32000	16600	11000
30	25400	26800	27700	28500	---	31000	34000	32700	37900	31700	16200	11100
31	25500	---	27700	28500	---	31200	---	33000	---	31400	15700	---
MAX	25500	26800	27700	28500	29300	31200	34000	34300	38800	37800	31200	15300
MIN	24000	25500	26900	27700	28400	29400	31300	32100	33300	31400	15700	10400
(#)	25500	26800	27700	28500	29300	31200	34200	33000	33000	38000	15700	11000
(*)	+1600	+1300	+900	+800	+800	+1900	+3000	-1500	-5000	-6600	-15700	-4700

CAL YR 1995 MAX 41100 MIN 5270 (*)+22,440

WTR YR 1996 MAX 38800 MIN 10400 (*)-23,200

(#) Elevation, in feet, at end of month.

(*) Change of contents, in acre-feet.

GREEN RIVER BASIN

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 probably is 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: Nov. 1-12, 27-30, Dec. 3 to Mar. 29, and June 27 to July 31. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	33	6.6	5.4	13	34	19	31	62	55	38
2	24	18	32	5.8	5.6	14	33	19	27	58	48	38
3	23	14	28	7.0	5.6	15	33	18	28	56	42	37
4	24	12	28	6.6	6.2	16	38	18	29	54	41	36
5	24	13	30	6.0	6.8	17	33	18	29	58	41	31
6	23	14	30	6.0	9.0	18	31	18	27	58	40	36
7	23	14	30	6.4	12	19	28	18	26	60	38	42
8	24	20	29	6.6	13	19	28	20	32	62	36	39
9	24	18	29	6.8	14	20	28	19	34	66	38	40
10	24	17	30	6.8	13	21	28	19	37	72	38	40
11	25	17	30	6.8	12	50	29	18	37	70	38	39
12	27	23	29	6.8	12	260	26	18	41	68	38	40
13	25	30	28	7.0	13	180	23	17	48	66	39	39
14	25	32	26	7.2	15	80	22	18	53	64	42	36
15	25	31	24	7.4	15	70	22	19	63	66	47	32
16	25	29	25	7.0	14	64	22	20	70	68	52	33
17	26	30	26	6.4	15	72	22	22	89	70	52	33
18	26	31	23	6.0	14	64	22	24	96	66	56	34
19	24	30	20	5.6	14	54	23	27	91	62	60	35
20	24	30	18	7.0	14	46	22	28	89	56	59	32
21	24	32	8.0	6.6	14	43	21	27	93	52	53	29
22	26	31	7.0	6.0	13	46	21	25	124	48	42	27
23	27	30	6.2	5.8	13	50	20	30	100	47	39	26
24	29	28	6.2	6.6	14	20	20	33	87	46	36	25
25	29	29	6.0	6.4	13	18	18	31	69	47	36	25
26	29	30	6.0	5.6	12	17	18	30	65	46	39	25
27	29	28	5.8	6.2	11	22	18	29	64	44	41	24
28	28	22	5.8	7.0	10	24	18	32	66	44	40	23
29	30	22	6.2	7.0	10	27	18	36	68	47	35	23
30	29	30	6.6	6.4	---	30	19	35	66	50	35	23
31	29	---	7.0	5.8	---	33	---	34	---	54	38	---
TOTAL	799	728	618.8	201.2	338.6	1442	738	739	1779	1787	1334	980
MEAN	25.8	24.3	20.0	6.49	11.7	46.5	24.6	23.8	59.3	57.6	43.0	32.7
MAX	30	32	33	7.4	15	260	38	36	124	72	60	42
MIN	23	12	5.8	5.6	5.4	13	18	17	26	44	35	23
AC-FT	1580	1440	1230	399	672	2860	1460	1470	3530	3540	2650	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

MEAN	25.6	25.7	13.6	8.34	10.8	49.6	67.3	52.8	105	76.9	41.4	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

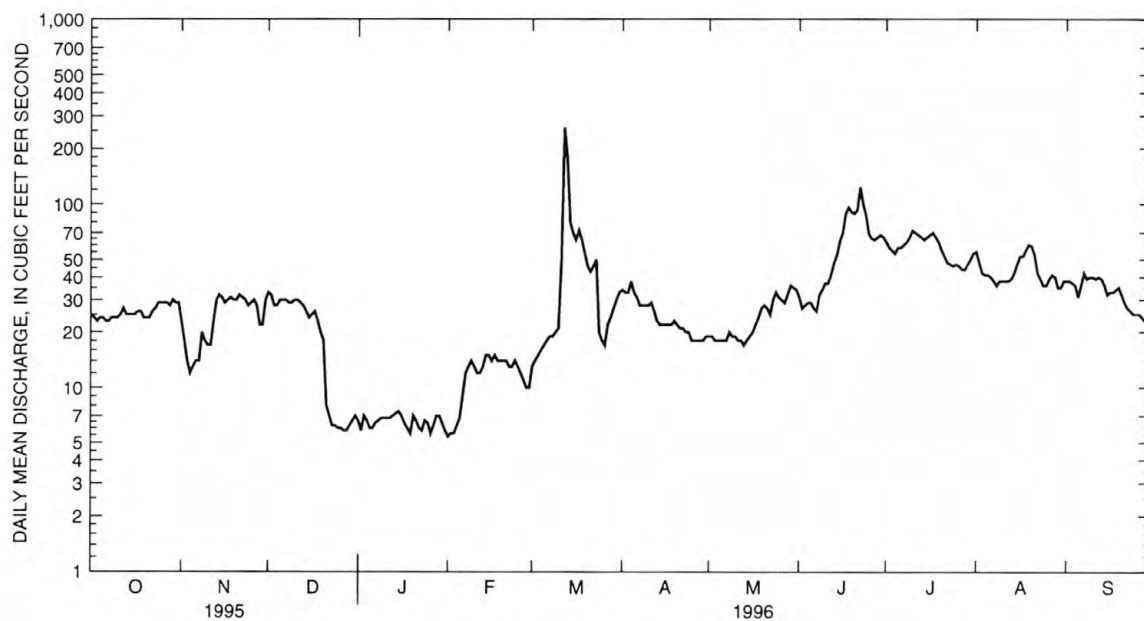
09215550 BIG SANDY RIVER BELOW FARSON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1981 - 1996	
ANNUAL TOTAL	30987.9		11484.6		--	
ANNUAL MEAN	84.9		31.4		43.1	
HIGHEST ANNUAL MEAN	--		--		95.5	
LOWEST ANNUAL MEAN	--		--		12.0	
HIGHEST DAILY MEAN	900	Mar 12	260	Mar 12	900	Mar 12 1995
LOWEST DAILY MEAN	5.8	Dec 27,28	5.4	Feb 1	.00	Dec 23-27 1990,
						Jan 22 to
						Feb 4 1991
ANNUAL SEVEN-DAY MINIMUM	6.0	Dec 23	6.0	Jan 30	.00	Jan 22 1991
INSTANTANEOUS PEAK FLOW	--		a		1400 ^b	Jun 18 1995
INSTANTANEOUS PEAK STAGE	--		5.82 ^b	Mar 12	8.30 ^c	Mar 12 1995
ANNUAL RUNOFF (AC-FT)	61460		22780		31260	
10 PERCENT EXCEEDS	285		61		69	
50 PERCENT EXCEEDS	32		27		23	
90 PERCENT EXCEEDS	7.6		6.9		6.5	

a Not determined. Probably occurred Mar. 12, during estimated period.

b Gage height 7.44 ft.

c Backwater from ice.



09215550 BIG SANDY RIVER BELOW FARSON, WY

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 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT												
20...	1050	22	2240	8.4	1.0	7.0	610	11.7	104	620	160	53
DEC												
13...	1000	27	1950	8.5	0.0	-2.0	600	11.1	97	540	140	47
FEB												
05...	1120	6.7	2260	8.0	0.0	-5.0	607	5.1	44	660	170	56
MAR												
21...	1425	58	1540	8.3	5.0	6.5	606	12.3	122	360	90	32
APR												
12...	0940	27	2080	8.5	5.0	12.0	598	11.2	113	470	120	42
30...	1125	18	2690	8.7	7.0	11.0	601	13.1	138	680	170	63
JUN												
20...	0945	86	834	8.3	14.0	21.0	603	8.1	100	220	62	17
JUL												
17...	1130	70	1330	8.2	16.0	23.0	605	10.6	136	360	95	29
AUG												
16...	0950	52	1160	8.4	15.0	24.5	609	9.6	120	310	80	26
SEP												
06...	1140	39	1470	8.3	11.0	14.5	606	13.4	154	440	120	35

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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
OCT											
20...	280	5	2.8	230	940	46	0.6	9.0	1630	2.22	96.8
DEC											
13...	270	5	2.5	196	820	43	0.6	12	1450	1.98	106
FEB											
05...	290	5	2.5	222	980	51	0.8	14	1700	2.31	30.7
MAR											
21...	200	5	3.4	174	590	31	0.6	10	1060	1.44	166
APR											
12...	300	6	3.3	225	830	50	0.9	12	1490	2.03	109
30...	420	7	3.4	228	1200	67	0.9	9.2	2070	2.82	101
JUN											
20...	88	3	2.3	123	280	14	0.4	11	548	0.75	127
JUL											
17...	140	3	2.6	174	480	20	0.6	10	882	1.20	167
AUG											
16...	130	3	2.7	163	400	18	0.5	12	767	1.04	108
SEP											
06...	150	3	2.6	185	580	25	0.6	10	1030	1.41	109

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.

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: Dec. 20 to Mar. 4 and Mar. 18-27. 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. U.S. Geological Survey data collection platform with satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	67	67	42	30	40	60	47	70	94	105	86
2	61	62	67	40	31	43	59	47	68	89	97	84
3	60	55	63	42	32	45	59	47	68	85	90	85
4	59	60	58	41	33	47	60	47	71	79	84	81
5	59	61	60	40	36	49	61	47	62	83	84	75
6	59	64	59	40	38	48	58	48	59	84	85	73
7	58	61	60	41	40	48	56	47	57	85	83	77
8	59	63	51	43	42	49	55	49	62	92	85	81
9	60	69	52	46	44	49	54	54	68	97	79	81
10	59	70	63	46	42	51	54	53	68	104	79	83
11	59	64	62	47	41	52	55	55	69	98	81	82
12	59	64	62	48	41	168	53	53	72	89	82	81
13	61	69	65	48	42	319	53	53	78	88	84	82
14	58	70	60	49	44	225	51	51	79	90	82	77
15	59	71	58	50	45	124	50	51	85	95	84	81
16	58	70	58	47	45	107	48	54	93	100	87	83
17	57	68	61	43	44	128	48	54	102	103	91	79
18	59	68	57	40	45	120	48	59	114	104	93	76
19	59	68	54	38	44	100	47	63	116	95	93	77
20	57	69	52	41	44	89	48	65	109	93	95	74
21	59	68	46	38	44	84	46	65	114	89	89	70
22	61	68	40	36	42	90	47	64	128	89	82	68
23	63	66	39	35	42	94	46	70	130	85	76	67
24	63	63	39	36	44	52	46	76	115	83	75	67
25	62	63	39	33	42	48	46	72	102	86	74	66
26	64	65	38	32	41	47	45	72	86	86	76	65
27	64	65	38	33	39	54	46	72	88	85	80	65
28	63	61	39	35	38	67	47	75	92	84	79	66
29	63	60	39	35	37	61	47	79	98	85	76	66
30	65	68	40	33	---	60	47	73	99	102	81	66
31	66	---	41	31	---	59	---	72	---	106	83	---
TOTAL	1875	1960	1627	1249	1172	2617	1540	1834	2622	2827	2614	2264
MEAN	60.5	65.3	52.5	40.3	40.4	84.4	51.3	59.2	87.4	91.2	84.3	75.5
MAX	66	71	67	50	45	319	61	79	130	106	105	86
MIN	57	55	38	31	30	40	45	47	57	79	74	65
AC-FT	3720	3890	3230	2480	2320	5190	3050	3640	5200	5610	5180	4490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1972	62.7	102	1984	36.0	1990
1973	55.1	149	1984	31.5	1991
1974	39.1	60.4	1976	22.1	1991
1975	31.7	55.5	1984	17.4	1990
1976	34.7	74.0	1982	16.4	1993
1977	74.9	226	1995	36.4	1976
1978	117	462	1980	28.3	1990
1979	77.8	208	1984	19.7	1990
1980	136	627	1986	29.4	1990
1981	111	340	1995	30.5	1989
1982	80.5	119	1983	32.4	1989
1983	73.4	100	1983	40.3	1989

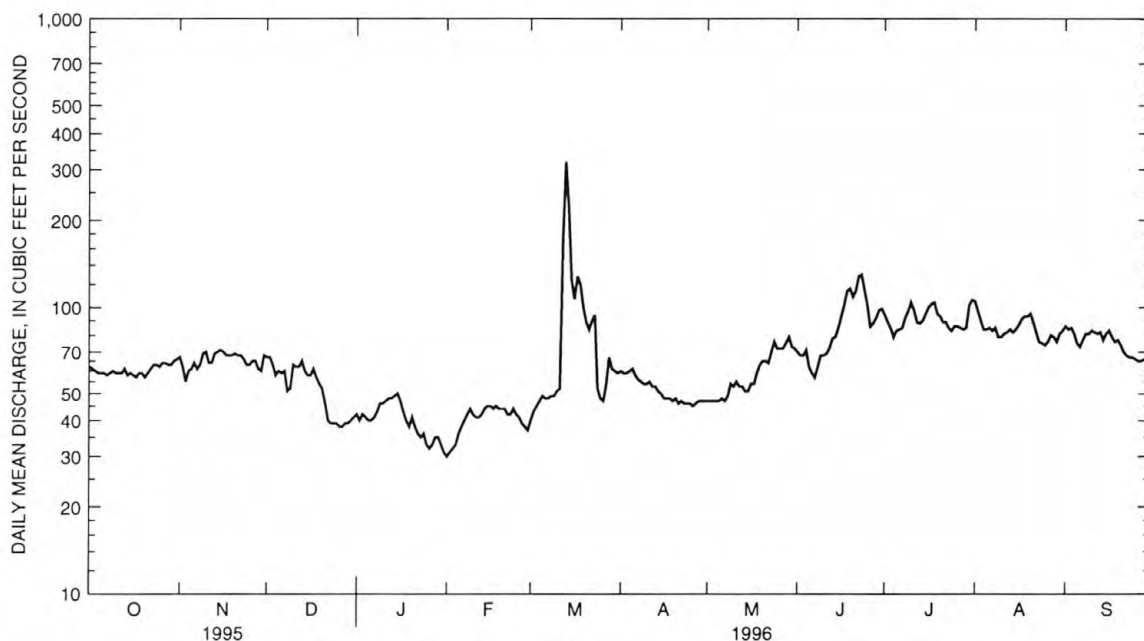
09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1972 - 1996	
ANNUAL TOTAL	42999		24201		--	
ANNUAL MEAN	118		66.1		73.2	
HIGHEST ANNUAL MEAN	--		--		139	1983
LOWEST ANNUAL MEAN	--		--		30.6	1990
HIGHEST DAILY MEAN	1070	Mar 13	319	Mar 13	5530	Apr 24 1980
LOWEST DAILY MEAN	27	Jan 1,2	30	Feb 1	7.0	Dec 24 1990
ANNUAL SEVEN-DAY MINIMUM	29	Jan 17	32	Jan 29	11	Dec 22 1990
INSTANTANEOUS PEAK FLOW	--		458 ^a	Mar 13	7430 ^b	Apr 24 1980
INSTANTANEOUS PEAK STAGE	--		7.60 ^c	Feb 7	10.58	Apr 24 1980
ANNUAL RUNOFF (AC-FT)	85290		48000		53050	
10 PERCENT EXCEEDS	334		93		111	
50 PERCENT EXCEEDS	65		62		55	
90 PERCENT EXCEEDS	35		41		29	

a Gage height, 6.48 ft.

b From rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow.

c Backwater from ice.



09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

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 1995 TO SEPTEMBER 1996

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, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT												
20...	0850	60	3350	8.4	0.0	3.0	615	11.0	95	950	200	110
DEC												
11...	1300	64	3170	8.5	2.0	7.0	610	11.2	103	950	200	110
FEB												
05...	1410	37	3800	8.1	0.0	7.0	610	8.9	77	1100	220	140
MAR												
21...	1550	84	2330	8.2	9.0	19.0	605	10.7	118	610	130	69
APR												
09...	1240	53	3270	8.3	13.0	21.0	610	9.4	113	900	180	110
30...	1345	49	3750	8.4	14.0	16.0	606	8.8	109	1100	220	130
JUN												
20...	1150	122	1740	8.3	16.0	21.0	609	8.2	105	470	100	53
JUL												
16...	1145	101	2170	8.3	18.5	23.5	605	7.7	105	600	130	67
AUG												
16...	1150	87	2400	8.1	18.0	25.5	615	9.1	121	670	140	78
SEP												
05...	1300	75	2610	8.3	16.0	21.5	606	7.4	96	760	160	87

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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
OCT											
20...	420	6	3.3	261	1600	42	0.8	10	2540	3.46	412
DEC											
11...	440	6	1.6	253	1500	39	0.7	12	2450	3.34	424
FEB											
05...	500	6	3.4	285	1900	40	0.9	14	2990	4.07	299
MAR											
21...	300	5	3.4	205	1100	32	0.7	11	1770	2.41	401
APR											
09...	460	7	3.8	259	1600	47	1.0	11	2570	3.49	367
30...	570	8	4.2	265	1900	50	1.1	10	3040	4.14	403
JUN											
20...	200	4	2.5	163	730	19	0.6	12	1210	1.65	400
JUL											
16...	260	5	3.0	204	950	23	0.7	9.7	1570	2.13	427
AUG											
16...	290	5	3.1	221	1100	25	0.7	10	1780	2.42	418
SEP											
05...	300	5	3.1	215	1200	28	0.7	10	1920	2.61	388

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY

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

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

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: Dec. 21 to Mar. 8. Records good except those for estimated daily discharges, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See station 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 data collection platform with satellite telemetry 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	1070	1060	1300	1400	1300	1240	1680	4120	6380	1740	1430
2	1100	1040	1060	1300	1400	1300	1260	1730	4160	5960	1740	1430
3	1090	1040	1060	1400	1400	1400	1250	1780	4180	5790	1730	1440
4	1090	1030	1050	1400	1400	1500	1240	1800	4170	5460	1650	1470
5	1090	1030	1050	1400	1400	1400	1230	1810	4640	5390	1640	1460
6	1090	1020	1060	1500	1400	1400	1240	1830	5190	5390	1640	1400
7	1090	1010	1050	1500	1400	1300	1230	2040	5330	5350	1700	1320
8	1090	958	1040	1500	1400	1300	1240	2220	5400	5340	1700	1310
9	1080	948	1140	1500	1300	1270	1270	2230	5470	4940	1590	1320
10	1080	948	1060	1500	1200	1260	1310	2160	5530	4400	1540	1340
11	1080	935	1050	1500	1200	1270	1300	2150	5570	3950	1540	1350
12	1090	934	1050	1500	1200	1270	1290	2170	5860	3680	1510	1310
13	1070	933	1040	1500	1200	1400	1320	2200	6070	3640	1480	1230
14	1080	932	1030	1500	1200	1520	1300	2380	6260	3640	1490	1220
15	1080	932	1040	1500	1200	1440	1300	2460	6810	3630	1470	1220
16	1080	932	1110	1500	1200	1370	1310	2470	6880	3400	1450	1230
17	1060	944	1040	1500	1200	1320	1310	2810	6930	3040	1450	1270
18	1060	972	1150	1500	1200	1330	1320	2990	6980	2870	1450	1260
19	1060	980	1140	1500	1200	1330	1320	3020	7000	2810	1440	1240
20	1050	983	1100	1500	1200	1290	1310	2990	7530	2790	1440	1160
21	1050	988	1000	1400	1200	1270	1310	3360	7620	2790	1430	1090
22	1050	988	1000	1400	1200	1290	1310	3500	7660	2800	1420	1080
23	1070	996	1000	1400	1200	1320	1330	3550	7620	2640	1420	1080
24	1060	992	1100	1400	1200	1320	1470	3930	7620	2410	1420	1100
25	1060	988	1100	1400	1200	1350	1530	4000	7200	2340	1420	1110
26	1060	988	1200	1400	1200	1250	1720	4040	7170	2160	1420	1100
27	1050	1000	1200	1400	1200	1240	1820	3990	6760	2080	1420	1100
28	1050	1010	1200	1400	1200	1250	1830	4040	6490	2060	1420	1100
29	1050	1010	1200	1400	1200	1240	1590	4080	6360	2040	1420	1100
30	1040	1040	1300	1400	---	1230	1590	4040	6370	1940	1430	1120
31	1040	---	1300	1400	---	1240	---	4120	---	1820	1430	---
TOTAL	33210	29571	33980	44700	36500	40970	41090	87570	184950	112930	47040	37390
MEAN	1071	986	1096	1442	1259	1322	1370	2825	6165	3643	1517	1246
MAX	1120	1070	1300	1500	1400	1520	1830	4120	7660	6380	1740	1470
MIN	1040	932	1000	1300	1200	1230	1230	1680	4120	1820	1420	1080
AC-FT	65870	58650	67400	88660	72400	81260	81500	173700	366800	224000	93300	74160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

	953	827	701	720	799	1013	1669	2584	4827	3278	1580	1142
MEAN	953	827	701	720	799	1013	1669	2584	4827	3278	1580	1142
MAX	3109	1844	1419	1442	1980	1852	3416	5665	11700	9415	3577	7746
(WY)	1983	1984	1972	1996	1974	1974	1962	1952	1986	1986	1982	1965
MIN	279	281	272	266	267	350	516	434	414	368	372	251
(WY)	1989	1989	1989	1989	1989	1989	1968	1992	1977	1977	1977	1988

GREEN RIVER BASIN

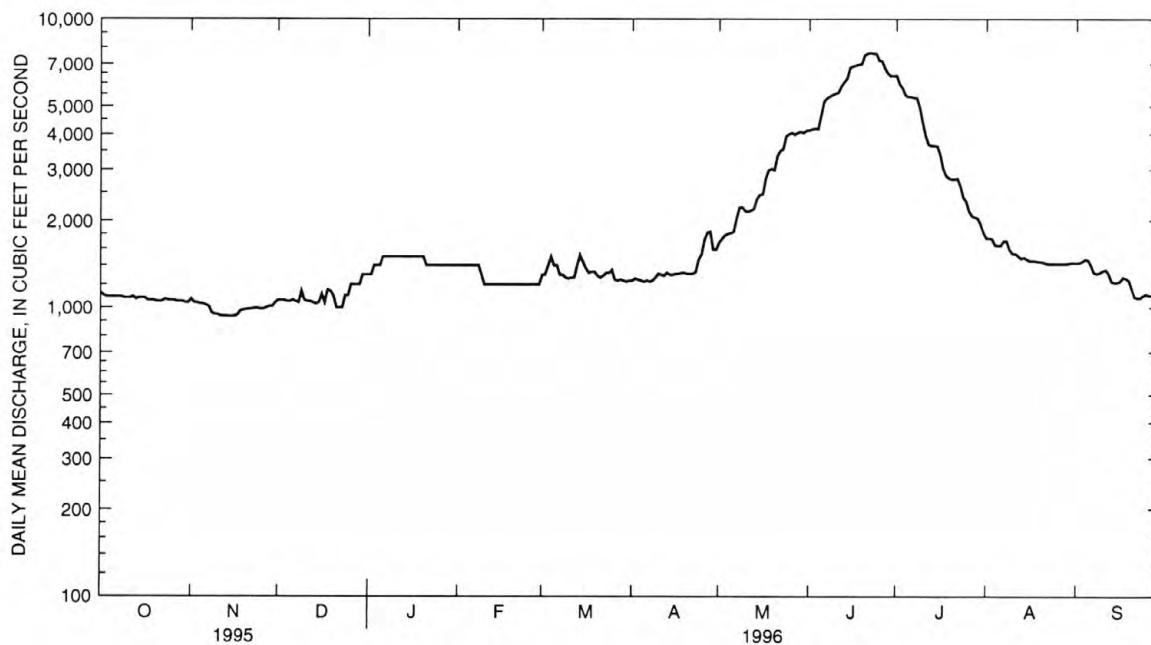
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09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1952 - 1996
ANNUAL TOTAL	667573	729901	--
ANNUAL MEAN	1829	1994	1676
HIGHEST ANNUAL MEAN	--	--	3089 1986
LOWEST ANNUAL MEAN	--	--	689 1977
HIGHEST DAILY MEAN	7100 Jul 15	7660 Jun 22	16700 Sep 7 1965
LOWEST DAILY MEAN	535 Sep 14	932 Nov 14-16	170 Nov 16 1955
ANNUAL SEVEN-DAY MINIMUM	669 Feb 11	935 Nov 11	214 Dec 24 1962
INSTANTANEOUS PEAK FLOW	--	7750 Jun 21	16800 ^a Sep 7 1965
INSTANTANEOUS PEAK STAGE	--	6.77 ^b Dec 21	8.53 Sep 7 1965
ANNUAL RUNOFF (AC-FT)	1324000	1448000	1214000
10 PERCENT EXCEEDS	5900	4250	3750
50 PERCENT EXCEEDS	1110	1340	1050
90 PERCENT EXCEEDS	720	1040	443

a Caused by emergency release from Fontenelle Reservoir.

b Ice jam.



09217000 GREEN RIVER NEAR GREEN RIVER, WY

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 1995 TO SEPTEMBER 1996

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)
OCT												
19...	0945	1060	468	8.8	7.0	4.0	602	9.3	97	160	39	15
DEC												
12...	1250	1050	495	8.8	1.0	3.0	610	12.0	106	180	46	16
FEB												
06...	0955	1450	492	8.4	0.0	4.0	617	11.0	93	210	53	18
APR												
11...	1205	1270	630	8.6	7.0	13.0	610	10.8	112	230	59	21
JUN												
19...	1020	7010	299	8.5	17.0	17.5	617	7.2	92	130	35	10
AUG												
14...	1510	1490	410	8.7	23.0	29.0	612	--	--	150	38	14

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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
OCT											
19...	32	1	1.3	124	110	4.3	0.2	3.6	280	0.38	801
DEC											
12...	36	1	1.5	136	120	5.0	0.2	6.1	312	0.42	885
FEB											
06...	28	0.8	1.6	155	110	4.3	0.3	7.3	315	0.43	1230
APR											
11...	47	1	2.1	169	160	7.3	0.2	6.0	404	0.55	1390
JUN											
19...	12	0.5	1.6	116	39	1.9	0.1	7.3	176	0.24	3340
AUG											
14...	27	1	1.4	131	82	3.0	0.2	6.0	250	0.34	1010

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 1995 TO SEPTEMBER 1996

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)
OCT												
19...	1130	1100	513	8.0	8.0	<0.01	0.07	0.02	<0.2	0.05	0.03	0.02
DEC												
12...	1450	1220	559	2.0	6.0	<0.01	0.07	<0.02	0.2	0.01	<0.01	0.01
FEB												
06...	1200	1450	529	0.0	7.0	<0.01	0.05	0.03	0.3	0.02	0.01	0.01
APR												
11...	1415	1250	684	7.0	13.0	<0.01	0.06	0.03	0.3	0.04	0.02	0.02
JUN												
19...	0900	7010	303	16.5	12.0	<0.01	<0.05	0.04	0.3	0.05	<0.01	0.01
AUG												
15...	1020	1420	436	19.0	18.0	0.01	0.06	0.02	0.3	0.04	0.02	0.02

GREEN RIVER BASIN

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.

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 benchmark). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, at site 970 ft downstream at different datum, July 1966 to September 1986 and October 1992 to September 1993 at site 0.2 mi downstream at datum 6.5 ft lower.

REMARKS.--Estimated daily discharges: Oct. 19, 20, 23-25, Nov. 2-8, Nov. 15 to Mar. 13, Mar. 23-28, Mar. 30 to Apr. 1, and July 12-16. Records fair except those for estimated daily discharges, which are poor. U.S. Geological Survey data collection platform with satellite telemetry at station.

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)
May 16	1945	1,600	4.67
June 9	0300	*1,610	*4.68

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	39	31	24	16	26	26	98	392	429	122	46
2	53	38	30	23	15	28	29	118	453	423	160	45
3	52	37	29	25	18	29	29	139	589	416	127	44
4	61	39	30	26	21	28	28	157	823	434	117	42
5	61	37	31	24	23	27	30	182	1150	448	108	43
6	59	38	31	23	25	26	34	232	1250	420	101	45
7	58	38	31	24	26	25	35	253	1190	389	94	44
8	53	38	30	25	27	25	40	261	1290	363	91	43
9	54	33	30	24	26	26	45	259	1370	356	89	42
10	54	30	29	24	25	26	53	263	1250	327	86	44
11	60	47	30	24	25	27	60	327	1070	305	82	51
12	59	42	30	24	25	27	60	457	1090	300	79	56
13	46	44	30	23	26	26	54	626	994	290	73	75
14	46	44	29	23	27	27	61	770	869	290	71	73
15	47	44	28	23	27	28	67	946	778	290	71	64
16	46	44	29	22	26	26	58	1280	729	280	69	63
17	44	43	28	21	27	27	53	1240	763	279	67	73
18	42	42	26	20	28	26	57	1000	709	249	82	66
19	38	41	24	20	27	27	48	705	646	232	71	65
20	37	40	24	21	26	26	60	525	599	212	65	65
21	42	38	25	22	26	27	50	485	744	201	60	69
22	35	36	25	21	26	26	56	539	674	187	58	68
23	34	33	24	20	25	25	46	534	518	176	54	61
24	35	32	23	21	26	24	60	416	489	166	54	56
25	39	32	23	21	24	21	72	393	470	155	54	53
26	46	30	23	21	23	30	76	362	445	150	54	51
27	46	29	24	20	21	29	83	381	752	142	56	49
28	46	29	25	21	23	28	73	435	705	140	70	53
29	43	32	26	21	24	26	75	390	470	145	53	50
30	44	32	27	20	---	26	78	393	437	137	50	48
31	46	---	26	19	---	25	---	380	---	125	48	---
TOTAL	1488	1121	851	690	704	820	1596	14546	23708	8456	2436	1647
MEAN	48.0	37.4	27.5	22.3	24.3	26.5	53.2	469	790	273	78.6	54.9
MAX	62	47	31	26	28	30	83	1280	1370	448	160	75
MIN	34	29	23	19	15	21	26	98	392	125	48	42
AC-FT	2950	2220	1690	1370	1400	1630	3170	28850	47020	16770	4830	3270

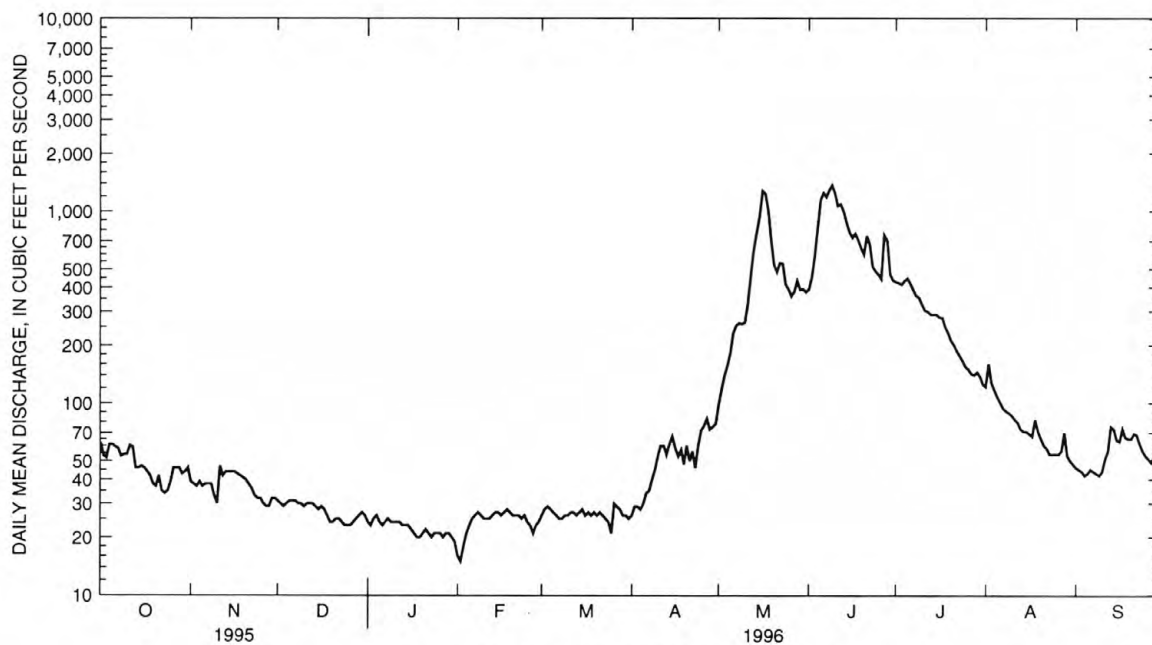
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

MEAN	54.2	40.6	33.1	26.2	23.7	25.2	50.7	397	788	343	113	68.4
MAX	136	62.0	50.0	41.4	36.9	38.6	112	789	1273	1003	232	157
(WY)	1983	1974	1974	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

09217900 BLACKS FORK NEAR ROBERTSON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	77049		58063		--	
ANNUAL MEAN	211		159		164	
HIGHEST ANNUAL MEAN	--		--		228	1983
LOWEST ANNUAL MEAN	--		--		79.3	1977
HIGHEST DAILY MEAN	1870	Jun 15	1370	Jun 9	1880	Jun 19 1983
LOWEST DAILY MEAN	20	Mar 29	15	Feb 2	3.2	Apr 2 1994
ANNUAL SEVEN-DAY MINIMUM	22	Mar 23	19	Jan 28	3.9	Apr 2 1994
INSTANTANEOUS PEAK FLOW	--		1610	Jun 9	2480 ^a	Jun 19 1983
INSTANTANEOUS PEAK STAGE	--		4.68	Jun 9	5.17	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	152800		115200		118800	
10 PERCENT EXCEEDS	757		470		504	
50 PERCENT EXCEEDS	42		46		45	
90 PERCENT EXCEEDS	26		24		21	

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



09217900 BLACKS FORK NEAR ROBERTSON, WY

GREEN RIVER BASIN

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 1-12, May 28 to June 5, and June 9, 10. 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. 3 . . . 209

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	35	715	610	196	261
2	---	---	---	---	---	---	---	35	715	526	196	263
3	---	---	---	---	---	---	---	35	715	491	194	260
4	---	---	---	---	---	---	---	35	715	485	195	257
5	---	---	---	---	---	---	---	35	710	488	197	255
6	---	---	---	---	---	---	---	35	705	490	188	253
7	---	---	---	---	---	---	---	35	834	494	182	251
8	---	---	---	---	---	---	---	92	1190	491	185	248
9	---	---	---	---	---	---	---	150	1310	483	183	245
10	---	---	---	---	---	---	---	278	1280	476	182	251
11	---	---	---	---	---	---	---	400	1200	474	184	259
12	---	---	---	---	---	---	---	400	1270	436	185	255
13	---	---	---	---	---	---	---	523	1230	426	185	251
14	---	---	---	---	---	---	---	682	1110	423	185	250
15	---	---	---	---	---	---	---	757	1020	415	185	246
16	---	---	---	---	---	---	---	1010	918	388	183	244
17	---	---	---	---	---	---	---	1340	892	375	182	208
18	---	---	---	---	---	---	---	1370	864	372	182	197
19	---	---	---	---	---	---	---	1210	799	372	183	200
20	---	---	---	---	---	---	---	966	762	369	202	200
21	---	---	---	---	---	---	---	817	735	367	210	195
22	---	---	---	---	---	---	---	738	775	367	210	191
23	---	---	---	---	---	---	---	739	725	305	210	188
24	---	---	---	---	---	---	---	739	679	281	210	188
25	---	---	---	---	---	---	---	734	629	279	210	186
26	---	---	---	---	---	---	---	729	622	276	209	185
27	---	---	---	---	---	---	---	726	615	273	247	183
28	---	---	---	---	---	---	---	726	630	271	261	182
29	---	---	---	---	---	---	---	726	633	267	259	179
30	---	---	---	---	---	---	---	726	614	216	259	176
31	---	---	---	---	---	---	---	726	---	194	259	---
TOTAL	---	---	---	---	---	---	---	17549	25611	12180	6298	6707
MEAN	---	---	---	---	---	---	---	566	854	393	203	224
MAX	---	---	---	---	---	---	---	1370	1310	610	261	263
MIN	---	---	---	---	---	---	---	35	614	194	182	176
AC-FT	---	---	---	---	---	---	---	34810	50800	24160	12490	13300

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

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1940 - 1992

ANNUAL MEAN	--	161 ^a	
HIGHEST ANNUAL MEAN	--	281	1983
LOWEST ANNUAL MEAN	--	82.9	1977
HIGHEST DAILY MEAN	1370	May 18	2180 Jun 7 1957
LOWEST DAILY MEAN	35	May 1-7	1.0 Sep 15,16 1983
ANNUAL SEVEN-DAY MINIMUM	--		5.7 Nov 7 1970
INSTANTANEOUS PEAK FLOW	1400	May 18	2530 ^b Jun 7 1957#
INSTANTANEOUS PEAK STAGE	4.77	May 18	6.76 ^c Jun 12 1965#
ANNUAL RUNOFF (AC-FT)	--		116600
10 PERCENT EXCEEDS	--		507
50 PERCENT EXCEEDS	--		44
90 PERCENT EXCEEDS	--		14

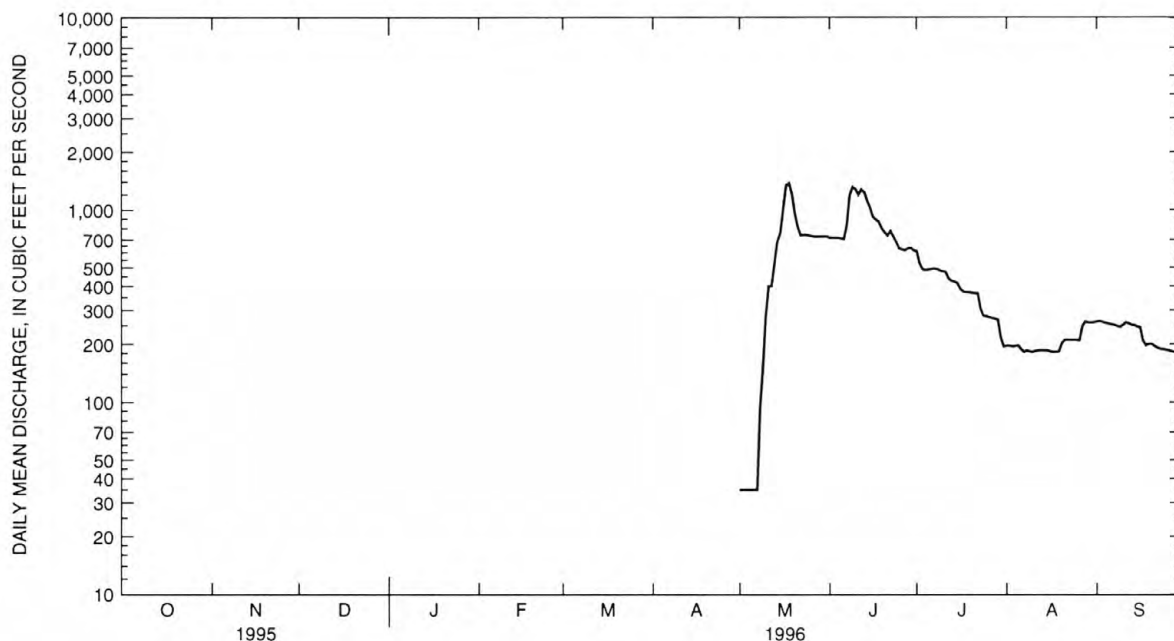
* During period of operation.

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.



09218500 BLACKS FORK NEAR MILLBURNE, WY

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 1-5. Records fair except those for estimated daily discharges, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979. Result of discharge measurement, in cubic feet per second, made during the period when the station was not in operation is given below:

Oct. 3 . . . 68.1

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	24	125	141	59	78
2	---	---	---	---	---	---	---	24	140	135	60	77
3	---	---	---	---	---	---	---	24	192	129	60	73
4	---	---	---	---	---	---	---	24	223	128	60	68
5	---	---	---	---	---	---	---	24	286	131	59	67
6	---	---	---	---	---	---	---	29	414	131	62	66
7	---	---	---	---	---	---	---	36	393	124	65	66
8	---	---	---	---	---	---	---	36	394	118	65	67
9	---	---	---	---	---	---	---	36	432	125	64	66
10	---	---	---	---	---	---	---	36	410	132	64	63
11	---	---	---	---	---	---	---	68	340	131	64	59
12	---	---	---	---	---	---	---	79	315	132	64	58
13	---	---	---	---	---	---	---	83	300	131	64	56
14	---	---	---	---	---	---	---	87	265	131	66	57
15	---	---	---	---	---	---	---	87	242	131	66	57
16	---	---	---	---	---	---	---	88	212	133	66	56
17	---	---	---	---	---	---	---	91	208	136	66	50
18	---	---	---	---	---	---	---	93	206	135	66	42
19	---	---	---	---	---	---	---	93	191	133	66	39
20	---	---	---	---	---	---	---	93	179	131	72	39
21	---	---	---	---	---	---	---	93	180	130	77	38
22	---	---	---	---	---	---	---	93	238	131	77	38
23	---	---	---	---	---	---	---	93	189	109	77	37
24	---	---	---	---	---	---	---	93	162	93	77	37
25	---	---	---	---	---	---	---	93	150	92	77	37
26	---	---	---	---	---	---	---	93	142	92	77	35
27	---	---	---	---	---	---	---	93	144	93	79	36
28	---	---	---	---	---	---	---	93	236	93	82	35
29	---	---	---	---	---	---	---	93	202	94	81	35
30	---	---	---	---	---	---	---	92	153	75	79	34
31	---	---	---	---	---	---	---	96	---	59	79	---
TOTAL	---	---	---	---	---	---	---	2180	7263	3679	2140	1566
MEAN	---	---	---	---	---	---	---	70.3	242	119	69.0	52.2
MAX	---	---	---	---	---	---	---	96	432	141	82	78
MIN	---	---	---	---	---	---	---	24	125	59	59	34
AC-FT	---	---	---	---	---	---	---	4320	14410	7300	4240	3110

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
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

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY--Continued

SUMMARY STATISTICS

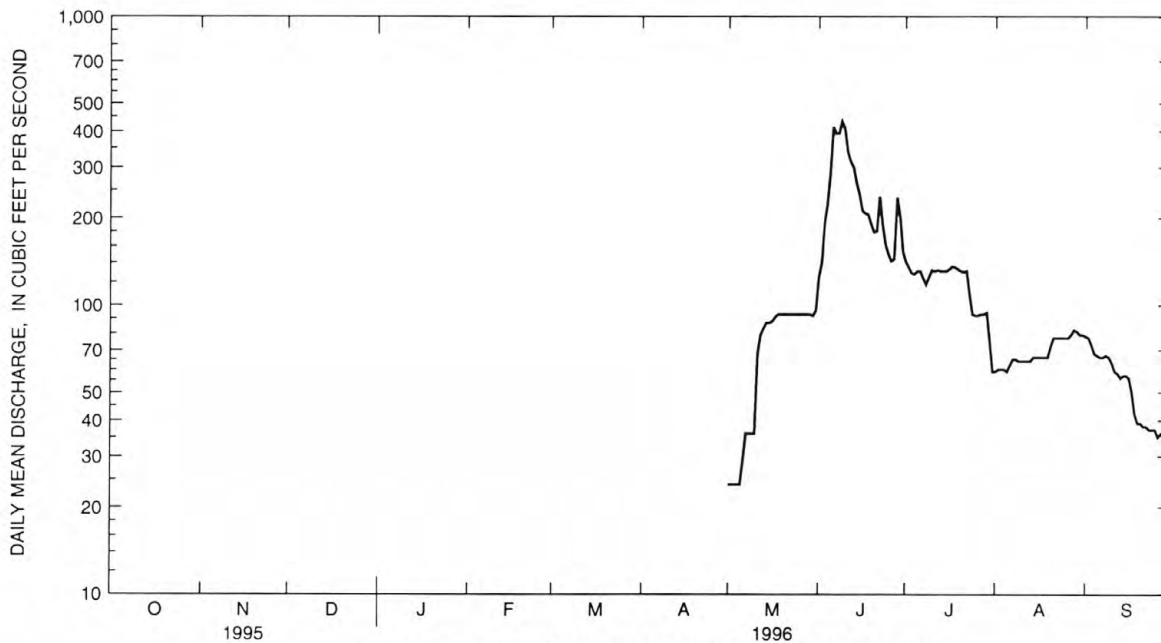
FOR 1996 WATER YEAR*

WATER YEARS 1939 - 1971

ANNUAL MEAN	--		47.1	
HIGHEST ANNUAL MEAN	--		88.9	1965
LOWEST ANNUAL MEAN	--		25.4	1954
HIGHEST DAILY MEAN	432	Jun 9	1030	Jun 10 1965
LOWEST DAILY MEAN	24	May 1-5	1.0	Dec 17 1962
ANNUAL SEVEN-DAY MINIMUM	--		1.0	Dec 17 1962
INSTANTANEOUS PEAK FLOW	472	Jun 6	1450	Jun 10 1965#
INSTANTANEOUS PEAK STAGE	5.62	Jun 6	6.75	Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--		34160	
10 PERCENT EXCEEDS	--		140	
50 PERCENT EXCEEDS	--		13	
90 PERCENT EXCEEDS	--		5.6	

* During period of operation.

For period of record through 1996.



09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

GREEN RIVER BASIN

09222000 BLACKS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¹/₄ NW¹/₄ SW¹/₄ sec.15, T.17 N., R.113 N., Uinta County, Hydrologic Unit 14040107, 200 ft downstream from bridge on old U.S. Highway 30S, 8.5 mi downstream from Smiths Fork, and 11 mi northeast of Lyman.

DRAINAGE.--821 mi².

PERIOD OF RECORD.--Water years 1962 to 1989, October 1995 to September 1996.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1962 to September 1983.

WATER TEMPERATURES: May 1962 to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 18...	1235	53	1740	8.5	9.0	17.0	606	10.0	110	K4	128	18
MAR 21...	0835	123	1350	8.5	4.0	7.0	607	10.3	99	K3	459	152
JUN 19...	1305	308	1170	8.4	17.0	22.0	610	7.6	99	130	99	82
AUG 14...	0955	31	1590	8.4	19.0	21.5	612	10.2	138	39	78	6.5

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

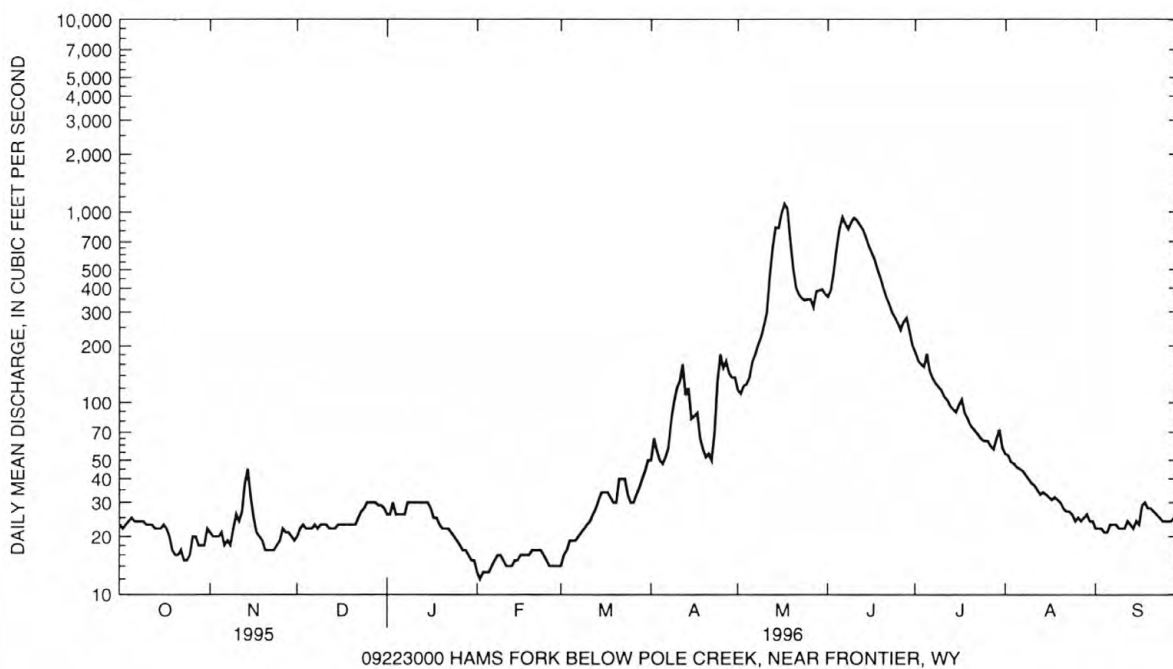
GREEN RIVER BASIN

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1953 - 1996	
ANNUAL TOTAL	34235		41392		--	
ANNUAL MEAN	93.8		113		98.6	
HIGHEST ANNUAL MEAN	--		--		214	
LOWEST ANNUAL MEAN	--		--		17.7	
HIGHEST DAILY MEAN	737	Jun 6	1100	May 17	2000	Jun 5 1986
LOWEST DAILY MEAN	12	Jan 2-4	12	Feb 2	.10	Aug 17 1977
ANNUAL SEVEN-DAY MINIMUM	13	Jan 1	13	Jan 31	.62	Aug 11 1977
INSTANTANEOUS PEAK FLOW	--		1200	May 17	2230 ^a	Jun 5 1986
INSTANTANEOUS PEAK STAGE	--		5.74	May 17	8.10 ^b	May 28 1971
ANNUAL RUNOFF (AC-FT)	67910		82100		71400	
10 PERCENT EXCEEDS	308		355		307	
50 PERCENT EXCEEDS	23		28		22	
90 PERCENT EXCEEDS	17		17		12	

a Gage height, 6.72 ft.

b Site then in use.



GREEN RIVER BASIN

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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 30 North, 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 1995 TO SEPTEMBER 1996

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)
DEC							
04...	1615	28	484	8.8	0.0	3.0	591
MAR							
19...	1320	70	518	8.3	0.0	3.0	600
JUN							
17...	1450	570	353	8.5	18.0	26.0	597
AUG							
13...	1855	33	347	9.2	24.0	26.0	602
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)
DEC							
04...	13.6	120	K21	<0.01	0.18	<0.02	0.02
MAR							
19...	11.6	101	54	<0.01	0.22	<0.02	0.03
JUN							
17...	8.4	114	26	<0.01	<0.05	0.03	0.02
AUG							
13...	11.2	170	K10	0.01	0.11	0.04	0.04

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

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.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 6,127 ft above sea level.

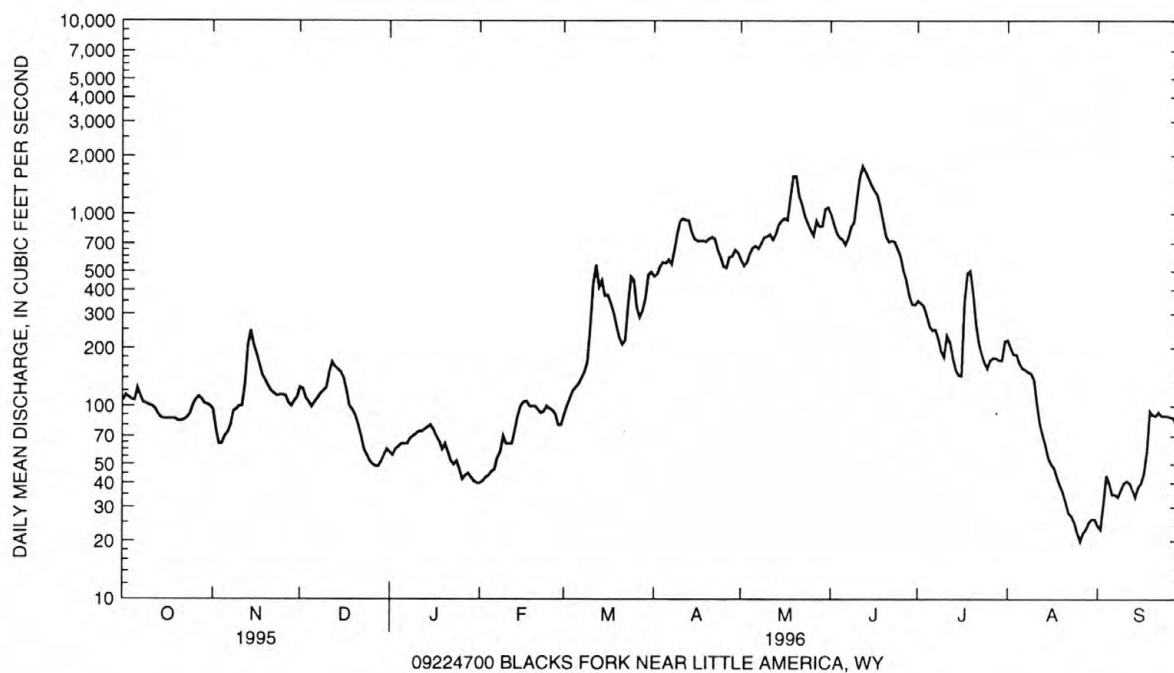
REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 12, Nov. 27-29, Dec. 3-9, and Dec. 15 to Mar. 9. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971, Viva Naughton 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 data collection platform with satellite telemetry at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	96	125	58	40	90	472	574	1000	352	220	24
2	114	76	123	56	41	100	484	536	889	342	200	23
3	111	64	110	60	43	110	531	556	797	330	185	31
4	108	64	105	62	44	120	559	620	754	295	185	44
5	107	70	99	64	46	125	552	664	735	260	167	40
6	124	73	105	64	47	130	576	677	691	248	157	35
7	113	80	110	64	54	140	546	658	748	250	154	35
8	104	94	116	68	58	150	652	703	856	225	150	34
9	103	96	120	70	70	170	797	755	898	193	148	37
10	101	100	124	72	64	259	917	762	1190	180	137	40
11	100	100	149	74	64	436	944	780	1550	232	104	41
12	97	130	169	74	64	539	925	732	1760	215	82	40
13	91	206	160	76	75	416	923	784	1650	179	71	37
14	87	247	155	78	89	449	804	874	1520	154	63	34
15	86	208	150	80	100	374	741	922	1410	145	54	38
16	86	187	140	76	105	378	721	947	1320	144	50	40
17	86	165	120	70	106	343	723	926	1250	347	48	45
18	86	145	100	66	100	305	722	1220	1090	489	43	58
19	86	136	96	60	100	261	716	1570	906	502	39	94
20	84	127	90	64	100	226	741	1570	762	382	36	90
21	84	120	80	58	96	209	756	1240	714	266	32	89
22	85	116	70	52	92	219	741	1120	724	212	28	93
23	87	113	60	50	94	335	646	974	713	186	27	89
24	91	114	56	52	100	469	593	890	653	168	25	89
25	101	114	52	47	97	451	530	822	600	157	22	89
26	108	113	50	42	95	325	522	773	505	173	20	88
27	112	104	49	44	91	289	594	918	450	178	22	87
28	109	100	49	45	80	313	601	859	372	177	23	81
29	103	106	52	43	80	363	645	862	338	173	25	81
30	102	111	56	41	---	480	625	1060	336	173	26	80
31	100	---	60	40	---	496	---	1080	---	217	26	---
TOTAL	3063	3575	3100	1870	2235	9070	20299	27428	27181	7544	2569	1726
MEAN	98.8	119	100	60.3	77.1	293	677	885	906	243	82.9	57.5
MAX	124	247	169	80	106	539	944	1570	1760	502	220	94
MIN	84	64	49	40	40	90	472	536	336	144	20	23
AC-FT	6080	7090	6150	3710	4430	17990	40260	54400	53910	14960	5100	3420

MEAN	95.7	103	76.9	76.3	110	315	508	965	1090	326	110	83.4
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

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	123796.8		109660		--	
ANNUAL MEAN	339		300		323	
HIGHEST ANNUAL MEAN	--		--		888	
LOWEST ANNUAL MEAN	--		--		29.0	
HIGHEST DAILY MEAN	2110	Jul 5	1760	Jun 12	9340	Jun 13 1965
LOWEST DAILY MEAN	3.9	Jan 2	20	Aug 26	.00	Many days,
					.00	several years
ANNUAL SEVEN-DAY MINIMUM	4.8	Jan 1	23	Aug 24	.00	Sep 20 1962
INSTANTANEOUS PEAK FLOW	--		1790	Jun 12	9980	Jun 13 1965
INSTANTANEOUS PEAK STAGE	--		7.22	Jun 12	10.90	Jun 13 1965
ANNUAL RUNOFF (AC-FT)	245600		217500		233900	
10 PERCENT EXCEEDS	1130		799		929	
50 PERCENT EXCEEDS	127		116		110	
90 PERCENT EXCEEDS	50		44		19	



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, 3,080 microsiemens, Nov 24; minimum mean daily, 460 microsiemens, May 10.

WATER TEMPERATURES: Maximum, 28.9°C, Aug.16; minimum, 0.0°C on many days October through March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
OCT											
19...	1405	83	1730	9.0	11.0	550	130	55	180	3	4.0
DEC											
12...	0900	160	1470	0.0	-1.0	490	120	47	140	3	3.5
FEB											
06...	1420	48	1390	0.0	5.0	510	130	45	110	2	3.8
MAR											
21...	1050	210	1110	5.0	12.0	200	47	20	61	2	3.0
APR											
11...	0950	783	596	8.5	13.0	220	57	19	40	1	2.8
30...	1630	452	610	9.0	15.5	250	66	21	34	0.9	2.3
JUN											
19...	1610	1530	744	19.5	26.5	290	81	22	45	1	2.4
JUL											
17...	0740	468	1150	17.0	15.5	360	95	31	110	3	2.8
AUG											
14...	1305	54	962	23.0	29.0	290	72	26	88	2	2.5
SEP											
06...	0845	34	1250	12.0	9.0	360	85	37	130	3	3.0

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)	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)
OCT										
19...	200	640	60	0.5	4.9	1190	1.62	268	310	<3
DEC										
12...	223	510	56	0.4	8.4	1020	1.39	440	280	<3
FEB										
06...	278	430	52	0.6	11	949	1.29	123	400	<3
MAR										
21...	218	170	38	0.2	4.9	475	0.65	269	130	<3
APR										
11...	180	110	24	0.3	7.3	368	0.50	779	80	4
30...	192	100	21	0.3	6.0	366	0.50	446	80	<3
JUN										
19...	207	170	14	0.4	11	470	0.64	1940	110	4
JUL										
17...	246	320	27	0.5	9.8	744	1.01	940	210	<3
AUG										
14...	167	290	23	0.4	4.0	606	0.82	88.4	150	<3
SEP										
06...	151	470	35	0.5	0.20	851	1.16	78.2	220	<3

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	1410	---	1780	1270	---	1150	---	831	1180	962	1630
2	1390	1420	---	1730	1280	---	1080	---	861	1020	883	1800
3	1390	1450	---	1710	1290	---	1090	---	823	963	762	1870
4	1430	1460	---	1650	1380	---	977	---	852	926	761	1890
5	1400	1570	---	1600	1390	1890	869	---	844	970	827	1670
6	1370	1560	---	1680	1360	1770	775	---	814	1080	886	1240
7	1390	1440	1540	1610	1400	1690	733	---	761	1160	871	1170
8	1400	1500	1580	1570	1350	1700	710	522	696	1180	821	1190
9	1470	1500	---	1540	1300	1590	671	494	661	1130	784	1170
10	1540	1400	---	1440	1290	1590	605	460	687	1120	739	1200
11	1620	1450	---	1410	1290	1600	563	463	636	1150	722	1110
12	1660	1400	1500	1390	1310	1460	556	464	586	1190	742	1050
13	1980	1600	1500	1380	1500	1420	553	487	613	1200	810	1160
14	1960	2140	1380	1370	1620	1400	543	525	634	1180	951	1280
15	1960	2190	1280	1370	1880	1370	524	548	656	1140	965	1460
16	1880	1820	1370	1350	1860	---	516	529	637	1130	1030	1550
17	1770	1810	1370	1340	1670	---	510	505	671	1070	1160	1560
18	1760	1840	1540	1360	1470	---	545	533	684	1060	1180	1550
19	1710	1930	1530	1360	1460	---	596	512	713	1300	1200	1560
20	1710	2090	1450	1380	1400	---	627	530	780	1150	1250	1590
21	1610	2090	1630	1390	1330	1120	615	565	831	1020	1280	1350
22	1530	2310	1680	1380	1230	1170	599	587	761	986	1210	1390
23	1510	2730	1860	1380	---	1150	627	585	784	986	1250	1360
24	1570	3080	1870	1400	---	1020	655	594	887	981	1300	1320
25	1570	3010	1910	1380	---	923	694	667	964	983	1400	1230
26	1570	---	2100	1390	---	827	676	672	955	979	1460	1170
27	1570	---	2050	1350	---	980	730	747	959	870	---	1180
28	1610	---	2030	1330	---	1050	756	772	938	821	1630	1150
29	1570	---	2050	1320	---	1160	652	779	1000	809	1600	1160
30	1490	---	1980	1310	---	1160	656	828	1130	792	1580	1160
31	1440	---	1870	1280	---	1150	---	784	---	879	1520	---
MEAN	1590	---	---	1450	---	---	695	---	788	1050	---	1370
MAX	1980	---	---	1780	---	---	1150	---	1130	1300	---	1890
MIN	1350	---	---	1280	---	---	510	---	586	792	---	1050

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.7	8.3	4.6	1.0	4.1	.6	.0	.0	.0	.0	---	---
2	11.4	7.0	2.4	.0	3.0	.3	.0	.0	.0	.0	---	---
3	11.0	6.3	1.0	.0	.3	.0	.0	.0	.0	.0	---	---
4	8.7	4.1	2.3	.0	1.3	.0	.0	.0	.0	.0	---	---
5	9.2	2.1	1.2	.0	.6	.0	.0	.0	.0	.0	---	.0
6	9.9	3.1	1.3	.0	2.7	.0	.0	.0	.0	.0	.0	.0
7	7.8	4.8	1.4	.0	1.0	.0	.0	.0	.0	.0	.2	.0
8	9.1	3.0	4.7	.0	---	.0	.0	.0	.0	.0	.3	.0
9	9.4	4.2	5.1	2.1	---	---	.0	.0	.0	.0	.6	.0
10	11.5	4.7	2.1	.0	---	---	.0	.0	.0	.0	.3	.0
11	12.0	5.9	2.2	.0	---	---	.0	.0	.0	.0	1.0	.0
12	11.2	7.2	4.3	.2	.0	.0	.0	.0	.0	.0	2.5	.0
13	9.2	3.5	6.8	4.1	.0	.0	.0	.0	.0	.0	2.0	.4
14	9.8	2.8	7.8	5.3	.0	.0	.0	.0	.0	.0	3.3	.6
15	11.1	4.4	6.3	3.6	.0	.0	.0	.0	.0	.0	---	.6
16	11.2	4.8	5.0	3.2	.0	.0	.0	.0	.1	.0	---	---
17	10.9	5.3	4.9	2.2	.0	.0	.0	.0	.0	.0	---	---
18	11.5	6.3	5.2	1.6	.0	.0	.0	.0	.0	.0	---	---
19	9.4	3.7	4.9	1.6	.0	.0	.0	.0	.0	.0	---	---
20	8.0	1.6	4.9	1.7	.0	.0	.0	.0	.0	.0	---	---
21	7.3	3.1	3.3	.9	.0	.0	.0	.0	.0	.0	9.2	---
22	5.4	1.8	4.2	.4	.0	.0	.0	.0	.1	.0	7.8	5.9
23	5.2	.8	4.8	1.5	.0	.0	.0	.0	---	---	6.7	1.3
24	4.3	.0	4.5	1.2	.0	.0	.0	.0	---	---	1.9	.0
25	5.0	.2	4.7	.6	.0	.0	.0	.0	---	---	1.3	.0
26	7.6	2.1	3.8	1.0	.0	.0	.0	.0	---	---	.9	.0
27	7.3	3.1	1.0	.0	.0	.0	.0	.0	---	---	3.3	.0
28	5.7	2.0	1.0	.0	.0	.0	.0	.0	---	---	5.9	1.1
29	6.0	1.8	3.2	.6	.0	.0	.0	.0	---	---	7.2	3.5
30	7.2	2.8	4.6	.3	.0	.0	.0	.0	---	---	5.9	3.4
31	6.1	4.2	---	---	.0	.0	.0	.0	---	---	7.9	3.5
MONTH	12.7	.0	7.8	.0	---	---	.0	.0	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.2	5.3	---	---	14.4	8.7	23.3	17.9	22.5	17.7	21.6	12.5
2	8.6	6.1	---	---	16.7	11.5	24.1	18.5	22.3	17.8	20.9	11.5
3	8.8	4.4	---	---	18.4	13.6	22.3	19.4	19.9	17.5	22.3	11.4
4	8.5	5.2	---	---	20.1	15.2	22.0	18.6	19.1	15.5	20.8	14.0
5	9.2	4.4	---	---	19.7	16.3	25.1	19.5	19.8	12.9	19.3	14.1
6	10.4	5.9	---	---	20.5	14.6	25.3	20.3	20.5	15.1	19.0	11.6
7	11.8	7.1	---	---	22.1	16.7	23.8	18.2	22.5	14.1	19.3	9.8
8	13.2	8.5	12.1	---	22.0	18.8	25.7	19.5	24.5	16.2	19.0	9.8
9	13.3	9.6	12.9	8.1	22.2	19.1	22.8	20.5	23.8	17.6	20.7	10.6
10	12.4	10.2	12.9	9.1	22.5	19.6	24.7	18.4	24.9	16.6	22.1	13.4
11	10.9	8.5	13.5	8.1	20.7	18.4	22.3	18.5	27.1	17.8	16.5	13.4
12	9.5	7.4	14.3	9.7	21.9	17.4	25.8	17.6	27.2	18.4	21.4	11.4
13	7.4	5.2	14.2	10.1	21.0	15.1	25.4	19.1	26.9	18.5	19.1	13.9
14	7.8	3.4	13.7	10.9	18.9	13.7	25.2	16.2	24.6	19	16.0	12.4
15	9.1	4.7	15.3	12.3	20.4	15.3	22.6	17.8	26.8	18.7	19.1	9.8
16	9.0	6.4	14.1	11.9	19.5	14.6	22.0	15.6	28.3	18.4	14.3	8.3
17	9.1	6.5	13.1	9.9	21.5	17.0	20.7	16.7	24.5	19.3	10.1	5.9
18	9.1	5.2	11.1	8.8	21.8	18.5	22.1	16.9	23.0	18.8	9.4	5.9
19	6.9	2.2	8.8	6.9	21.5	15.8	21.4	16.8	25.1	14.8	8.2	5.5
20	5.9	3.0	8.1	5.1	20.8	15.0	22.1	17.4	25.4	16.6	12.3	4.9
21	5.4	1.7	10.5	5.7	18.2	14.1	21.7	15.8	24.6	16.1	14.0	7.4
22	6.5	3.5	9.0	7.0	16.0	13.2	22.1	16.6	24.9	15.1	13.1	9.4
23	7.2	5.1	8.5	6.8	17.1	12.1	23.5	16.3	25.9	14.5	13.2	5.9
24	9.6	7.2	7.3	4.9	19.3	14.5	24.2	17.7	26.5	15.6	14.5	7.9
25	11.6	6.0	5.8	3.9	19.7	15.4	22.4	18.4	24.3	15.8	13.6	7.1
26	10.7	6.5	6.7	2.9	18.0	14.8	23.3	16.6	26.1	15.1	9.1	3.3
27	11.3	6.6	8.3	4.7	16.7	14.0	23.8	18.1	---	---	12.6	2.7
28	8.9	5.5	7.9	5.9	18.5	14.1	22.4	18.5	24.1	---	13.1	3.4
29	8.2	4.7	9.3	5.8	20.4	13.9	22.8	18.2	22.7	13.9	14.3	7.0
30	8.8	---	14.6	7.0	22.1	16.4	23.6	17.4	23.9	13.7	15.4	8.2
31	---	---	13.2	10.0	---	---	22.5	17.4	22.9	13.9	---	---
MONTH	13.3	---	---	---	22.5	8.7	25.8	15.6	---	---	22.3	2.7

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¹/₄ NE¹/₄ 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, probably is 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, 3,487,000 acre-ft, Oct. 1, elevation, 6,033.60 ft; minimum observed, 3,059,000 acre-ft, May 17, 18, elevation, 6,022.30 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 (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3490000	3470000	3380000	3280000	3230000	3190000	3150000	3110000	3080000	3270000	3400000	3390000
2	3490000	3470000	3380000	3280000	3230000	3190000	3150000	3100000	3090000	3280000	3400000	3390000
3	3480000	3460000	3380000	3280000	3230000	3190000	3150000	3100000	3090000	3290000	3410000	3390000
4	3480000	3460000	3370000	3270000	3220000	3190000	3150000	3090000	3090000	3300000	3400000	3390000
5	3480000	3460000	3370000	3270000	3220000	3180000	3140000	3090000	3090000	3300000	3400000	3390000
6	3480000	3460000	3370000	3270000	3220000	3180000	3140000	3090000	3090000	3310000	3400000	3390000
7	3480000	3450000	3360000	3270000	3220000	3180000	3140000	3080000	3100000	3320000	3410000	3390000
8	3480000	3450000	3360000	3260000	3220000	3180000	3140000	3080000	3100000	3330000	3410000	3380000
9	3480000	3450000	3360000	3260000	3220000	3180000	3140000	3080000	3110000	3330000	3410000	3380000
10	3480000	3450000	3350000	3260000	3220000	3180000	3140000	3070000	3110000	3340000	3410000	3380000
11	3480000	3440000	3350000	3260000	3210000	3180000	3130000	3070000	3110000	3350000	3410000	3380000
12	3480000	3440000	3350000	3260000	3210000	3170000	3130000	3070000	3120000	3350000	3410000	3380000
13	3480000	3440000	3340000	3260000	3210000	3170000	3130000	3070000	3130000	3360000	3400000	3380000
14	3480000	3430000	3340000	3260000	3210000	3170000	3130000	3070000	3130000	3360000	3400000	3380000
15	3480000	3430000	3340000	3260000	3210000	3170000	3130000	3060000	3140000	3360000	3400000	3380000
16	3480000	3430000	3330000	3250000	3210000	3170000	3130000	3060000	3150000	3370000	3400000	3380000
17	3480000	3430000	3330000	3250000	3210000	3170000	3130000	3060000	3160000	3370000	3400000	3380000
18	3480000	3420000	3330000	3250000	3210000	3170000	3130000	3060000	3160000	3380000	3400000	3380000
19	3480000	3420000	3320000	3250000	3210000	3170000	3120000	3060000	3170000	3380000	3400000	3380000
20	3470000	3420000	3320000	3250000	3210000	3160000	3120000	3060000	3170000	3380000	3400000	3380000
21	3470000	3420000	3320000	3250000	3210000	3160000	3120000	3060000	3180000	3390000	3400000	3370000
22	3470000	3410000	3320000	3240000	3200000	3160000	3120000	3060000	3190000	3390000	3400000	3370000
23	3470000	3410000	3310000	3240000	3200000	3160000	3120000	3070000	3200000	3390000	3400000	3370000
24	3470000	3410000	3310000	3240000	3200000	3160000	3120000	3070000	3210000	3390000	3400000	3370000
25	3470000	3400000	3310000	3240000	3200000	3160000	3120000	3070000	3220000	3390000	3400000	3370000
26	3470000	3400000	3300000	3240000	3200000	3160000	3120000	3070000	3230000	3400000	3400000	3370000
27	3470000	3400000	3300000	3240000	3200000	3160000	3110000	3070000	3230000	3400000	3400000	3370000
28	3470000	3390000	3300000	3230000	3200000	3160000	3110000	3080000	3240000	3400000	3400000	3370000
29	3470000	3390000	3290000	3230000	3190000	3150000	3110000	3080000	3250000	3400000	3400000	3370000
30	3470000	3390000	3290000	3230000	---	3150000	3110000	3080000	3260000	3400000	3400000	3360000
31	3470000	---	3280000	3230000	---	3150000	---	3080000	---	3400000	3400000	---
MAX	3490000	3470000	3380000	3280000	3230000	3190000	3150000	3110000	3260000	3400000	3410000	3390000
MIN	3470000	3390000	3280000	3230000	3190000	3150000	3110000	3060000	3080000	3270000	3400000	3360000
(#)	6033.2	6031.1	6028.4	6027.0	6026.0	6024.9	6023.6	6023.0	6027.7	6031.5	6031.3	6030.5
(*)	-18,000	-80,000	-110,000	-50,000	-40,000	-40,000	-40,000	-30,000	+180,000	+140,000	0	-40,000

CAL YR 1995 (*) +445,000

CAL YR 1996 (*) -128,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

09234500 GREEN RIVER NEAR GREENDALE, UT

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

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

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

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

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

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962. Station operated and record provided by Utah District.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,800 ft³/s, May 21, gage height, 11.78 ft; minimum daily discharge, 1330 ft³/s, July 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	2260	3150	2340	2310	2570	2590	3580	4650	1830	1510	1790
2	1460	2740	3140	2340	2310	2570	2590	4050	4650	1560	1510	1780
3	1420	2740	3140	2360	2310	2570	2590	4660	4660	1340	1510	1780
4	1420	2740	3140	2340	2310	2580	2840	4650	4670	1460	1490	1790
5	1420	2740	3140	2350	2310	2590	3090	4660	4680	1350	1490	1790
6	1420	2750	3140	2310	2310	2590	3100	4660	4680	1440	1500	2200
7	1420	2750	3150	2340	2310	2600	3120	4660	4690	1340	1500	2120
8	1420	2330	3150	2330	2310	2620	3110	4660	4690	1340	1510	2110
9	1420	2750	3150	2330	2310	2580	3140	4710	4680	1370	1510	1840
10	1420	2750	3150	2300	2310	2580	3140	4720	4680	1380	1490	1840
11	1420	2740	3160	2300	2310	2590	3140	4760	4680	1370	1510	1850
12	1420	2750	3140	2300	2310	2590	3150	4760	4670	1360	1570	1850
13	1420	2750	3160	2300	2310	2590	3110	4730	4670	1360	1690	1860
14	1420	2750	3140	2300	2320	2590	3140	4690	4660	1360	1720	2050
15	1430	2760	3160	2300	2320	2590	3140	4700	4660	1360	1710	1900
16	1430	2760	3160	2310	2320	2580	3140	4720	4660	1360	1710	1810
17	1430	2760	3160	2300	2320	2580	3140	4720	4660	1360	1710	1840
18	1420	2760	3150	2310	2320	2590	3140	4730	4650	1360	1710	1860
19	1420	2760	3170	2310	2320	2590	3130	4730	4650	1350	1710	1860
20	1430	2730	3170	2310	2290	2590	3140	4730	4650	1350	1710	1760
21	1420	2750	3160	2310	2150	2590	3080	4750	4650	1350	1670	1830
22	1420	2750	3150	2310	2270	2580	2610	4770	4640	1350	1640	1830
23	1420	2930	3170	2310	2480	2590	2570	4770	4630	1350	1660	1800
24	1420	2940	3170	2310	2580	2590	3080	4770	4630	1350	1700	1780
25	1420	2940	3170	2320	2570	2590	3080	4770	4390	1350	1700	1770
26	1430	2930	3170	2320	2570	2590	3090	4770	3890	1350	1700	1760
27	1420	2940	3170	2320	2570	2590	3080	4770	3520	1330	1700	1770
28	1420	2940	3170	2320	2570	2600	3090	4710	3030	1340	1790	1720
29	1430	2930	3170	2320	2570	2590	3090	4650	2610	1350	1790	1780
30	1430	3130	3170	2310	---	2590	3080	4650	2320	1480	1780	1750
31	1900	---	3150	2310	---	2590	---	4650	---	1500	1770	---
TOTAL	44600	83250	97840	71840	68570	80220	90530	144310	131650	43100	50670	55470
MEAN	1439	2775	3156	2317	2364	2588	3018	4655	4388	1390	1635	1849
MAX	1900	3130	3170	2360	2580	2620	3150	4770	4690	1830	1790	2200
MIN	1410	2260	3140	2300	2150	2570	2570	3580	2320	1330	1490	1720
AC-FT	88460	165100	194100	142500	136000	159100	179600	286200	261100	85490	100500	110000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

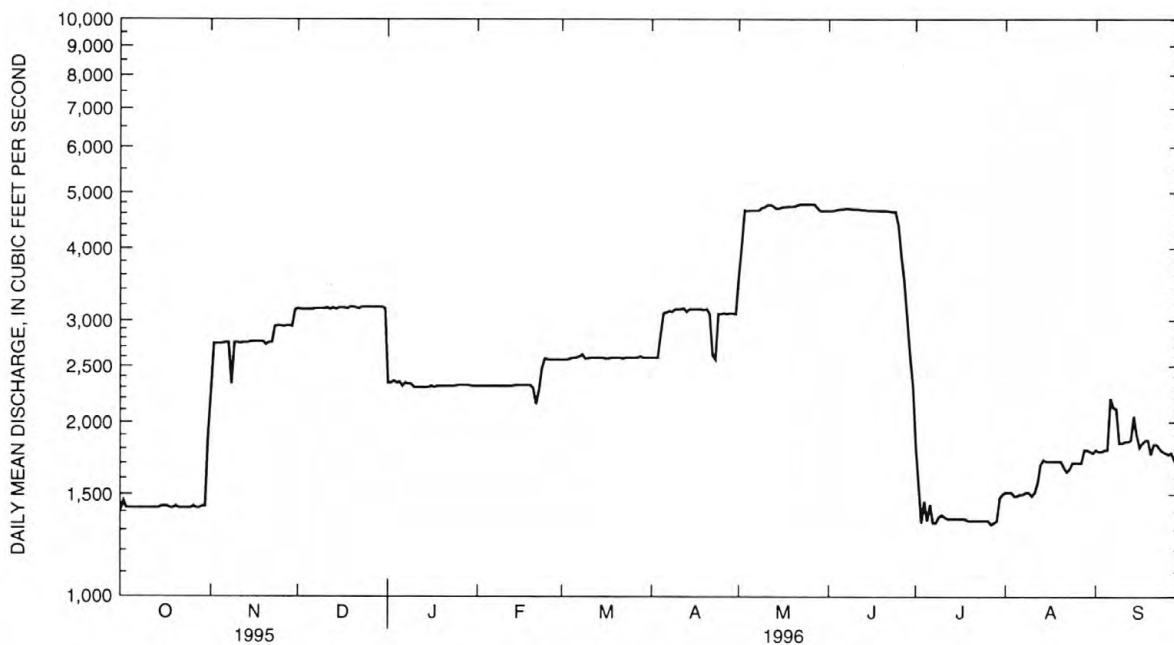
	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	1886	2041	2262	2198	2148	1741	1859	2353	2372	2370	2059	1901
MAX	3911	3655	3626	4145	4090	3818	4016	7146	7961	10130	5055	3729
(WY)	1983	1983	1973	1985	1984	1977	1986	1986	1983	1983	1983	1983
MIN	128	312	743	903	773	599	587	984	916	474	497	734
(WY)	1964	1964	1964	1971	1971	1964	1964	1990	1992	1965	1965	1965

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1964 - 1996
ANNUAL TOTAL	693443	962050	--
ANNUAL MEAN	1900	2629	2099
HIGHEST ANNUAL MEAN	--	--	4270
LOWEST ANNUAL MEAN	--	--	1044
HIGHEST DAILY MEAN	4650 Jun 27	4770 May 22	12300 Jul 16 1983
LOWEST DAILY MEAN	818 Feb 19	1330 Jul 27	90 Oct 8 1963
ANNUAL SEVEN-DAY MINIMUM	819 Mar 1	1350 Jul 22	112 Oct 2 1963
ANNUAL RUNOFF (AC-FT)	1375000	1908000	1521000
10 PERCENT EXCEEDS	3160	4660	3720
50 PERCENT EXCEEDS	1430	2570	1790
90 PERCENT EXCEEDS	835	1420	889



09234500 GREEN RIVER NEAR GREENDALE, UT

GREEN RIVER BASIN

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.--Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station. Data collection platform with satellite telemetry at station. Station operated and record provided by Colorado District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	e64	e30	e30	e31	e32	e65	e420	1380	248	54	25
2	61	e62	e30	e31	e31	e31	e90	430	1330	223	50	24
3	56	e60	e30	e32	e32	e30	e110	536	1380	190	59	23
4	68	e58	e30	e32	e32	e30	e150	702	1510	187	120	23
5	71	e56	e29	e33	e32	e30	174	946	1670	182	69	23
6	62	e54	e30	e33	e32	e30	196	1240	1700	184	53	31
7	68	e52	e30	e32	e31	e30	231	1300	1540	157	49	33
8	77	e50	e30	e30	e31	e29	300	1360	1470	136	46	29
9	73	e48	e30	e29	e30	e29	432	1650	1450	128	43	26
10	70	e48	e30	e28	e32	e29	515	1580	1420	127	41	25
11	70	e46	e29	e27	e31	e29	539	1610	1320	116	39	24
12	71	e44	e30	e28	e33	e29	452	1870	1180	116	37	29
13	70	e42	e30	e28	e33	e29	385	2030	1090	109	35	39
14	63	e40	e30	e28	e32	e29	330	2280	975	101	34	34
15	62	e40	e30	e28	e31	e29	307	2430	827	95	33	32
16	61	e39	e29	e28	e31	e29	334	2640	749	95	31	30
17	60	e39	e29	e28	e32	e29	362	3030	685	130	31	32
18	58	e39	e30	e27	e34	e29	325	2710	570	103	31	35
19	57	e38	e31	e29	e33	e29	289	2410	535	98	38	35
20	50	e38	e32	e27	e32	e30	268	1960	521	83	37	36
21	53	e36	e32	e27	e32	e30	255	1690	613	74	32	39
22	63	e38	e33	e27	e32	e30	240	1620	643	67	31	39
23	60	e37	e32	e27	e31	e30	268	1670	471	63	30	41
24	49	e36	e31	e26	e32	e32	487	1690	430	61	29	36
25	63	e36	e30	e25	e32	e34	684	1910	450	58	27	41
26	71	e37	e29	e30	e32	e45	605	2000	412	58	26	43
27	71	e36	e28	e30	e30	e43	565	1730	388	56	29	39
28	66	e34	e27	e30	e31	e43	458	1540	351	53	34	40
29	70	e32	e26	e30	e32	e50	e420	1470	309	71	30	38
30	e68	e32	e27	e31	---	e50	e410	1470	274	91	28	36
31	e66	---	e29	e31	---	e55	---	1420	---	64	27	---
TOTAL	2002	1311	923	902	920	1033	10246	51344	27643	3524	1253	980
MEAN	64.6	43.7	29.8	29.1	31.7	33.3	342	1656	921	114	40.4	32.7
MAX	77	64	33	33	34	55	684	3030	1700	248	120	43
MIN	49	32	26	25	30	29	65	420	274	53	26	23
AC-FT	3970	2600	1830	1790	1820	2050	20320	101800	54830	6990	2490	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	38.2	35.3	31.5	31.1	32.2	48.7	261	1081	945	161	38.6	28.4
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

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

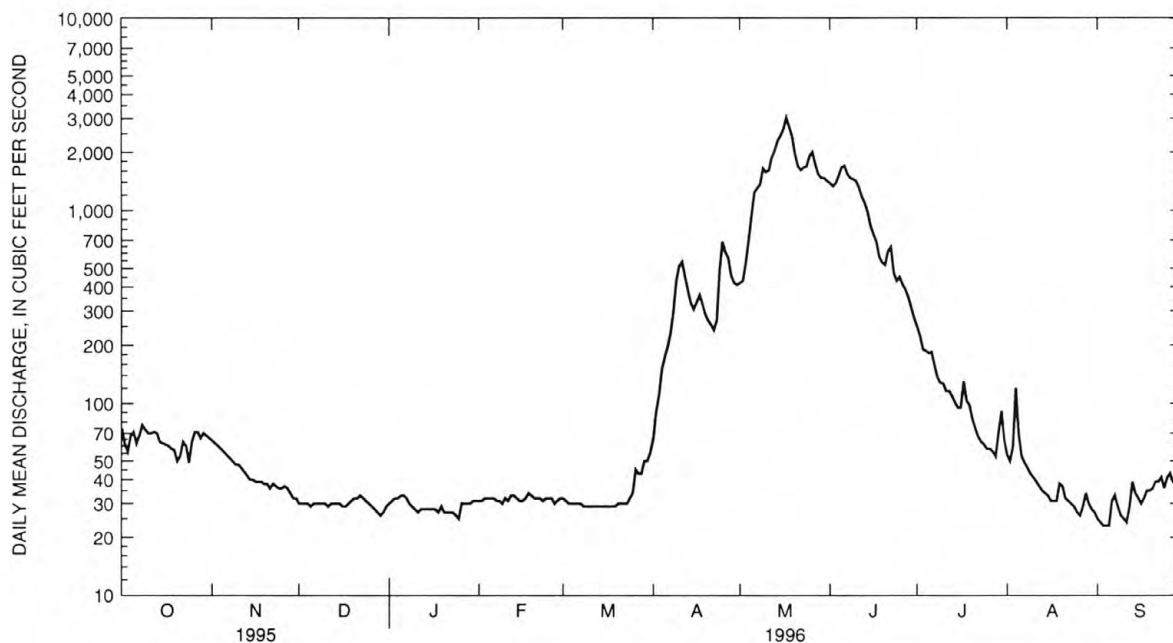
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1944 - 1996
ANNUAL TOTAL	96010	102081	--
ANNUAL MEAN	263	279	228
HIGHEST ANNUAL MEAN	--	--	423
LOWEST ANNUAL MEAN	--	--	86.6
HIGHEST DAILY MEAN	2800	3030	3960
LOWEST DAILY MEAN	25 ^{e, a}	23 ^b	4.2
ANNUAL SEVEN-DAY MINIMUM	26	25	6.2
INSTANTANEOUS PEAK FLOW	--	3620	4780
INSTANTANEOUS PEAK STAGE	--	8.08	8.78 ^c
ANNUAL RUNOFF (AC-FT)	190400	202500	165300
10 PERCENT EXCEEDS	778	1260	819
50 PERCENT EXCEEDS	50	41	40
90 PERCENT EXCEEDS	29	29	21

e Estimated.

a Also occurred Jan 2.

b Also occurred Sep 4-5.

c Maximum gage height, 8.95 ft, Apr 25, 1974.



09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

GREEN RIVER BASIN

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 1995 TO SEPTEMBER 1996

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)	
MAY 23...	1520	94	29	6.7	3.0	10.0	557	9.1	93	10	3.0	
JUL 25...	0945	6.4	35	7.5	9.0	18.0	565	8.4	98	14	4.2	
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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
MAY 23...	0.68	0.8	0.1	0.4	11	1.7	0.2	<0.1	7.7	26	0.03	
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)
MAY 23...	5.24	150	<1	10	<0.5	<10	<1.0	<1	<3	32	47	
JUL 25...	0.45	9	<1	13	1	7	<1.0	<1	<3	25	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)
MAY 23...	<1	<4	2	0.4	<10	<10	<1	<1.0	14	<6	<3	
JUL 25...	<1	<4	6	0.3	<10	<10	<1	1.0	19	<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 1995 TO SEPTEMBER 1996

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)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
MAY 23...	1735	188	24	7.0	4.5	7.0	582	9.6	97	18	5.4	
JUL 25...	1200	2.0	156	8.3	16.0	21.0	585	7.5	100	61	19	
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 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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AC-FT) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
MAY 23...	0.97	1.1	0.1	0.4	17	2.5	0.4	<0.1	8.0	29	0.04	
JUL 25...	3.2	4.9	0.3	0.7	51	20	2.3	0.3	9.7	91	0.12	
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)
MAY 23...	14.9	240	<1	14	<0.5	<10	<1.0	1	<3	15	63	
JUL 25...	0.49	7	<1	36	1	10	<1.0	<1	<3	8	6	
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)
MAY 23...	<1	<4	2	0.3	<10	<10	<1	<1.0	27	<6	8	
JUL 25...	<1	<4	<1	0.3	<10	<10	<1	<1.0	130	<6	<3	

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, CO

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.

DRAINAGE AREA.--161 mi².

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.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. 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.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres upstream from station. Station operated and record provided by Colorado District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	e24	e22	19	e16	26	58	164	360	43	14	3.9
2	30	25	e22	20	e16	25	86	183	320	38	11	3.8
3	25	19	25	e20	e18	22	88	237	329	34	12	3.5
4	30	e23	24	e20	e19	26	75	331	352	33	22	3.5
5	34	e24	23	e20	e18	24	68	448	367	32	18	4.0
6	27	26	e22	e20	e17	23	77	603	366	31	12	7.6
7	28	22	24	e20	e17	22	97	665	314	29	10	8.5
8	30	22	21	e20	e17	23	131	617	293	25	8.8	8.7
9	29	26	e23	e19	e17	25	183	796	291	22	8.2	7.0
10	26	24	26	e19	e17	29	229	724	288	22	7.9	6.2
11	25	e23	24	e19	e16	34	261	695	267	19	7.2	5.8
12	25	e24	24	e19	e16	38	191	823	247	16	6.9	6.6
13	25	e24	27	e19	e17	35	170	853	238	15	6.4	8.2
14	22	e24	21	e19	e17	33	130	898	219	14	6.3	8.8
15	22	e25	18	e19	e17	47	133	915	183	13	6.4	9.8
16	20	e24	e18	e19	e17	45	156	943	171	13	5.6	8.5
17	20	e24	e17	e19	e18	32	161	1320	172	31	5.6	8.5
18	19	e23	e15	e18	e18	31	134	959	151	25	6.3	9.4
19	19	e23	17	e19	e18	31	116	774	130	18	8.7	9.9
20	17	e23	17	e20	e20	28	101	577	119	15	9.2	10
21	19	25	18	e20	e20	33	100	471	162	12	7.8	9.4
22	22	27	19	e20	e18	46	92	464	197	11	7.0	7.7
23	21	25	16	e20	e17	57	99	497	125	11	6.5	3.3
24	18	24	16	e19	e17	47	207	481	99	11	5.6	6.0
25	23	24	16	e20	e17	37	348	606	83	11	4.5	10
26	26	24	16	e20	e17	36	275	584	68	13	4.6	19
27	24	22	16	e20	20	34	278	443	71	9.5	5.0	18
28	23	24	16	e20	19	33	224	408	69	9.3	5.8	17
29	24	e22	16	e18	21	37	173	407	59	13	6.0	16
30	27	e22	17	e18	---	35	162	414	51	21	5.7	15
31	e25	---	19	e17	---	39	---	384	---	19	4.8	---
TOTAL	764	711	615	599	512	1033	4603	18684	6161	628.8	255.8	263.6
MEAN	24.6	23.7	19.8	19.3	17.7	33.3	153	603	205	20.3	8.25	8.79
MAX	39	27	27	20	21	57	348	1320	367	43	22	19
MIN	17	19	15	17	16	22	58	164	51	9.3	4.5	3.3
AC-FT	1520	1410	1220	1190	1020	2050	9130	37060	12220	1250	507	523

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

MEAN	19.8	19.0	17.3	16.9	18.3	27.7	117	375	252	38.7	9.83	11.3
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

GREEN RIVER BASIN

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09255000 SLATER FORK NEAR SLATER, CO--Continued

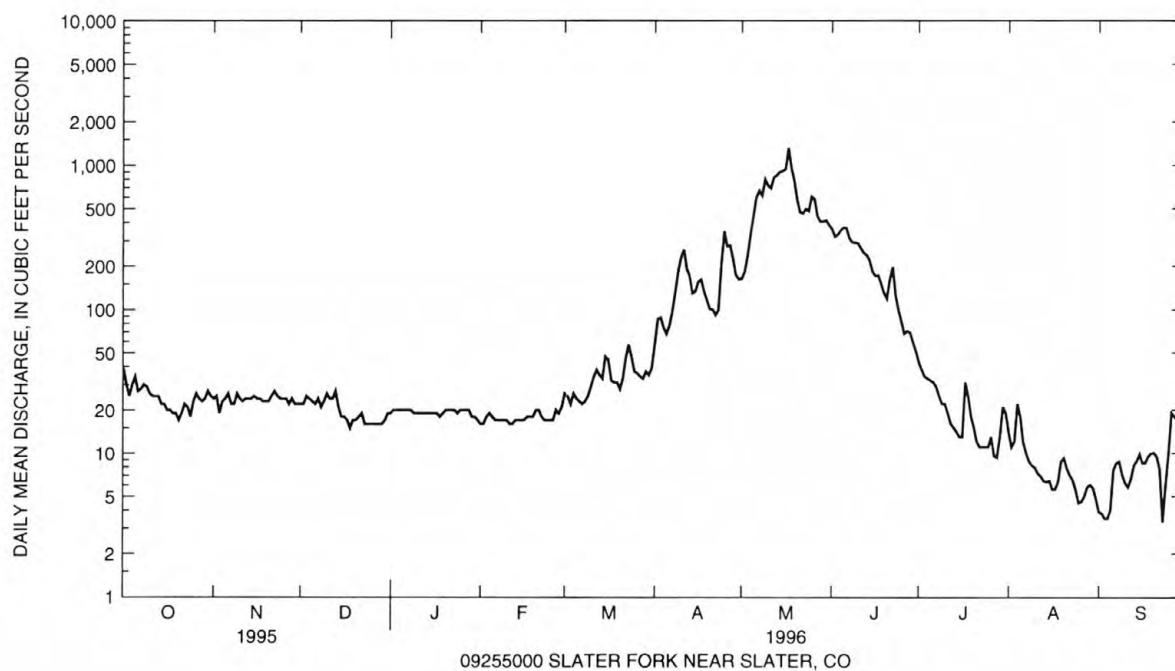
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996	
ANNUAL TOTAL	46161.4		34830.2		77.1	
ANNUAL MEAN	126		95.2		157	
HIGHEST ANNUAL MEAN					20.5	
LOWEST ANNUAL MEAN					1500	
HIGHEST DAILY MEAN	1090	Jun 6	1320	May 17	1500	May 16 1984
LOWEST DAILY MEAN	6.2	Sep 6	3.3	Sep 23	.00 ^a	Aug 2 1934
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 1	4.2	Aug 30	.00	Aug 2 1934
INSTANTANEOUS PEAK FLOW			1510	May 17	2250 ^b	May 16 1984
INSTANTANEOUS PEAK STAGE			9.61	May 17	11.78 ^c	May 16 1984
ANNUAL RUNOFF (AC-FT)	91560		69090		55860	
10 PERCENT EXCEEDS	524		299		250	
50 PERCENT EXCEEDS	24		22		19	
90 PERCENT EXCEEDS	13		8.5		7.0	

e Estimated.

a Also occurred several days during 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: Apr. 1-10 and Apr. 26 to May 23. Records fair except those for estimated daily discharges, which are 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 data collection platform with satellite telemetry at station.

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the U.S. 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)
May 18	Unknown	*4,300	9.62 ^a
May 26	0730	3,890	9.25

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	410	870	2310	357	.57	.18
2	---	---	---	---	---	---	480	830	2170	269	.27	.19
3	---	---	---	---	---	---	900	1050	2190	216	.26	.18
4	---	---	---	---	---	---	800	1250	2310	190	4.2	.18
5	---	---	---	---	---	---	550	1500	2510	171	21	.23
6	---	---	---	---	---	---	580	2000	2650	171	1.2	.35
7	---	---	---	---	---	---	600	2500	2450	130	.51	.32
8	---	---	---	---	---	---	830	2400	2310	103	.44	.32
9	---	---	---	---	---	---	1200	2600	2270	81	.38	.29
10	---	---	---	---	---	---	1300	2500	2260	75	.39	.24
11	---	---	---	---	---	---	1610	2400	2140	58	.40	.22
12	---	---	---	---	---	---	1310	2500	1980	28	.42	.26
13	---	---	---	---	---	---	1220	2600	1830	21	.33	.32
14	---	---	---	---	---	---	950	2800	1730	16	.26	.33
15	---	---	---	---	---	---	865	3000	1490	10	.36	.29
16	---	---	---	---	---	---	975	3300	1350	9.6	.48	.24
17	---	---	---	---	---	---	1110	3600	1270	20	.66	.27
18	---	---	---	---	---	---	922	3900	1100	31	.71	.26
19	---	---	---	---	---	---	892	3700	983	18	.68	.26
20	---	---	---	---	---	---	716	3200	918	7.6	.39	.24
21	---	---	---	---	---	---	739	2700	956	1.3	.21	.24
22	---	---	---	---	---	---	644	2500	1270	.51	.19	.23
23	---	---	---	---	---	---	675	2600	932	.29	.17	.22
24	---	---	---	---	---	---	896	2570	752	.24	.15	.22
25	---	---	---	---	---	---	1790	2880	698	.23	.15	.22
26	---	---	---	---	---	---	1500	3480	603	.21	.13	.22
27	---	---	---	---	---	---	1200	2880	575	.21	.14	.22
28	---	---	---	---	---	---	1050	2590	535	.20	.14	.23
29	---	---	---	---	---	---	880	2510	493	.25	.13	.24
30	---	---	---	---	---	---	870	2500	425	2.4	.11	.24
31	---	---	---	---	---	---	---	2370	---	9.0	.12	---
TOTAL	---	---	---	---	---	---	28464	78080	45460	1997.04	35.55	7.45
MEAN	---	---	---	---	---	---	949	2519	1515	64.4	1.15	.25
MAX	---	---	---	---	---	---	1790	3900	2650	357	.21	.35
MIN	---	---	---	---	---	---	410	830	425	.20	.11	.18
AC-FT	---	---	---	---	---	---	56460	154900	90170	3960	.71	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY)

	79.5	94.3	88.8	85.4	101	215	879	2559	1827	175	27.6	27.5
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

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

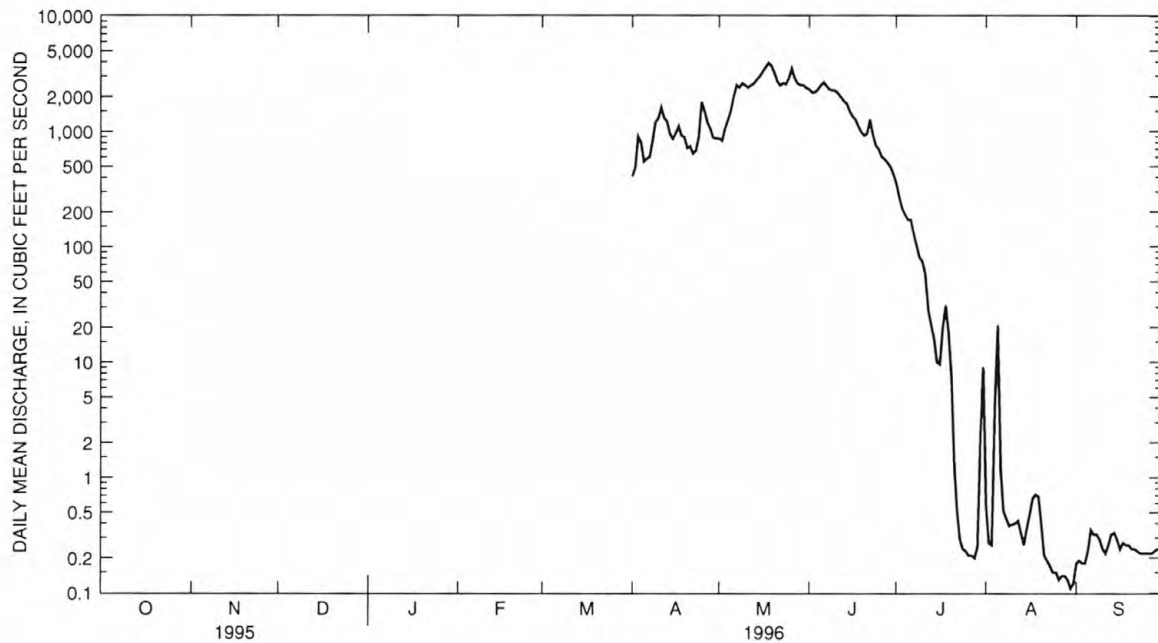
WATER YEARS 1911 - 1971

ANNUAL MEAN	--		514	
HIGHEST ANNUAL MEAN	--		930	1920
LOWEST ANNUAL MEAN	--		212	1961
HIGHEST DAILY MEAN	3900	May 18	8960	May 23 1920
LOWEST DAILY MEAN	.11	Aug 30	.00	Several days, 1977, 1981, 1992#
ANNUAL SEVEN-DAY MINIMUM	--		.35	Sep 3 1969
INSTANTANEOUS PEAK FLOW	4300	May 18	13000 ^b	May 16 1984#
INSTANTANEOUS PEAK STAGE	9.62 ^a	May 18	13.56 ^a	May 16 1984#
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 1996.

a From floodmarks.

b From rating curve extended above 10,000 ft³/s, some increase in peak caused by dam failure.

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

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 1995 TO SEPTEMBER 1996

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 OF SATUR- ATION) (00300) (00301)
DEC								
04...	1545	179	386	8.1	2.5	4.5	606	11.0 102
MAY								
14...	1300	4270	102	7.5	7.5	23.0	606	9.1 96
23...	1015	2550	116	7.3	9.5	14.0	604	8.2 91
JUL								
25...	1630	5.4	382	9.2	24.0	28.0	610	17.2 258

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)
DEC								
04...	160	44	11	18	0.6	2.0	144	48
MAY								
14...	41	12	2.6	3.3	0.2	1.1	45	6.2
23...	42	12	2.9	3.9	0.3	1.0	46	8.8
JUL								
25...	120	28	13	32	1	2.1	149	43

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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SEDI- MENT, DIS- SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- SUS- PENDED (T/DAY) (80155)
DEC								
04...	5.0	0.3	19	234	0.32	113	27	13
MAY								
14...	0.8	0.1	12	65	0.09	750	790	9110
23...	0.9	<0.1	13	70	0.09	483	282	1940
JUL								
25...	6.6	0.3	2.3	217	0.29	3.16	11	0.16

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 above station for irrigation of about 265 acres upstream and 2,600 acres downstream station. Station operated and record provided by Utah District.

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)
May 16	2300	*2,340	*6.92
June 9	0100	2,100	6.76

Minimum daily discharge, 29 ft³/s, Jan. 19, Feb. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	67	56	e48	e36	e35	e58	172	585	409	102	71
2	50	41	54	e45	e38	e41	56	193	721	398	112	107
3	49	52	47	e42	e41	e48	52	228	920	379	101	107
4	61	54	54	e60	e44	e54	52	251	1230	375	98	106
5	60	54	54	e50	e40	e61	50	301	1560	374	93	106
6	77	53	58	e38	e44	e58	54	382	1680	350	86	105
7	79	54	55	e37	e46	e55	65	413	1600	323	84	114
8	72	54	44	e47	e49	e54	85	443	1720	290	82	127
9	73	58	58	e45	e41	e60	105	448	1820	281	79	127
10	70	48	54	e40	e45	e63	126	454	1740	260	77	128
11	72	66	52	e42	e42	e84	131	567	1580	234	76	125
12	72	74	53	e40	e37	e76	121	833	1640	213	71	81
13	65	74	52	e36	e32	e78	105	1080	1520	199	69	92
14	64	73	44	e34	e29	e72	98	1300	1370	186	68	112
15	64	65	51	e39	e31	e64	95	1570	1300	177	67	96
16	63	63	53	e44	e34	e64	99	1970	1140	176	65	87
17	61	58	50	e49	e31	e64	103	1830	1150	223	64	93
18	60	58	e45	e35	e38	e62	90	1500	1070	178	72	84
19	58	57	e41	e29	e62	e54	91	1050	955	154	71	81
20	55	56	e45	e46	e64	e56	83	774	860	148	76	81
21	61	54	e42	e42	e62	e66	81	717	863	137	74	83
22	59	55	e39	e37	e60	e78	78	801	794	126	72	76
23	60	53	e37	e35	e46	e78	84	845	647	116	71	68
24	61	52	e35	e42	e38	e56	108	624	592	103	70	65
25	64	52	e45	e42	e50	e55	122	565	563	98	69	63
26	66	54	e43	e38	e44	e50	132	514	488	93	69	61
27	63	46	e40	e35	e37	e44	141	536	746	89	67	56
28	63	53	e40	e48	e33	e70	128	669	651	89	68	57
29	65	63	e45	e60	e32	e63	121	576	476	96	64	56
30	66	57	e50	e43	---	e59	140	599	432	99	63	55
31	68	---	e55	e33	---	e59	---	575	---	104	62	---
TOTAL	1976	1718	1491	1301	1226	1881	2854	22780	32413	6477	2362	2670
MEAN	63.7	57.3	48.1	42.0	42.3	60.7	95.1	735	1080	209	76.2	89.0
MAX	79	74	58	60	64	84	141	1970	1820	409	112	128
MIN	49	41	35	29	29	35	50	172	432	89	62	55
AC-FT	3920	3410	2960	2580	2430	3730	5660	45180	64290	12850	4690	5300

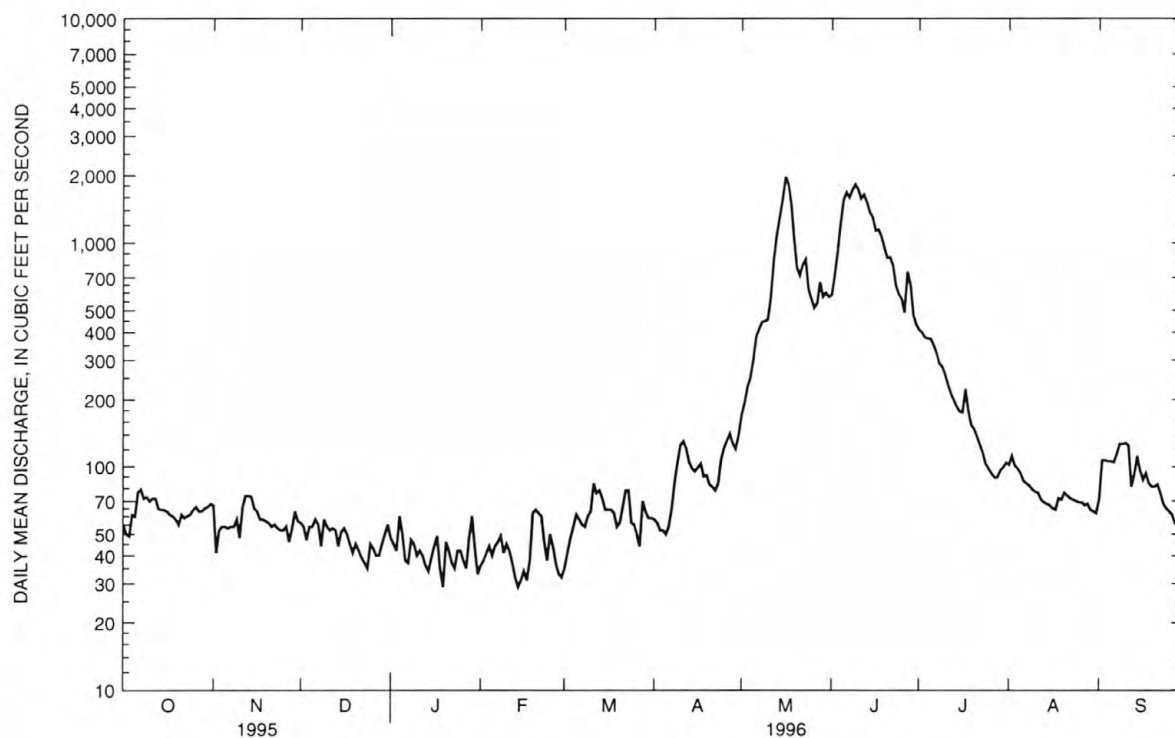
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1943	62.6	208	1983	30.8	1959
1944	54.1	106	1984	32.5	1955
1945	46.7	94.9	1984	27.7	1960
1946	41.9	72.4	1984	29.6	1991
1947	40.1	64.3	1986	25.3	1964
1948	43.4	69.0	1986	26.0	1964
1949	111	316	1946	37.2	1944
1950	595	1044	1984	162	1977
1951	868	1990	1986	204	1992
1952	304	1105	1995	67.4	1961
1953	94.7	244	1965	37.5	1954
1954	72.6	229	1983	23.9	1956

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996	
ANNUAL TOTAL	109051		79149		--	
ANNUAL MEAN	299		216		195	
HIGHEST ANNUAL MEAN	--		--		335	1986
LOWEST ANNUAL MEAN	--		--		81.5	1977
HIGHEST DAILY MEAN	2160	Jun 15	1970	May 16	2680	Jun 4 1986
LOWEST DAILY MEAN	33	Feb 16	29	Jan 19	18	Jan 3 1960
ANNUAL SEVEN-DAY MINIMUM	37	Feb 14	33	Feb 12	21	Dec 28 1959
ANNUAL RUNOFF (AC-FT)	216300		157000		141100	
10 PERCENT EXCEEDS	1140		648		610	
50 PERCENT EXCEEDS	68		66		58	
90 PERCENT EXCEEDS	44		41		33	

e Estimated.



10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

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 those estimated daily discharges, which are poor. Several diversions for irrigation upstream of station. Station operated and record provided by Utah District.

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, 500 ft³/s, Apr. 9, gage height, 7.90 ft; minimum daily discharge, 0.21 ft³/s, Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.8	e4.7	e6.2	5.3	5.8	7.8	34	39	19	13	.84	.36
2	e2.0	e3.0	e3.7	5.0	4.9	8.0	46	37	13	11	.98	.27
3	e1.6	e3.4	e5.2	4.7	4.6	7.8	63	39	11	9.2	.97	.26
4	e2.0	e3.8	e8.0	6.9	5.3	8.2	56	38	13	6.7	1.0	.23
5	e2.3	e4.3	e7.4	8.5	7.3	8.7	49	30	16	6.5	.86	.21
6	e2.8	e4.7	e8.0	7.5	7.0	8.6	57	42	16	5.8	.73	.26
7	e3.3	e5.2	e8.4	e5.0	6.0	8.5	80	46	13	4.7	.70	.34
8	e2.9	e4.5	e8.6	e6.0	5.8	8.9	139	48	11	4.8	.74	.31
9	e4.1	e4.5	e6.4	e5.8	5.7	10	234	62	9.8	4.6	.82	.26
10	e3.2	e3.5	e8.0	e7.8	6.2	14	250	57	8.0	5.4	.87	.35
11	e2.5	e4.0	e10	e7.5	6.9	22	142	58	9.5	4.2	1.0	.55
12	e4.0	e5.6	e10	e5.6	9.7	30	76	77	13	3.8	.73	1.4
13	e3.6	e6.6	e9.4	e5.6	16	38	60	87	9.2	4.2	.60	.83
14	e3.4	e5.2	8.9	e5.6	21	43	52	88	6.8	4.6	.49	.96
15	e4.1	e5.2	6.9	e6.2	32	25	54	88	7.5	7.2	1.0	.88
16	e3.8	e5.2	7.5	e7.0	37	27	55	93	7.5	13	1.4	1.5
17	e3.4	e4.9	6.9	e8.4	35	21	49	70	5.5	35	.99	2.8
18	e3.5	e4.5	4.1	e6.8	33	17	41	54	5.4	26	.90	2.6
19	e3.2	e5.0	3.9	e6.0	31	19	36	49	4.6	16	.80	2.1
20	e4.4	e4.8	3.6	e7.8	25	32	42	32	4.6	13	.66	1.7
21	e3.5	e4.5	3.5	e9.2	21	80	40	26	9.4	10	.50	1.3
22	e2.8	e6.0	3.8	e8.1	16	79	43	25	15	9.2	.47	1.0
23	e2.5	e5.4	3.8	e9.0	13	37	79	26	23	9.4	.43	1.0
24	e3.1	e6.4	3.9	e8.0	12	30	74	22	10	7.6	.43	1.0
25	e3.5	e8.0	3.9	e9.0	11	32	56	22	5.4	5.8	.46	.91
26	e3.1	e6.0	e3.8	e9.8	10	45	47	17	3.8	4.1	.57	.84
27	e3.3	e4.0	4.2	e9.2	9.4	26	43	17	11	2.4	.75	.88
28	e2.5	e4.2	5.7	e8.0	8.2	26	33	30	28	1.8	.68	.94
29	e3.0	e4.5	3.2	e7.0	8.0	26	27	29	21	1.7	.44	.93
30	e3.4	e8.6	4.3	4.5	---	28	29	30	17	1.6	.38	.90
31	e4.0	---	5.3	4.9	---	28	---	29	---	1.0	.37	---
TOTAL	96.6	150.2	186.5	215.7	413.8	801.5	2086	1407	347.0	253.3	22.56	27.87
MEAN	3.12	5.01	6.02	6.96	14.3	25.9	69.5	45.4	11.6	8.17	.73	.93
MAX	4.4	8.6	10	9.8	37	80	250	93	28	35	1.4	2.8
MIN	1.6	3.0	3.2	4.5	4.6	7.8	27	17	3.8	1.0	.37	.21
AC-FT	192	298	370	428	821	1590	4140	2790	688	502	45	55

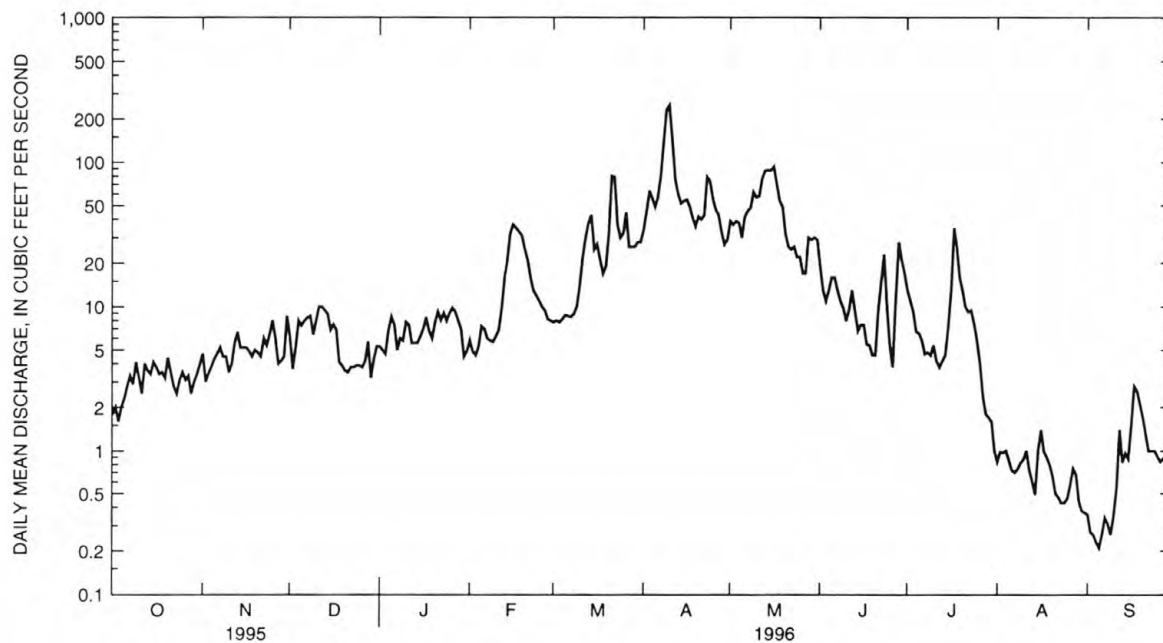
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	2.01	3.88	4.15	4.38	6.75	24.4	38.1	48.1	22.3
MAX	6.77	11.8	6.95	9.39	22.2	52.7	69.5	154	55.3
(WY)	1992	1992	1995	1995	1995	1989	1996	1993	1995
MIN	.18	.59	1.17	1.11	1.18	2.80	15.6	11.4	3.18
(WY)	1991	1991	1991	1991	1991	1991	1995	1992	1994

10015700 SULPHUR CREEK ABOVE RESERVOIR, BELOW LA CHAPELLE CREEK, NEAR EVANSTON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996	
ANNUAL TOTAL	6792.91		6008.03		--	
ANNUAL MEAN	18.6		16.4		13.6	
HIGHEST ANNUAL MEAN	--		--		25.1	
LOWEST ANNUAL MEAN	--		--		7.09	
HIGHEST DAILY MEAN	113	Jun 6	250	Apr 10	394	May 22 1993
LOWEST DAILY MEAN	.32	Sep 4	.21	Sep 5	.00	Jul 15 1988
ANNUAL SEVEN-DAY MINIMUM	.35	Sep 4	.27	Sep 3	.00	Jul 15 1988
ANNUAL RUNOFF (AC-FT)	13470		11920		9850	
10 PERCENT EXCEEDS	51		44		39	
50 PERCENT EXCEEDS	10		6.7		3.9	
90 PERCENT EXCEEDS	1.2		.88		.17	

e Estimated.



10015700 SULPHUR CREEK ABOVE RESERVOIR, BELOW LA CHAPELLE CREEK, NEAR EVANSTON, WY

BEAR RIVER BASIN

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10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'17", long 110°50'22", in NE¹/₄ NW¹/₄ NE¹/₄ sec.33, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1200 ft downstream from Sulphur Creek Dam, 6.2 mi upstream from mouth, and 10.5 mi southeast of Evanston.

DRAINAGE AREA.--69.2 mi².

PERIOD OF RECORD.--April 1958 to September 1992, May to September 1996.

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,120 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharge. Records good. No winter records since 1992. Flow regulated by Sulphur Creek Reservoir which was enlarged in 1988 from 7,100 acre-ft to a total capacity of 19,775 acre-ft. Records prior to 1965 do not include flow over spillway of the dam. Result of discharge measurement, in cubic feet per second, made during the period when the station was not in operation is given below:

Apr. 30 . . . 104

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	105	13	2.5	37	21
2	---	---	---	---	---	---	---	105	14	2.5	38	19
3	---	---	---	---	---	---	---	46	15	3.1	38	19
4	---	---	---	---	---	---	---	13	15	4.2	40	37
5	---	---	---	---	---	---	---	12	16	8.4	40	32
6	---	---	---	---	---	---	---	7.8	14	13	41	26
7	---	---	---	---	---	---	---	.38	13	14	40	24
8	---	---	---	---	---	---	---	.40	8.9	14	40	21
9	---	---	---	---	---	---	---	.38	14	12	40	21
10	---	---	---	---	---	---	---	.18	14	11	40	22
11	---	---	---	---	---	---	---	.07	16	9.2	38	22
12	---	---	---	---	---	---	---	.07	16	13	38	20
13	---	---	---	---	---	---	---	.51	18	41	37	15
14	---	---	---	---	---	---	---	.94	11	49	36	15
15	---	---	---	---	---	---	---	1.6	4.0	50	36	11
16	---	---	---	---	---	---	---	71	3.7	55	34	7.7
17	---	---	---	---	---	---	---	126	2.5	59	34	7.0
18	---	---	---	---	---	---	---	116	2.5	61	34	1.8
19	---	---	---	---	---	---	---	112	2.3	59	33	1.6
20	---	---	---	---	---	---	---	98	2.2	58	26	1.5
21	---	---	---	---	---	---	---	94	2.5	58	15	1.4
22	---	---	---	---	---	---	---	91	2.6	57	15	1.4
23	---	---	---	---	---	---	---	91	3.3	55	15	1.3
24	---	---	---	---	---	---	---	89	2.8	55	15	1.4
25	---	---	---	---	---	---	---	89	2.6	56	15	1.3
26	---	---	---	---	---	---	---	89	3.1	56	17	1.2
27	---	---	---	---	---	---	---	85	5.4	55	21	1.2
28	---	---	---	---	---	---	---	44	5.4	53	20	1.1
29	---	---	---	---	---	---	---	12	4.9	52	20	1.0
30	---	---	---	---	---	---	---	13	3.5	47	21	.94
31	---	---	---	---	---	---	---	13	---	37	21	---
TOTAL	---	---	---	---	---	---	---	1526.33	251.2	1119.9	935	356.84
MEAN	---	---	---	---	---	---	---	49.2	8.37	36.1	30.2	11.9
MAX	---	---	---	---	---	---	---	126	18	61	41	37
MIN	---	---	---	---	---	---	---	.07	2.2	2.5	15	.94
AC-FT	---	---	---	---	---	---	---	3030	498	2220	1850	708

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

	9.72	5.04	4.88	4.44	6.07	17.1	38.2	67.2	42.0	30.4	28.0	19.3
MAX	65.8	47.5	40.6	37.3	43.4	105	109	311	217	88.2	58.0	54.7
(WY)	1983	1974	1985	1985	1984	1986	1985	1984	1983	1989	1987	1984
MIN	.000	.000	.000	.000	.000	.000	.000	.000	6.12	2.14	3.92	.000
(WY)	1962	1961	1961	1961	1961	1962	1961	1977	1958	1983	1967	1961

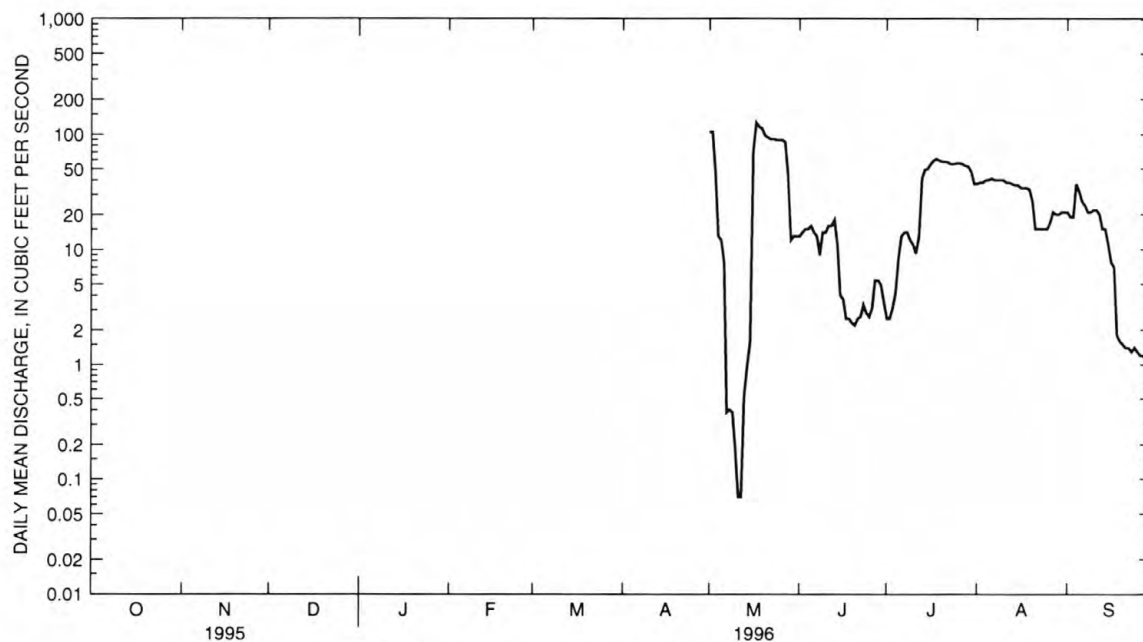
BEAR RIVER BASIN

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY--Continued

SUMMARY STATISTICS	FOR 1996 WATER YEAR*		WATER YEARS 1958 - 1996*#	
ANNUAL MEAN	--		23.2	
HIGHEST ANNUAL MEAN	--		58.3	1984
LOWEST ANNUAL MEAN	--		3.89	1977
HIGHEST DAILY MEAN	126	May 17	740	May 15 1984
LOWEST DAILY MEAN	.07	May 11, 12	.00	Several days, many years
ANNUAL SEVEN-DAY MINIMUM	--		.00	Several days, many years
INSTANTANEOUS PEAK FLOW	154	May 16	154	May 16 1996#
INSTANTANEOUS PEAK STAGE	4.85	May 16	4.85	May 16 1996#
ANNUAL RUNOFF (AC-FT)	--		16790	
10 PERCENT EXCEEDS	--		62	
50 PERCENT EXCEEDS	--		7.0	
90 PERCENT EXCEEDS	--		.00	

* During period of operation.

Statistics 1958-92, annual instantaneous peaks not available until 1996.



10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

BEAR RIVER BASIN

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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.--Estimated daily discharges: June 10-13, 24-27 and July 16, 17. Records fair except those for estimated daily discharges, which are 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. 5 . . . 75.7
Mar. 27 . . . 184

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	280	396	773	307	33	22
2	---	---	---	---	---	---	384	422	827	250	40	20
3	---	---	---	---	---	---	355	440	962	218	45	10
4	---	---	---	---	---	---	326	423	1170	199	46	24
5	---	---	---	---	---	---	301	430	1430	201	46	33
6	---	---	---	---	---	---	379	546	1600	193	43	29
7	---	---	---	---	---	---	463	600	1540	181	45	27
8	---	---	---	---	---	---	623	636	1550	168	45	21
9	---	---	---	---	---	---	738	671	1640	156	45	21
10	---	---	---	---	---	---	797	633	1600	152	43	21
11	---	---	---	---	---	---	765	689	1600	132	43	23
12	---	---	---	---	---	---	528	906	1500	91	41	30
13	---	---	---	---	---	---	439	1220	1400	72	33	37
14	---	---	---	---	---	---	331	1450	1310	67	33	45
15	---	---	---	---	---	---	337	1580	1280	63	37	60
16	---	---	---	---	---	---	363	1920	1110	66	37	57
17	---	---	---	---	---	---	394	2250	1070	76	40	64
18	---	---	---	---	---	---	335	1990	1040	110	44	69
19	---	---	---	---	---	---	305	1590	940	82	46	60
20	---	---	---	---	---	---	302	1200	841	64	42	60
21	---	---	---	---	---	---	282	1030	802	54	31	60
22	---	---	---	---	---	---	314	1060	825	49	24	60
23	---	---	---	---	---	---	399	1170	715	44	23	58
24	---	---	---	---	---	---	526	956	700	37	19	48
25	---	---	---	---	---	---	449	882	680	34	19	41
26	---	---	---	---	---	---	404	819	660	33	21	39
27	---	---	---	---	---	---	404	803	640	31	27	36
28	---	---	---	---	---	---	354	958	625	36	29	33
29	---	---	---	---	---	---	300	836	463	44	27	32
30	---	---	---	---	---	---	335	835	375	42	25	33
31	---	---	---	---	---	---	---	821	---	31	24	---
TOTAL	---	---	---	---	---	---	12512	30162	31668	3283	1096	1173
MEAN	---	---	---	---	---	---	417	973	1056	106	35.4	39.1
MAX	---	---	---	---	---	---	797	2250	1640	307	46	69
MIN	---	---	---	---	---	---	280	396	375	31	19	10
AC-FT	---	---	---	---	---	---	24820	59830	62810	6510	2170	2330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	---	---	---	---	---	---	322	742	803	213	67.6	58.0	---
MAX	---	---	---	---	---	---	602	1291	1890	980	181	225	---
(WY)	---	---	---	---	---	---	1985	1986	1986	1995	1984	1984	---
MIN	---	---	---	---	---	---	133	330	121	40.0	16.4	11.8	---
(WY)	---	---	---	---	---	---	1995	1990	1992	1994	1988	1988	---

BEAR RIVER BASIN

10016900 BEAR RIVER AT EVANSTON, WY--Continued

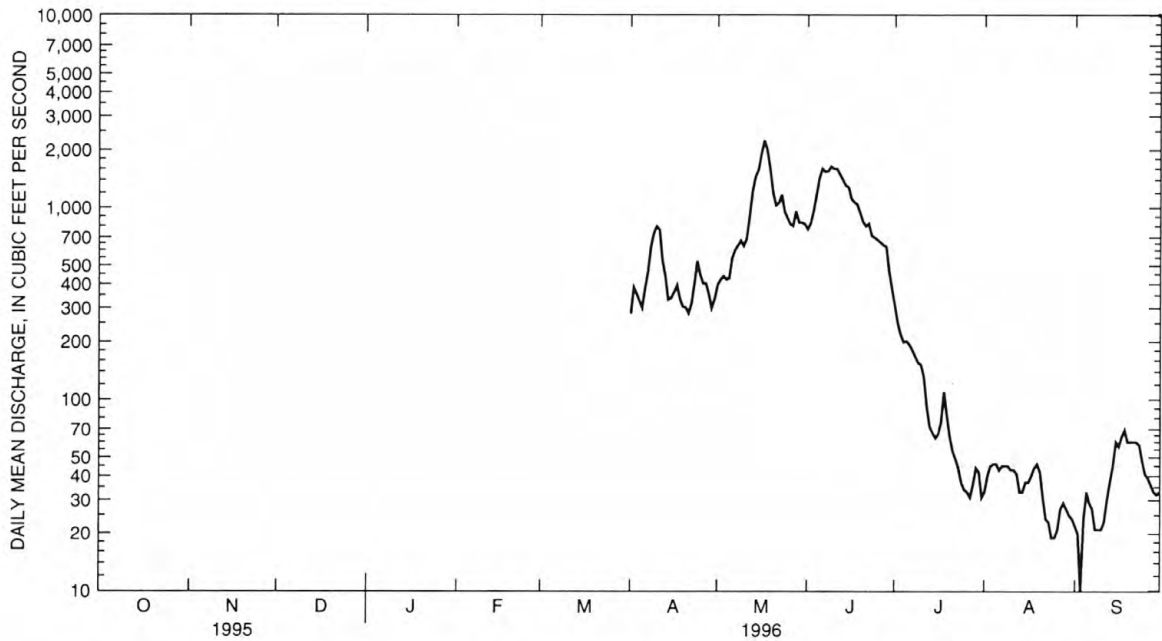
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1984 - 1996*

HIGHEST DAILY MEAN	2250	May 17	3160	May 16 1984
LOWEST DAILY MEAN	10	Sep 3	3.8	Sep 30 1992
INSTANTANEOUS PEAK FLOW	2510	May 17	3680	May 16 1984
INSTANTANEOUS PEAK STAGE	6.10	May 17	7.35	May 16 1984
10 PERCENT EXCEEDS	--		1010	
50 PERCENT EXCEEDS	--		157	
90 PERCENT EXCEEDS	--		24	

* During period of operation.



10016900 BEAR RIVER AT EVANSTON, WY

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LOCATION.--Lat 41°26'04", long 111°01'01", in NE¹/₄ NW¹/₄ 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.

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 those for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres upstream from station. Station operated and surface water record provided by Utah District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, June 2, 1983, gage height, 6.17 ft; no flow several days during August and September 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s, May 18, gage height, 5.28 ft; minimum daily discharge, 0.64 ft³/s, Sept. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	99	81	e80	e84	e54	344	325	656	242	14	1.1
2	38	103	66	e114	e64	e40	499	381	625	196	14	.99
3	29	67	58	e70	e47	e27	592	405	690	163	12	.93
4	33	45	47	e50	e33	e19	540	387	800	146	11	.82
5	54	51	72	e35	e23	e118	468	399	955	138	9.9	.70
6	64	47	99	e64	e17	e115	442	445	1190	134	8.7	.64
7	71	60	129	e50	e14	e125	484	539	1380	127	7.4	.68
8	74	61	102	e40	e30	e94	522	580	1340	122	7.3	.82
9	66	71	67	e35	e60	e86	731	631	1360	117	7.2	.86
10	72	129	97	e58	e140	e88	893	645	1440	86	7.2	.86
11	76	95	101	e54	e123	e92	904	618	1450	84	7.2	.87
12	73	114	96	e60	e104	e105	608	617	1370	72	7.2	2.2
13	84	222	111	e84	e88	207	448	952	1370	55	7.4	6.8
14	84	193	97	e60	e70	239	327	1260	1200	41	7.5	15
15	78	148	74	e45	e56	247	270	1370	1080	35	7.7	17
16	82	103	53	e45	e58	221	266	1550	963	37	9.1	22
17	82	95	e67	e46	e73	213	287	1860	835	42	12	29
18	86	81	e84	e50	e70	195	302	2130	768	60	11	35
19	85	76	e90	e103	e66	184	271	2030	689	69	11	39
20	83	73	e72	e64	e125	229	254	1380	618	58	12	38
21	80	69	e62	e40	e110	e185	240	1030	567	46	13	36
22	86	65	e58	e32	e110	e160	236	947	586	40	11	36
23	101	62	e58	e70	e96	e140	248	1010	533	31	9.9	36
24	88	59	e63	e80	e80	e180	399	980	451	26	6.7	36
25	97	56	e52	e50	e68	e240	446	804	372	23	4.2	33
26	109	57	e51	e31	e88	e260	419	761	313	20	2.9	27
27	133	69	e51	e58	e83	262	386	711	296	17	2.2	24
28	124	52	e52	e42	e80	256	367	759	474	16	2.0	22
29	110	58	e52	e46	e80	309	328	841	415	14	1.9	19
30	98	80	e53	e56	---	321	304	724	298	15	2.0	17
31	100	---	e60	e66	---	311	---	690	---	15	1.6	---
TOTAL	2484	2560	2275	1778	2140	5322	12825	27761	25084	2287	248.2	499.27
MEAN	80.1	85.3	73.4	57.4	73.8	172	427	896	836	73.8	8.01	16.6
MAX	133	222	129	114	140	321	904	2130	1450	242	14	39
MIN	29	45	47	31	14	19	236	325	296	14	1.6	.64
AC-FT	4930	5080	4510	3530	4240	10560	25440	55060	49750	4540	492	.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

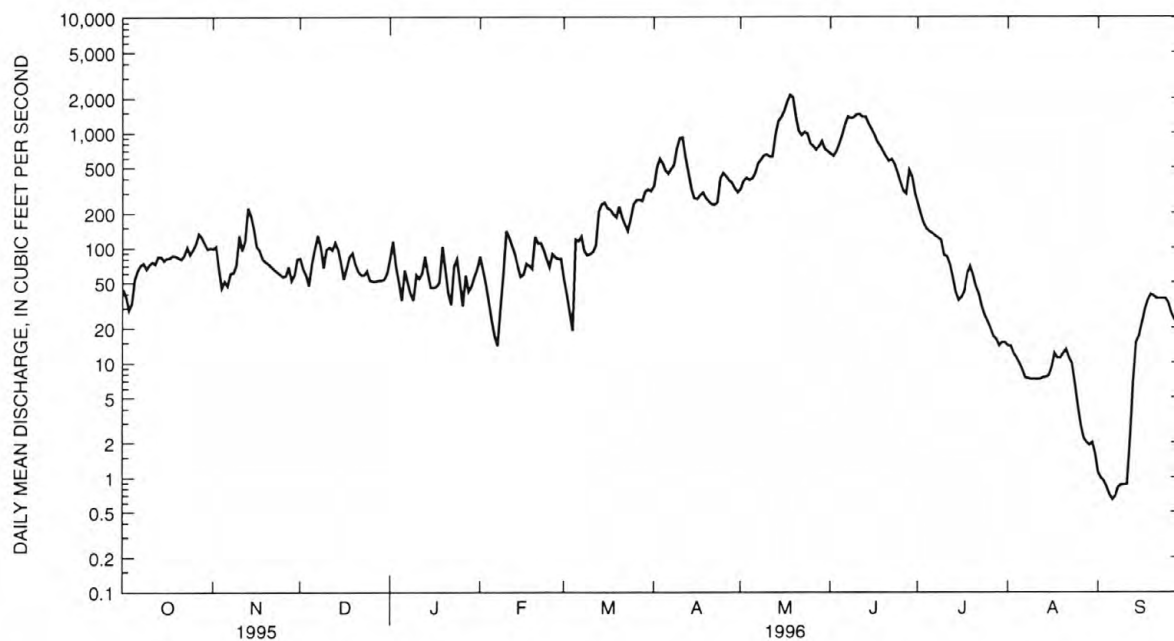
MEAN	75.8	71.0	70.5	66.9	83.8	162	343	815	875	205	50.7	50.5
MAX	437	198	181	147	312	627	671	1957	2564	1191	340	288
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1995	1983	1983
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.84	2.26	.49
(WY)	1965	1989	1989	1989	1993	1977	1977	1977	1992	1988	1988	1988

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	129058		85263.47		--	
ANNUAL MEAN	354		233		239	
HIGHEST ANNUAL MEAN	--		--		583	1986
LOWEST ANNUAL MEAN	--		--		45.1	1977
HIGHEST DAILY MEAN	3060	Jun 16	2130	May 18	3900	Jun 2 1983
LOWEST DAILY MEAN	11	Sep 1	.64	Sep 6	.00	Aug 23 1988
ANNUAL SEVEN-DAY MINIMUM	17	Aug 31	.77	Sep 4	.00	Aug 30 1988
ANNUAL RUNOFF (AC-FT)	256000		169100		173400	
10 PERCENT EXCEEDS	1490		696		702	
50 PERCENT EXCEEDS	90		80		82	
90 PERCENT EXCEEDS	44		11		9.3	

e Estimated.



10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

BEAR RIVER BASIN

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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 1995 TO SEPTEMBER 1996

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 (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 05...	1420	75	460	8.5	3.0	2.0	603	11.2	105	200
APR 10...	1705	1200	411	8.3	9.0	15.0	598	9.2	102	190
MAY 01...	1005	402	462	8.6	9.0	10.0	603	8.8	97	220
JUN 18...	1520	712	171	8.6	16.0	18.0	605	8.0	103	80

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) (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
DEC 05...	49	20	14	0.4	1.8	211	17	19	0.1	7.2
APR 10...	45	18	11	0.4	2.7	182	18	16	0.2	9.5
MAY 01...	54	21	14	0.4	2.0	202	24	21	0.2	6.2
JUN 18...	22	6.2	2.8	0.1	0.60	85	2.7	2.8	<0.1	5.3

DATE	SOLIDS, SUM OF CONSTITUENTS, 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)	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)
DEC 05...	255	0.35	51.6	<0.01	<0.05	<0.02	0.03	71	14
APR 10...	230	0.31	745	<0.01	0.06	0.03	0.02	581	1880
MAY 01...	264	0.36	286	<0.01	<0.05	0.02	0.02	56	61
JUN 18...	93	0.13	180	<0.01	<0.05	0.03	<0.01	100	192

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 September 1996 (discontinued).

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 poor. 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. Station record provided by Utah District.

EXTREMES FOR PERIOD OF RECORD.--Maximum content, 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 daily content, 61,600 acre-ft, June 11, minimum daily content, 28,700 acre-ft, Sept. 25, 26.

Capacity table (elevation, 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	53.0	63,180

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e42830	42870	43650	e43100	e44100	e47000	e55200	e59900	e61000	e50400	37360	34900
2	e42530	42890	43640	e43100	e44200	e47100	e55700	e59900	e61000	e49200	37230	34700
3	e42480	42890	43650	e43200	e44300	e47300	56160	e59900	e61100	e48300	37110	34600
4	42170	42910	43640	e43200	e44400	e47500	57040	e60000	e61200	e47500	37010	34400
5	42180	42890	43740	e43200	e44500	e47600	58370	e60000	e61300	e46500	36460	34100
6	42180	42940	43600	e43200	e44500	e47800	58700	e60000	e61300	e45700	36760	33800
7	42300	43080	43590	e43300	e44500	e48000	58990	e60000	e61300	e44800	34990	33600
8	42360	43070	43590	e43300	e44600	e48200	59260	e60000	e61400	e43700	36570	33700
9	42350	43080	43590	e43300	e44600	e48400	59500	e60000	e61500	e42800	36390	33500
10	42360	43080	43580	e43400	e44700	e48500	e59500	e60000	e61500	42210	36360	33300
11	42350	43090	43590	e43400	e44800	e48700	e59500	e60100	61600	41800	36270	33100
12	42330	43070	43590	e43400	e44900	e49000	e59500	e60100	e61500	41370	36170	33000
13	42340	43080	43560	e43400	e45000	e49200	e59500	e60100	e61500	40900	36080	33000
14	42370	43220	43380	e43400	e45000	e49400	e59500	e60200	61500	40420	35990	32600
15	42540	43280	43370	e43500	e45200	e49600	e59500	e60200	61150	39910	35900	32100
16	42520	43270	43360	e43500	e45300	e49800	e59600	e60200	60940	39510	35820	32000
17	42520	43270	43350	e43500	e45400	e50200	e59600	e60200	60870	39430	35730	31800
18	42510	43270	43350	e43500	e45500	e50400	e59600	e60300	60670	39350	35730	31300
19	42510	43270	43360	e43500	e45500	e50600	e59600	e60300	60570	39260	35700	31300
20	42520	43270	43350	e43500	e45700	e50900	e59600	e60400	60470	39140	35700	29500
21	42510	43300	43350	e43600	e45900	e51500	e59700	e60400	e59500	39000	35600	29400
22	42610	43460	43360	e43600	e46000	e51100	e59700	60500	e58500	38860	35500	29200
23	42690	43460	43360	e43700	e46000	e51700	e59700	e60500	e57500	38700	35400	28900
24	42700	43460	43240	e43700	e46200	e52000	e59800	e60500	e56700	38540	35300	28800
25	42700	43460	43150	e43800	e46400	e52400	e59800	e60500	e55700	38380	35200	28700
26	42690	43450	43160	e43800	e46500	e52600	e59800	e60600	e55000	38220	35300	28700
27	42680	43460	43160	e43900	e46600	e53000	e59800	e60600	e54000	38060	35200	28800
28	42700	43470	43160	e43900	e46700	e53400	e59800	e60700	e53000	37900	35100	28800
29	42690	43570	42910	e44000	e46800	e53800	e59900	e60700	e52000	37770	35100	28800
30	42870	43650	e43000	e44000	---	e54200	e59900	e60800	e51200	37660	35000	28800
31	42880	---	e43000	e44000	---	e54600	---	e60800	---	37510	34800	---
MAX	42880	43650	43740	44000	46800	54600	59900	60800	61600	50400	37360	34900
MIN	42170	42870	42910	43100	44100	47000	55200	59900	51200	37510	34800	28700
(#)	43.6	44.0	--	--	--	--	--	--	--	40.8	39.2	35.7
(*)	-230	+770	-650	+1000	+2800	+7800	+5300	+900	-9600	+13690	-2710	-6000

CAL YR 1995 (*) +31600

WTR YR 1996 (*) -14310

(#) 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 NE¹/₄ NE¹/₄ 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. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres upstream from station. Station operated and record provided by Utah District.

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, 2,160 ft³/s, May 19, gage height, 6.88 ft; minimum daily discharge, 28 ft³/s, several days in January and February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	42	94	72	28	30	55	333	696	943	74	41
2	40	42	94	71	28	30	55	359	661	936	54	53
3	40	42	94	71	28	30	55	376	685	928	40	124
4	40	42	94	71	28	30	83	381	777	920	40	126
5	39	42	94	70	28	29	184	395	949	910	40	126
6	40	66	94	70	28	29	278	411	1170	903	40	128
7	40	90	96	69	28	29	361	477	1370	894	40	128
8	39	90	96	70	28	29	474	530	1430	885	40	129
9	39	90	95	71	28	30	649	576	1460	540	40	128
10	40	90	94	70	28	30	845	615	1530	270	40	130
11	40	90	94	69	28	30	951	616	1570	270	40	130
12	40	91	94	70	28	30	853	627	1490	267	40	131
13	40	92	94	70	29	30	666	773	1490	267	40	130
14	40	92	94	69	29	32	531	1020	1430	267	40	130
15	40	93	94	69	29	33	427	1260	1290	266	40	129
16	41	93	93	70	29	35	383	1510	1190	153	41	130
17	41	93	93	68	29	36	352	1770	1040	78	41	129
18	41	93	93	69	30	38	360	2040	918	78	41	128
19	41	93	93	69	30	39	339	2120	848	78	41	126
20	41	93	93	69	29	40	308	1750	778	78	41	126
21	41	93	85	68	29	42	288	1320	675	78	40	125
22	41	93	76	68	29	43	276	1100	651	77	40	124
23	41	93	76	68	29	45	269	1060	625	77	41	123
24	41	93	75	45	30	48	315	1050	564	77	40	106
25	41	93	74	28	30	49	376	917	804	77	41	33
26	41	94	74	28	30	50	402	837	808	76	40	33
27	41	94	74	28	30	51	391	775	758	75	41	33
28	41	94	73	28	30	53	381	782	951	75	41	33
29	41	94	73	28	30	54	362	845	949	75	41	33
30	41	94	73	28	---	56	335	783	943	75	41	33
31	42	---	72	28	---	57	---	734	---	74	41	---
TOTAL	1254	2494	2705	1842	837	1187	11604	28142	30500	10767	1300	3078
MEAN	40.5	83.1	87.3	59.4	28.9	38.3	387	908	1017	347	41.9	103
MAX	42	94	96	72	30	57	951	2120	1570	943	74	131
MIN	39	42	72	28	28	29	55	333	564	74	40	33
AC-FT	2490	4950	5370	3650	1660	2350	23020	55820	60500	21360	2580	6110

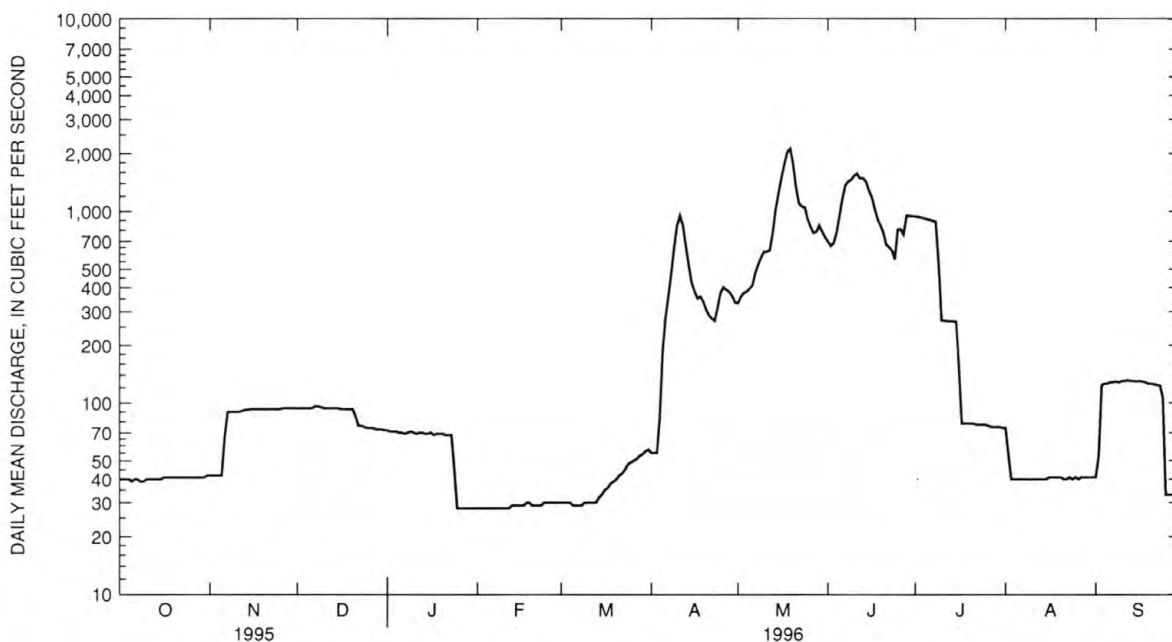
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

	MEAN	55.8	55.9	47.4	45.1	48.2	99.9	286	783	990	292	79.3	58.5
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	

BEAR RIVER BASIN

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1962 - 1996	
ANNUAL TOTAL	91727		95710		--	
ANNUAL MEAN	251		262		237	
HIGHEST ANNUAL MEAN	--		--		509	
LOWEST ANNUAL MEAN	--		--		44.3	
HIGHEST DAILY MEAN	1440	Jun 6	2120	May 19	3630	Jun 3 1983
LOWEST DAILY MEAN	21	Jan 5	28	Jan 25	.00	Jul 4 1962
ANNUAL SEVEN-DAY MINIMUM	22	Jan 1	28	Jan 25	.07	Nov 26 1980
ANNUAL RUNOFF (AC-FT)	181900		189800		171600	
10 PERCENT EXCEEDS	877		897		800	
50 PERCENT EXCEEDS	93		75		41	
90 PERCENT EXCEEDS	22		30		8.9	



10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

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 1995 TO SEPTEMBER 1996

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 05...	1215	10	857	8.4	2.0	2.5	608	11.2	102	400
MAR 20...	0850	34	675	8.3	0.0	2.0	610	11.8	101	240
APR 10...	1310	75	692	8.4	10.0	20.0	602	9.1	103	280
MAY 01...	1735	23	967	8.7	9.0	9.0	606	9.9	108	410
JUN 17...	1735	14	813	8.4	21.0	27.0	608	8.8	125	340

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)
DEC 05...	87	44	48	1	3.0	229	240	33	0.3	11
MAR 20...	55	26	40	1	5.7	171	150	22	0.3	9.1
APR 10...	62	30	37	1	4.2	198	150	19	0.3	10
MAY 01...	89	46	54	1	3.5	248	240	29	0.4	10
JUN 17...	66	42	41	1	2.7	201	190	25	0.4	9.1

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, 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-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC 05...	604	0.82	16.3	<0.01	0.06	<0.02	<0.01	215	5.8
MAR 20...	411	0.56	37.7	<0.01	<0.05	0.11	0.09	389	36
APR 10...	432	0.59	87.4	<0.01	0.07	0.02	0.06	577	117
MAY 01...	621	0.84	38.5	<0.01	<0.05	0.02	0.01	137	8.5
JUN 17...	497	0.68	18.8	<0.01	<0.05	0.03	<0.01	65	2.5

BEAR RIVER BASIN

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.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs. Station operated and record provided by Utah District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s, Mar. 25, 1956; minimum recorded, 0.24 ft³/s, Apr. 26, 1981.

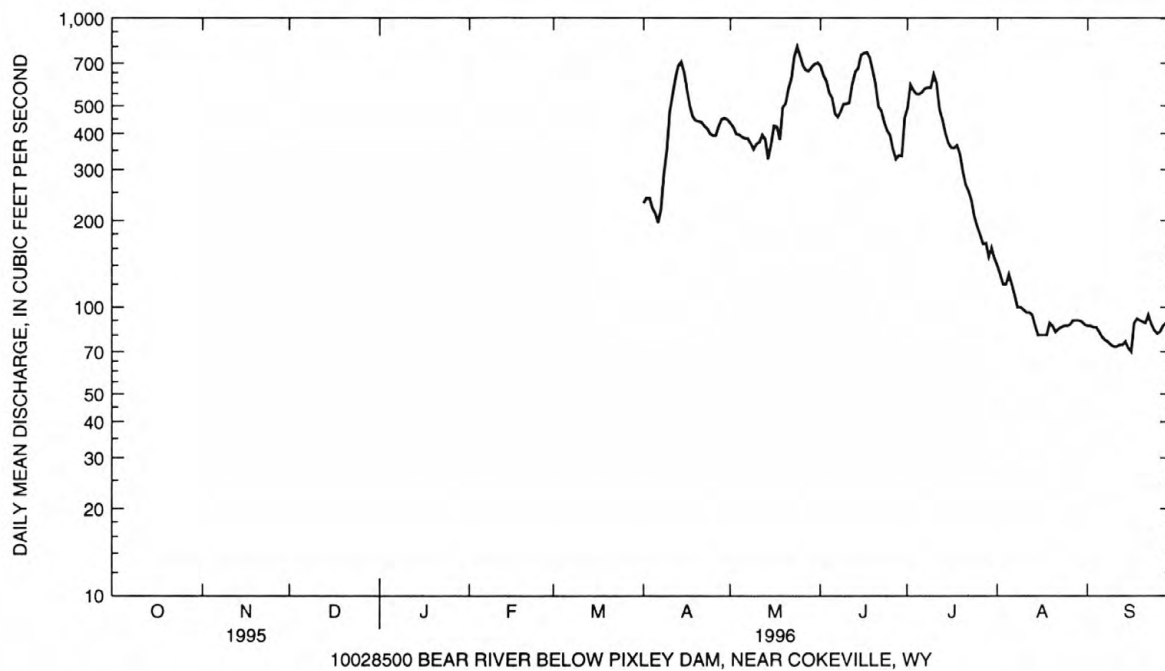
EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 798 ft³/s, May 24, minimum daily discharge, 70 ft³/s, Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e230	434	686	490	e140	e86
2	---	---	---	---	---	---	e240	421	637	590	e130	e86
3	---	---	---	---	---	---	e240	399	609	566	e120	e85
4	---	---	---	---	---	---	221	396	553	549	e120	e85
5	---	---	---	---	---	---	212	389	531	547	e130	e82
6	---	---	---	---	---	---	197	385	468	556	e120	e79
7	---	---	---	---	---	---	219	384	456	573	e110	e77
8	---	---	---	---	---	---	291	369	476	577	e100	e76
9	---	---	---	---	---	---	349	353	506	576	e100	e74
10	---	---	---	---	---	---	474	368	507	e640	e98	e73
11	---	---	---	---	---	---	544	373	511	e600	e96	e73
12	---	---	---	---	---	---	622	395	590	e483	e96	e74
13	---	---	---	---	---	---	687	383	655	e447	e94	e74
14	---	---	---	---	---	---	707	326	672	e401	e86	e76
15	---	---	---	---	---	---	652	369	746	e371	e80	e72
16	---	---	---	---	---	---	564	425	759	e358	e80	e70
17	---	---	---	---	---	---	498	422	764	e357	e80	e88
18	---	---	---	---	---	---	457	380	732	e364	e80	e91
19	---	---	---	---	---	---	444	493	662	e341	e88	e90
20	---	---	---	---	---	---	441	508	595	e297	e86	e89
21	---	---	---	---	---	---	438	573	496	e266	e82	e88
22	---	---	---	---	---	---	425	620	479	e253	e84	e94
23	---	---	---	---	---	---	416	738	438	e235	e85	e87
24	---	---	---	---	---	---	400	798	409	e207	e86	e83
25	---	---	---	---	---	---	393	743	395	e191	e86	e81
26	---	---	---	---	---	---	394	687	353	e179	e87	e82
27	---	---	---	---	---	---	424	663	326	e166	e90	e86
28	---	---	---	---	---	---	448	659	336	e167	e90	e88
29	---	---	---	---	---	---	452	679	334	e150	e90	e88
30	---	---	---	---	---	---	447	695	453	e161	e89	e86
31	---	---	---	---	---	---	---	701	---	e148	e87	---
TOTAL	---	---	---	---	---	---	12526	15528	16134	11806	2990	2463
MEAN	---	---	---	---	---	---	418	501	538	381	96.5	82.1
MAX	---	---	---	---	---	---	707	798	764	640	140	94
MIN	---	---	---	---	---	---	197	326	326	148	80	70
AC-FT	---	---	---	---	---	---	24850	30800	32000	23420	5930	4890

e Estimated.

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY--Continued



BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'36", long 110°52'18", in NE1/4 SW1/4 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 Hobble Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISID 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 fair except those for estimated daily discharges, which are poor. One diversion for irrigation of about 200 acres upstream from station. Station operated and record provided by Utah District.

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, 1,420 ft³/s, June 10, gage height, 4.19 ft; minimum daily discharge, 45 ft³/s, Jan. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	68	79	e80	e86	e80	88	273	736	559	202	130
2	98	70	75	e90	e64	e60	100	284	771	547	200	129
3	100	71	60	e70	e57	e50	102	293	864	533	194	128
4	100	69	61	e60	e50	e54	105	298	1010	515	194	125
5	97	72	62	e50	e52	e54	106	311	1160	525	192	125
6	96	71	71	e64	e60	e70	113	346	1230	479	188	126
7	97	70	78	e50	e60	e65	124	364	1180	455	186	123
8	95	74	79	e50	e60	e62	154	384	1190	433	182	121
9	95	81	77	e45	e70	e68	196	407	1230	e423	181	119
10	93	68	79	e58	e100	e64	245	480	1360	e406	178	119
11	93	69	78	e53	e90	e62	256	503	1330	385	172	118
12	91	83	e80	e60	e100	e64	232	625	1230	369	173	117
13	88	85	e81	e84	e88	e60	209	728	1140	353	175	115
14	87	80	e82	e70	e80	57	195	843	1100	327	176	115
15	87	74	e74	e60	e58	58	199	843	1070	298	171	116
16	84	70	e53	e70	e58	57	210	924	1040	276	165	117
17	82	66	e65	e74	e74	48	216	e880	997	275	162	122
18	86	66	e84	e70	e70	52	210	e840	954	257	160	118
19	84	65	e90	e90	e66	54	203	e800	863	248	155	115
20	88	65	e72	e80	e100	56	197	e780	791	232	154	114
21	88	66	e62	e60	e95	63	192	e750	753	227	151	110
22	83	67	e58	e70	e95	67	186	e730	721	224	148	107
23	82	67	e58	e80	e90	71	179	e720	703	223	146	106
24	81	67	e64	e84	e80	72	196	700	679	221	144	106
25	85	68	e52	e60	e68	66	216	699	661	212	142	105
26	89	72	e51	e50	e88	66	235	722	649	217	141	105
27	83	69	e51	e58	e82	74	259	712	665	208	140	104
28	82	71	e52	e50	e81	76	242	733	657	209	143	103
29	82	76	e52	e54	e80	79	246	737	610	211	137	102
30	81	78	e53	e60	--	77	261	784	578	215	133	100
31	78	---	e60	e66	---	80	---	754	---	207	133	---
TOTAL	2753	2138	2093	2020	2202	1986	5672	19247	27922	10269	5118	3460
MEAN	88.8	71.3	67.5	65.2	75.9	64.1	189	621	931	331	165	115
MAX	100	85	90	90	100	80	261	924	1360	559	202	130
MIN	78	65	51	45	50	48	88	273	578	207	133	100
AC-FT	5460	4240	4150	4010	4370	3940	11250	38180	55380	20370	10150	6860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1996, BY WATER YEAR (WY)

MEAN	91.1	78.4	69.3	63.6	61.3	62.8	161	542	631	297	154	109
MAX	156	113	88.4	85.0	82.8	99.4	385	956	1377	602	242	166
(WY)	1987	1986	1983	1983	1984	1986	1946	1982	1986	1975	1983	1986
MIN	51.0	50.7	45.3	40.1	38.1	39.5	58.6	99.1	96.2	61.4	55.1	52.1
(WY)	1978	1978	1995	1988	1988	1988	1975	1977	1977	1977	1977	1977

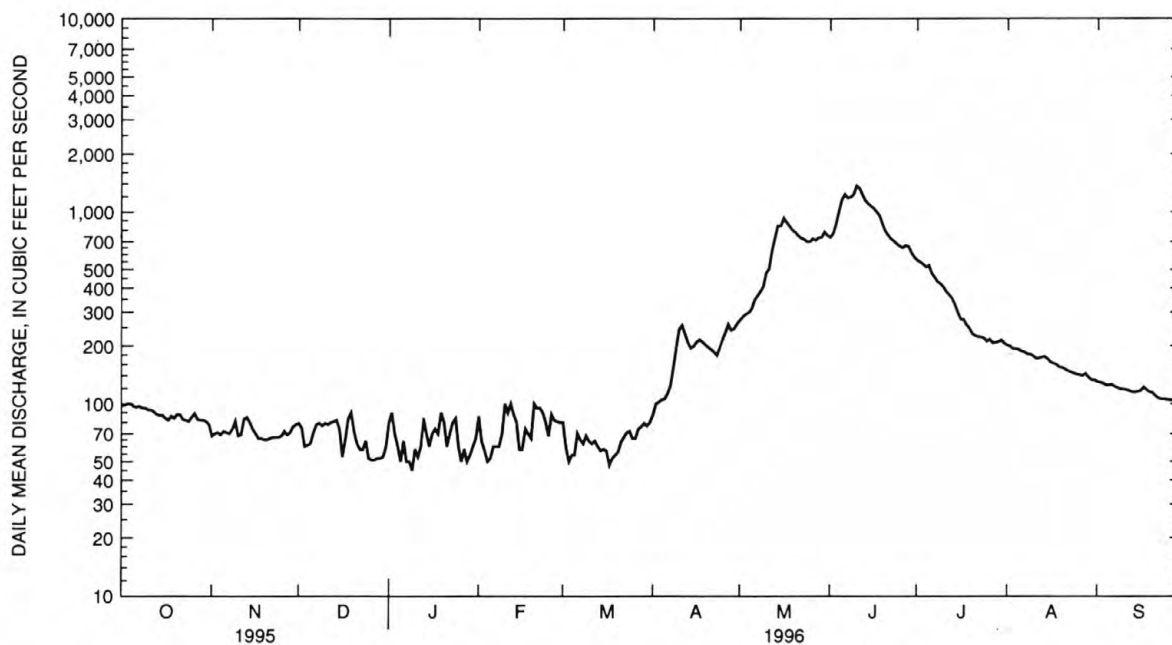
BEAR RIVER BASIN

417

10032000 SMITHS FORK NEAR BORDER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1943 - 1996	
ANNUAL TOTAL	73291		84880		--	
ANNUAL MEAN	201		232		194	
HIGHEST ANNUAL MEAN	--		--		324	1986
LOWEST ANNUAL MEAN	--		--		71.1	1977
HIGHEST DAILY MEAN	1070	Jun 15	1360	Jun 10	2000	Jun 4 1986
LOWEST DAILY MEAN	38	Jan 1	45	Jan 9	32	Dec 6 1993
ANNUAL SEVEN-DAY MINIMUM	42	Jan 17	53	Jan 5	35	Dec 1 1993
ANNUAL RUNOFF (AC-FT)	145400		168400		140400	
10 PERCENT EXCEEDS	572		721		521	
50 PERCENT EXCEEDS	97		100		91	
90 PERCENT EXCEEDS	52		60		58	

e Estimated.



10032000 SMITHS FORK NEAR BORDER, WY

BEAR RIVER BASIN

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 1995 TO SEPTEMBER 1996

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)
DEC 05...	0825	68	400	8.4	0.0	-7.0	608	11.1
APR 10...	0950	342	377	8.4	4.0	14.0	603	9.8
MAY 01...	1430	309	420	8.6	7.0	9.0	606	10.1
JUN 18...	0845	1100	295	8.4	8.0	15.0	608	9.3

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- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
DEC 05...	95	<0.01	<0.05	<0.02	<0.01	67	12
APR 10...	95	<0.01	0.15	0.03	0.03	677	625
MAY 01...	105	<0.01	0.06	0.02	0.03	144	120
JUN 18...	99	<0.01	0.10	0.03	0.02	208	618

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 those 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. Station operated and surface water record provided by Utah District.

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, 1,920 ft³/s, June 15, gage height, 5.69 ft; minimum discharge, 131 ft³/s, Sept. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	256	292	e310	e195	e440	e550	806	1680	1040	318	165
2	219	210	291	e290	e170	e400	e540	799	1590	1110	308	165
3	215	227	276	e360	e195	e450	e560	767	1590	1130	301	164
4	221	233	285	e300	e220	e500	511	730	1570	1070	298	163
5	222	239	297	e250	e260	e540	479	738	1610	1070	307	157
6	219	246	309	e300	e340	e450	475	762	1590	1030	293	153
7	216	240	308	e330	e450	e410	473	783	1550	1010	289	148
8	219	232	298	e340	e600	e440	572	800	1550	991	272	147
9	221	257	298	e370	e540	e400	705	794	1650	957	271	143
10	218	272	317	e400	e520	e430	826	829	1730	1000	263	140
11	217	266	304	e360	e460	e460	1000	844	1730	987	259	140
12	219	297	317	e310	e380	e500	998	964	1780	929	247	142
13	215	360	330	e310	e400	e520	1010	1090	1830	861	238	142
14	218	355	321	e310	e400	e440	1020	1160	1860	772	228	147
15	223	334	301	e400	e450	e410	991	1220	1890	714	221	139
16	221	320	304	e480	e500	e460	932	1330	1880	688	215	144
17	226	306	301	e400	e580	e520	865	1430	1840	686	205	169
18	259	297	305	e280	e540	e450	806	1460	1760	701	207	175
19	233	295	251	e330	e580	e400	769	1560	1610	656	210	173
20	227	298	240	e370	e610	e450	752	1460	1450	571	214	172
21	232	290	245	e350	e540	e500	738	1420	1270	511	211	170
22	242	291	314	e300	e480	e510	715	1400	1200	486	204	180
23	238	287	303	e250	e530	e560	706	1540	1120	452	193	167
24	240	282	270	e300	e400	e640	706	1790	1060	398	189	159
25	248	281	267	e340	e350	e640	730	1780	1010	368	183	155
26	258	291	260	e260	e390	e540	726	1690	968	345	173	158
27	256	292	311	e290	e260	e460	783	1600	968	320	169	166
28	246	287	e320	e320	e220	e430	795	1680	970	321	173	170
29	241	285	e330	e290	e240	e470	791	1710	918	334	174	169
30	243	293	e340	e260	---	e530	802	1790	980	347	172	166
31	260	---	e340	e240	---	e540	---	1740	---	342	168	---
TOTAL	7153	8419	9245	10000	11800	14890	22326	38466	44204	22197	7173	4748
MEAN	231	281	298	323	407	480	744	1241	1473	716	231	158
MAX	260	360	340	480	610	640	1020	1790	1890	1130	318	180
MIN	215	210	240	240	170	400	473	730	918	320	168	139
AC-FT	14190	16700	18340	19830	23410	29530	44280	76300	87680	44030	14230	9420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

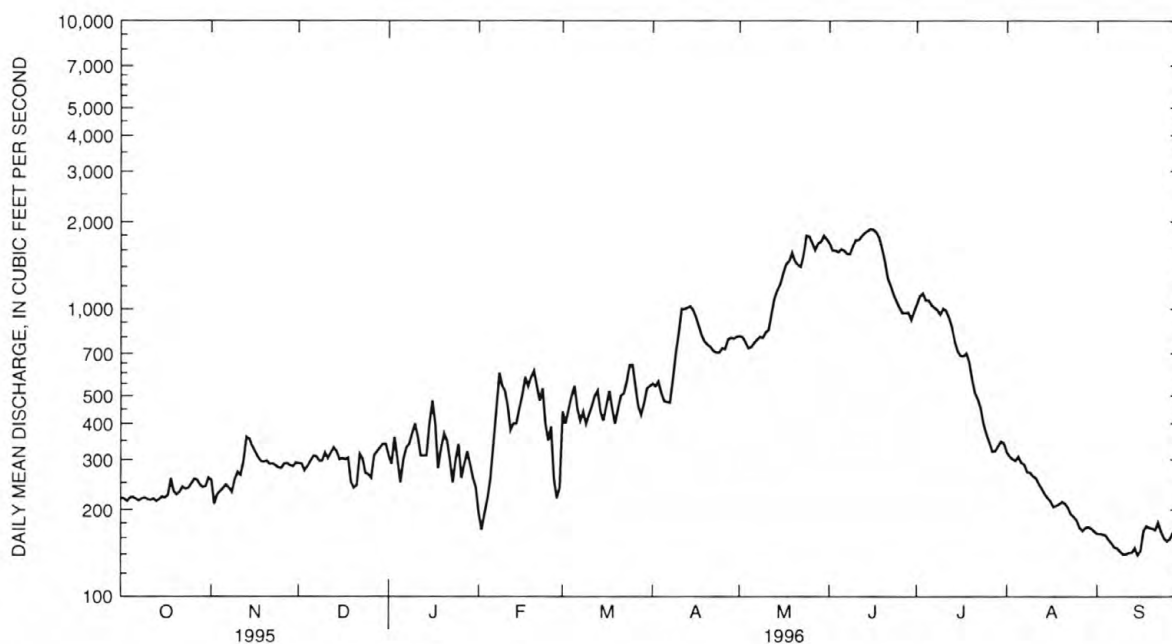
	MEAN	218	229	201	183	211	374	694	1009	1254	597	241	199
	MAX	755	692	536	344	429	1159	1945	2794	3712	1556	707	658
	(WY)	1983	1983	1983	1984	1986	1986	1985	1984	1983	1983	1983	1983
	MIN	55.6	83.1	96.5	86.2	82.4	116	69.2	115	96.7	71.4	80.1	55.9
	(WY)	1978	1978	1978	1978	1993	1993	1988	1977	1977	1977	1977	1977

BEAR RIVER BASIN

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	174881		200621		--	
ANNUAL MEAN	479		548		451	
HIGHEST ANNUAL MEAN	--		--		1049	1984
LOWEST ANNUAL MEAN	--		--		112	1977
HIGHEST DAILY MEAN	2300	Jun 16	1890	Jun 15	5400	Jun 7 1983
LOWEST DAILY MEAN	110	Jan 25	139	Sep 15	31	Oct 5 1977
ANNUAL SEVEN-DAY MINIMUM	118	Jan 21	142	Sep 9	36	Oct 1 1977
ANNUAL RUNOFF (AC-FT)	346900		397900		326700	
10 PERCENT EXCEEDS	1320		1290		1120	
50 PERCENT EXCEEDS	298		340		227	
90 PERCENT EXCEEDS	152		178		113	

e Estimated.



10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

BEAR RIVER BASIN

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10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
DEC 05...	1010	296	544	8.5	1.0	2.0	612	11.1
MAR 20...	1235	294	618	8.3	2.0	4.0	614	10.0
JUN 18...	1205	1880	472	8.3	16.0	15.0	614	7.7
AUG 13...	1610	285	545	8.5	20.0	28.0	618	10.0

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)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
DEC 05...	98	K11	<0.01	0.07	<0.02	<0.01	91	73
MAR 20...	90	K5	<0.01	0.05	0.10	0.03	156	124
JUN 18...	97	150	<0.01	0.07	0.04	0.02	181	919
AUG 13...	137	68	0.01	0.06	0.02	0.01	76	58

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

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

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.

DRAINAGE AREA.--2,486 mi².

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

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas. Station operated and record provided by Utah District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s, June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s, Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s, May 30, gage height, 6.72 ft; minimum discharge, 108 ft³/s, Sept. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	274	299	e310	e195	e440	559	979	2090	1180	375	166
2	206	219	299	e290	e170	e400	612	958	1990	1270	350	167
3	203	232	295	e360	e195	e450	679	939	1920	1390	340	155
4	207	e264	290	e300	e220	e500	670	898	1890	1320	329	152
5	210	244	309	e250	e260	e540	617	902	1880	1300	333	139
6	206	257	315	e300	e340	e450	615	935	1910	1280	321	132
7	207	244	313	e330	e450	e410	638	982	1810	1230	313	127
8	209	236	310	e340	e600	e440	730	1000	1770	1220	295	125
9	208	257	298	e370	e540	e400	898	992	1800	1200	292	122
10	211	278	325	e400	e520	e430	1030	996	1890	1210	282	119
11	217	270	313	e360	e460	e460	1230	1020	1930	1210	272	118
12	208	288	317	e310	e380	e500	1270	1090	1950	1170	263	121
13	201	363	339	e310	e400	e520	1280	1230	1980	1080	248	121
14	201	363	336	e310	e400	e440	1270	1310	2020	978	245	123
15	207	342	312	e400	e450	e410	1250	1360	2040	901	237	123
16	207	331	303	e480	e500	e460	1190	e1470	2050	862	228	120
17	206	316	313	e400	e580	e520	1110	1620	2030	859	219	137
18	250	303	324	e280	e540	e450	1060	1750	1960	841	221	147
19	241	297	e260	e330	e580	e400	1000	1880	1850	805	217	144
20	235	310	e250	e370	e610	500	983	1850	1700	706	217	146
21	238	294	e250	e350	e540	513	959	1760	1530	640	207	140
22	e246	296	e315	e300	e480	563	937	1720	1430	589	205	147
23	e247	290	e305	e250	e530	637	904	1770	1330	548	193	143
24	245	288	e270	e300	e400	641	889	1980	1260	496	190	134
25	255	285	e270	e340	e350	549	906	2120	1210	450	187	132
26	260	295	e260	e260	e390	466	908	2070	1180	425	176	129
27	264	299	e315	e290	e260	432	959	2020	1160	390	169	137
28	255	300	e320	e320	e220	430	995	2000	1180	389	173	142
29	248	290	e330	e290	e240	473	989	2090	1160	399	176	143
30	246	300	e340	e260	---	526	992	2140	1130	406	174	142
31	267	---	e340	e220	---	541	---	2150	---	399	171	---
TOTAL	7019	8625	9435	9980	11800	14891	28129	45981	51030	27143	7618	4093
MEAN	226	287	304	322	407	480	938	1483	1701	876	246	136
MAX	267	363	340	480	610	641	1280	2150	2090	1390	375	167
MIN	201	219	250	220	170	400	559	898	1130	389	169	118
AC-FT	13920	17110	18710	19800	23410	29540	55790	91200	101200	53840	15110	8120

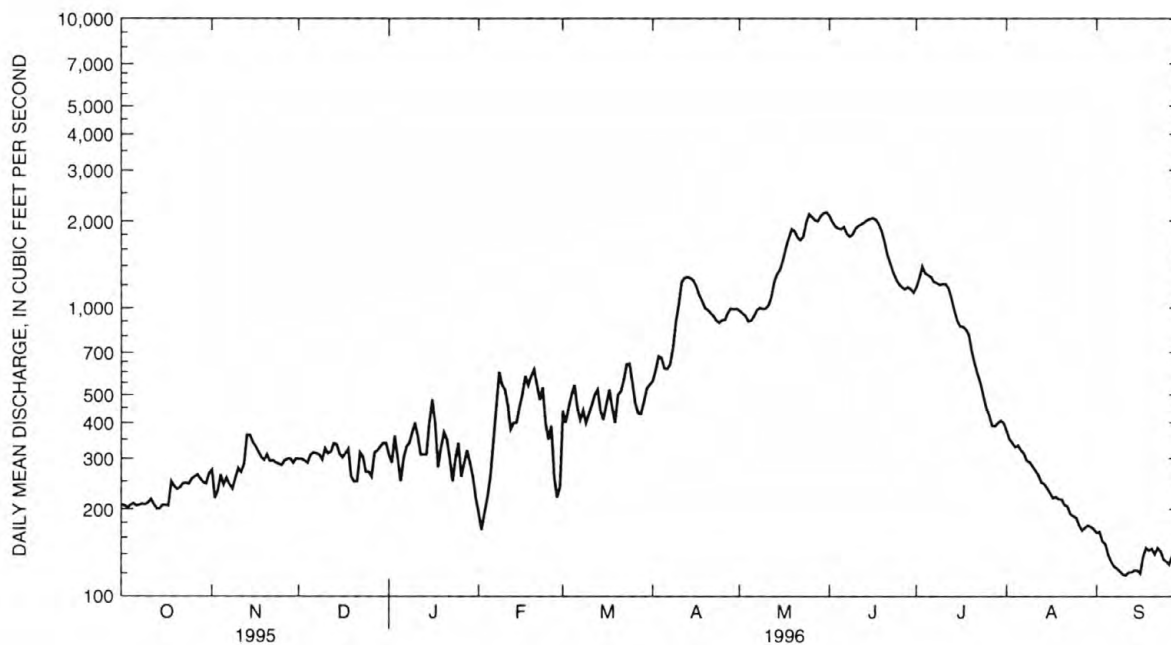
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

	MEAN	207	225	200	185	211	386	753	1014	1156	524	220	177
MAX	751	693	563	381	479	1294	1979	3158	3829	1670	752	671	
(WY)	1983	1983	1983	1985	1986	1986	1985	1952	1983	1983	1983	1983	
MIN	51.4	81.2	106	77.6	75.2	105	71.2	74.4	62.2	54.2	42.3	38.5	
(WY)	1978	1978	1993	1993	1993	1988	1977	1977	1977	1977	1940	1940	

10039500 BEAR RIVER AT BORDER, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1938 - 1996	
ANNUAL TOTAL	181032		225744		--	
ANNUAL MEAN	496		617		438	
HIGHEST ANNUAL MEAN	--		--		1068	1983
LOWEST ANNUAL MEAN	--		--		103	1977
HIGHEST DAILY MEAN	2430	Jun 16	2150	May 31	4840	Jun 8 1983
LOWEST DAILY MEAN	110	Jan 25	118	Sep 11	25	Apr 29 1977
ANNUAL SEVEN-DAY MINIMUM	117	Jan 21	121	Sep 10	29	Apr 28 1977
ANNUAL RUNOFF (AC-FT)	359100		447800		317500	
10 PERCENT EXCEEDS	1410		1490		1130	
50 PERCENT EXCEEDS	300		355		225	
90 PERCENT EXCEEDS	150		176		110	

e Estimated.



10039500 BEAR RIVER AT BORDER, WY

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

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

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 those for estimated daily discharges, which are fair. U.S. Geological Survey data collection platform with satellite telemetry at station. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s, June 5, 1996, gage height, 10.75 ft; minimum, 160 ft³/s, Sept. 5-8, 10, 26-29, 1994, gage height, 3.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft³/s, June 5, gage height, 10.75 ft; minimum, 262 ft³/s, Nov. 2, gage height, 3.44 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	327	537	e380	e330	381	363	704	5580	3210	791	484
2	316	274	607	e360	e320	378	376	710	6490	3100	759	476
3	343	292	511	e370	e310	377	377	692	8090	2950	727	468
4	437	303	538	e360	e380	391	374	671	9010	2830	707	463
5	390	313	521	e360	429	409	360	647	11300	2770	680	469
6	375	333	532	e340	429	405	366	666	8900	2420	698	475
7	387	344	508	e350	e450	398	386	810	8370	2150	687	464
8	385	362	495	e360	e470	399	423	1010	9020	2000	668	453
9	375	441	487	377	467	396	498	1260	9550	1880	652	446
10	374	412	499	384	457	393	606	1520	9090	1780	637	441
11	382	406	491	377	443	390	782	1820	8950	1690	621	439
12	419	470	505	e350	429	385	758	2510	8400	1560	607	455
13	406	480	568	e350	423	378	689	3440	8120	1470	596	453
14	386	492	567	e360	419	368	612	4960	8160	1380	589	453
15	387	475	539	368	406	360	573	5790	8130	1310	599	456
16	381	451	513	382	395	357	601	6910	7660	1350	583	496
17	376	432	e490	392	387	360	648	6980	7200	1360	576	532
18	438	422	e460	e340	391	351	633	6870	6350	1210	583	508
19	430	429	e450	e350	395	338	618	5510	5300	1140	564	493
20	383	399	e440	e370	401	336	577	4260	4820	1080	549	489
21	387	382	e430	e380	399	344	570	3900	4800	1010	536	478
22	389	401	e420	e370	403	349	547	4320	5050	970	527	538
23	340	391	e400	e370	415	350	553	4420	4600	940	520	507
24	353	383	e400	e380	410	340	748	3560	4350	911	513	474
25	358	387	e380	e390	417	324	940	3350	4460	886	507	473
26	372	468	e360	e370	414	318	867	4120	4220	858	504	471
27	350	444	e340	e380	411	324	876	4590	4240	830	503	454
28	345	443	e370	e380	396	352	796	5580	4010	813	534	451
29	359	457	397	e390	389	364	740	6110	3490	861	518	447
30	353	482	391	e380	---	364	713	6160	3320	896	509	441
31	344	---	392	e360	---	362	---	5540	---	824	498	---
TOTAL	11648	12095	14538	11430	11785	11341	17970	109390	201030	48439	18542	14147
MEAN	376	403	469	369	406	366	599	3529	6701	1563	598	472
MAX	438	492	607	392	470	409	940	6980	11300	3210	791	538
MIN	316	274	340	340	310	318	360	647	3320	813	498	439
AC-FT	23100	23990	28840	22670	23380	22490	35640	217000	398700	96080	36780	28060

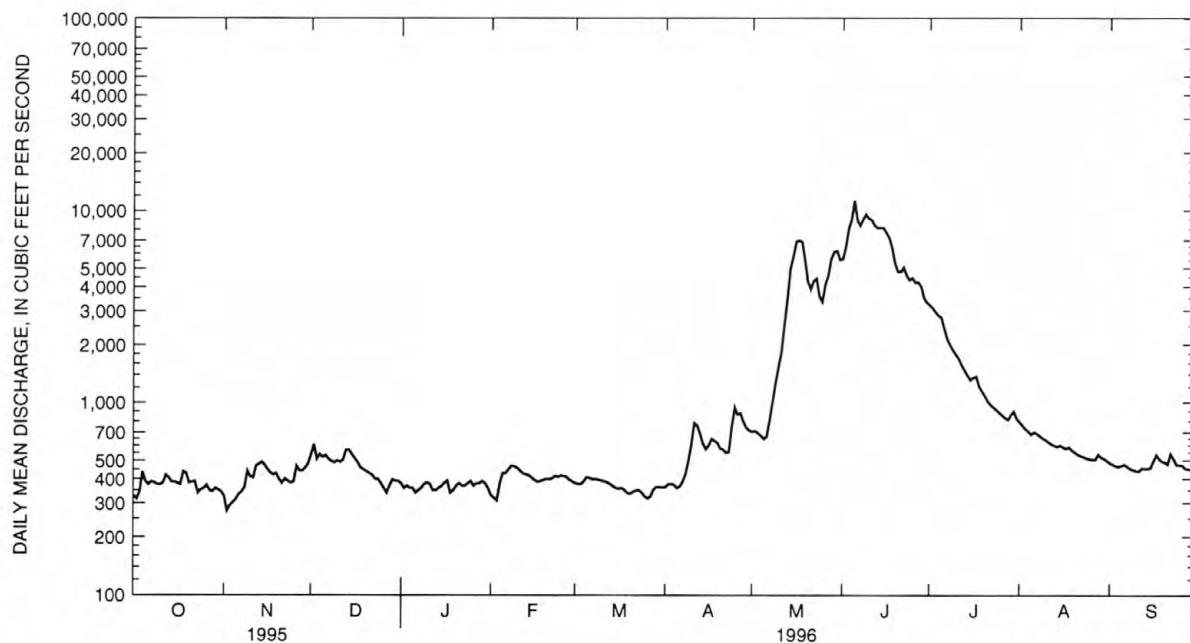
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

MEAN	345	346	347	321	332	346	731	2789	3044	848	408	332
MAX	679	607	527	383	429	506	1509	3947	6701	1633	660	523
(WY)	1984	1984	1984	1985	1986	1986	1990	1993	1996	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

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

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	372861		482355		--	
ANNUAL MEAN	1022		1318		850	
HIGHEST ANNUAL MEAN	--		--		1318	1996
LOWEST ANNUAL MEAN	--		--		526	1988
HIGHEST DAILY MEAN	8230	Jun 6	11300	Jun 5	11300	Jun 5 1996
LOWEST DAILY MEAN	220	Jan 3	274	Nov 2	161	Sep 6 1994
ANNUAL SEVEN-DAY MINIMUM	238	Jan 1	312	Oct 31	163	Sep 4 1994
ANNUAL RUNOFF (AC-FT)	739600		956800		615600	
ANNUAL RUNOFF (CFSM)	2.10		2.71		1.75	
ANNUAL RUNOFF (INCHES)	28.54		36.92		23.76	
10 PERCENT EXCEEDS	3270		4370		2280	
50 PERCENT EXCEEDS	426		468		378	
90 PERCENT EXCEEDS	293		353		258	

e Estimated.



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

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, May to September 1996 (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, 20.7 °C July 31, Aug. 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD) (UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT 24...	1550	1340	260	7.7	7.0	6.0	10.4	107	596	49	15
NOV 13...	1122	474	242	8.0	2.5	3.5	10.5	101	600	49	15
JAN 18...	1330	415	256	7.3	-13.0	1.0	11.2	101	594	49	15
FEB 13...	1345	432	247	8.1	-1.0	2.5	10.5	97	606	--	--
MAR 12...	1230	388	253	8.1	3.5	4.0	11.9	116	596	--	--
APR 09...	1130	471	251	8.0	10.0	4.5	10.9	107	598	--	--
30...	1110	712	212	8.0	5.5	3.5	10.4	101	595	--	--
MAY 20...	1415	4120	120	7.7	3.5	4.5	9.6	95	595	--	--
JUN 05...	2010	9550	83	8.0	15.0	7.5	9.9	105	597	--	--
11...	1145	7900	93	7.8	19.0	6.0	10.1	103	596	--	--
25...	1315	4180	96	7.6	22.5	9.5	9.1	102	599	--	--
JUL 24...	1200	934	172	8.0	21.5	15.0	9.4	119	600	--	--
AUG 12...	1115	617	198	7.9	28.0	14.5	8.7	109	600	--	--
SEP 03...	1315	468	215	8.0	21.0	13.0	8.8	107	596	--	--

[illegible]

SNAKE RIVE MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)	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- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT											
24...	177	171	0.24	638	0.02	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01
NOV											
13...	161	165	0.22	206	<0.01	0.05	<0.02	<0.2	<0.2	<0.01	<0.01
JAN											
18...	177	175	0.24	198	<0.01	0.05	<0.02	<0.2	<0.2	0.02	<0.01
FEB											
13...	--	--	--	--	--	0.06	0.02	<0.2	--	<0.01	--
MAR											
12...	--	--	--	--	--	<0.05	0.02	<0.2	--	0.04	--
APR											
09...	--	--	--	--	--	0.07	<0.02	<0.2	--	0.01	--
30...	--	--	--	--	--	<0.05	0.02	<0.2	--	0.03	--
MAY											
20...	--	--	--	--	--	0.08	0.04	0.2	--	0.08	--
JUN											
05...	--	--	--	--	--	0.10	0.02	0.8	--	0.52	--
11...	--	--	--	--	--	0.09	0.05	--	--	--	--
25...	--	--	--	--	--	0.06	0.03	<0.2	--	0.03	--
JUL											
24...	--	--	--	--	--	0.07	0.04	<0.2	--	<0.01	--
AUG											
12...	--	--	--	--	--	0.09	0.02	<0.2	--	<0.01	--
SEP											
03...	--	--	--	--	--	0.08	<0.01	<0.2	--	<0.01	--

DATE	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- PENDE TOTAL (MG/L AS C) (00689)	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								
24...	<0.01	16	3	1.1	0.2	5	14	84
NOV								
13...	<0.01	22	3	1.6	0.2	10	13	61
JAN								
18...	<0.01	19	3	--	--	6	6.7	85
FEB								
13...	<0.01	--	--	--	--	3	3.5	83
MAR								
12...	0.01	--	--	--	--	2	2.1	90
APR								
09...	<0.01	--	--	--	--	31	39	91
30...	0.02	--	--	--	--	5	9.6	--
MAY								
20...	<0.01	--	--	--	--	129	1430	--
JUN								
05...	--	--	--	--	--	1470	37800	--
11...	0.02	--	--	--	--	1070	22900	--
25...	0.01	--	--	--	--	91	1030	--
JUL								
24...	0.01	--	--	--	--	4	10	--
AUG								
12...	0.01	--	--	--	--	2	3.3	--
SEP								
03...	<0.01	--	--	--	--	1	1.3	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	
DATE	TIME												
JAN	18...	1330	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
		P, P' DDE DISSOLV (UG/L) (34653)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
DATE													
JAN	18...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
		MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THON WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
DATE													
JAN	18...	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
		PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	
DATE													
JAN	18...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002	

SNAKE RIVE MAIN STEM

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	2.3	1.2	1.7
15	---	---	---	---	---	---	---	---	---	3.4	1.3	2.0
16	---	---	---	---	---	---	---	---	---	2.4	1.3	1.8
17	---	---	---	---	---	---	---	---	---	3.4	1.3	2.2
18	---	---	---	---	---	---	---	---	---	3.9	1.8	2.4
19	---	---	---	---	---	---	---	---	---	3.9	1.8	2.6
20	---	---	---	---	---	---	---	---	---	6.5	1.8	3.7
21	---	---	---	---	---	---	---	---	---	7.5	1.8	4.3
22	---	---	---	---	---	---	---	---	---	5.9	2.6	4.0
23	---	---	---	---	---	---	---	---	---	4.0	1.8	2.4
24	---	---	---	---	---	---	---	---	---	6.8	2.3	4.3
25	---	---	---	---	---	---	---	---	---	7.8	3.1	5.2
26	---	---	---	---	---	---	---	---	---	5.6	3.2	4.3
27	---	---	---	---	---	---	---	---	---	7.9	3.1	4.9
28	---	---	---	---	---	---	---	---	---	5.7	2.8	4.1
29	---	---	---	---	---	---	---	---	---	6.2	2.3	3.9
30	---	---	---	---	---	---	---	---	---	6.1	2.6	4.0
31	---	---	---	---	---	---	---	---	---	7.6	2.3	4.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.8	2.1	4.7	14.9	8.4	11.5	20.7	14.1	17.2	17.9	11.9	14.8
2	8.4	2.1	4.8	15.4	9.0	12.1	19.8	14.2	16.9	16.9	11.0	14.0
3	8.4	2.3	4.7	15.5	9.3	12.3	17.1	12.7	14.8	16.8	10.8	13.9
4	7.5	2.6	4.6	14.7	10.7	12.9	16.5	11.1	13.7	17.1	11.4	14.3
5	8.1	2.4	4.7	15.8	10.4	13.0	16.0	11.0	13.3	15.2	11.8	13.5
6	8.4	2.3	5.0	15.8	9.8	12.7	15.5	11.8	13.4	14.7	9.0	11.8
7	9.2	2.8	5.5	16.6	10.2	13.4	18.1	10.4	14.0	15.5	9.5	12.5
8	9.0	3.2	5.7	17.3	11.1	14.2	19.0	11.3	15.1	16.1	9.9	13.0
9	8.7	3.2	5.7	17.6	12.5	14.9	17.7	12.2	15.2	16.5	10.2	13.4
10	9.3	3.4	5.9	18.1	12.2	15.0	19.5	12.5	16.0	16.8	10.5	13.7
11	9.6	3.4	6.2	18.1	12.4	15.2	19.8	12.4	16.0	15.2	11.9	13.8
12	10.0	3.9	6.7	18.4	12.4	15.4	19.4	13.0	16.2	17.4	13.0	15.0
13	9.8	4.3	6.8	17.6	12.7	15.3	19.2	13.5	16.4	16.0	12.4	14.2
14	10.5	4.6	7.2	18.1	11.6	15.3	18.9	13.9	16.4	14.6	11.6	12.9
15	9.5	5.3	7.3	18.9	11.9	15.4	19.5	14.2	16.8	15.5	10.4	12.8
16	10.7	5.1	7.5	16.6	13.2	14.6	19.8	13.6	16.7	13.6	10.4	11.4
17	10.7	5.1	7.6	16.5	12.2	14.2	17.7	13.3	15.8	11.6	9.0	10.2
18	9.6	5.3	7.2	17.6	10.2	14.4	17.4	13.2	15.2	12.2	8.1	10.1
19	10.2	3.9	6.8	---	---	---	17.7	10.5	14.0	10.8	9.3	10.0
20	11.1	5.1	7.9	---	---	---	17.4	11.6	14.6	12.4	9.3	10.7
21	11.1	5.0	8.0	---	---	---	18.1	11.4	14.6	12.4	9.9	11.1
22	10.0	6.4	8.2	---	---	---	18.1	11.0	14.5	12.4	9.6	11.0
23	10.4	5.6	7.9	---	---	---	18.4	11.4	14.9	11.9	7.0	9.5
24	12.8	6.5	9.4	---	---	---	18.9	11.9	15.5	11.4	7.5	9.6
25	12.7	6.7	9.6	20.0	13.6	16.8	17.7	12.7	15.4	10.8	8.9	9.8
26	11.9	6.8	9.4	20.2	13.5	16.8	19.0	12.7	15.9	9.8	7.5	8.4
27	10.8	7.6	9.2	20.2	13.9	17.1	18.7	13.8	16.4	8.4	5.7	7.1
28	9.6	7.5	8.5	19.2	14.2	16.7	18.9	14.2	16.4	11.9	6.2	8.9
29	13.0	7.3	9.8	18.4	14.6	16.5	17.9	13.3	15.8	12.8	7.8	10.4
30	14.2	7.8	10.9	19.5	14.9	16.8	18.9	12.7	15.8	12.8	8.1	10.7
31	---	---	---	20.7	14.6	17.3	18.4	12.7	15.6	---	---	---
MONTH	14.2	2.1	7.1	---	---	---	20.7	10.4	15.4	17.9	5.7	11.7

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 connected to a stilling well float. Datum of gage is 6,700.00 ft, 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 data collection platform with 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. Station record provided by Idaho District.

COOPERATION.--Reservoir elevations and capacity table provided by 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, 848,500 acre-ft, July 5, elevation, 6,769.06 ft; minimum, 504,900 acre-ft, May 9-10, elevation, 6,754.93 ft.

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

6,750	397,900
6,760	624,400
6,770	862,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644600	641900	658800	667800	676800	673800	628400	527700	670400	841100	823300	729700
2	643100	641400	658800	667500	676500	673100	625600	525400	677200	843700	820800	726000
3	643800	641000	658600	669000	675800	672900	622400	521400	687200	846500	818200	722300
4	644300	640700	660500	669000	675800	673400	619800	518200	700000	848000	815000	718900
5	644100	641200	661500	669200	675600	674600	615300	514700	714700	848500	812200	715700
6	643800	641700	661500	669200	677000	674300	610500	511400	728000	847500	809600	712200
7	644300	642200	662900	669200	677000	674100	606000	508600	739100	846000	807100	708800
8	644100	642900	662400	669000	677500	673600	601700	506600	752500	845700	804100	704900
9	643800	644100	663200	669200	677500	673100	597200	504900	767200	845400	801300	701700
10	643800	643800	663400	669500	676800	672400	593600	504900	782700	846000	798500	698500
11	643600	646700	663700	669500	676500	671900	590300	505400	796000	846200	795800	695300
12	644100	648200	665800	669200	676500	670700	587400	508400	807100	846200	793000	693800
13	643800	648600	666600	669000	676000	669500	584100	513800	816500	845700	790200	689900
14	643600	649400	666600	669200	675600	667300	580100	525600	824600	845200	787500	687000
15	643600	649600	667000	670900	675300	665800	576500	540300	833200	844700	784500	684300
16	643600	649900	667300	670900	674800	664100	572500	558600	838800	846000	781700	682400
17	643800	650100	667300	671200	675600	662400	569400	577200	842900	846000	778700	680200
18	644800	649900	667000	670700	675100	660500	566800	593600	844900	846000	775400	677000
19	644600	650300	667000	671600	675300	658600	562800	604800	843700	844700	772400	674300
20	644600	650300	667000	672600	675600	656400	558800	610700	841100	843700	769200	671400
21	644600	650300	667300	673400	675600	654700	554800	614600	840100	842100	766000	668500
22	644100	651100	667300	673100	675600	652500	551300	618600	840900	840600	762500	666600
23	643800	650100	667000	673100	675300	650800	548700	623600	839800	839300	759200	663900
24	643600	650800	667000	674300	675300	648900	547600	625300	838600	837600	755800	661000
25	643600	651800	666800	674100	675300	646500	545200	626500	838600	836000	752500	658100
26	643800	653500	666800	674300	675300	643600	542900	630800	838600	834000	749500	654900
27	643400	653500	666800	675300	674800	641000	540600	635200	839800	832200	747000	651600
28	642900	655200	666600	675800	674800	639000	537500	643100	840900	830400	743300	648900
29	642900	655200	666600	676800	674100	636600	533800	651600	840100	829200	740100	645800
30	642400	657800	667300	677000	---	633700	530700	659500	840400	828100	736600	643400
31	642400	---	667800	677000	---	630800	---	665100	---	825600	733200	---
MAX	644800	657800	667800	677000	677500	674600	628400	665100	844900	848500	823300	729700
MIN	642400	640700	658600	667500	674100	630800	530700	504900	670400	825600	733200	643400
(#)	6760.75	6761.39	6761.80	6762.18	6762.06	6760.27	6756.04	6761.69	6768.74	6768.16	6764.47	6760.79
(*)	-4100	+15400	+10000	+9200	-2900	-43300	-100100	+134400	+175300	-14800	-92400	-89800

CAL YR 1995 * +291200
WTR YR 1996 MAX 848500 MIN 504900 * -3100

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

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 Bureau of Reclamation). Prior to June 13, 1917, nonrecording gage, and June 14, 1917 to May 20, 1940, water-stage recorder, at site 1.5 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes data collection platform with satellite telemetry. Station operated and record provided by Idaho District.

COOPERATION.--Gage readings for current reporting purposes provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s, June 12, 1918, gage height, 10.41 ft, site and datum then in use; maximum gage height, 10.74 ft, June 25, 1981; minimum daily, 0.30 ft³/s, Oct. 28, 1969.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,190 ft³/s, June 16, gage height, 9.61 ft; minimum, 364 ft³/s, Nov. 1, gage height, 2.57 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	463	477	497	662	703	1990	3000	5340	4900	2510	2490
2	1100	436	477	497	692	703	1980	3010	5360	3960	2500	2490
3	739	423	477	499	703	703	2140	3000	5700	3690	2480	2480
4	502	423	477	502	703	698	2470	2990	6300	4050	2480	2480
5	502	423	477	502	703	694	2840	2980	6550	4970	2490	2490
6	502	423	474	502	703	691	3020	2980	6610	4930	2510	2490
7	502	423	472	502	703	691	3020	2970	6670	4540	2510	2480
8	502	423	472	502	703	721	3020	2980	6720	3900	2510	2480
9	502	428	472	502	703	790	3020	2990	6750	3440	2500	2420
10	500	426	472	502	703	808	3020	2980	6820	3090	2500	2280
11	497	424	472	502	706	881	3020	2980	6880	2880	2510	2200
12	497	428	474	502	709	1080	3010	2980	7140	2840	2510	2190
13	497	428	477	502	709	1310	3000	2980	7790	2840	2510	2190
14	497	428	477	507	705	1500	2980	3000	8340	2840	2500	2190
15	497	428	477	513	705	1500	2960	3030	8560	2890	2490	2190
16	497	428	477	513	709	1500	2980	3080	8850	2640	2490	2190
17	497	428	477	513	709	1490	3000	3120	9110	2510	2490	2200
18	497	428	477	522	709	1490	3010	3170	9130	2500	2490	2190
19	495	428	479	549	709	1490	3010	3180	9140	2500	2490	2190
20	492	428	482	555	709	1490	3010	3360	8690	2490	2490	2190
21	492	428	482	555	705	1490	3000	4000	7850	2490	2500	2190
22	492	428	482	577	703	1530	2990	4220	7620	2490	2510	2190
23	492	428	482	615	703	1580	2980	4230	7620	2490	2500	2190
24	492	428	482	615	703	1590	2990	4260	7320	2490	2490	2190
25	492	428	482	615	703	1640	2990	4270	6970	2490	2490	2190
26	492	428	484	615	703	1890	2970	4270	6720	2490	2500	2190
27	490	428	487	619	703	2000	2970	4280	6310	2490	2500	2190
28	497	435	487	627	703	2000	2970	4300	6100	2490	2490	2190
29	497	474	491	635	703	1990	2950	4630	6000	2490	2500	2190
30	500	477	497	649	---	1990	2950	5150	5320	2510	2500	2000
31	493	---	497	652	---	1990	---	5330	---	2510	2500	---
TOTAL	17243	12949	14869	16959	20386	40623	86260	109700	214280	95830	77440	68210
MEAN	556	432	480	547	703	1310	2875	3539	7143	3091	2498	2274
MAX	1500	477	497	652	709	2000	3020	5330	9140	4970	2510	2490
MIN	490	423	472	497	662	691	1980	2970	5320	2490	2480	2000
AC-FT	34200	25680	29490	33640	40440	80580	171100	217600	425000	190100	153600	135300

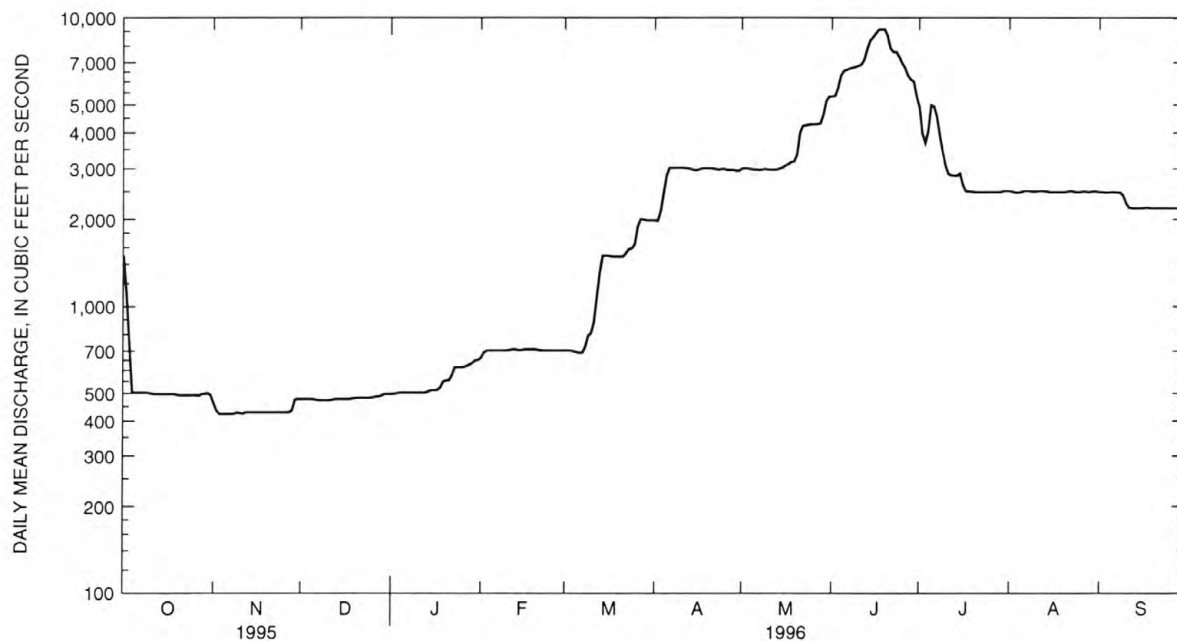
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

	338	286	326	297	358	451	716	1416	3428	4000	3539	1956
MEAN	338	286	326	297	358	451	716	1416	3428	4000	3539	1956
MAX	1605	3009	4280	1362	2489	3053	3828	5658	8594	8182	7370	5265
(WY)	1913	1957	1957	1912	1961	1951	1974	1971	1918	1921	1918	1984
MIN	5.06	3.00	2.00	2.00	2.00	2.00	2.53	6.48	51.7	983	987	146
(WY)	1948	1949	1945	1945	1945	1945	1945	1945	1932	1989	1919	1910

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1996	
ANNUAL TOTAL	473701		774749		--	
ANNUAL MEAN	1298		2117		1432	
HIGHEST ANNUAL MEAN	--		--		2154	1952
LOWEST ANNUAL MEAN	--		--		687	1989
HIGHEST DAILY MEAN	5050	Jun 9	9140	Jun 19	14700	Jun 13 1918
LOWEST DAILY MEAN	265	Jan 29	423	Nov 3	.30	Oct 28 1969
ANNUAL SEVEN-DAY MINIMUM	275	Jan 26	424	Nov 3	1.4	Oct 24 1969
ANNUAL RUNOFF (AC-FT)	939600		1537000		1037000	
10 PERCENT EXCEEDS	3730		4570		4320	
50 PERCENT EXCEEDS	477		1990		483	
90 PERCENT EXCEEDS	288		476		17	



13011000 SNAKE RIVER NEAR MORAN, WY

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 those for estimated daily discharges, which are poor. Station equipment includes data collection platform with satellite telemetry. No diversion or regulation. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,350 ft³/s, May 29, 1983, gage height, 6.33 ft; maximum gage height, 7.20 ft, June 12, 1996, extrapolated from gage height record; minimum daily, 19 ft³/s, Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 18	0930	2,490	6.41
June 12	0100	*4,020	*7.20

Minimum daily, 30 ft³/s, Feb. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	59	e70	e45	e35	e50	56	222	1540	1180	179	57
2	105	e45	e60	e45	e35	e50	63	221	1880	1160	163	56
3	108	e45	e50	e45	e30	e45	66	218	2110	1080	154	56
4	132	e45	e50	e45	e40	e50	67	221	2230	1030	144	56
5	119	47	e45	e40	e50	e50	62	228	2400	1060	137	57
6	107	e45	e45	e40	e55	e45	64	244	2590	969	138	63
7	103	e50	e45	e40	e55	e50	75	298	2570	812	131	61
8	88	e50	e45	e45	e60	e55	97	353	2840	721	112	58
9	77	e60	e50	e50	e65	e55	134	432	3100	656	104	57
10	77	e55	50	e45	e60	e50	177	492	3380	624	99	56
11	76	e55	64	e45	e60	e50	214	537	3520	566	93	55
12	84	e60	73	e45	e60	e55	217	694	3350	510	89	56
13	79	e60	71	e45	e65	e50	198	963	3240	470	84	56
14	76	e60	69	e45	e65	e50	178	1450	3280	426	88	57
15	79	e60	65	e45	e60	e50	171	1730	3130	395	88	69
16	80	e55	e60	e45	e60	e50	184	2050	3360	426	85	68
17	82	e55	e60	e45	e55	52	201	2140	3130	481	89	83
18	97	56	e55	e35	e60	52	199	2250	2930	374	92	77
19	103	58	e50	e40	e55	53	189	1660	2380	342	81	69
20	71	e55	e45	e40	e60	55	174	1240	2080	357	79	70
21	68	e55	e45	e40	e60	53	173	1040	2050	330	74	71
22	67	63	e45	e40	e60	53	165	1120	2160	300	73	88
23	55	63	e45	e40	e60	53	173	1090	1920	274	71	82
24	54	63	e45	e40	e60	51	224	867	1700	245	68	71
25	59	e60	e45	e40	e60	50	276	809	1780	226	66	69
26	68	e60	e45	e40	e55	53	273	1000	1710	209	67	67
27	60	e55	e45	e40	e50	55	256	1110	1690	195	70	66
28	55	65	e40	e40	e45	53	234	1440	1530	199	66	64
29	67	64	e45	e40	e45	54	225	1760	1320	204	64	63
30	65	e65	e45	e40	---	53	218	1820	1240	218	63	62
31	65	---	e45	e35	---	53	---	1490	---	204	60	---
TOTAL	2535	1688	1612	1305	1580	1598	5003	31189	72140	16243	2971	1940
MEAN	81.8	56.3	52.0	42.1	54.5	51.5	167	1006	2405	524	95.8	64.7
MAX	132	65	73	50	65	55	276	2250	3520	1180	179	88
MIN	54	45	40	35	30	45	56	218	1240	195	60	55
AC-FT	5030	3350	3200	2590	3130	3170	9920	61860	143100	32220	5890	3850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1996, BY WATER YEAR (WY)

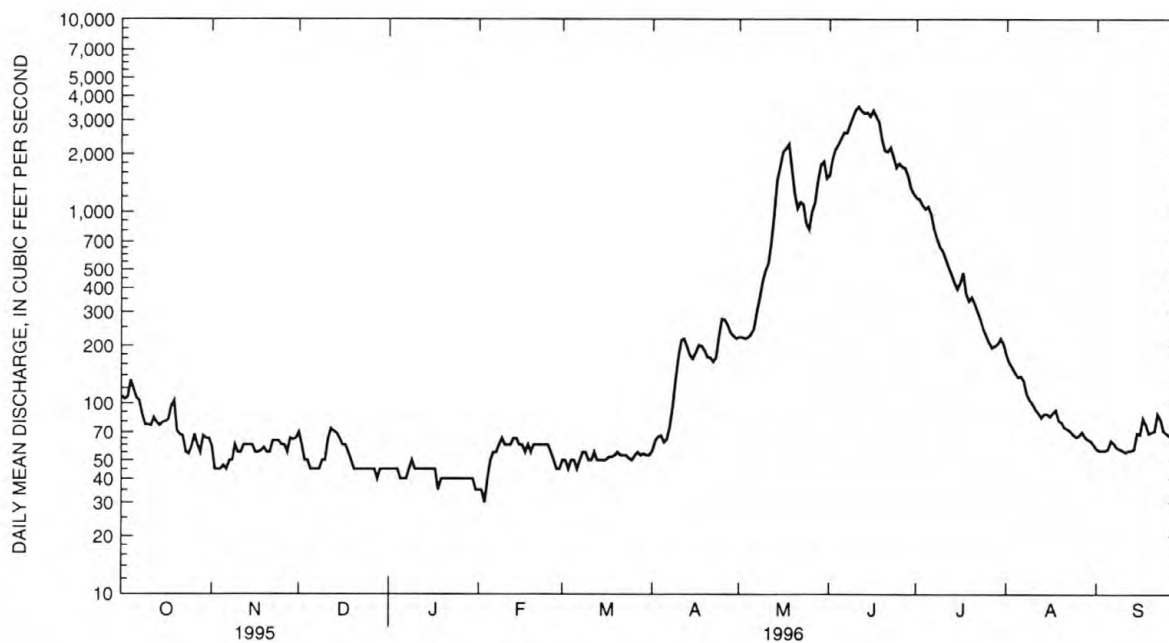
	MEAN	MAX	MIN
1917	65.4	142	34.6
1918	55.0	105	32.6
1919	48.9	93.5	29.7
1920	44.2	70.7	25.3
1921	45.3	72.2	26.6
1922	51.9	94.5	34.6
1923	153	418	56.2
1924	929	1606	345
1925	1242	2405	238
1926	345	1527	70.0
1927	98.4	191	43.0
1928	71.1	127	37.2
1929	1973	1984	1988
1930	1973	1984	1988
1931	1973	1984	1988
1932	1973	1984	1988
1933	1973	1984	1988
1934	1973	1984	1988
1935	1973	1984	1988
1936	1973	1984	1988
1937	1973	1984	1988
1938	1973	1984	1988
1939	1973	1984	1988
1940	1973	1984	1988
1941	1973	1984	1988
1942	1973	1984	1988
1943	1973	1984	1988
1944	1973	1984	1988
1945	1973	1984	1988
1946	1973	1984	1988
1947	1973	1984	1988
1948	1973	1984	1988
1949	1973	1984	1988
1950	1973	1984	1988
1951	1973	1984	1988
1952	1973	1984	1988
1953	1973	1984	1988
1954	1973	1984	1988
1955	1973	1984	1988
1956	1973	1984	1988
1957	1973	1984	1988
1958	1973	1984	1988
1959	1973	1984	1988
1960	1973	1984	1988
1961	1973	1984	1988
1962	1973	1984	1988
1963	1973	1984	1988
1964	1973	1984	1988
1965	1973	1984	1988
1966	1973	1984	1988
1967	1973	1984	1988
1968	1973	1984	1988
1969	1973	1984	1988
1970	1973	1984	1988
1971	1973	1984	1988
1972	1973	1984	1988
1973	1973	1984	1988
1974	1973	1984	1988
1975	1973	1984	1988
1976	1973	1984	1988
1977	1973	1984	1988
1978	1973	1984	1988
1979	1973	1984	1988
1980	1973	1984	1988
1981	1973	1984	1988
1982	1973	1984	1988
1983	1973	1984	1988
1984	1973	1984	1988
1985	1973	1984	1988
1986	1973	1984	1988
1987	1973	1984	1988
1988	1973	1984	1988
1989	1973	1984	1988
1990	1973	1984	1988
1991	1973	1984	1988
1992	1973	1984	1988
1993	1973	1984	1988
1994	1973	1984	1988
1995	1973	1984	1988
1996	1973	1984	1988

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1917 - 1996	
ANNUAL TOTAL	127931		139804		--	
ANNUAL MEAN	350		382		262	
HIGHEST ANNUAL MEAN	--		--		403	
LOWEST ANNUAL MEAN	--		--		132	
HIGHEST DAILY MEAN	2870		3520		3870	
LOWEST DAILY MEAN	26		30		19	
ANNUAL SEVEN-DAY MINIMUM	30		36		23	
ANNUAL RUNOFF (AC-FT)	253800		277300		190200	
ANNUAL RUNOFF (CFSM)	2.07		2.26		1.55	
ANNUAL RUNOFF (INCHES)	28.16		30.77		21.10	
10 PERCENT EXCEEDS	1300		1460		906	
50 PERCENT EXCEEDS	86		66		66	
90 PERCENT EXCEEDS	45		45		39	

e Estimated.



13011500 PACIFIC CREEK AT MORAN, WY

435

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.

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,540 ft³/s, June 9, 1981, gage height, 8.61 ft; minimum daily, 73 ft³/s, Jan. 25, 1989.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 18	0930	*4,900	*7.41
July 6	0635	4,070	6.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

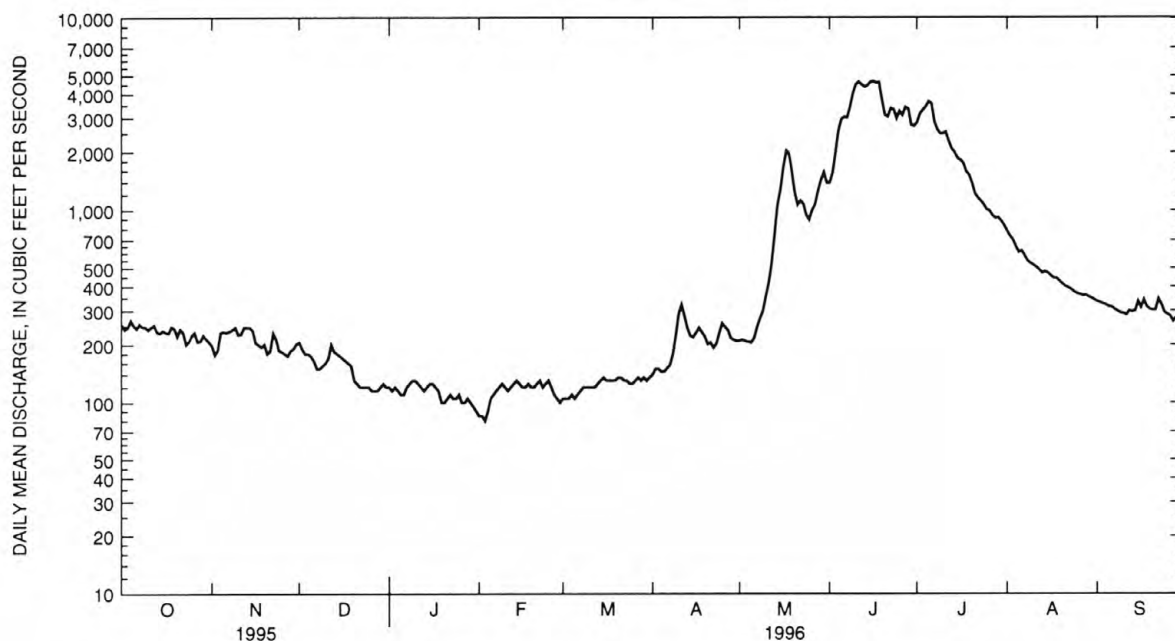
MEAN	213	170	139	121	117	126	218	990	2276	1351	419	259
MAX	304	229	180	145	191	175	367	1768	4113	3056	946	428
(WY)	1973	1984	1985	1994	1984	1984	1987	1969	1974	1975	1982	1982
MIN	128	122	99.5	87.3	93.1	98.5	124	397	1049	230	163	135
(WY)	1988	1988	1980	1989	1969	1995	1967	1975	1992	1977	1977	1994

BUFFALO FORK BASIN

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	204118		250733		--	
ANNUAL MEAN	559		685		534	
HIGHEST ANNUAL MEAN	--		--		751	
LOWEST ANNUAL MEAN	--		--		286	
HIGHEST DAILY MEAN	3330	Jun 15	4680	Jun 16	5880	Jun 9 1981
LOWEST DAILY MEAN	78	Jan 3	80	Feb 3	73	Jan 25 1989
ANNUAL SEVEN-DAY MINIMUM	86	Jan 1	89	Jan 29	81	Jan 23 1989
ANNUAL RUNOFF (AC-FT)	404900		497300		386900	
ANNUAL RUNOFF (CFSM)	1.73		2.12		1.65	
ANNUAL RUNOFF (INCHES)	23.51		28.88		22.47	
10 PERCENT EXCEEDS	1970		2510		1630	
50 PERCENT EXCEEDS	226		232		192	
90 PERCENT EXCEEDS	100		115		111	

e Estimated.



13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

SPREAD CREEK BASIN

437

13012490 SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY

LOCATION.--Lat 43°46'22", long 110°28'59", in NE¹/₄ SW¹/₄ 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, May to July 1996.

GAGE.--Water-stage recorder. Elevation of gage is 7,108.00 ft above sea level, by survey.

REMARKS.--Estimated daily discharges: June 4-20. Records fair except those for estimated daily discharges, which are poor. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Aug. 22 . . . 39.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	489	257	---	---
2	---	---	---	---	---	---	---	---	569	252	---	---
3	---	---	---	---	---	---	---	---	678	---	---	---
4	---	---	---	---	---	---	---	---	650	---	---	---
5	---	---	---	---	---	---	---	---	890	---	---	---
6	---	---	---	---	---	---	---	---	850	---	---	---
7	---	---	---	---	---	---	---	---	1320	---	---	---
8	---	---	---	---	---	---	---	---	1380	---	---	---
9	---	---	---	---	---	---	---	---	1300	---	---	---
10	---	---	---	---	---	---	---	---	1250	---	---	---
11	---	---	---	---	---	---	---	---	1150	---	---	---
12	---	---	---	---	---	---	---	---	920	---	---	---
13	---	---	---	---	---	---	---	---	730	---	---	---
14	---	---	---	---	---	---	---	---	630	---	---	---
15	---	---	---	---	---	---	---	---	500	---	---	---
16	---	---	---	---	---	---	---	---	610	---	---	---
17	---	---	---	---	---	---	---	---	600	---	---	---
18	---	---	---	---	---	---	---	---	1370	---	---	---
19	---	---	---	---	---	---	---	---	610	---	---	---
20	---	---	---	---	---	---	---	---	420	---	---	---
21	---	---	---	---	---	---	---	319	441	---	---	---
22	---	---	---	---	---	---	---	345	493	---	---	---
23	---	---	---	---	---	---	---	332	463	---	---	---
24	---	---	---	---	---	---	---	295	434	---	---	---
25	---	---	---	---	---	---	---	288	410	---	---	---
26	---	---	---	---	---	---	---	341	396	---	---	---
27	---	---	---	---	---	---	---	391	423	---	---	---
28	---	---	---	---	---	---	---	463	409	---	---	---
29	---	---	---	---	---	---	---	489	355	---	---	---
30	---	---	---	---	---	---	---	535	296	---	---	---
31	---	---	---	---	---	---	---	482	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	21036	---	---	---
MEAN	---	---	---	---	---	---	---	---	701	---	---	---
MAX	---	---	---	---	---	---	---	---	1380	---	---	---
MIN	---	---	---	---	---	---	---	---	296	---	---	---
AC-FT	---	---	---	---	---	---	---	---	41720	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	---	---	---	---	---	---	---	131	391	160	43.5	---
MAX	---	---	---	---	---	---	---	152	701	160	43.5	---
(WY)	---	---	---	---	---	---	---	1994	1995	1996	1997	---
MIN	---	---	---	---	---	---	---	110	23.5	160	43.5	---
(WY)	---	---	---	---	---	---	---	1995	1994	1995	1996	---

SPREAD CREEK BASIN

13012490 SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR*

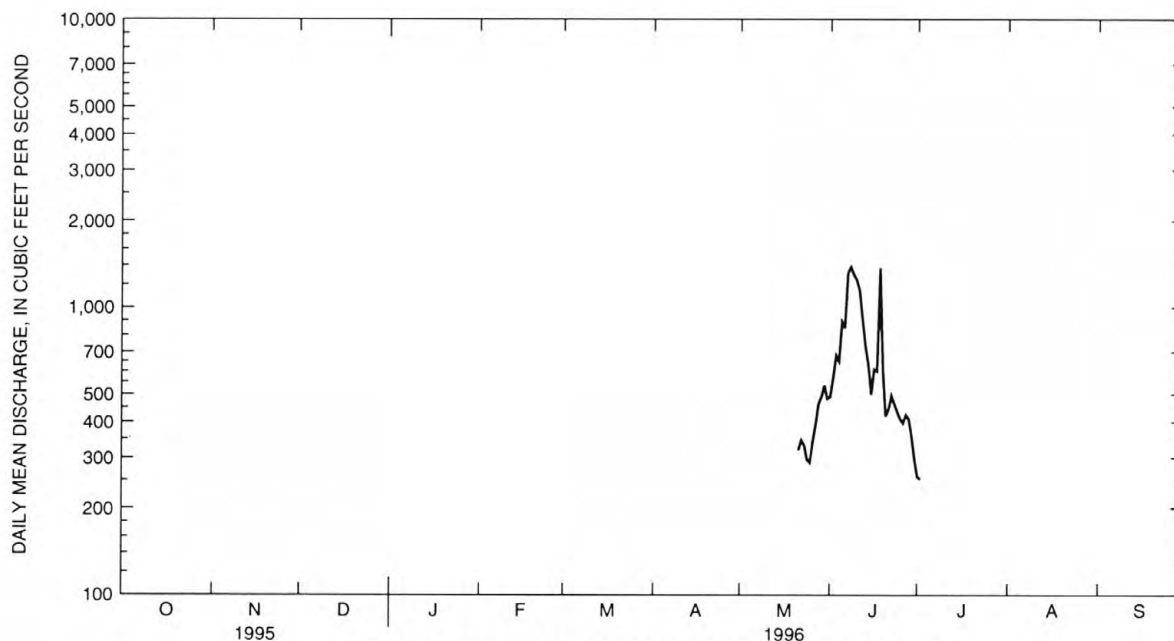
WATER YEARS 1994 - 1996*

HIGHEST DAILY MEAN	1380	Jun 8	1380	Jun 8 1996
LOWEST DAILY MEAN	252	Jul 2	1.6	Jul 10 1994
INSTANTANEOUS PEAK FLOW	2400 ^a	Jun 10	2400 ^a	Jun 10 1996
INSTANTANEOUS PEAK STAGE	10.88 ^b	Jun 11	10.88 ^b	Jun 11 1996
10 PERCENT EXCEEDS	--		533	
50 PERCENT EXCEEDS	--		124	
90 PERCENT EXCEEDS	--		19	

* During period of operation.

a Result of release from removal of debris on diversion structure, gage height not available.

b Backwater from debris on diversion structure, discharge unknown.



13012490 SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY

SNAKE RIVER MAIN STEM

439

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 1995 to current year.

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

REMARKS.--Estimated daily discharges: Dec. 19, 20, 22-28, Jan. 2, 6, 13, 14, 19, 22-29, Jan. 31 to Feb. 4, and Feb. 12. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2410	1150	1210	1040	1150	1180	2470	4030	11400	11000	4860	3830
2	2070	1040	1210	1040	1160	1180	2510	4060	11900	10300	4770	3810
3	1680	990	1090	1040	1180	1190	2610	4040	13000	10200	4700	3780
4	1450	1000	1110	1040	1200	1210	2950	4020	14800	10400	4620	3750
5	1380	1030	1070	1030	1200	1210	3310	4010	15600	11600	4540	3730
6	1330	1040	1080	1040	1210	1190	3650	4050	16000	11600	4540	3730
7	1320	1050	1050	1030	1210	1200	3650	4190	15200	10500	4520	3700
8	1330	1080	1050	1050	1230	1210	3690	4360	15900	9470	4400	3650
9	1300	1140	1040	1050	1240	1300	3800	4540	18300	8730	4340	3610
10	1290	1090	1080	1070	1240	1330	4000	4750	19200	8170	4300	3430
11	1280	1080	1110	1050	1210	1350	4130	4940	18900	7840	4270	3320
12	1300	1150	1140	1040	1220	1510	4060	5400	18500	7490	4250	3310
13	1300	1150	1190	1040	1200	1680	3900	6060	18400	7100	4220	3320
14	1270	1140	1150	1040	1210	1870	3840	7030	19000	6940	4230	3340
15	1270	1110	1120	1030	1210	1890	3860	7880	20200	6780	4240	3400
16	1260	1080	1100	1040	1210	1910	3900	8920	20900	6610	4210	3400
17	1250	1050	1100	1050	1210	1940	4010	9850	20500	6500	4190	3490
18	1280	1050	1030	1070	1220	1930	3980	9940	19900	6230	4180	3430
19	1300	1040	1020	1080	1220	1920	3890	8940	18000	6070	4150	3370
20	1250	1010	990	1060	1210	1940	3810	7990	15900	5880	4120	3370
21	1260	980	967	1100	1210	1980	3810	8010	14700	5640	4100	3360
22	1260	1040	980	1100	1220	2000	3790	8680	15000	5470	4080	3430
23	1200	1040	1000	1120	1200	2080	3880	8840	15100	5370	4060	3430
24	1170	1020	1000	1120	1200	2050	4120	8380	14200	5260	4020	3340
25	1200	1010	1000	1110	1240	2060	4230	8100	14000	5160	3980	3310
26	1240	1070	1000	1110	1260	2250	4170	8720	13700	5110	3970	3300
27	1190	1030	1010	1110	1250	2390	4100	8990	13400	5020	3950	3270
28	1180	1030	1010	1120	1180	2410	3990	9750	13200	4980	3960	3270
29	1210	1110	1010	1120	1190	2440	3930	10800	12400	5000	3920	3270
30	1200	1200	1040	1130	---	2420	3900	11900	11400	4980	3910	3230
31	1180	---	1030	1140	---	2430	---	11500	---	4940	3890	---
TOTAL	41610	32000	32987	33210	35090	54650	111940	222670	478600	226340	131490	103980
MEAN	1342	1067	1064	1071	1210	1763	3731	7183	15950	7301	4242	3466
MAX	2410	1200	1210	1140	1260	2440	4230	11900	20900	11600	4860	3830
MIN	1170	980	967	1030	1150	1180	2470	4010	11400	4940	3890	3230
AC-FT	82530	63470	65430	65870	69600	108400	222000	441700	949300	448900	260800	206200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

	1995	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995
MEAN	1342	1067	1064	1071	1210	1763	3731	4857	12640	7231	4121	3304
MAX	1342	1067	1064	1071	1210	1763	3731	7183	15950	7301	4242	3466
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MIN	1342	1067	1064	1071	1210	1763	3731	2531	9336	7160	4000	3142
(WY)	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995

SNAKE RIVER MAIN STEM

13013650 SNAKE RIVER AT MOOSE, WY--Continued

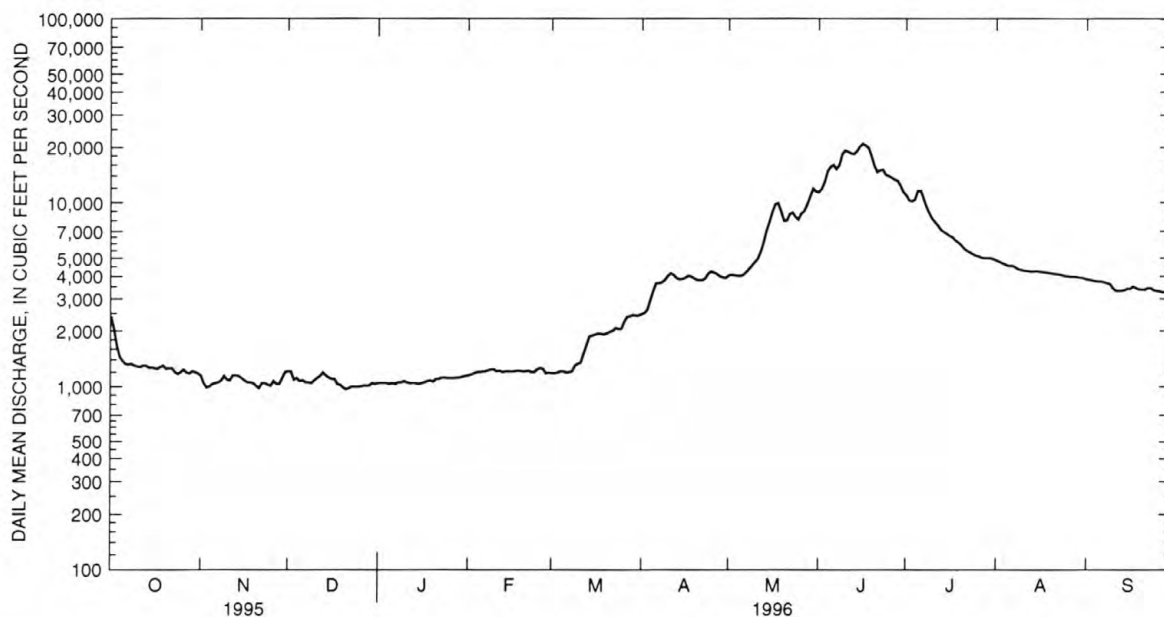
SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1995 - 1996

ANNUAL TOTAL	1504567		--	
ANNUAL MEAN	4111		4111	
HIGHEST DAILY MEAN	20900	Jun 16	20900	Jun 16 1996
LOWEST DAILY MEAN	967	Dec 21	963	Apr 13 1995*
ANNUAL SEVEN-DAY MINIMUM	991	Dec 20	978	Apr 9 1995*
INSTANTANEOUS PEAK FLOW	22000	Jun 16	22000	Jun 16 1996
INSTANTANEOUS PEAK STAGE	14.76	Jun 16	14.76	Jun 16 1996
ANNUAL RUNOFF (AC-FT)	2984000		2978000	
10 PERCENT EXCEEDS	10600		9620	
50 PERCENT EXCEEDS	2450		3370	
90 PERCENT EXCEEDS	1040		1040	

* During period of operation.



13013650 SNAKE RIVER AT MOOSE, WY

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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 OF (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT										
26...	0905	1300	190	8.3	4.0	0.0	596	10.4	102	78
NOV										
28...	1240	1050	197	8.3	1.5	-0.5	600	11.0	100	78
JAN										
09...	1235	1050	195	8.5	2.5	2.5	605	11.2	104	84
FEB										
09...	1100	1180	194	8.3	2.0	10.0	602	12.2	112	75
MAR										
15...	1130	1930	181	8.2	2.0	5.0	603	11.9	109	67
APR										
15...	1150	3800	186	8.3	4.0	5.0	607	10.9	105	64
MAY										
20...	1215	7730	160	7.8	5.5	14.0	605	10.2	102	65
JUN										
10...	1730	18200	134	8.3	12.0	24.0	606	9.2	108	54
26...	1305	14100	124	8.4	13.0	24.0	605	8.4	101	47
JUL										
25...	1130	5110	137	8.2	15.0	21.0	606	10.1	127	50
AUG										
09...	1130	4370	145	8.2	15.0	22.0	610	8.9	111	51
SEP										
10...	1120	3450	155	7.6	13.0	16.5	610	8.7	104	57

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...	23	5.1	7.9	0.4	1.8	83	9.2	3.7	0.4	15
NOV										
28...	23	5.1	8.4	0.4	1.8	87	10	4.3	0.4	15
JAN										
09...	25	5.3	8.7	0.4	2.0	87	10	4.8	0.6	16
FEB										
09...	22	4.8	9.9	0.5	1.9	85	11	4.8	0.6	16
MAR										
15...	20	4.2	11	0.6	2.0	75	11	5.6	0.9	16
APR										
15...	19	4.0	12	0.7	2.8	74	12	5.9	0.9	16
MAY										
20...	19	4.2	6.2	0.3	1.4	72	6.8	2.5	0.4	12
JUN										
10...	16	3.3	5.6	0.3	1.5	68	6.0	2.5	0.4	12
26...	14	2.9	5.4	0.3	1.4	52	6.3	2.6	0.4	13
JUL										
25...	15	3.0	6.1	0.4	1.5	57	6.6	2.7	0.5	14
AUG										
09...	15	3.3	6.7	0.4	1.5	61	7.5	3.3	0.6	14
SEP										
10...	17	3.5	7.7	0.4	1.7	--	8.5	4.0	0.7	14

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		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)	
DATE											
OCT											
26...		120	116	0.16	421	<0.01	<0.05	<0.02	<0.2	<0.2	
NOV											
28...		120	120	0.16	340	<0.01	<0.05	<0.02	<0.2	<0.2	
JAN											
09...		126	125	0.17	357	<0.01	<0.05	0.02	<0.2	<0.2	
FEB											
09...		127	122	0.17	405	<0.01	0.05	<0.02	<0.2	<0.2	
MAR											
15...		119	116	0.16	620	<0.01	<0.05	<0.02	<0.2	<0.2	
APR											
15...		110	117	0.15	1130	<0.01	0.10	<0.02	<0.2	<0.2	
MAY											
20...		98	96	0.13	2050	<0.01	<0.05	<0.02	0.2	<0.2	
JUN											
10...		50	88	0.07	2460	<0.01	0.05	<0.02	<0.2	<0.2	
26...		81	78	0.11	3080	<0.01	0.07	<0.02	<0.2	<0.2	
JUL											
25...		86	84	0.12	1190	<0.01	0.10	0.04	<0.2	<0.2	
AUG											
09...		97	89	0.13	1140	0.01	0.07	0.02	<0.2	<0.2	
SEP											
10...		94	--	--	--	<0.01	0.06	<0.02	<0.2	<0.2	
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- PENDEED TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- PENDEED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY) (80155)	
OCT											
26...		0.01	<0.01	<0.01	8	2	5.0	0.1	3	11	
NOV											
28...		0.03	0.02	0.01	11	2	4.0	0.2	4	11	
JAN											
09...		0.01	<0.01	0.02	4	2	5.4	0.2	5	14	
FEB											
09...		0.02	<0.01	<0.01	4	2	1.2	0.2	13	41	
MAR											
15...		0.03	0.03	0.03	4	2	1.5	0.4	15	78	
APR											
15...		0.01	<0.01	<0.01	8	3	3.0	0.4	29	298	
MAY											
20...		0.07	<0.01	0.01	14	4	6.3	0.9	140	2920	
JUN											
10...		0.06	0.03	0.01	11	8	3.1	>5.0	644	31600	
26...		0.12	<0.01	0.01	11	8	2.0	1.0	210	7990	
JUL											
25...		<0.01	<0.01	0.02	7	3	1.4	0.3	16	221	
AUG											
09...		<0.01	<0.01	0.02	9	2	1.4	0.3	7	83	
SEP											
10...		<0.01	<0.01	<0.01	5	2	1.5	0.2	5	47	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ALPHA BHC DIS- SOLVED (UG/L) (34253)
SEP											
10...	1120	3450	13.0	16.5	<0.002	<0.002	E0.003	<0.002	<0.001	<0.002	<0.002
E Estimate.											

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	TEMPER- ATURE WATER (DEG C) (000010)	TEMPER- ATURE AIR (DEG C) (000020)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	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)	
SEP 10...	1120	3450	13.0	16.5	<0.002	--	<0.002	--	--	--	E0.003	<0.002	
E - Estimate.													
DATE		METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED REC (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)
SEP 10...	<0.001	<0.002	--	--	--	<0.002	<0.003	<0.003	--	--	<0.004	--	
DATE		CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (39732)	2,4-D, DIS- SOLVED REC (UG/L) (38746)	P,P' DDE DISSOLV REC (UG/L) (34653)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DI- AZINON, DIS- SOLVED REC (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED REC (UG/L) (39381)
SEP 10...	<0.004	<0.002	--	--	<0.006	--	--	<0.002	--	--	--	<0.001	
DATE		2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ESFEN- VAL- ERATE, WAT,FLT GF 0.7U REC (UG/L) (49298)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)
SEP 10...	<0.003	--	<0.017	--	<0.006	--	<0.002	<0.004	<0.003	--	--	<0.003	
DATE		3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
SEP 10...	--	<0.002	<0.004	<0.002	--	--	<0.005	--	--	<0.002	<0.004	<0.004	
DATE		1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	
SEP 10...	--	<0.003	--	--	--	--	<0.004	<0.004	<0.004	<0.005	<0.002		

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS- SOLVED (UG/L) (39762)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	2,4,5-T DIS- SOLVED (UG/L) (39742)
SEP 10...	--	<0.018	<0.003	<0.007	<0.004	<0.013	--	--	--	<0.005	--
DATE	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70958)	PERI- PHYTON BIOMASS TOTAL ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)
SEP 10...	<0.010	<0.007	<0.013	<0.002	<0.001	--	<0.002	1.10	<0.100	162.2	164.5

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.--No estimated daily discharges. Records fair. Station equipment includes data collection platform with satellite telemetry. Diversions of about 300 ft³/s for irrigation upstream from station. No regulation. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,240 ft³/s, June 10, 1996, gage height, 22.77 ft; 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 discharge, 5,240 ft³/s, June 10, gage height, 22.77 ft; minimum daily, 1.8 ft³/s, Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

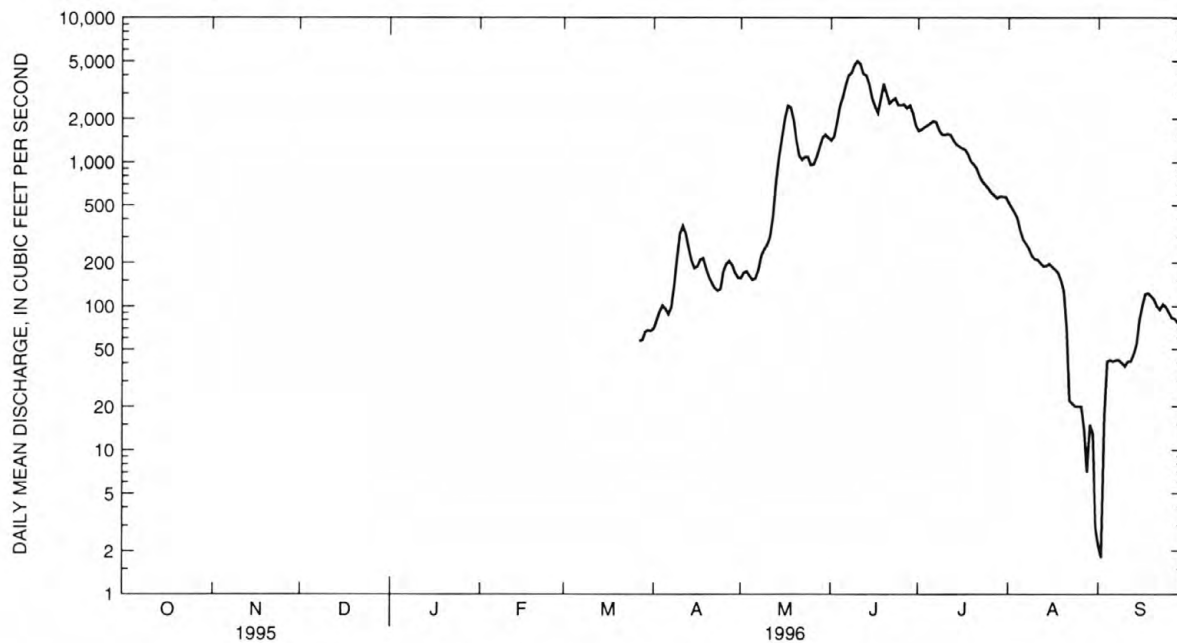
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	70	156	1420	1650	524	2.2
2	---	---	---	---	---	---	80	170	1510	1690	485	1.8
3	---	---	---	---	---	---	92	173	1900	1750	449	17
4	---	---	---	---	---	---	101	161	2460	1800	409	41
5	---	---	---	---	---	---	96	152	2840	1860	337	42
6	---	---	---	---	---	---	88	155	3440	1930	291	41
7	---	---	---	---	---	---	98	177	3980	1900	271	42
8	---	---	---	---	---	---	138	222	4160	1680	251	42
9	---	---	---	---	---	---	216	246	4710	1560	225	40
10	---	---	---	---	---	---	318	264	4990	1550	212	38
11	---	---	---	---	---	---	357	299	4820	1570	210	41
12	---	---	---	---	---	---	318	413	4100	1550	199	41
13	---	---	---	---	---	---	253	712	3980	1430	189	46
14	---	---	---	---	---	---	207	1070	3480	1330	190	54
15	---	---	---	---	---	---	183	1480	2780	1290	196	80
16	---	---	---	---	---	---	188	2010	2430	1250	187	101
17	---	---	---	---	---	---	210	2460	2200	1230	179	121
18	---	---	---	---	---	---	215	2390	2760	1140	171	123
19	---	---	---	---	---	---	182	1960	3500	1020	152	117
20	---	---	---	---	---	---	159	1410	2980	971	128	111
21	---	---	---	---	---	---	144	1110	2560	909	70	100
22	---	---	---	---	---	---	133	1040	2680	803	22	95
23	---	---	---	---	---	---	128	1090	2770	736	21	103
24	---	---	---	---	---	---	131	1090	2490	699	20	99
25	---	---	---	---	---	---	174	959	2490	663	20	91
26	---	---	---	---	---	---	196	967	2510	617	20	83
27	---	---	---	---	---	57	205	1080	2370	590	14	82
28	---	---	---	---	---	58	193	1260	2470	561	7.0	77
29	---	---	---	---	---	66	170	1480	2180	578	15	74
30	---	---	---	---	---	68	157	1550	1800	575	13	72
31	---	---	---	---	---	67	---	1480	---	575	2.9	---
TOTAL	---	---	---	---	---	---	5200	29186	88760	37457	5479.9	2018.0
MEAN	---	---	---	---	---	---	173	941	2959	1208	177	67.3
MAX	---	---	---	---	---	---	357	2460	4990	1930	524	123
MIN	---	---	---	---	---	---	70	152	1420	561	2.9	1.8
AC-FT	---	---	---	---	---	---	10310	57890	176100	74300	10870	4000

GROS VENTRE RIVER BASIN

13015000 GROS VENTRE RIVER AT ZENITH, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1996, BY WATER YEAR (WY)

MEAN	64.9	64.4	29.5	---	---	---	131	671	1094	445	153	63.4
MAX	89.4	81.3	29.5	---	---	---	219	971	2959	1410	406	209
(WY)	1990	1990	1988	---	---	---	1990	1994	1996	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



13015000 GROS VENTRE RIVER AT ZENITH, WY

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

LOCATION.--Lat 43°36'49", long 110°46'44", in NE¹/₄ 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 1995 to current year (no winter records).

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

REMARKS.--Estimated daily discharges: Apr. 1-15. Records good except those for Apr. 1-15, which are poor. Natural flow of stream affected by transbasin diversion 60 ft upstream, into and out of Lake Creek through Granite Creek Supplemental, which diverts water from Snake River main stem for irrigation in Fish Creek Basin. See stations 13016305, 13016310, 13016315 and 13016450. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 11 . . . 46.5
 Nov. 29 . . . 9.67
 Jan. 17 . . . 5.35

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8.6	12	21	214	29	18
2	---	---	---	---	---	---	8.0	12	22	230	24	18
3	---	---	---	---	---	---	8.6	12	35	244	22	18
4	---	---	---	---	---	---	9.3	10	67	267	19	18
5	---	---	---	---	---	---	9.3	9.1	153	278	15	18
6	---	---	---	---	---	---	8.0	8.2	189	278	33	18
7	---	---	---	---	---	---	8.6	8.0	172	216	46	18
8	---	---	---	---	---	---	9.3	43	184	180	41	17
9	---	---	---	---	---	---	11	66	224	149	34	17
10	---	---	---	---	---	---	15	68	243	117	24	15
11	---	---	---	---	---	---	17	73	253	113	20	15
12	---	---	---	---	---	---	15	84	242	94	19	14
13	---	---	---	---	---	---	14	106	234	92	19	14
14	---	---	---	---	---	---	14	98	230	85	17	14
15	---	---	---	---	---	---	13	105	238	78	26	15
16	---	---	---	---	---	---	12	115	254	75	34	15
17	---	---	---	---	---	---	12	137	256	74	34	15
18	---	---	---	---	---	---	13	119	244	62	34	15
19	---	---	---	---	---	---	14	77	217	55	32	14
20	---	---	---	---	---	---	13	46	187	63	30	14
21	---	---	---	---	---	---	13	44	175	60	28	10
22	---	---	---	---	---	---	12	38	217	50	26	6.6
23	---	---	---	---	---	---	13	41	231	44	25	20
24	---	---	---	---	---	---	15	50	215	42	24	30
25	---	---	---	---	---	---	17	58	220	39	22	35
26	---	---	---	---	---	---	16	66	229	38	21	41
27	---	---	---	---	---	---	15	67	227	36	20	46
28	---	---	---	---	---	---	14	77	243	33	22	55
29	---	---	---	---	---	---	13	88	216	34	21	63
30	---	---	---	---	---	---	12	78	207	35	20	69
31	---	---	---	---	---	---	---	40	---	32	19	---
TOTAL	---	---	---	---	---	---	372.7	1855.3	5845	3407	800	695.6
MEAN	---	---	---	---	---	---	12.4	59.8	195	110	25.8	23.2
MAX	---	---	---	---	---	---	17	137	256	278	46	69
MIN	---	---	---	---	---	---	8.0	8.0	21	32	15	6.6
AC-FT	---	---	---	---	---	---	739	3680	11590	6760	1590	1380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	12.4	59.8	195	121	38.8	32.1
MAX	---	---	---	---	---	---	12.4	59.8	195	131	51.8	41.1
(WY)	---	---	---	---	---	---	1996	1996	1996	1996	1995	1995
MIN	---	---	---	---	---	---	12.4	59.8	195	110	25.8	23.2
(WY)	---	---	---	---	---	---	1996	1996	1996	1996	1996	1996

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

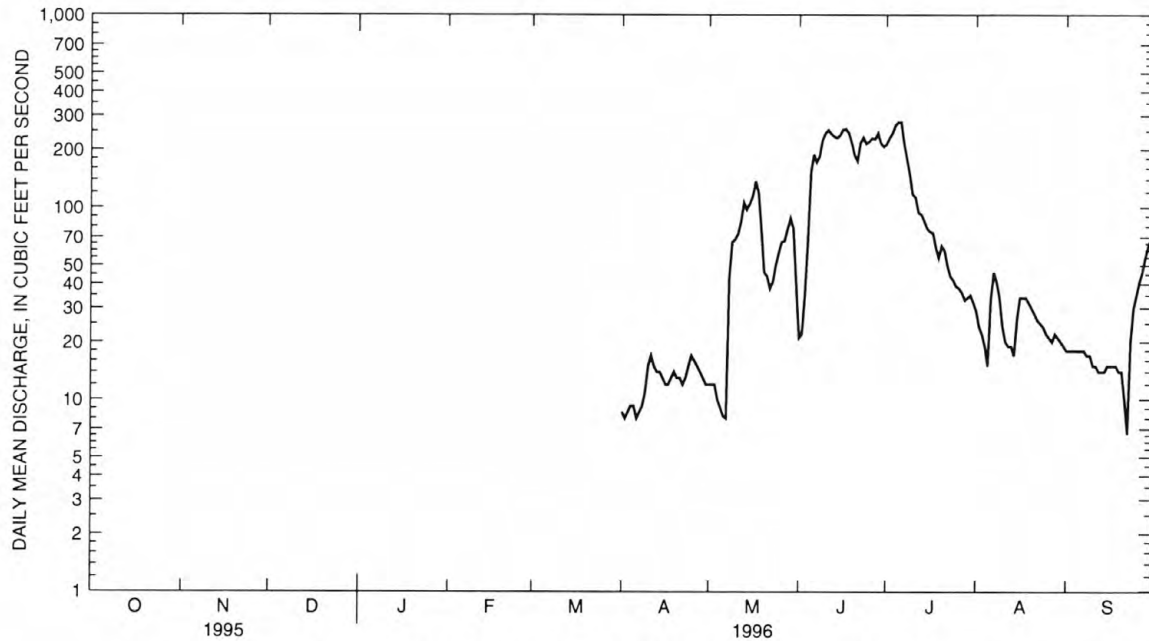
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1995 - 1996*

HIGHEST DAILY MEAN	278	Jul 5,6	278	Jul 5,6 1996
LOWEST DAILY MEAN	6.6	Sep 22	6.6	Sep 22 1996
INSTANTANEOUS PEAK FLOW	290	Jul 6	290	Jul 6 1996
INSTANTANEOUS PEAK STAGE	3.05	Jul 6	3.05	Jul 6 1996
10 PERCENT EXCEEDS	--		215	
50 PERCENT EXCEEDS	--		43	
90 PERCENT EXCEEDS	--		13	

* During period of operation.



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

REMARKS.--Estimated daily discharges: Nov. 1-6, 11, 12, 21, 28, 29, Dec. 3, 5, 7-10, 16-18, Dec. 22 to Jan. 1, Jan. 12-19, 23, Jan. 31 to Feb. 5, Feb. 26 to Mar. 1, and Mar. 25-27. Records fair except those for estimated daily discharges, which are poor. No diversions upstream from station. See stations 13016240, 13016310, 13016315, and 13016450.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.8	8.1	1.3	2.2	3.6	3.9	13	102	239	64	16
2	10	8.4	8.4	1.3	2.2	3.8	4.2	13	114	258	60	16
3	10	8.2	9.2	1.3	2.2	3.7	4.5	13	131	262	57	16
4	11	8.2	10	1.3	2.7	3.8	4.7	13	167	268	54	15
5	10	8.0	9.7	1.3	3.3	3.8	5.1	13	211	265	50	16
6	10	8.2	9.3	1.3	3.7	3.8	5.3	13	226	243	48	16
7	10	8.6	8.6	1.3	3.8	3.8	5.8	14	233	210	45	15
8	10	8.3	7.8	1.3	3.9	3.8	6.5	17	271	196	43	14
9	10	9.1	8.0	1.2	3.8	3.8	7.7	21	315	182	42	13
10	10	8.6	7.6	1.2	3.8	3.7	10	28	358	177	39	11
11	9.8	9.0	7.4	1.2	3.6	3.7	12	38	371	176	37	11
12	10	9.4	7.4	1.3	3.7	3.7	11	61	355	156	35	11
13	10	9.6	8.1	1.5	3.6	3.6	11	82	334	146	34	11
14	9.8	10	7.4	1.8	3.6	3.6	11	97	323	139	33	11
15	9.8	9.8	7.2	2.1	3.6	3.6	12	108	326	131	31	11
16	9.8	9.4	6.0	2.6	3.6	3.6	12	124	336	126	30	11
17	9.7	9.2	3.4	3.0	3.6	3.6	13	130	336	122	29	11
18	12	8.9	2.6	3.5	3.6	3.6	13	121	320	115	29	11
19	11	8.7	1.9	3.4	3.6	3.5	13	109	281	109	27	11
20	10	8.5	1.6	3.4	3.7	3.4	13	97	262	101	25	11
21	9.8	8.4	1.3	3.7	3.6	3.5	13	92	260	94	24	11
22	9.8	8.3	1.3	3.5	3.6	2.6	12	89	280	91	22	11
23	12	7.5	1.3	3.6	3.7	2.7	12	87	268	88	22	10
24	13	6.9	1.3	3.6	3.6	2.8	14	85	260	84	21	10
25	9.3	6.7	1.3	3.6	3.6	2.7	14	84	263	81	20	9.7
26	9.3	7.6	1.3	3.6	3.6	2.9	14	89	263	78	19	9.8
27	9.2	7.2	1.3	3.4	3.5	3.0	14	91	263	75	19	9.5
28	9.0	7.4	1.3	3.4	3.4	3.1	13	99	251	72	20	9.4
29	9.0	8.1	1.3	2.9	3.4	3.3	13	105	205	74	19	9.0
30	9.0	7.9	1.3	2.3	---	3.4	13	104	222	70	18	8.9
31	8.9	---	1.3	2.3	---	3.7	---	100	---	67	17	---
TOTAL	312.2	252.9	154.0	72.5	99.8	107.2	310.7	2150	7907	4495	1033	356.3
MEAN	10.1	8.43	4.97	2.34	3.44	3.46	10.4	69.4	264	145	33.3	11.9
MAX	13	10	10	3.7	3.9	3.8	14	130	371	268	64	16
MIN	8.9	6.7	1.3	1.2	2.2	2.6	3.9	13	102	67	17	8.9
AC-FT	619	502	305	144	198	213	616	4260	15680	8920	2050	70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

[illegible]

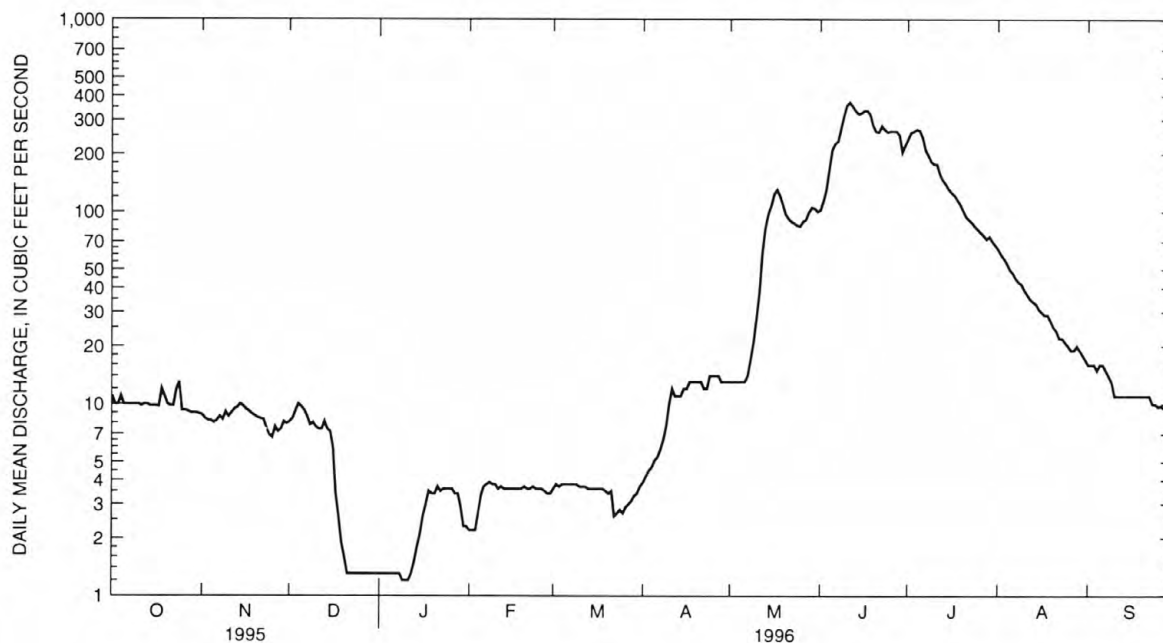
13016305 GRANITE CREEK ABOVE GRANITE CREEK SUPPLEMENTAL, NEAR MOOSE, WY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1995 - 1996

ANNUAL TOTAL	17250.6	--	
ANNUAL MEAN	47.1	47.1	
HIGHEST ANNUAL MEAN	--	47.1	1996
LOWEST ANNUAL MEAN	--	47.1	1996
HIGHEST DAILY MEAN	371	371	Jun 11 1996
LOWEST DAILY MEAN	1.2	1.2	Jan 9 1996
ANNUAL SEVEN-DAY MINIMUM	1.3	1.3	Jan 5 1996
INSTANTANEOUS PEAK FLOW	404	404	Jun 11 1996
INSTANTANEOUS PEAK STAGE	6.38	6.38	Jun 11 1996
ANNUAL RUNOFF (AC-FT)	34220	34150	
10 PERCENT EXCEEDS	176	222	
50 PERCENT EXCEEDS	10	13	
90 PERCENT EXCEEDS	2.7	3.4	



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

451

LOCATION.--Lat 43°37'09", long 110°46'27", in SE 1/4 SE 1/4 NW 1/4 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.

PERIOD OF RECORD.--June 1995 to current year (no winter records).

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

REMARKS.--Estimated daily discharges: Sept. 23-30. 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:

Oct.	11	.	.	.51.6
Nov.	29	.	.	. 2.98
Jan.	17	.	.	. 0.98

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	2.4	1.5	22	25	88	173
2	---	---	---	---	---	---	2.3	1.5	21	64	85	171
3	---	---	---	---	---	---	2.1	1.5	21	63	83	171
4	---	---	---	---	---	---	1.9	1.5	21	64	80	170
5	---	---	---	---	---	---	1.6	1.5	21	67	77	171
6	---	---	---	---	---	---	1.6	1.5	21	68	122	171
7	---	---	---	---	---	---	1.5	1.5	21	31	156	171
8	---	---	---	---	---	---	1.5	43	21	11	146	168
9	---	---	---	---	---	---	1.5	68	20	10	140	166
10	---	---	---	---	---	---	1.5	69	16	9.5	137	159
11	---	---	---	---	---	---	1.5	70	6.2	9.4	134	153
12	---	---	---	---	---	---	1.5	70	5.8	19	131	153
13	---	---	---	---	---	---	1.4	71	5.5	44	128	153
14	---	---	---	---	---	---	1.4	81	5.5	43	127	155
15	---	---	---	---	---	---	1.4	86	5.4	42	167	157
16	---	---	---	---	---	---	1.4	27	5.1	40	199	158
17	---	---	---	---	---	---	1.4	4.0	5.1	40	197	162
18	---	---	---	---	---	---	1.4	4.0	5.1	33	195	158
19	---	---	---	---	---	---	1.4	4.1	5.1	28	193	156
20	---	---	---	---	---	---	1.4	3.9	5.1	78	192	156
21	---	---	---	---	---	---	1.4	53	4.9	109	189	113
22	---	---	---	---	---	---	1.4	79	4.6	106	187	94
23	---	---	---	---	---	---	1.4	97	4.6	104	186	94
24	---	---	---	---	---	---	1.5	129	4.5	101	184	88
25	---	---	---	---	---	---	1.6	150	4.4	98	182	88
26	---	---	---	---	---	---	1.6	156	4.4	97	181	87
27	---	---	---	---	---	---	1.6	157	4.4	94	178	85
28	---	---	---	---	---	---	1.5	157	4.5	92	181	84
29	---	---	---	---	---	---	1.5	153	4.5	94	177	85
30	---	---	---	---	---	---	1.5	129	4.4	93	177	86
31	---	---	---	---	---	---	---	58	---	91	175	---
TOTAL	---	---	---	---	---	---	47.1	1929.5	304.1	1867.9	4774	4156
MEAN	---	---	---	---	---	---	1.57	62.2	10.1	60.3	154	139
MAX	---	---	---	---	---	---	2.4	157	22	109	199	173
MIN	---	---	---	---	---	---	1.4	1.5	4.4	9.4	77	84
AC-FT	---	---	---	---	---	---	93	3830	603	3700	9470	8240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	1.57	62.2	10.1	50.9	162	116
MAX	---	---	---	---	---	1.57	62.2	10.1	60.3	169	139
(WY)	---	---	---	---	---	1996	1996	1996	1996	1995	1996
MIN	---	---	---	---	---	1.57	62.2	10.1	41.6	154	93.5
(WY)	---	---	---	---	---	1996	1996	1996	1995	1996	1995

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

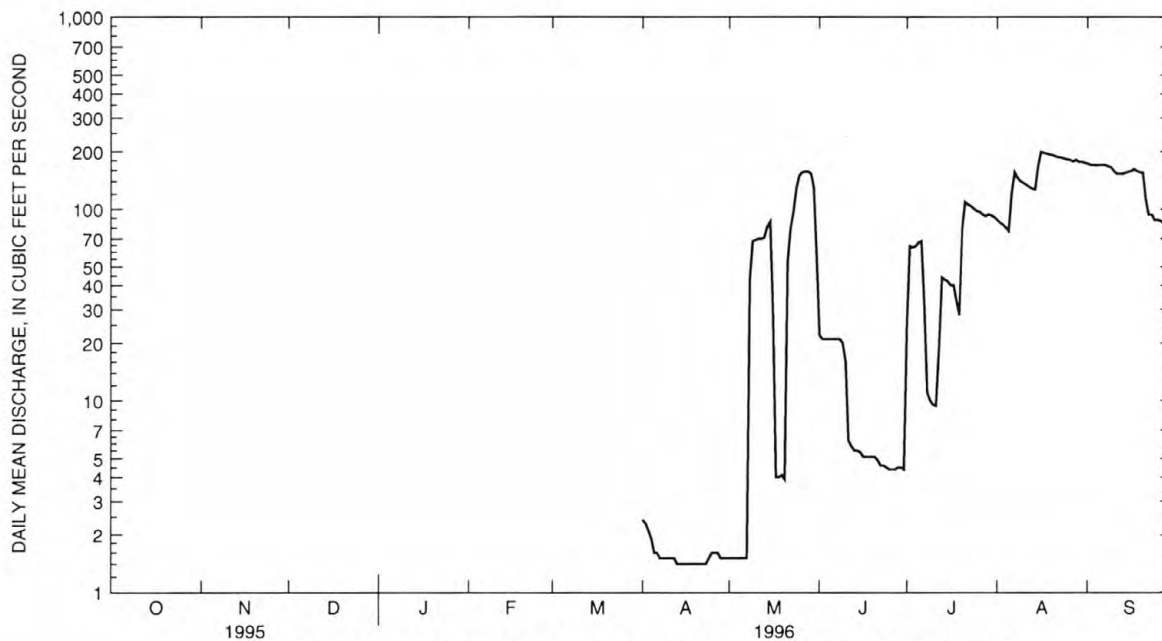
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1995 - 1996*

HIGHEST DAILY MEAN	199	Aug 16	199	Aug 16	1996
LOWEST DAILY MEAN	1.4	Apr 13-23	1.4	Apr 13-23	1996
INSTANTANEOUS PEAK FLOW	205	Aug 15	205	Aug 15	1996
INSTANTANEOUS PEAK STAGE	3.95	Aug 15	3.95	Aug 15	1996
10 PERCENT EXCEEDS	--		173		
50 PERCENT EXCEEDS	--		75		
90 PERCENT EXCEEDS	--		1.5		

* During period of operation.



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

453

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.

PERIOD OF RECORD.--June 1995 to current year (no winter records).

REMARKS.--No estimated daily discharges. 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 measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 11	.	.	.	0.83
Oct. 13	.	.	.	14.2
Oct. 13	.	.	.	54.6

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	107	84	134	167
2	---	---	---	---	---	---	---	.00	110	130	129	165
3	---	---	---	---	---	---	---	.00	127	136	124	164
4	---	---	---	---	---	---	---	.00	161	144	116	162
5	---	---	---	---	---	---	---	.00	159	149	108	162
6	---	---	---	---	---	---	---	.00	153	146	129	162
7	---	---	---	---	---	---	---	.00	148	115	145	162
8	---	---	---	---	---	---	---	.00	144	96	139	160
9	---	---	---	---	---	---	---	.00	154	105	138	158
10	---	---	---	---	---	---	---	.00	161	122	143	153
11	---	---	---	---	---	---	---	.00	159	137	144	146
12	---	---	---	---	---	---	---	.00	154	151	141	144
13	---	---	---	---	---	---	---	.00	151	156	139	145
14	---	---	---	---	---	---	---	48	150	151	139	147
15	---	---	---	---	---	---	---	141	155	146	169	151
16	---	---	---	---	---	---	---	142	160	144	198	151
17	---	---	---	---	---	---	---	146	160	143	198	155
18	---	---	---	---	---	---	---	140	156	134	198	153
19	---	---	---	---	---	---	---	116	123	126	194	149
20	---	---	---	---	---	---	---	95	97	145	190	148
21	---	---	---	---	---	---	---	107	94	159	186	114
22	---	---	---	---	---	---	---	123	93	155	184	94
23	---	---	---	---	---	---	---	126	84	156	181	78
24	---	---	---	---	---	---	---	140	79	153	178	63
25	---	---	---	---	---	---	---	147	82	149	177	58
26	---	---	---	---	---	---	---	154	86	148	175	51
27	---	---	---	---	---	---	---	155	87	144	174	44
28	---	---	---	---	---	---	---	161	77	141	178	34
29	---	---	---	---	---	---	---	167	61	143	176	27
30	---	---	---	---	---	---	---	165	60	143	173	22
31	---	---	---	---	---	---	---	131	---	139	171	---
TOTAL	---	---	---	---	---	---	---	2404.00	3692	4290	4968	3689
MEAN	---	---	---	---	---	---	---	77.5	123	138	160	123
MAX	---	---	---	---	---	---	---	167	161	159	198	167
MIN	---	---	---	---	---	---	---	.00	60	84	108	22
AC-FT	---	---	---	---	---	---	---	4770	7320	8510	9850	7320

MEAN	---	---	---	---	---	---	77.5	123	133	159	89.2
MAX	---	---	---	---	---	---	77.5	123	138	160	123
(WY)	---	---	---	---	---	---	1996	1996	1996	1996	1996
MIN	---	---	---	---	---	---	77.5	123	128	158	55.5
(WY)	---	---	---	---	---	---	1996	1996	1995	1995	1995

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

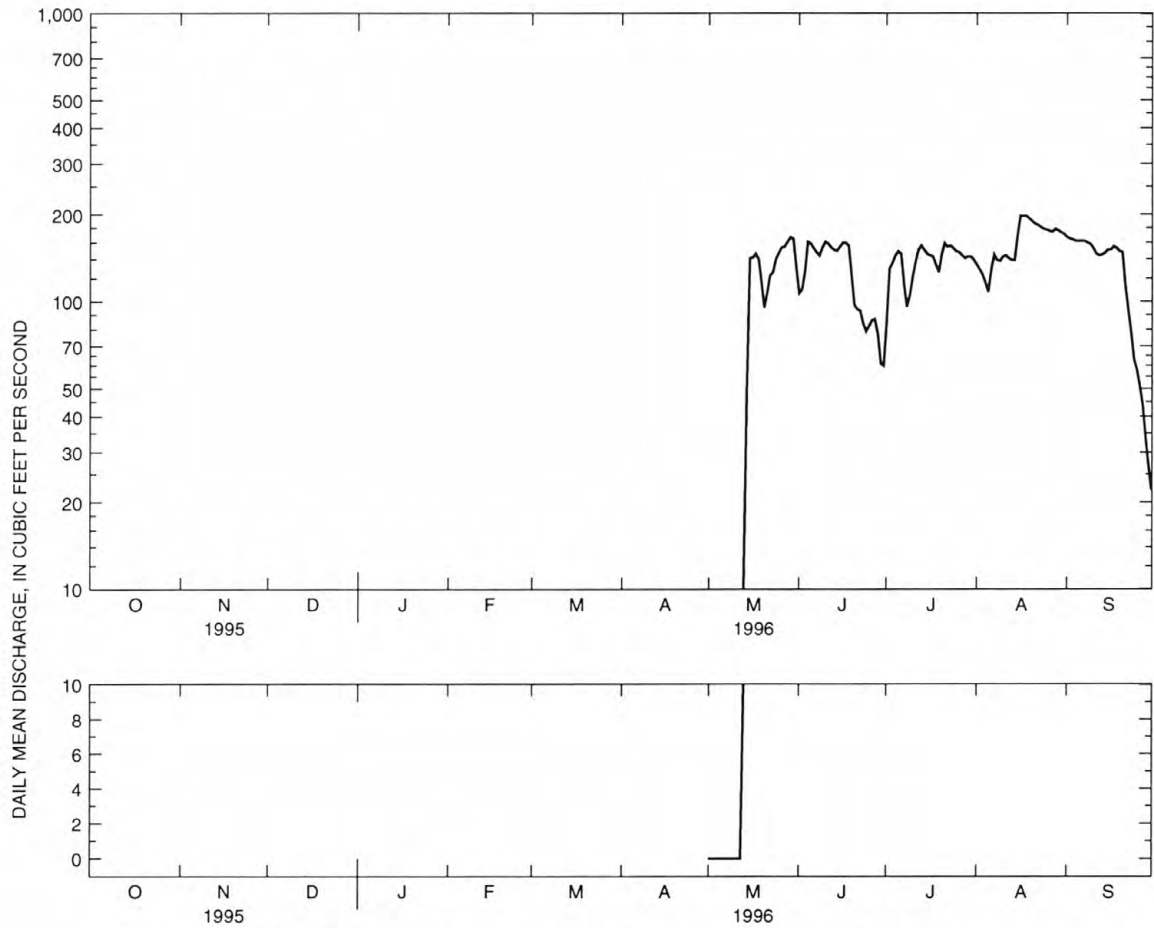
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1995 - 1996*

HIGHEST DAILY MEAN	198	Aug 16-18	198	Aug 16-18 1996
LOWEST DAILY MEAN	.00	May 1-13	.00	May 1-13 1996
INSTANTANEOUS PEAK FLOW	201	Aug 17	201	Aug 17 1996
INSTANTANEOUS PEAK STAGE	3.40	Aug 17	3.40	Aug 17 1996
10 PERCENT EXCEEDS	--		169	
50 PERCENT EXCEEDS	--		141	
90 PERCENT EXCEEDS	--		33	

* During period of operation.



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

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. 12-14, Nov. 30 to Dec. 2, Dec. 12-14, 23-28, Jan. 14, 18, 23, 27, 28, Jan. 31 to Feb. 5, and Feb. 28, 29. Records good except those for estimated daily discharges and those for Apr. 16 to May 14, which are fair. 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	64	59	50	43	43	45	84	351	631	259	217
2	109	61	61	48	43	42	48	84	336	665	251	212
3	107	59	62	49	43	42	51	84	362	702	243	210
4	104	58	62	49	43	43	53	81	450	725	237	207
5	100	58	61	49	43	42	54	80	580	752	228	208
6	101	60	60	46	43	42	57	78	683	762	215	212
7	104	59	58	46	44	41	61	77	694	715	230	210
8	104	59	58	46	47	41	71	78	705	620	228	209
9	93	63	55	44	48	41	79	97	772	546	222	207
10	97	61	55	44	48	41	88	104	875	509	212	202
11	96	59	57	44	46	41	93	110	973	515	203	199
12	94	61	59	44	46	42	92	125	990	483	202	197
13	94	63	61	44	46	42	87	173	969	463	200	194
14	96	64	64	44	45	42	86	179	951	449	198	193
15	96	66	66	44	44	42	86	181	966	428	197	196
16	94	64	65	44	43	43	83	291	1040	413	210	200
17	93	63	63	43	43	43	84	431	1040	411	224	206
18	95	61	59	43	44	43	83	485	1010	391	233	210
19	93	61	58	43	43	43	82	436	925	363	236	211
20	91	59	56	43	43	43	81	372	826	348	237	214
21	89	58	54	43	43	43	79	321	761	347	233	217
22	86	58	54	42	43	43	77	306	784	337	228	201
23	82	58	52	43	43	44	79	301	788	325	227	194
24	79	57	52	44	43	43	90	304	745	314	225	196
25	71	56	51	43	43	43	107	304	725	303	224	182
26	72	57	51	43	43	42	107	345	719	286	223	169
27	69	57	52	41	43	42	106	353	731	277	223	161
28	68	56	53	42	43	42	95	392	762	275	227	151
29	67	57	53	44	43	42	88	425	695	275	225	146
30	66	58	53	43	---	42	86	450	646	281	224	140
31	65	---	53	43	---	42	---	414	---	271	219	---
TOTAL	2786	1795	1777	1378	1275	1310	2378	7545	22854	14182	6943	5871
MEAN	89.9	59.8	57.3	44.5	44.0	42.3	79.3	243	762	457	224	196
MAX	111	66	66	50	48	44	107	485	1040	762	259	217
MIN	65	56	51	41	43	41	45	77	336	271	197	140
AC-FT	5530	3560	3520	2730	2530	2600	4720	14970	45330	28130	13770	11650

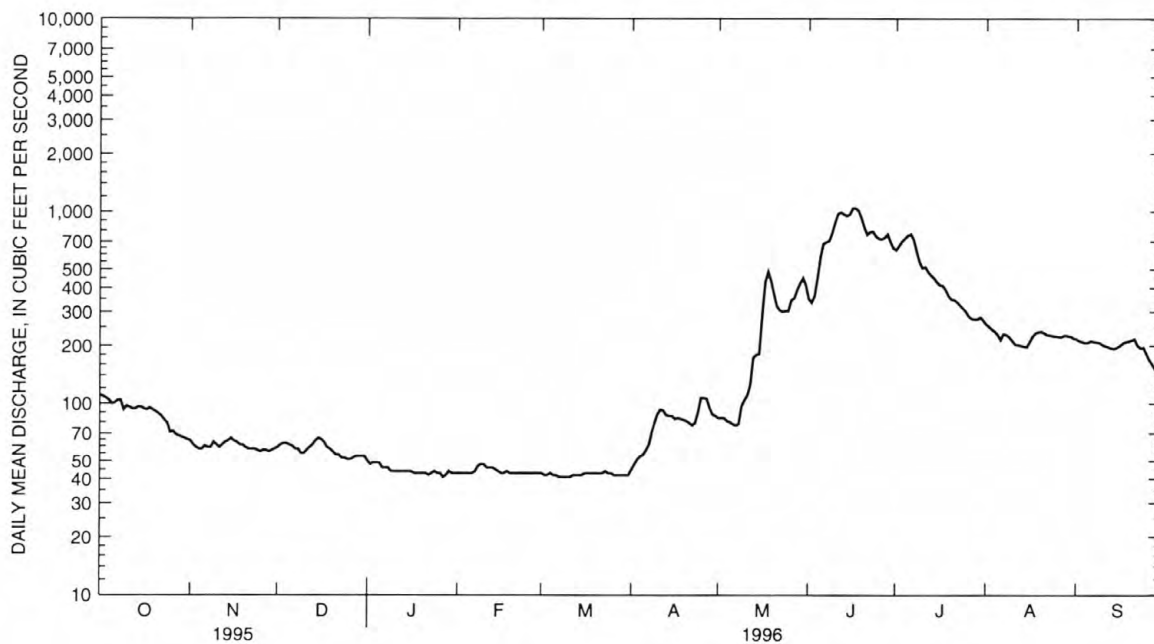
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	79.8	54.0	49.7	41.6	42.8	46.5	78.4	212	534	421	241	162
MAX	89.9	59.8	57.3	44.5	44.0	50.8	86.2	254	762	527	255	196
(WY)	1996	1996	1996	1996	1996	1995	1995	1994	1996	1995	1994	1996
MIN	69.7	48.3	42.1	38.8	41.6	42.3	69.7	139	351	280	224	137
(WY)	1995	1995	1995	1995	1995	1996	1994	1995	1994	1994	1996	1994

FISH CREEK BASIN

13016450 FISH CREEK AT WILSON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	60321		70094		--	
ANNUAL MEAN	165		192		176	
HIGHEST ANNUAL MEAN	--		--		192	1996
LOWEST ANNUAL MEAN	--		--		161	1995
HIGHEST DAILY MEAN	816	Jul 13	1040	Jun 16,17	1040	Jun 16,17 1996
LOWEST DAILY MEAN	36	Jan 4	41	Jan 27, Mar 7-11	36	Jan 4 1995
ANNUAL SEVEN-DAY MINIMUM	38	Jan 1	41	Mar 5	37	Dec 31 1994
INSTANTANEOUS PEAK FLOW	--		1080	Jun 16	1080	Jun 16 1996
INSTANTANEOUS PEAK STAGE	--		5.14	Jun 16	5.14	Jun 16 1996
ANNUAL RUNOFF (AC-FT)	119600		139000		127800	
10 PERCENT EXCEEDS	469		511		435	
50 PERCENT EXCEEDS	90		84		95	
90 PERCENT EXCEEDS	40		43		42	



13016450 FISH CREEK AT WILSON, WY

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic benchmark 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. 2-6, 9, 11-13, 21, Dec. 3, 8, 9, Dec. 18 to Jan. 16. Records fair except those for estimated daily discharges, which are poor. Data collection platform with satellite telemetry at station.

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)
May 18	0400	64	3.64
June 10	0345	*166	*4.30

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	7.1	6.7	4.7	4.6	4.4	4.6	8.5	53	49	20	12
2	8.8	7.0	6.7	4.5	4.6	4.4	4.5	8.5	56	48	20	12
3	8.8	6.8	6.7	4.2	4.6	4.4	4.4	8.5	66	48	19	11
4	9.0	6.6	6.7	4.1	4.6	4.3	4.4	8.4	84	46	19	11
5	8.8	6.4	7.2	4.1	4.6	4.3	4.4	8.5	94	46	18	11
6	8.6	6.6	6.3	4.2	4.6	4.3	4.4	8.7	110	45	18	11
7	8.6	6.8	6.4	4.5	4.6	4.3	4.7	9.5	107	43	17	11
8	8.6	6.6	6.4	4.8	4.6	4.3	5.5	10	125	41	17	11
9	8.5	6.6	6.3	5.2	4.4	4.3	6.2	12	143	40	17	11
10	8.5	6.6	6.3	5.1	4.6	4.3	7.6	13	151	38	16	11
11	8.4	6.6	6.2	5.0	4.6	4.3	8.1	16	134	36	16	11
12	8.2	6.8	6.2	4.9	4.6	4.3	7.4	21	121	35	16	11
13	8.1	6.8	6.7	4.8	4.6	4.3	7.0	27	114	34	16	11
14	8.2	6.8	6.4	4.8	4.6	4.3	6.8	31	109	33	16	11
15	8.2	6.8	6.3	4.7	4.6	4.3	6.8	35	105	32	15	11
16	8.2	6.8	6.4	4.7	4.6	4.3	7.0	45	101	32	15	11
17	7.9	6.7	6.3	4.8	4.6	4.3	7.3	55	98	30	15	11
18	8.1	6.6	6.0	3.7	4.6	4.3	7.3	59	92	29	14	11
19	8.0	6.6	5.7	4.6	4.4	4.3	7.2	49	83	29	14	10
20	7.9	6.6	5.4	4.4	4.4	4.4	7.1	41	76	28	14	10
21	7.9	6.6	5.0	4.5	4.4	4.4	7.1	38	73	28	14	10
22	7.9	6.6	4.8	4.4	4.4	4.4	7.1	39	70	27	13	10
23	8.8	6.4	4.6	4.4	4.4	4.4	7.1	39	67	26	13	9.8
24	7.9	6.3	4.5	4.4	4.4	4.4	7.8	36	65	25	13	9.8
25	7.7	6.3	4.5	4.4	4.4	4.8	8.2	36	63	24	13	9.8
26	7.6	6.7	4.5	4.4	4.4	5.6	8.0	41	62	24	13	9.8
27	7.5	6.4	4.6	4.4	4.3	5.1	8.5	43	62	23	12	9.5
28	7.3	6.3	4.7	4.4	4.0	4.8	8.5	48	59	22	13	9.5
29	7.3	6.2	4.8	4.4	4.3	4.8	8.5	54	53	23	12	9.5
30	7.3	6.2	5.0	4.4	---	4.8	8.5	56	50	22	12	9.5
31	7.3	---	5.2	4.6	---	4.7	---	54	---	21	12	---
TOTAL	252.9	198.2	179.5	140.5	130.4	138.6	202.0	958.6	2646	1027	472	317.2
MEAN	8.16	6.61	5.79	4.53	4.50	4.47	6.73	30.9	88.2	33.1	15.2	10.6
MAX	9.0	7.1	7.2	5.2	4.6	5.6	8.5	59	151	49	20	12
MIN	7.3	6.2	4.5	3.7	4.0	4.3	4.4	8.4	50	21	12	9.5
AC-FT	502	393	356	279	259	275	401	1900	5250	2040	936	629

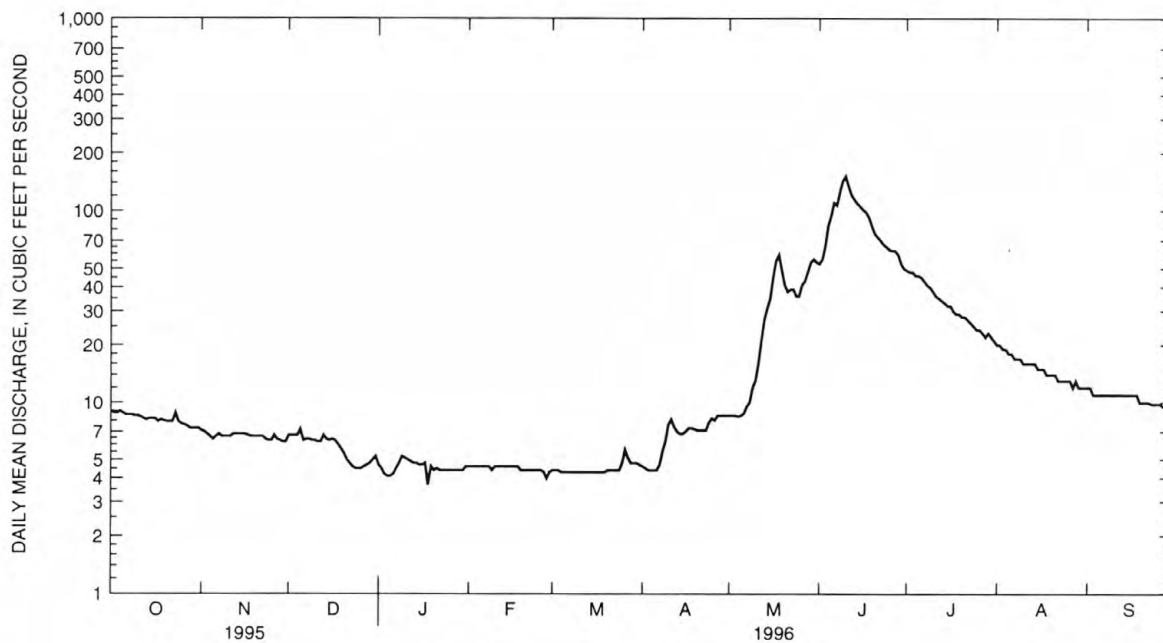
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

	6.74	5.62	4.85	4.23	3.93	3.99	6.47	25.3	49.4	24.3	12.1	8.32
MEAN	6.74	5.62	4.85	4.23	3.93	3.99	6.47	25.3	49.4	24.3	12.1	8.32
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

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1962 - 1996
ANNUAL TOTAL	5503.0	6662.9	--
ANNUAL MEAN	15.1	18.2	12.9
HIGHEST ANNUAL MEAN	--	--	20.2
LOWEST ANNUAL MEAN	--	--	5.64
HIGHEST DAILY MEAN	81 Jun 14	151 Jun 10	161 Jun 24 1971
LOWEST DAILY MEAN	3.1 Jan 2	3.7 Jan 18	1.1 Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	3.4 Jan 1	4.3 Feb 27	1.3 Dec 20 1990
INSTANTANEOUS PEAK FLOW	--	166 Jun 10	225 ^a Jun 24 1971
INSTANTANEOUS PEAK STAGE	--	4.30 Jun 10	4.30 Jun 10 1996
ANNUAL RUNOFF (AC-FT)	10920	13220	9380
10 PERCENT EXCEEDS	44	49	33
50 PERCENT EXCEEDS	7.5	7.9	6.4
90 PERCENT EXCEEDS	3.8	4.4	3.6

a Gage height, 3.90 ft.



13018300 CACHE CREEK NEAR JACKSON, WY

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
OCT 26...	1320	7.6	308	8.6	1.5	4.0	590	0.3	10.8	100	K2
JUN 11...	1020	118	304	8.4	5.0	13.5	599	51	9.6	96	K2

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

DATE	STREP-TOCOCCHI, 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)	ALKA-LINITY TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB AS (MG/L AS CACO3) (90410)
OCT 26...	K11	160	42	14	1.9	0.1	0.50	192	5	165	171
JUN 11...	K3	160	44	11	1.7	0.1	0.60	206	0	169	165

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

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)
OCT 26...	3.1	0.5	0.2	4.6	173	166	0.24	3.55	<0.01	0.07	<0.02
JUN 11...	2.8	0.4	<0.1	4.1	124	166	0.17	39.5	<0.01	0.09	<0.02

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS 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)	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 26...	<0.2	<0.01	<0.01	<10	30	<3	4	<4	1	<10
JUN 11...	0.3	0.16	0.02	10	43	<3	5	<4	<1	<10

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)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM, NATURAL DIS-SOLVED (UG/L AS U) (22703)	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 26...	<1	<1	<1.0	59	<6	0.07	0.34	21	0.43	66
JUN 11...	1	5	<1.0	71	<6	0.08	0.24	277	88	1

MEAN	---	---	---	---	---	---	62.2	99.9	137	125	92.3	59.2
MAX	---	---	---	---	---	---	70.1	123	218	189	162	84.2
(WY)	---	---	---	---	---	---	1990	1993	1996	1995	1993	1991
MIN	---	---	---	---	---	---	55.3	82.1	57.1	58.3	40.5	30.7
(WY)	---	---	---	---	---	---	1993	1989	1992	1992	1992	1992

FLAT CREEK BASIN

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13018350 FLAT CREEK BELOW CACHE CREEK, NEAR JACKSON, WY--Continued

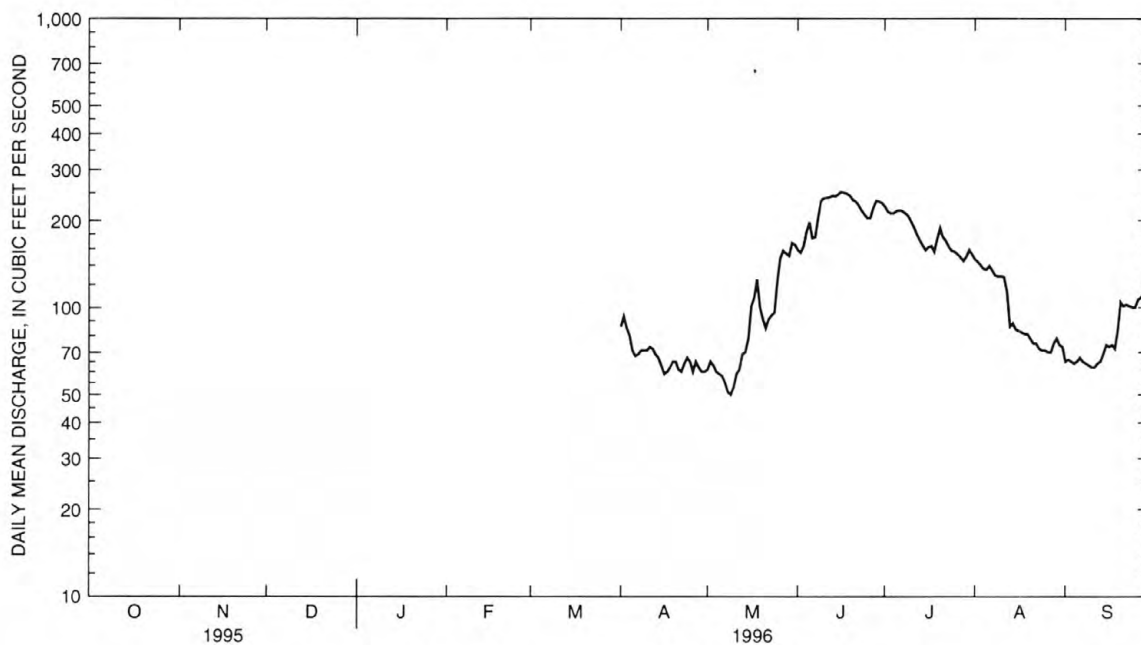
SUMMARY STATISTICS

FOR 1996 WATER YEAR*

WATER YEARS 1989 - 1996*

HIGHEST DAILY MEAN	252	Jun 16	256	Jul 13 1995
LOWEST DAILY MEAN	50	May 9	23	Aug 30, 1990
ANNUAL SEVEN-DAY MINIMUM	--		24	Sep 1 1990
INSTANTANEOUS PEAK FLOW	258	Jun 28	277	Aug 29 1990
INSTANTANEOUS PEAK STAGE	2.78	Jun 28	2.95	Jul 12 1995
10 PERCENT EXCEEDS	--		165	
50 PERCENT EXCEEDS	--		80	
90 PERCENT EXCEEDS	--		45	

* During period of operation.



13018350 FLAT CREEK BELOW CACHE 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.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Station equipment includes data collection platform with satellite telemetry. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft³/s, June 6, 1986, gage height, 10.22 ft; minimum daily, 690 ft³/s, Jan. 19, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,800 ft³/s, June 11, gage height, 10.12 ft; minimum daily, 1,300 ft³/s, Feb. 3.

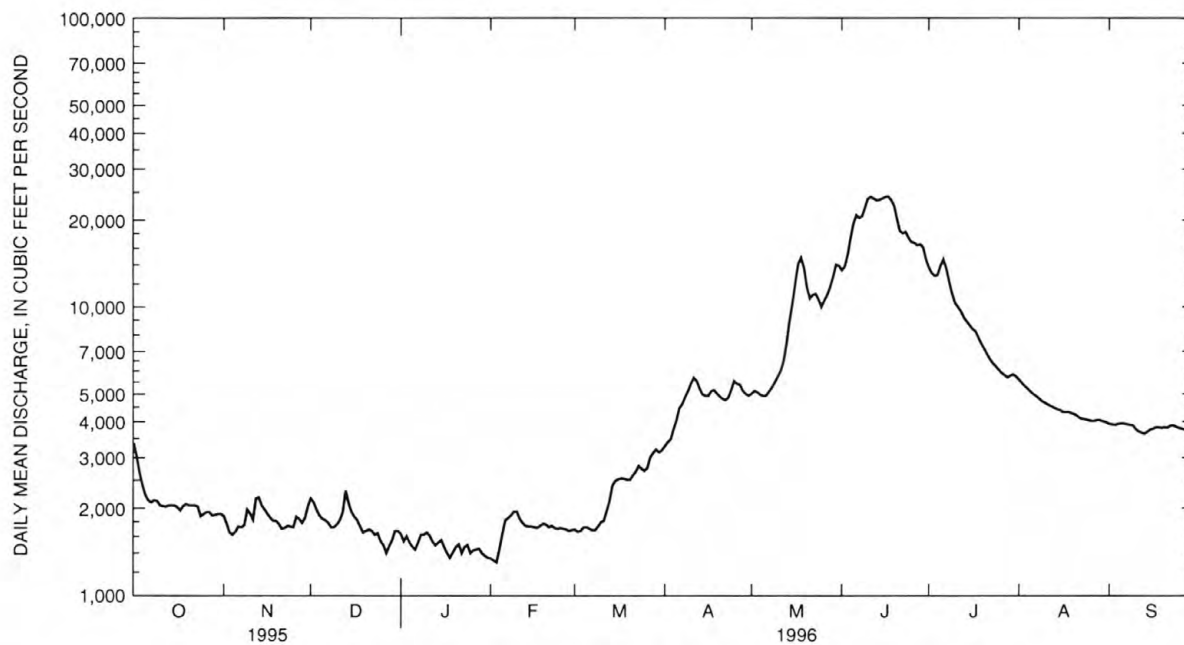
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3360	1880	2160	1630	e1340	1690	3280	5000	13400	13700	5600	3920
2	3040	1770	2100	e1540	e1320	1660	3390	5110	13800	13100	5450	3900
3	2660	1650	1980	e1600	e1300	1670	3460	5060	15100	12800	5320	3890
4	2410	1620	1890	e1520	e1450	1720	3760	4950	17300	12900	5210	3920
5	2230	1660	1840	e1470	e1630	1720	4030	4910	19500	13900	5080	3930
6	2130	1730	1820	e1440	1820	1700	4450	4920	20800	14600	4970	3930
7	2100	1720	1780	e1520	1850	1680	4600	5090	20400	13600	4900	3910
8	2130	1750	1720	1620	1890	1680	4850	5260	20600	12200	4800	3890
9	2120	1980	1720	1620	1950	1730	5100	5480	22000	11100	4700	3880
10	2050	1920	1760	1650	1950	1790	5410	5720	23700	10300	4640	3760
11	2040	1830	1820	1610	1840	1810	5670	5990	24100	10000	4580	3690
12	2030	2160	1940	e1530	1780	1960	5550	6470	23800	9640	4530	3660
13	2050	2180	2300	e1490	1740	2120	5220	7410	23400	9170	4470	3630
14	2050	2050	2090	e1520	1730	2400	4970	8820	23500	8880	4420	3680
15	2050	1990	1950	e1550	1730	2490	4910	10300	23800	8610	4390	3750
16	2020	1920	1870	e1470	1720	2520	4920	12100	24100	8350	4320	3770
17	1970	1860	1820	e1400	1710	2540	5100	14100	24200	8210	4320	3820
18	2040	1810	1730	e1350	1740	2530	5150	14800	23500	7810	4320	3820
19	2070	1810	1650	e1410	1770	2510	5010	13700	22500	7450	4280	3790
20	2050	1770	e1670	e1470	1760	2510	4890	11700	20300	7140	4240	3820
21	2050	1700	e1690	e1500	1720	2600	4790	10700	18400	6860	4180	3800
22	2050	1710	e1670	e1400	1740	2670	4750	11000	18000	6580	4100	3860
23	2030	1740	e1620	e1470	1710	2800	4840	11100	18200	6380	4080	3870
24	1880	1730	e1640	e1490	1700	2740	5160	10600	17400	6220	4060	3830
25	1910	1720	e1540	e1400	1710	2690	5520	10000	16800	6050	4030	3790
26	1940	1870	e1490	e1430	1700	2760	5420	10500	16700	5910	4010	3770
27	1940	1840	e1400	e1440	1690	3000	5380	11000	16400	5790	4020	3750
28	1890	1780	e1480	e1450	1670	3110	5120	11700	16500	5690	4050	3720
29	1900	1850	e1550	e1400	1680	3190	4990	12700	16100	5770	4030	3700
30	1910	2030	1670	e1370	---	3130	4920	14000	14600	5830	4000	3680
31	1910	---	1670	e1350	---	3170	---	13900	---	5740	3960	---
TOTAL	66010	55030	55030	46110	49340	72290	144610	284090	588900	280280	139060	114130
MEAN	2129	1834	1775	1487	1701	2332	4820	9164	19630	9041	4486	3804
MAX	3360	2180	2300	165								

MEAN	1796	1519	1778	1257	1285	1514	2608	6514	10820	6749	4279	3334
MAX	3093	2747	1998	1899	1701	2689	5435	10840	19630	14090	7253	6464
(WY)	1983	1984	1984	1983	1996	1986	1985	1976	1996	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

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1976 - 1996
ANNUAL TOTAL	1422660		1894880		--
ANNUAL MEAN	3898		5177		3541
HIGHEST ANNUAL MEAN	--		--		5177
LOWEST ANNUAL MEAN	--		--		2469
HIGHEST DAILY MEAN	15900	Jun 7	24200	Jun 17	24900
LOWEST DAILY MEAN	920	Jan 4	1300	Feb 3	690
ANNUAL SEVEN-DAY MINIMUM	983	Jan 1	1360	Jan 28	785
ANNUAL RUNOFF (AC-FT)	2822000		3758000		2565000
10 PERCENT EXCEEDS	11500		13700		8460
50 PERCENT EXCEEDS	1970		3320		2030
90 PERCENT EXCEEDS	1090		1620		1110

e Estimated.

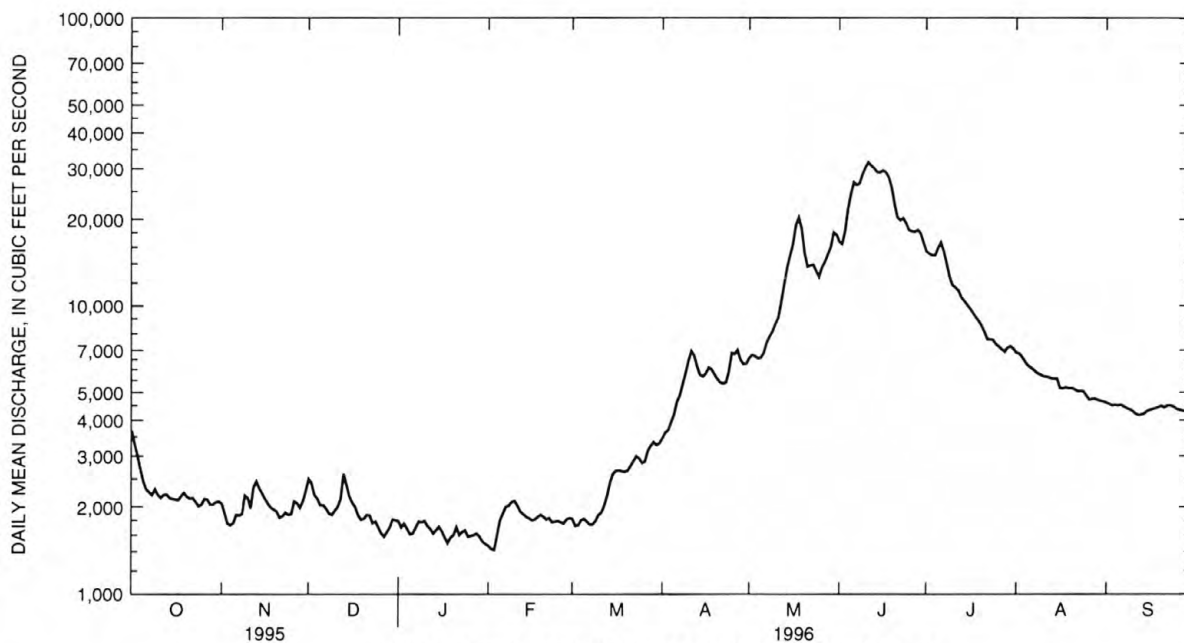


13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	1679520		2263100		--	
ANNUAL MEAN	4601		6183		4512	
HIGHEST ANNUAL MEAN	--		--		6587	
LOWEST ANNUAL MEAN	--		--		2726	
HIGHEST DAILY MEAN	18900		31600		31600	
LOWEST DAILY MEAN	1120		1420		900	
ANNUAL SEVEN-DAY MINIMUM	1190		1500		957	
ANNUAL RUNOFF (AC-FT)	3331000		4489000		3269000	
10 PERCENT EXCEEDS	13500		16400		10700	
50 PERCENT EXCEEDS	2340		3540		2410	
90 PERCENT EXCEEDS	1310		1730		1310	

e Estimate.



13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

GREYS RIVER BASIN

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, and 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 those for estimated daily discharges and discharges from May 17 to Aug. 8, which are poor. Station equipment includes data collection platform with satellite telemetry. Less than 500 acres irrigated by diversions from Greys River and tributaries upstream from station. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft³/s, June 19, 1971, gage height, 6.33 ft; maximum gage height observed, 19.1 ft, former site and datum about Dec. 18, 1965, backwater from ice; minimum, 84 ft³/s, Feb. 17, 1986, result of current meter measurement.

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)
May 18	--	^a 4,480	--
June 9	--	*4,240	--

^a Maximum daily discharge used.

Minimum daily, 170 ft³/s, Feb. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	e260	400	e280	e210	242	336	1100	2810	1760	665	446
2	372	259	395	e270	e190	248	403	1130	2960	1800	650	445
3	369	e260	324	e280	e170	231	428	1130	3120	1790	652	440
4	398	e270	361	e280	e190	240	430	1110	3510	1770	639	439
5	377	e280	313	e270	e220	239	428	1180	4010	1850	633	437
6	364	e280	336	267	e240	232	460	1290	4090	1740	624	437
7	367	288	318	288	e260	228	533	1510	3800	1550	611	436
8	374	291	302	298	e270	221	733	1620	3920	1440	574	435
9	362	333	299	303	e290	223	997	1690	4240	1360	575	426
10	354	305	320	312	e270	227	1270	1650	4130	1290	563	425
11	347	293	314	296	e240	234	1360	1720	3970	1250	556	425
12	350	382	322	273	e220	244	1140	2110	3790	1180	541	424
13	352	399	401	281	e230	239	941	2360	3600	1140	536	420
14	341	386	365	303	e230	232	828	e2690	3450	1100	540	415
15	333	365	328	314	e230	239	800	e2800	3240	1060	541	420
16	332	340	322	317	e230	250	866	e2900	3030	1070	530	411
17	329	322	331	323	e230	257	893	3630	2840	1010	522	417
18	325	310	274	260	e240	247	811	4480	2780	949	524	420
19	322	317	236	284	e240	243	749	3610	2610	918	514	420
20	305	305	e230	298	e240	261	694	3080	2400	878	509	425
21	315	291	e250	312	245	289	657	2980	2310	851	498	414
22	314	306	e240	303	246	e290	633	2830	2260	813	495	406
23	288	300	e230	292	241	e300	616	2680	2210	803	487	397
24	293	296	e220	e300	237	e309	746	2460	2150	775	480	396
25	e300	296	e220	e280	238	283	949	2420	2180	766	474	394
26	e290	341	e220	e290	236	285	982	2670	2120	749	476	388
27	e290	322	e210	e280	230	294	1090	2630	2130	730	477	387
28	e270	315	e240	e280	202	e300	935	2780	2160	722	486	383
29	e270	356	e260	e280	215	e310	937	2760	1940	712	475	382
30	e260	359	e270	e270	---	302	1010	2970	1790	708	461	377
31	e260	---	e280	e250	---	303	---	2880	---	685	455	---
TOTAL	10203	9427	9131	8934	6730	8042	23655	72850	89550	35219	16763	12487
MEAN	329	314	295	288	232	259	788	2350	2985	1136	541	416
MAX	398	399	401	323	290	310	1360	4480	4240	1850	665	446
MIN	260	259	210	250	170	221	336	1100	1790	685	455	377
AC-FT	20240	18700	18110	17720	13350	15950	46920	144500	177600	69860	33250	24777

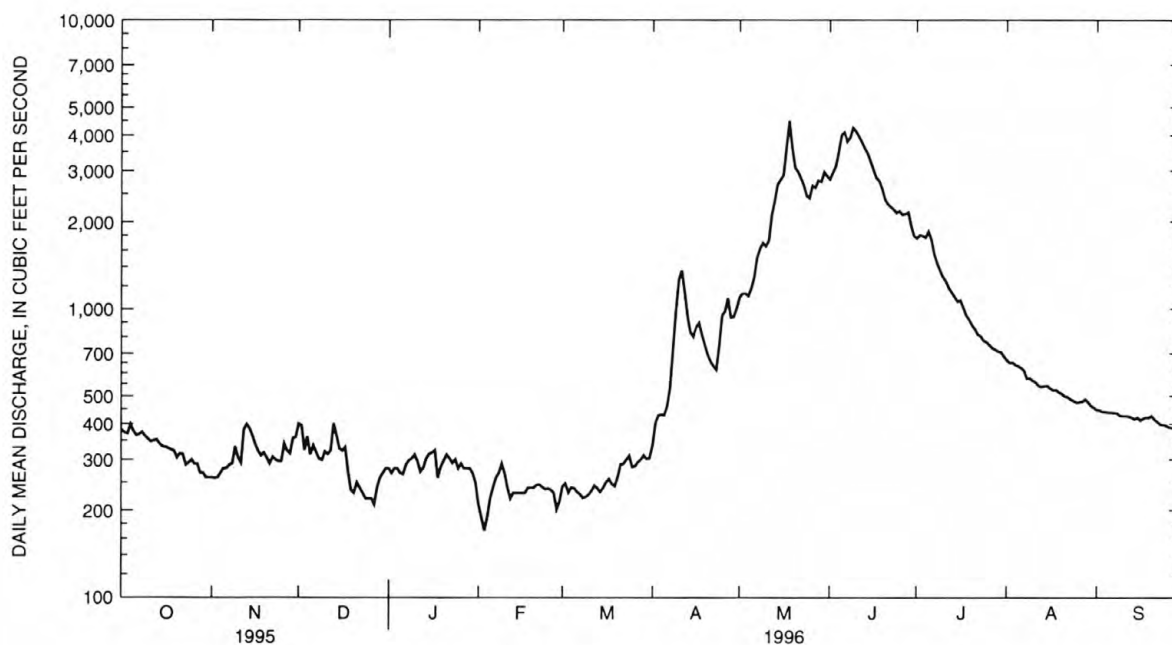
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

MEAN	313	265	233	213	205	227	627	1769	2012	946	480	365
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

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	245687		302991		--	
ANNUAL MEAN	673		828		643	
HIGHEST ANNUAL MEAN	--		--		1022	
LOWEST ANNUAL MEAN	--		--		259	
HIGHEST DAILY MEAN	2790	Jun 14	4480	May 18	6170	Jun 19 1971
LOWEST DAILY MEAN	120	Jan 4	170	Feb 3	92	Jan 2 1978
ANNUAL SEVEN-DAY MINIMUM	134	Jan 1	210	Jan 31	124	Feb 26 1993
ANNUAL RUNOFF (AC-FT)	487300		601000		465600	
ANNUAL RUNOFF (CFSM)	1.50		1.85		1.43	
ANNUAL RUNOFF (INCHES)	20.40		25.16		19.49	
10 PERCENT EXCEEDS	1840		2430		1730	
50 PERCENT EXCEEDS	387		387		315	
90 PERCENT EXCEEDS	204		240		189	

e Estimated.



13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¹/₄ NE¹/₄ 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.

DRAINAGE AREA.--829 mi².

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

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

REMARKS.--No estimated daily discharges. Records good. Station equipment includes data collection platform with satellite telemetry. Diversions upstream from station for power developments, industry, municipal supply, and irrigation of about 60,500 acres, of which about 1,000 acres are downstream from station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,090 ft³/s, June 2, 1986, gage height, 5.71 ft; minimum, 160 ft³/s, Jan. 7, 8, 1971, gage height, 1.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,880 ft³/s, May 18, 19, gage height, 5.26 ft; minimum daily, 326 ft³/s, Feb. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	636	713	513	363	455	586	1470	2590	1470	745	633
2	659	624	718	491	338	460	676	1540	2480	1420	741	629
3	661	616	674	523	326	454	734	1510	2480	1370	732	632
4	672	615	687	526	345	466	770	1480	2580	1300	719	633
5	677	616	687	521	403	467	769	1470	2730	1340	714	637
6	671	623	673	505	436	453	797	1490	2830	1330	695	638
7	682	623	655	522	473	446	862	1640	2890	1290	673	636
8	686	622	625	520	520	445	1070	1670	2860	1240	664	630
9	680	656	618	515	519	444	1330	1700	2850	1190	665	630
10	663	646	634	522	497	445	1590	1760	2900	1140	651	625
11	652	630	626	515	481	448	1850	1840	2960	1070	658	629
12	652	724	640	494	471	458	1670	2060	2940	1040	653	638
13	649	808	743	483	472	461	1460	2270	2840	1000	641	640
14	643	756	713	487	471	455	1350	2550	2730	980	638	647
15	643	702	661	501	473	460	1380	2730	2660	958	637	657
16	640	667	637	522	473	466	1460	2790	2610	958	627	674
17	637	646	630	520	473	469	1470	3220	2510	937	637	697
18	639	633	603	458	477	463	1370	3690	2460	901	645	711
19	635	625	561	494	478	459	1270	3810	2390	869	640	697
20	630	616	536	482	487	464	1260	3520	2230	827	640	700
21	632	612	560	493	479	472	1190	3160	2020	801	637	686
22	642	609	528	482	489	486	1170	2940	1860	787	639	677
23	630	604	511	473	481	504	1190	2840	1770	768	643	670
24	632	597	505	492	478	507	1260	2630	1710	759	643	667
25	626	595	496	469	479	491	1390	2510	1640	751	647	664
26	640	625	489	488	481	486	1440	2680	1630	737	644	659
27	647	634	478	474	469	502	1580	2800	1610	735	642	661
28	641	630	480	482	441	509	1420	2660	1640	724	653	670
29	640	705	509	482	436	532	1370	2660	1650	767	650	668
30	636	718	534	469	---	527	1390	2720	1540	765	649	664
31	641	---	535	429	---	536	---	2720	---	752	643	---
TOTAL	20144	19413	18659	15347	13209	14690	37124	74530	70590	30976	20505	19699
MEAN	650	647	602	495	455	474	1237	2404	2353	999	661	657
MAX	686	808	743	526	520	536	1850	3810	2960	1470	745	711
MIN	626	595	478	429	326	444	586	1470	1540	724	627	625
AC-FT	39960	38510	37010	30440	26200	29140	73640	147800	140000	61440	40670	39070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1996, BY WATER YEAR (WY)

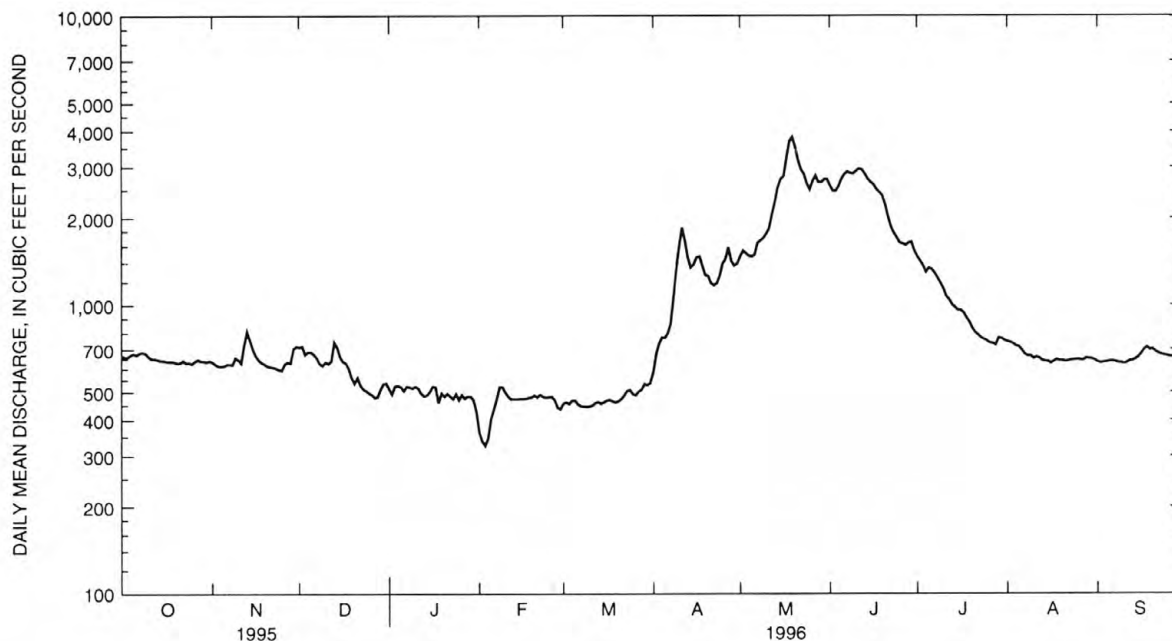
	MEAN	618	587	515	446	437	476	954	1706	1441	854	626	642
	MAX	912	838	712	583	702	1121	2204	3252	3356	1809	997	961
	(WY)	1983	1984	1984	1965	1963	1986	1986	1971	1971	1975	1983	1971
	MIN	336	347	342	318	309	362	503	306	275	271	266	342
	(WY)	1978	1978	1993	1993	1993	1988	1977	1977	1977	1977	1977	1977

SALT RIVER BASIN

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13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1954 - 1996	
ANNUAL TOTAL	313131		354886		--	
ANNUAL MEAN	858		970		776	
HIGHEST ANNUAL MEAN	--		--		1266	1986
LOWEST ANNUAL MEAN	--		--		430	1992
HIGHEST DAILY MEAN	2310	Jun 17	3810	May 19	5030	Jun 2 1986
LOWEST DAILY MEAN	265	Jan 4	326	Feb 3	180	Jan 7 1971
ANNUAL SEVEN-DAY MINIMUM	300	Jan 1	377	Jan 31	226	May 10 1977
ANNUAL RUNOFF (AC-FT)	621100		703900		562400	
ANNUAL RUNOFF (CFSM)	1.03		1.17		.94	
ANNUAL RUNOFF (INCHES)	14.05		15.92		12.72	
10 PERCENT EXCEEDS	1710		2410		1510	
50 PERCENT EXCEEDS	653		648		577	
90 PERCENT EXCEEDS	395		472		382	



13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

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 fair except those for estimated daily discharges and discharges above 300 ft³/s, which are poor. Station operated and record provided by Idaho District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 810 ft³/s, June 2, 1986; maximum gage height, 5.11 ft, May 9, 1989, backwater from Bechler River; minimum daily, 53 ft³/s, Feb. 4-6, 13-18, 21-24, Mar. 5, Apr. 5, 1989; minimum discharge, 52 ft³/s, Mar. 12, 1993, result of discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 580 ft³/s, May 16; minimum daily, 60 ft³/s, Feb. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	81	133	83	e65	e65	66	153	288	184	102	90
2	85	80	178	e80	e60	e65	70	165	282	177	101	90
3	85	79	135	e80	e65	e65	67	166	288	172	101	90
4	85	80	116	e80	e70	e70	66	167	306	164	101	90
5	85	81	106	e80	e65	e70	66	173	327	160	100	93
6	85	83	101	e75	e70	e70	67	207	338	152	103	91
7	85	83	98	e75	e70	e65	70	256	331	143	100	90
8	85	83	96	e80	e70	e65	76	293	337	137	99	89
9	85	99	94	e80	e70	e70	85	e310	e380	133	98	e88
10	85	88	96	e75	e70	e65	94	e340	e430	131	97	e86
11	84	88	94	e75	e70	e70	95	e365	e420	127	97	e85
12	84	98	103	e75	e70	e70	89	e400	e420	125	96	e84
13	84	98	127	e75	e70	e65	84	e440	e390	122	96	e88
14	84	112	109	e75	e70	e70	83	e470	e400	120	96	e90
15	84	112	103	e75	e70	e65	88	e530	e400	119	97	e94
16	84	106	101	e75	e70	e65	96	e580	e390	121	95	e106
17	84	102	98	e75	e70	e65	104	e520	e380	122	94	e100
18	84	100	97	e75	e70	e65	98	e460	e360	117	94	e95
19	84	105	95	e70	e70	e65	92	e350	e350	114	94	e92
20	83	97	94	e70	e70	e70	88	302	335	112	93	e92
21	83	90	92	e70	e70	e70	85	285	306	111	93	e94
22	84	89	91	e75	e70	e70	83	296	316	110	92	e96
23	82	91	89	e70	e65	e70	88	297	333	109	92	e93
24	82	94	88	e70	e70	e70	104	275	304	108	92	e90
25	82	96	87	e75	e70	e70	113	267	309	107	92	e90
26	85	167	86	e70	e70	e70	143	290	319	107	92	e90
27	84	127	85	e70	e65	e70	153	297	282	106	92	e90
28	82	108	84	e70	e65	e70	137	287	242	104	97	e90
29	82	105	83	e70	e65	e70	142	317	206	104	91	e89
30	82	108	85	e70	---	65	134	324	192	106	91	e88
31	82	---	86	e70	---	64	---	305	---	104	91	---
TOTAL	2599	2930	3130	2308	1985	2099	2826	9887	9961	3928	2969	2733
MEAN	83.8	97.7	101	74.5	68.4	67.7	94.2	319	332	127	95.8	91.1
MAX	85	167	178	83	70	70	153	580	430	184	103	106
MIN	82	79	83	70	60	64	66	153	192	104	91	84
AC-FT	5160	5810	6210	4580	3940	4160	5610	19610	19760	7790	5890	5420

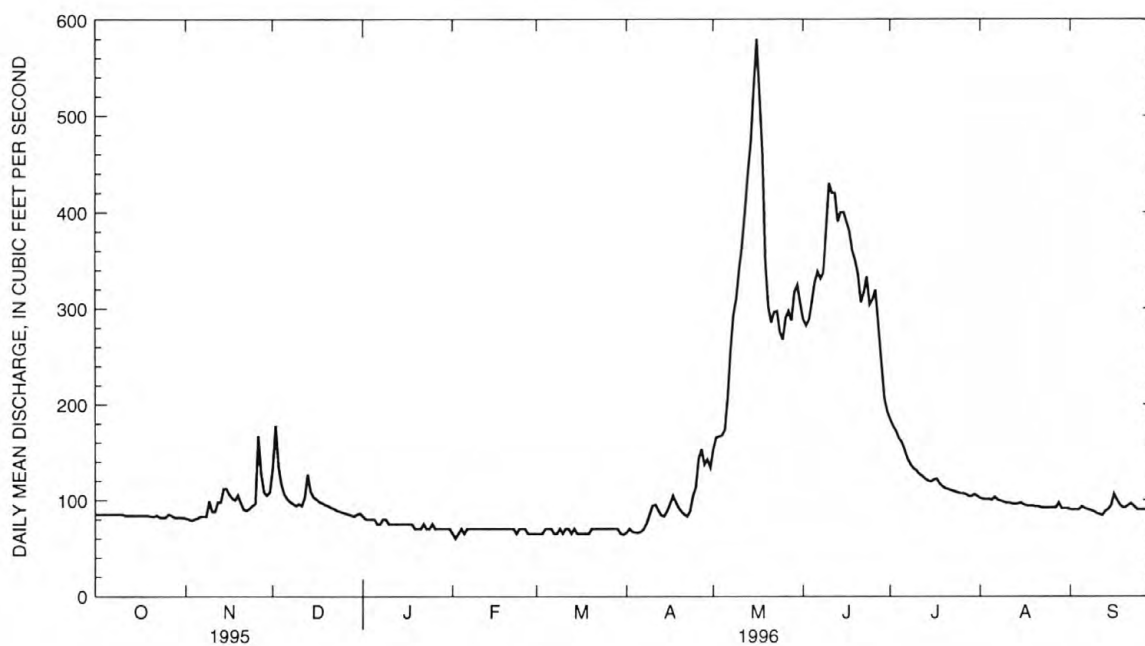
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	77.2	76.9	74.2	69.3	66.4	67.9	124	268	224	94.1	79.3	76.5	
MAX	101	97.9	101	88.4	82.8	87.9	215	395	566	148	106	103	
(WY)	1985	1986	1996	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	

13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1984 - 1996	
ANNUAL TOTAL	43610		47355		108	
ANNUAL MEAN	119		129		157	
HIGHEST ANNUAL MEAN					84.4	
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	395	May 16	580	May 16	810	Jun 2 1986
LOWEST DAILY MEAN	56	Jan 23	60	Feb 2	53	Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	57	Jan 20	66	Feb 26	53	Feb 12 1989
ANNUAL RUNOFF (AC-FT)	86500		93930		78420	
10 PERCENT EXCEEDS	252		304		200	
50 PERCENT EXCEEDS	87		91		76	
90 PERCENT EXCEEDS	61		70		61	

e Estimated.



13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY

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 1996

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.		1995-96	09-13-96	6.84	(a)
Crow Creek on C.P. Orgon property, in Cheyenne	South Platte River	Lat 41°07'26", long 104°47'20", in NW ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.4, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 100 ft downstream from bridge over Crow Creek on private land, and approximately 1,700 ft east of Morrie Avenue, in Cheyenne.		1996	09-13-96	13.86	214
Clear Creek at Parsley Boulevard, in Cheyenne	Crow Creek	Lat 41°07'30", long 104°49'22", in SW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.6, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from culvert under Parsley Boulevard, in Cheyenne.		1996	04-11-96 08-29-96	7.49 7.49	(a) (a)
Henderson Drain at Nationway, in Cheyenne	Crow Creek	Lat 41°08'08", long 104°46'19", in SE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.33, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 40 ft upstream from culvert on Nationway, in Cheyenne.		1994,1996	07-13-96	8.50	(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, 30 ft upstream from culvert on Vista Lane, in Cheyenne.		1987-96	08-29-96	3.20	(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, 30 ft upstream from culvert on Seminole Road in Cheyenne.		1994-96	08-29-96	13.64	(a)
Dry Creek tributary at Briarwood Road, in Cheyenne	Dry Creek	Lat 41°09'53", long 104°47'15", in SE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.21, T.14 N., F.66 W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from culvert on Briarwood Road, in Cheyenne.		1994,1996	03-29-96	2.47	(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, 50 ft upstream from culvert on Windmill Road in Cheyenne.		1994-96	08-29-96	9.44	(a)
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, 40 ft upstream from culvert on College Drive, in Cheyenne.		1994-96	08-29-96	11.36	(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, 30 ft upstream from culvert on Rawlins Street, in Cheyenne.		1994-96	08-29-96	5.14	(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

Annual maximum discharge at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drain- age area (sq mi)	Period of Record	Annual Maximum		
					Date	Gage height (feet)	Discharge (cfs)
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#, 1994-96	06-10-96	4.98	438 ^b
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#, 1994-96	06-28-96	3.57	224

Operated as a continuous-record gaging station.

a Discharge not determined.

b Date of peak estimated.

Discharge measurements made at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (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.		1988-95	4-29-96 5-31-96 7-10-96 8-09-96	7.30 71.8 174 172
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.		1988-95	5-30-96 6-28-96 6-28-96 6-28-96 8-29-96	58.7 93.6 104 23.1 61.0
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.		1989-95	5-30-96 7-09-96 9-10-96	41.7 49.9 38.5
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.		1989-95	5-31-96 7-09-96 9-10-96	37.6 67.8 46.1
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.		1988-95	5-31-65 7-09-96 9-10-96	46.8 51.3 29.7
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.		1988-95	5-22-96 7-11-96 9-12-96	30.5 42.8 7.90
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.		1991-95	5-22-96 7-11-96 9-12-96 9-17-96	136 220 34.8 37.2
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.		1989-95	5-21-96 6-25-96 8-28-96	52.8 94.6 49.1
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.		1988-95	5-21-96 6-26-96 9-12-96	22.5 89.3 4.44

Discharge measurements made at miscellaneous sites during water year 1996

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.		1989-95	6-20-96 7-31-96 8-21-96	0.355 0 43.4
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		1988-95	5-21-96 6-26-96 9-04-96	81.8 157 56.4
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.		1988-95	5-29-96 6-25-96 8-28-96	53.2 55.6 64.4
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.		1991-95	5-31-96 7-16-96 8-28-96	14.4 43.7 30.0
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.		1991-95	5-31-96 7-16-96 8-28-96	61.2 80.0 63.1
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.		1991-95	5-17-96 6-27-96 7-29-96	31.6 79.9 39.3
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.		1991-95	5-21-96 6-26-96 7-31-96	8.42 37.1 22.5
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.		1988-95	5-17-96 6-27-96 7-29-96	14.2 20.0 14.8
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 northest of Arapahoe.		1988-95	5-29-96 6-27-96 7-26-96 9-06-96	71.6 112 122 69.2

Discharge measurements made at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Yellowstone River basin--Continued						
Little Wind River above Arapahoe 06231000	Wind River	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.	660	1906-11#, 1911-19#, 1980-95#	10-27-95	184
Popo Agie River near Arapahoe 06233900	Little Wind River	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	796	1980-95#	10-27-95	322
South Fork Owl Creek near Anchor 06260000	Bighorn River	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.	85.5	1932#, 1939-43#, 1959-85#, 1991-95#	11-06-95	8.54
North Fork Owl Creek above Basin Ranch, near Anchor 06262300	South Fork Owl Creek	Lat 43°41'21", long 108°50'24", in NW1/4 SW1/4 SE1/4 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.	61 ^a	1962-75#, 1991-95#	11-06-95	4.96
Platte River basin						
Carlson Creek Ditch near Arlington 06632050	Rock Creek	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, and 7.8 mi south of Arlington.		1992-95#	10-09-95	0.24
Carlson Creek Ditch above Wagonhound Creek, near Arlington 06632055	Rock Creek	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.		1994-95#	10-09-95	0.34
Rock Creek above Rock Creek Reservoir 06637750	Sweetwater River	Lat 42°32'59", long 108°46'26", in NW1/4 SW1/4 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.	9.2 ^a	1962-95#	11-22-95	2.88
North Platte River near Goose Egg 06643500	Missouri River	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.	11,423	1917-19#, 1924#, 1947#, 1950-60#, 1983-84#, 1986, # 1988-95#	10-03-95 5-20-96 8-13-96	560 2,543 2,110

Discharge measurements made at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (cfs)
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,	6-11-96	1,240
				1918,	6-21-96	472
				1990-92,	7-01-96	241
				1993#, 1994-95	8-22-96	26.2
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.		1994-95	6-12-96	592
					7-17-96	227
					9-17-96	65.7
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,	6-13-96	390
				1989-93#,	6-27-96	328
				1994-95	7-26-96	172
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,	6-13-96	193
				1918,		
				1989-93#,		
				1994-95		

Operated as a continuous-record gaging station.

a Approximately.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Elevation above land surface (ft)
Snake River Gravel Pit Restoration						
Pond 1 440526110405301	Snake River	Lat 44°05'26", long 110°40'53", in NE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ , sec.29, T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 0.9 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6790.54
Pond 2 440522110404701	Snake River	Lat 44°05'22", long 110°40'47", in NE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ , sec.29, T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 0.9 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6790.13
Pond 3 440525110411101	Snake River	Lat 44°05'25", long 110°41'11", in NE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.29, T.48N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 1.0 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6790.41
Pond 4 440523110411201	Snake River	Lat 44°05'23", long 110°41'12", in NE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.29 T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 1.0 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6788.98
Quarter Creek above pit 440531110404001	Snake River	Lat 44°05'31", long 110°40'40", in SW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.29, T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 0.75 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6794.51
Quarter Creek below pit 440529110411401	Snake River	Lat 44°05'29", long 110°41'14", in SW ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ sec.29, T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 1.2 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	6790.44
Paleo-channel at Snake River pit 440516110411301	Snake River	Lat 44°05'16", long 110°41'13", in SE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.29, T.48N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 1.2 mi southwest of station 13010065 Snake River above Jackson Lake at Flagg Ranch and 19 mi northwest of Moran.			09-27-96	Dry
Wastewater Treatment Facilities Study, Grand Teton National Park						
Swan Lake 435327110375602	Snake River	Lat 43°53'27", long 110°37'56", in NW ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ , sec.2, T.45 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 1 mi south of Colter Bay Village and 6.7 mi northwest of Moran.			11-09-95 06-06-96 08-21-96 09-19-96	6797.77 6798.78 6798.32 6798.57

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 1995 TO SEPTEMBER 1996

DATE	TIME	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 29...	1145	5.4	962	0.5	4.0	0.3	660	<0.01
FEB 13...	1145	4.1	990	0.5	8.5	2.9	737	<0.01
MAY 22...	1245	15	480	7.0	17.0	13	314	<0.01
JUN 06...	1430	22	489	15.5	24.0	24	303	<0.01
JUL 18...	1000	16	848	16.0	19.5	2.7	525	0.09
AUG 14...	1400	10	1080	18.5	27.0	3.5	762	0.05

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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 29...	0.17	<0.01	<0.01	<0.01	<0.01	36	0.52
FEB 13...	0.54	<0.01	<0.01	<0.01	<0.01	106	1.2
MAY 22...	<0.01	0.05	<0.01	<0.01	<0.01	102	4.1
JUN 06...	0.10	0.24	<0.01	<0.01	<0.01	156	9.3
JUL 18...	0.40	0.08	<0.01	<0.01	<0.01	65	2.8
AUG 14...	0.31	<0.01	<0.01	<0.01	<0.01	140	3.8

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY

PLATTE RIVER BASIN

06642000 NORTH PLATTE RIVER AT ALCOVA, WY (LAT 42 34 27 LONG 106 41 31)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
DEC 11...	0845	541	493	8.5	4.5	9.5	636	11.6	180	49
SEP 04...	0850	1020	454	7.5	14.0	19.0	629	6.3	--	--

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)
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DEC 11...	15	30	1	3.3	4	144	124	130	110
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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, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
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DEC 11...	9.6	0.30	13	305	--	--	--	--	1
SEP 04...	--	--	--	--	0.04	<0.01	0.14	0.02	--

06643100 POISON SPRING CREEK NEAR ALCOVA, WY (LAT 42 42 55 LONG 106 34 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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)
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DEC 12...	0835	1.2	4110	8.3	2.0	6.0	624	12.0	880	170	110	720
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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)
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DEC 12...	11	9.2	0	567	465	460	1800	49	1.4	21	3160	60
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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 1995 TO SEPTEMBER 1996

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...	0950	14	3230	8.3	5.0	7.0	626	11.2	1000	220	110	410

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)
DEC 12...	6	9.0	0	388	318	309	1400	89	0.6	13	2440	66	

425840106313801 SOUTH FORK CASPER CREEK ABOVE INLET TO THIRTY-THREE MILE RESERVOIR, NEAR ILLCO, WY (LAT 42 44 23 LONG 106 36 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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 11...	1355	0.22	9690	8.0	4.0	8.0	625	11.0	2700	400	410	1800

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)
DEC 11...	15	4.5	0	561	460	491	5500	120	0.5	5.6	8520	84	

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 1995 TO SEPTEMBER 1996

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 11...	1510	1.3	6920	8.3	5.0	10.0	625	15.9	2100	340	310	1100

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)
DEC 11...	10	4.3	7	326	279	325	4300	76	0.4	3.8	6300	64	

06644500 CASPER CREEK AT CASPER, WY (LAT 42 50 52 LONG 106 21 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

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 11...	1330	16	5080	8.4	2.0	14.5	631	12.0	1600	280	210	770

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)
DEC 11...	8	4.3	0	411	337	326	2700	74	0.5	9.0	4250	80	

SNAKE RIVER GRAVEL PIT RESTORATION STUDY

SNAKE RIVER BASIN

440528110405101 POND 1A AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 28 long 110 40 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
		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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)
SEP 25...	1800	133	8.0	10.5	594	6.4	73	--	--	--	--
DATE											
SEP 25...	--	--	--	--	--	--	--	--	--	22	80

440527110405301 POND 1B AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 27 long 110 40 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
SEP 25...	1740	133	7.9	10.0	594	6.4	73	--	--	--	--	
DATE	TIME	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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 25...	--	--	--	--	--	--	--	--	--	--	50	96

440527110405601 POND 1C AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 27 long 110 40 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SILICA, DIS- SOLVED (MG/L AS SIO2)	
		(US/CM) (00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(00915)	(00925)	(00930)	(00955)	
SEP 25...	1615	133	7.9	10.0	594	6.4	73	17	3.8	2.8	6.4	
DATE	TIME	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)	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)
SEP 25...	8	4	28	<0.5	20	<1.0	<1	<1	7	<1	15	

SNAKE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	
	SEP											
	25...	130	<0.1	10	<10	<1	<1.0	80	<6	<3	50	95

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) ACTION) (00300)	OXYGEN, DIS- SOLVED 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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
		SEP 26...	1915	134	8.9	8.0	595	8.1	88	--	--

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
SEP 26...	1845	134	9.0	8.5	595	8.0	88	--	--	--	--	

[illegible]

[illegible]

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

SNAKE RIVER GRAVEL PIT RESTORATION STUDY--Continued

SNAKE RIVER BASIN--Continued

440526110410501 POND 3B AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 26 long 110 41 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
SEP 26...	1145	172	8.3	10.5	595	6.3	72	--	--	--	--	
DATE	TIME	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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 26...	--	--	--	--	--	--	--	--	--	--	66	99

440525110411001 POND 3C AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 25 long 110 41 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CALCIUM DIS- SOLVED (MG/L	MAGNE- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	SILICA, DIS- SOLVED (MG/L	
		(US/CM) (00095)	UNITS) (00400)	(DEG C) (00010)	(MM (00025)	(MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS NA) (00930)	(MG/L AS SIO2) (00955)	
SEP 26...	1045	172	8.2	10.0	595	6.2	71	19	4.5	8.5	15	
DATE	TIME	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)	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)
SEP 26...	10	16	35	<0.5	70	5.0	<1	<1	10	<1	51	
DATE	TIME	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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 26...	4	<0.1	<10	<10	<1	<1.0	120	<6	6	71	98	

SNAKE RIVER GRAVEL PIT RESTORATION STUDY--Continued

SNAKE RIVER BASIN--Continued

440519110410201 POND 4A AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 19 long 110 41 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
SEP 26...	1415	178	8.2	9.0	595	7.0	78	--	--	--	--	
DATE	TIME	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)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 26...	--	--	--	--	--	--	--	--	--	--	5	18

440519110410601 POND 4B AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 19 long 110 41 06)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SILICA, DIS- SOLVED (MG/L AS SIO2)	
		(00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(00915)	(00925)	(00930)	(00955)	
SEP 26...	1445	178	8.3	9.5	595	7.0	78	20	4.9	7.4	13	
DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)
		(01106)	(01000)	(01005)	(01010)	(01020)	(01025)	(01030)	(01040)	(01046)	(01049)	(01130)
SEP 26...	20	12	39	<0.5	60	3.0	<1	<1	8	<1	46	
DATE	TIME	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM
		(01056)	(71890)	(01060)	(01065)	(01145)	(01075)	(01080)	(01085)	(01090)	(80157)	(80164)
SEP 26...	7	<0.1	<10	<10	<1	<1.0	120	<6	6	34	92	

SNAKE RIVER BASIN--Continued

440519110411001 POND 4C AT SNAKE RIVER PIT, NEAR MORAN, WY (Lat 44 05 19 long 110 41 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

[illegible]

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.91	23.33	23.48	23.32	---	---	---	21.29	20.71	20.49	20.76	21.56
10	22.95	23.40	23.48	---	---	---	21.72	21.21	20.66	20.50	20.89	21.67
15	23.02	23.44	23.49	---	---	---	21.63	21.10	20.59	20.51	21.00	21.85
20	23.11	23.44	23.49	---	---	---	21.54	21.07	20.54	20.55	21.13	22.00
25	23.19	23.45	23.47	---	---	---	21.46	21.01	20.50	20.63	21.28	22.15
EOM	23.28	23.47	23.41	---	---	---	21.38	20.83	20.51	20.73	21.43	22.28

WTR YR 1996 HIGHEST 20.49 JUL 4-6 LOWEST 23.49 DEC 3, 14-22

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

1 DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.38	24.96	23.42	22.12	21.09	20.30	19.61	19.98	22.41	26.62	26.28	27.55
10	26.88	24.81	23.17	21.93	20.98	20.19	19.52	20.48	23.33	27.35	26.71	27.39
15	26.52	24.44	22.93	21.74	20.83	20.07	19.42	20.94	23.22	27.43	27.49	27.13
20	26.21	24.22	22.74	21.56	20.70	19.95	19.32	22.08	23.11	26.77	27.48	26.68
25	25.74	23.87	22.53	21.39	20.54	19.85	19.53	22.46	23.72	26.33	27.78	26.24
EOM	25.30	23.64	22.26	21.21	20.43	19.73	19.57	21.90	25.01	25.98	27.67	25.82

WTR YR 1996 HIGHEST 19.32 APR 20-21 LOWEST 28.05 AUG 29

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	132.15	132.12	132.14	132.24	132.50	132.15	132.78	132.66	132.74	133.01	132.74	132.82
10	132.40	131.87	132.26	132.19	132.40	132.67	132.32	132.70	132.84	132.98	133.04	133.05
15	132.49	132.35	132.26	132.18	132.48	132.36	132.60	132.55	132.85	132.84	133.00	132.69
20	132.45	132.45	132.14	132.01	132.16	132.57	132.41	132.65	132.87	132.95	132.96	132.85
25	132.24	132.11	132.40	132.05	132.18	132.50	132.34	132.71	132.91	133.19	132.99	132.79
EOM	132.06	132.05	131.81	132.20	132.45	132.54	132.51	132.62	133.11	132.97	132.85	132.86

WTR YR 1996 HIGHEST 131.73 JAN 3 LOWEST 133.31 JUL 24

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.55	33.37	33.26	33.11	32.93	32.78	32.67	32.54	32.58	33.65	34.13	34.29
10	33.54	33.38	33.22	33.03	32.92	32.76	32.60	32.53	32.59	33.69	34.13	34.38
15	33.51	33.36	33.20	33.01	32.89	32.70	32.60	32.51	32.85	33.38	34.24	34.31
20	33.48	33.36	33.17	33.02	32.86	32.71	32.57	32.47	32.73	34.17	34.38	34.30
25	33.43	33.30	33.16	32.99	32.83	32.72	32.57	32.59	32.67	34.63	34.35	34.26
EOM	33.41	33.27	33.08	32.96	32.81	32.68	32.54	32.50	32.77	34.35	34.29	34.25
WTR YR 1996		HIGHEST	32.47	MAY 20, JUN 4		LOWEST	34.63	JUL 25				

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.10	27.76	27.36	27.13	26.93	26.78	26.91	26.89	27.35	28.96	27.92	29.02
10	28.78	27.72	27.27	26.96	26.91	26.84	26.81	27.48	27.29	29.18	27.70	29.40
15	28.54	27.66	27.26	26.90	26.88	26.72	26.85	27.78	27.32	29.42	27.85	28.73
20	28.35	27.64	---	26.92	26.80	26.80	26.87	28.30	28.01	29.73	28.66	28.21
25	28.12	27.39	---	26.89	26.79	26.87	26.81	28.31	28.68	29.42	29.24	27.85
EOM	27.93	27.32	27.01	26.93	26.83	26.85	26.83	27.66	28.94	28.38	29.36	27.54
WTR YR 1996		HIGHEST	26.68	MAR 22, 23, APR 24		LOWEST	29.76	JUL 21				

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	7.54	7.21	---	8.21	8.05	6.14	6.09	2.27	1.96	2.27	2.33
10	---	7.64	7.44	---	7.76	8.06	4.95	6.32	2.13	2.21	2.63	2.49
15	6.02	7.19	6.46	---	7.75	7.97	4.91	6.25	1.81	2.62	2.49	2.78
20	6.57	7.46	6.88	---	7.88	7.79	5.52	---	1.79	2.30	2.31	2.77
25	6.98	7.65	7.35	8.19	7.93	7.32	5.76	---	1.84	2.68	2.41	3.16
EOM	7.30	7.46	---	8.20	7.98	7.30	5.97	2.13	1.76	1.94	2.21	3.32

WTR YR 1996 HIGHEST 1.71 JUN 28, 29 LOWEST 8.21 FEB 1-7

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 1995 TO SEPTEMBER 1996

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.81	20.12	20.80	22.27	22.80	22.82	21.88	15.04	3.32	3.74	7.28	7.70
10	18.29	20.52	20.90	22.34	22.76	22.90	20.22	15.20	3.32	3.32	8.51	8.15
15	18.77	20.52	20.75	22.69	22.65	22.95	18.14	11.83	3.33	3.32	8.44	8.80
20	19.16	20.50	21.11	22.70	22.63	22.89	16.94	5.20	3.33	4.97	6.95	8.95
25	19.45	20.78	21.62	22.68	22.65	22.68	16.06	5.21	4.54	6.04	6.76	11.57
EOM	19.80	20.95	21.90	22.71	22.69	22.50	14.95	3.62	5.29	6.26	6.89	14.46

WTR YR 1996 HIGHEST 3.32 JUN 3, JUL 10, 15 LOWEST 22.95 MAR 15

GROUND WATER LEVELS

HIGH PLAINS STUDY
(Wells are at depth below land surface, in feet)

GOSHEN COUNTY

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
413400104382701	19-065-34dcc01	122ARKR	5520	101	05-03-96	69.27
413506104163001	19-062-26dba01	123WRVR	4819	42.0	05-07-96	25.80
413629104205001	19-062-18ddc01	122ARKR	5058	--	06-04-96	76.58
413951104363801	20-065-36bca01	122ARKR	5404	--	05-06-96	106.59
415543104033301	23-060-34aba01	123WRVR	4070	--	06-04-96	4.42
415925104310801	23-064-03dda01	123WRVR	4275	--	05-08-96	23.98
420042104110401	24-061-34bca01	123WRVR	4217	--	06-11-96	30.37
420204104294501	24-064-24ccb01	123WRVR	4305	--	05-08-96	5.32
420606104251701	25-063-33aaa01	123WRVR	4330	64.8	05-08-96	54.61
420845104122301	25-061-17aaa01	123WRVR	4310	--	06-11-96	53.50
420956104122401	25-061-05dad01	123WRVR	4366	--	06-10-96	78.78
421244104175501	26-062-22bcd01	123BRUL	4290	--	06-10-96	41.42
421322104111101	26-061-16daa01	123WRVR	4425.8	--	06-10-96	51.53
421328104205401	26-062-18dbd01	123BRUL	4500	--	06-10-96	61.72
421357104120001	26-061-16bab01	123WRVR	4445	--	06-10-96	42.83
421620104312501	27-064-34abd01	122ARKR	4512.5	--	05-08-96	98.62
422347104212001	28-062-18cac01	122ARKR	4470	--	06-10-96	13.26
422430104243001	28-063-15acd01	122ARKR	4582.4	--	06-10-96	25.09
423056104212701	29-062-06cba01	122ARKR	4700	--	06-03-96	28.83
423057104212701	29-062-06cba02	122ARKR	4700	--	06-03-96	29.31
423131104214101	30-063-36ddd01	122ARKR	4775	--	06-03-96	85.92

LARAMIE COUNTY

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
411515104480801	15-066-20cab01	121OGLL	6116	--	06-04-96	20.84
411904104275201	16-063-30ddd01	121OGLL	5705	175	05-07-96	147.91
412304104311001	16-064-02bcb01	121OGLL	5778	--	06-04-96	234.16
412321104282801	16-063-06baa01	121OGLL	5685	--	05-07-96	194.79
412854104493001	18-066-31ccb01	122ARKR	5920	--	05-03-96	111.31
413116104264901	18-063-17dcd01	122ARKR	5320	200	05-07-96	137.52
413200104412201	18-065-17bbc01	122ARKR	5598	--	05-03-96	47.10
413315104393701	18-065-04dbc01	122ARKR	5712	--	05-03-96	187.29
413326104291801	18-064-01caa01	122ARKR	5307	154	05-07-96	112.52

GEOLOGIC UNIT (AQUIFER)

111ALVM	ALLUVIAL DEPOSITS	121OGLL	OGALLALA FORMATION
111TRRC	TERRACE DEPOSITS	122ARKR	ARIGAREE FORMATION
112GLCL	GLACIER DEPOSITS	123BRUL	BRULE FORMATION
112TRRC	TERRACE DEPOSITS	123WRVR	WHITE RIVER FORMATION OR GROUP

HIGH PLAINS STUDY--CONTINUED
(Wells are at depth below land surface, in feet)

NIOBRARA COUNTY

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
423940104031201	31-060-15dbc01	122ARKR	4730	110	06-13-96	35.43
424826104283801	33-064-25add01	122ARKR	5220	--	06-03-96	88.32
424951104080101	33-061-13cdd01	122ARKR	5015	--	06-13-96	143.72

PLATTE COUNTY

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
414206104500101	20-067-13dbd01	123BRUL	5490	--	06-18-96	39.87
414755104391101	21-065-16aaa01	122ARKR	5294	242	05-06-96	74.30
420452104413801	24-065-06daa02	122ARKR	5070	--	06-06-96	268.34
422355105023401	28-068-17cbc01	123WRVR	4918	191	06-18-96	57.28

GROUND WATER LEVELS

TETON COUNTY

SNAKE RIVER GRAVEL PIT RESTORATION STUDY
(Wells are at depth below land surface, in feet)

SNAKE RIVER BASIN

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
440509110405001	48-115-32aba01	111ALVM	6792.63	9.00	09-27-96	3.52
440510110410101	48-115-32abb01	111ALVM	6790.49	8.40	09-27-96	1.80
440514110411101	48-115-32baa01	111ALVM	6792.79	9.05	09-27-96	4.61
440515110410101	48-115-29dcc01	111ALVM	6792.40	8.10	09-27-96	3.51
440516110411201	48-115-29cdd01	111ALVM	6793.21	9.20	09-27-96	4.95
440520110404501	48-115-29dcd01	111ALVM	6796.29	9.45	09-27-96	6.12
440521110411601	48-115-29cdc01	111ALVM	6793.35	9.40	09-27-96	4.92
440522110405601	48-115-29dcb01	111ALVM	6801.11	13.7	09-27-96	11.23
440528110404401	48-115-29dca01	111ALVM	6799.68	16.3	09-27-96	8.22
440528110411201	48-115-29cac01	111ALVM	6801.43	18.7	09-27-96	11.83
440529110405701	48-115-29dbc01	111ALVM	6797.21	9.00	09-27-96	6.38
440530110404301	48-115-29dac01	111ALVM	6798.55	9.10	09-27-96	6.60

TETON COUNTY

GROUND WATER NEAR WASTEWATER TREATMENT FACILITIES, GRAND TETON NATIONAL PARK
(Wells are at depth below land surface, in feet)

SNAKE RIVER BASIN

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
433715110392801	42-115-09bdb01	111ALVM	6590	--	09-20-96	15.15
433932110430801	43-116-25cca01	111ALVM	6455	49	09-17-96	9.88
433939110424001	43-116-25dbd01	111ALVM	6460	48.6	09-17-96	14.83
433939110425601	43-116-25caa01	111ALVM	6462	42.8	09-17-96	14.75
434142110440101	43-116-14abc01	111ALVM	6620	160	09-20-96	37.14
434216110440301	43-116-11dbc01	111ALVM	6660	88	09-20-96	34.79
434234110434401	43-116-11adb01	111ALVM	6685	151	09-20-96	46.60
434438110433701	44-116-26ddd01	111ALVM	6770	95	09-20-96	77.16
434458110433101	44-116-26daa01	111ALVM	6795	250	09-20-96	111.97
434700110424501	44-116-13abd01	111ALVM	6900	--	09-20-96	207.83
434904110364701	45-115-36cac01	111ALVM	6880	119	11-09-95 06-04-96 08-20-96 09-17-96	dry dry 113.39 113.43
434920110365601	45-115-36bcd01	111ALVM	6880	119	11-09-95 06-04-96 08-20-96 09-17-96	117.21 115.93 116.21 116.64
434920110370801	45-115-36bcc01	111ALVM	6860	118	11-06-95 06-04-96 08-20-96 09-16-96	94.15 98.67 88.03 89.25
434927110370801	45-115-36bcb01	112TRRC	6890	120	11-06-95 11-09-95 06-03-96 06-04-96 08-20-96 09-16-96	110.07 110.47 104.11 104.20 104.55 106.00
435018110365601	45-115-25bca01	111ALVM	6780	--	09-20-96	18.48
435025110362801	45-115-25abb01	111ALVM	6930	--	09-20-96	226.80
435039110305001	45-114-23ccd01	111ALVM	6730	--	09-20-96	10.46
435122110351801	45-114-19abb01	112GLCL	6810	--	09-20-96	70.22
435327110375601	45-115-02cdb01	111ALVM	6800	9.4	06-06-96 08-21-96 09-18-96	-.45 1.58 1.29
435342110380801	45-115-02bdd01	111ALVM	6800	12	06-06-96 08-21-96 09-18-96	5.56 10.95 9.50
435354110372401	45-115-02aac02	111ALVM	6814.9	38	11-08-95 06-04-96 08-21-96 09-18-96	5.66 2.15 5.45 5.19
435354110373201	45-115-02aca01	111ALVM	6810	5.15	11-08-95 06-04-96 08-21-96 09-18-96	3.40 -.35 3.08 2.76

GROUND WATER LEVELS

TETON COUNTY--Continued

GROUND WATER NEAR WASTEWATER TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued
(Wells are at depth below land surface, in feet)

SNAKE RIVER BASIN

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER LEVEL DATE	WATER LEVEL (FEET)
435355110372401	45-115-02aac01	111ALVM	6815.1	32.8	11-08-95	6.06
					06-04-96	2.35
					08-21-96	5.85
					09-18-96	5.59
435357110374101	45-115-02abc01	111ALVM	6810.2	38.3	11-08-95	3.74
					06-04-96	2.55
					08-21-96	3.67
					09-18-96	3.58
435403110372001	45-115-02aab01	111ALVM	6820.4	32.4	11-08-95	11.04
					06-04-96	5.03
					08-21-96	10.69
					09-17-96	10.63
435407110374001	45-115-02abb01	111ALVM	6820	36.3	11-08-95	11.04
					06-04-96	3.77
					08-21-96	10.53
					09-18-96	10.66
435427110350901	46-114-31ca1	111ALVM	6905	175	09-23-96	25.53
435512110335801	46-114-29db2	111ALVM	6976.8	250	09-23-96	43.83
435519110335401	46-114-29db1	111ALVM	6981.5	200	09-23-96	35.64
435555110382001	46-115-23ccc01	111ALVM	6829	--	09-23-96	67.17
440018110405201	47-115-31ca01	111ALVM	6830	--	09-23-96	19.65
440553110401301	48-115-28acb01	111ALVM	6820	--	09-23-96	8.97
440645110401101	48-115-21bc02	111ALVM	6820	--	11-07-95	28.37
					06-05-96	21.78
					08-22-96	25.71
					09-19-96	26.67
440645110402001	48-115-21bc01	111ALVM	6837	37.3	11-07-95	26.62
					06-05-96	20.50
					08-22-96	24.10
					09-19-96	24.65
440657110402601	48-115-21bb02	111ALVM	6836	--	11-07-95	6.61
					06-05-96	- .08
					08-22-96	3.02
					09-19-96	4.13
440659110402001	48-115-21bb01	111ALVM	6846	--	11-07-95	9.49
					06-05-96	2.43
					08-22-96	27.74
					09-19-96	28.77
440701110402501	48-115-16cc01	111ALVM	6859	27.1	11-07-95	23.78
					06-05-96	17.44
					08-22-96	19.92
					09-19-96	20.94

QUALITY OF GROUND WATER

497

GOSHEN COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

(NUTRIENTS AND PESTICIDE ANALYSES)

WELL NUMBER	STATION NUMBER	GEO- LOGIC UNIT	STATION NAME	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL (FEET) (72019)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
W4	420029104170601	123WRVR	24-062-35cbb01	03-27-96	1100	142.00	23.60	4165
				09-03-96	1430	142.00	18.80	4165
W6	421219104331901	111ALVM	26-064-28bbb03	04-03-96	0900	60.00	19.00	4260
				09-04-96	0800	60.00	18.70	4260
W7	420836104223501	111ALVM	25-063-13bbd01	03-29-96	1420	42.00	26.90	4175
				09-03-96	1715	42.00	22.50	4175
W10	420549104154901	111ALVM	25-062-36bcc01	04-01-96	1700	25.00	11.00	4125
				08-27-96	1740	25.00	6.60	4125
W14	420703104133001	111TRRC	25-061-29bbb01	04-02-96	1110	140.00	86.90	4085
				08-28-96	1230	140.00	89.30	4085
W14b	420800104122501	123BRUL	25-061-17ddd01	04-05-96	1025	90.00	65.10	4275
				08-27-96	1205	90.00	64.40	4275
W14c	420653104122801	111TRRC	25-061-29aad01	04-02-96	1630	180.00	83.70	4245
				08-27-96	1045	180.00	84.20	4245
W14d	420708104123101	123BRUL	25-061-20ddc01	04-02-96	1500	380.00	100.60	4255
				08-27-96	1535	380.00	113.30	4255
W15	420703104133002	111TRRC	25-061-29bbb02	04-02-96	0945	95.50	86.90	4246
				08-28-96	1100	95.50	89.30	4246
W17	420205104065601	111ALVM	24-060-19dca01	03-29-96	1145	19.00	12.80	4060
				08-28-96	1420	19.00	9.70	4060
W21	420531104100201	111TRRC	25-061-34dda01	04-01-96	1230	23.00	7.30	4175
				09-06-96	1345	23.00	5.00	4175
W21b	420518104103901	123BRUL	25-061-34ccd01	04-01-96	1115	240.00	88.00	4195
				09-06-96	1225	240.00	36.10	4195
W21c	420522104095901	111TRRC	25-061-35ccc01	04-02-96	1745	98.00	34.00	4200
				09-06-96	1050	98.00	31.00	4200
W21d	420610104103201	111TRRC	25-061-34abb01	04-01-96	1515	94.00	24.40	4195
				09-06-96	1505	94.00	20.20	4195
W24	421219104310401	111ALVM	26-064-22ddd01	04-29-96	1040	25.00	13.40	4220
				09-06-96	0900	25.00	8.50	4220
W24b	421225104304501	111ALVM	26-064-23cdb01	04-05-96	1235	16.00	10.60	4220
				09-04-96	1000	16.00	4.00	4220
W25	420241104105301	111ALVM	24-061-22bab01	03-26-96	1140	36.00	31.30	4180
				08-26-96	1030	36.00	6.70	4180
W25b	420229104110401	111ALVM	24-061-22bac01	03-26-96	1340	100.00	86.90	4080
				08-26-96	1345	100.00	7.30	4080
W25c	420240104103001	111ALVM	24-061-22aba01	03-27-96	1340	27.00	8.90	4075
				08-26-96	1525	27.00	6.10	4075
W25d	420243104120701	111ALVM	24-061-21bab01	03-29-96	1000	56.00	10.70	4090
				08-28-96	0815	56.00	6.60	4090

QUALITY OF GROUND WATER

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

(NUTRIENTS AND PESTICIDE ANALYSES--Continued)

STATION NUMBER	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	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)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)
EPA Drinking Water Standard (MCL)	10.0	1.0	10.0	--	--	70	2	3
420029104170601	10.0 11.0	ND(0.010) ND(0.010)	10.0 11.0	ND(0.015) ND(0.015)	0.12 0.18	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
421219104331901	1.88 1.50	0.020 ND(0.010)	1.90 1.50	ND(0.015) ND(0.015)	0.09 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420836104223501	7.70 5.00	ND(0.010) ND(0.010)	7.70 5.00	ND(0.015) ND(0.015)	0.09 0.09	ND(0.035) ND(0.035)	0.002 ND(0.002)	ND(0.016) ND(0.016)
420549104154901	6.98 8.09	0.020 0.010	7.00 8.10	0.020 0.020	0.18 0.12	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420703104133001	6.19 7.20	0.010 ND(0.010)	6.20 7.20	ND(0.015) ND(0.015)	0.09 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420800104122501	14.0 14.0	ND(0.010) ND(0.010)	14.0 14.0	ND(0.015) ND(0.015)	0.03 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420653104122801	2.28 3.60	0.020 ND(0.010)	2.30 3.60	ND(0.015) ND(0.015)	0.06 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420708104123101	28.0 27.0	0.010 ND(0.010)	28.0 27.0	ND(0.015) ND(0.015)	0.06 0.09	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420703104133002	21.0 27.0	0.020 ND(0.010)	21.0 27.0	0.040 0.030	0.09 0.09	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420205104065601	11.0 9.20	ND(0.010) ND(0.010)	11.0 9.20	ND(0.015) ND(0.015)	0.28 0.37	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420531104100201	4.07 32.8	0.030 0.160	4.10 33.0	0.110 0.140	0.46 0.52	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420518104103901	18.0 19.0	0.020 ND(0.010)	18.0 19.0	0.020 0.020	0.34 0.55	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420522104095901	2.79 3.70	0.010 ND(0.010)	2.80 3.70	ND(0.015) ND(0.015)	0.09 0.09	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420610104103201	1.78 3.20	0.020 ND(0.010)	1.80 3.20	0.020 0.020	0.06 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
421219104310401	8.90 6.90	ND(0.010) ND(0.010)	8.90 6.90	ND(0.015) ND(0.015)	0.09 0.09	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
421225104304501	6.90 5.00	ND(0.010) ND(0.010)	6.90 5.00	ND(0.015) ND(0.015)	0.15 0.15	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420241104105301	0.250 0.130	ND(0.010) ND(0.010)	0.250 0.130	4.10 6.50	0.06 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420229104110401	2.30 4.45	0.100 0.150	2.40 4.60	0.030 0.030	0.03 0.03	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420240104103001	4.20 3.09	ND(0.010) 0.010	4.20 3.10	1.60 1.10	0.06 0.06	ND(0.050) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)
420243104120701	3.57 3.87	0.130 0.130	3.70 4.00	ND(0.015) ND(0.015)	0.06 0.06	ND(0.035) ND(0.035)	ND(0.002) ND(0.002)	ND(0.016) ND(0.016)

ND () - Indicates compound not detected. Value in parenthesis is detection limit.

QUALITY OF GROUND WATER

499

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

(NUTRIENTS AND PESTICIDE ANALYSES--Continued)

STATION NUMBER	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)	DES- ETHYL 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)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
EPA Drinking Water Standard(MCL)	2	4	3	--	--	--	0.9	--
420029104170601	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	E0.003 0.005	E0.004 E0.001	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
421219104331901	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	ND(0.001) E0.004	E0.011 E0.005	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420836104223501	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.031 0.036	0.065 E0.090	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	0.004 ND(0.004)	-- ND(0.002)
420549104154901	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.085 0.068	E0.300 E0.145	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420703104133001	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.390 0.335	E0.160 E0.152	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420800104122501	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.001 0.001	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420653104122801	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.001 0.001	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420708104123101	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.081 0.078	E0.026 E0.024	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420703104133002	-- ND(0.016)	ND(0.021) ND(0.021)	0.670 0.627	E0.200 E0.143	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420205104065601	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.170 0.084	E0.200 E0.090	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420531104100201	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.160 0.491	E0.056 E0.148	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	0.037 0.013	ND(0.002) ND(0.002)
420518104103901	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.170 0.096	E0.150 E0.067	ND(0.035) ND(0.035)	ND(0.050) --	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420522104095901	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.001 E0.003	ND(0.002) E0.003	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420610104103201	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	E0.004 E0.002	E0.004 E0.002	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
421219104310401	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.250 0.184	E0.210 E0.145	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
421225104304501	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.008 0.011	E0.015 E0.014	0.310 E2.10	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420241104105301	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.006 0.006	E0.006 E0.002	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420229104110401	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.004 0.005	E0.004 ND(0.002)	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)
420240104103001	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.230 0.035	E0.029 E0.003	0.290 ND(0.035)	ND(0.050) ND(0.050)	0.017 0.004	ND(0.002) ND(0.002)
420243104120701	ND(0.016) ND(0.016)	ND(0.021) ND(0.021)	0.001 0.001	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.050) ND(0.050)	ND(0.004) ND(0.004)	ND(0.002) ND(0.002)

E - Estimate.

ND () - Indicates compound not detected. Value in parenthesis is detection limit.

QUALITY OF GROUND WATER

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

(NUTRIENTS AND PESTICIDE ANALYSES--Continued)

STATION	NUMBER	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOL (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)
EPA Drinking Water Standard (MCL)	--	16,140	969	4840	807	500	--	4	2,260	
420029104170601	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	EO.004 EO.005	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
421219104331901	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) EO.005	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420836104223501	0.002 ND(0.002)	ND(0.035) ND(0.035)	-- --	0.002 ND(0.002)	0.004 ND(0.004)	ND(0.050) ND(0.050)	0.003 EO.005	0.005 ND(0.005)	0.010 ND(0.010)	
420549104154901	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) EO.003	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420703104133001	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	0.047 0.063	0.014 0.015	ND(0.010) ND(0.010)	
420800104122501	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420653104122801	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420708104123101	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	EO.003 ND(0.018)	0.026 0.032	ND(0.010) ND(0.010)	
420703104133002	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	0.440 0.444	0.021 0.023	ND(0.010) ND(0.010)	
420205104065601	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	0.039 0.133	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420531104100201	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	1.50 --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420518104103901	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.200) --	ND(0.002) ND(0.002)	ND(0.004) 0.008	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420522104095901	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.200) --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420610104103201	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	ND(0.200) --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
421219104310401	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	ND(0.018) ND(0.018)	0.007 EO.004	ND(0.010) ND(0.010)	
421225104304501	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	1.40 1.25	ND(0.005) ND(0.005)	0.420 0.225	
420241104105301	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- ND(0.200)	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	0.250 0.187	0.007 0.006	EO.004 EO.009	
420229104110401	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	EO.004 ND(0.018)	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	
420240104103001	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	0.062 0.020	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	0.620 0.289	0.011 ND(0.005)	EO.008 ND(0.010)	
420243104120701	ND(0.002) ND(0.002)	ND(0.035) ND(0.035)	-- --	ND(0.002) ND(0.002)	ND(0.004) ND(0.004)	ND(0.050) ND(0.050)	EO.004 EO.006	ND(0.005) ND(0.005)	ND(0.010) ND(0.010)	

E - Estimate..

ND () - Indicates compound not detected. Value in parenthesis is detection limit.

GOSHEN COUNTY

(RADON ANALYSES)

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

STATION NUMBER	GEO-LOGIC UNIT	STATION NAME	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	
420327104090001	111ALVM	24-061-14bbc01	04-04-96	32.00	
		24-061-14bbc01	08-26-96	32.00	
420401104104401	111ALVM	24-061-10caa01	04-04-96	30.00	
		24-061-10caa01	08-26-96	30.00	
420531104100201	111TRRC	25-061-34dda01	04-01-96	23.00	
		25-061-34dda01	09-06-96	23.00	
420549104154901	111ALVM	25-062-36bcc01	04-01-96	25.00	
		25-062-36bcc01	08-27-96	25.00	
420703104133001	111TRRC	25-061-29bbb01	04-02-96	140.00	
		25-061-29bbb01	08-28-96	140.00	
420800104122501	123BRUL	25-061-17ddd01	04-18-96	90.00	
		25-061-17ddd01	08-27-96	90.00	

STATION	NUMBER	DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
420327104090001		04-04-96	17.60	4085	12.0	1280	7.5	1100	31
		08-26-96	10.70	4085	14.0	1220	7.4	980	36
420401104104401		04-04-96	22.10	4105	12.5	1310	7.5	460	23
		08-26-96	25.80	4105	14.0	1220	7.3	460	28
420531104100201		04-01-96	7.30	4175	10.0	3200	7.0	550	27
		09-06-96	5.00	4175	12.0	2920	7.2	570	32
420549104154901		04-01-96	11.00	4125	10.5	1010	7.5	530	26
		08-27-96	6.60	4125	14.5	1050	7.4	540	27
420703104133001		04-02-96	86.90	4085	13.5	976	7.8	290	20
		08-28-96	89.30	4085	14.0	1050	7.7	270	21
420800104122501		04-18-96	65.20	4275	13.0	544	7.8	550	24
		08-27-96	64.40	4275	15.0	527	8.0	510	27

QUALITY OF GROUND WATER

TETON COUNTY

(GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK)

SNAKE RIVER BASIN

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)
434920110370801	111ALVM	45-115-36bcc01	11-06-95	1455	--	118.00
440657110402601	111ALVM	48-115-21bb02	11-07-95	1030	--	--
440659110402001	111ALVM	48-115-21bb01	11-07-95	1115	--	--
440645110402001	111ALVM	48-115-21bc01	11-07-95	1250	--	37.30
440645110401101	111ALVM	48-115-21bc02	11-07-95	1430	--	--
435407110374001	111ALVM	45-115-02abb01	11-08-95	0930	--	36.30
435357110374101	111ALVM	45-115-02abc01	11-08-95	1120	--	38.35
434927110370801	112TRRC	45-115-36bcb01	11-09-95	1030	--	120.00
	112TRRC	45-115-36bcb01	06-04-96	0950	--	120.00
434920110370801	111ALVM	45-115-36bcc01	06-04-96	1220	--	118.00
435407110374001	111ALVM	45-115-02abb01	06-04-96	1430	--	36.30
435357110374101	111ALVM	45-115-02abc01	06-04-96	1620	--	38.35
440659110402001	111ALVM	48-115-21bb01	06-05-96	1000	--	--
440657110402601	111ALVM	48-115-21bb02	06-05-96	1115	--	--
440645110402001	111ALVM	48-115-21bc01	06-05-96	1250	--	37.30
440645110401101	111ALVM	48-115-21bc02	06-05-96	1500	--	--
435342110380801	111ALVM	45-115-02bdd01	06-06-96	0900	--	12.00
435327110375601	111ALVM	45-115-02cdb01	06-06-96	1100	--	9.40
434920110370801	111ALVM	45-115-36bcc01	08-20-96	1300	--	118.00
434927110370801	112TRRC	45-115-36bcb01	08-20-96	1600	--	120.00
435407110374001	111ALVM	45-115-02abb01	08-21-96	1015	--	36.30
435357110374101	111ALVM	45-115-02abc01	08-21-96	1215	--	38.35
435327110375601	111ALVM	45-115-02cdb01	08-21-96	1430	--	9.40
435342110380801	111ALVM	45-115-02bdd01	08-21-96	1645	--	12.00
440659110402001	111ALVM	48-115-21bb01	08-22-96	0945	--	--
440657110402601	111ALVM	48-115-21bb02	08-22-96	1045	--	--
440645110402001	111ALVM	48-115-21bc01	08-22-96	1220	--	37.30
440645110401101	111ALVM	48-115-21bc02	08-22-96	1350	--	--
434927110370801	112TRRC	45-115-36bcb01	09-16-96	1445	--	120.00
434920110370801	111ALVM	45-115-36bcc01	09-16-96	1715	--	118.00
433939110424001	111ALVM	43-116-25dbd01	09-17-96	0830	--	48.60
433939110425601	111ALVM	43-116-25caa01	09-17-96	1030	--	42.80
433932110430801	111ALVM	43-116-25cca01	09-17-96	1215	--	49.00
434904110364701	111ALVM	45-115-36cac01	09-17-96	1430	--	118.60
434920110365601	111ALVM	45-115-36bcd01	09-17-96	1545	--	119.00
435403110372001	111ALVM	45-115-02aab01	09-17-96	1745	--	32.45
435407110374001	111ALVM	45-115-02abb01	09-18-96	0850	--	36.30
435357110374101	111ALVM	45-115-02abc01	09-18-96	1045	--	38.35
435355110372401	111ALVM	45-115-02aac01	09-18-96	1240	--	32.80
435354110372401	111ALVM	45-115-02aac02	09-18-96	1355	--	38.00
435354110373201	111ALVM	45-115-02aca01	09-18-96	1500	--	5.15
435342110380801	111ALVM	45-115-02bdd01	09-18-96	1655	--	12.00
435327110375601	111ALVM	45-115-02cdb01	09-18-96	1800	--	9.40
440659110402001	111ALVM	48-115-21bb01	09-19-96	0950	--	--
440657110402601	111ALVM	48-115-21bb02	09-19-96	1120	--	--
440701110402501	111ALVM	48-115-16cc01	09-19-96	1240	--	27.10
440645110402001	111ALVM	48-115-21bc01	09-19-96	1400	--	37.30
440645110401101	111ALVM	48-115-21bc02	09-19-96	1500	--	--

TETON COUNTY--Continued

(GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued)

SNAKE RIVER BASIN--Continued

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) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
434920110370801	11-06-95	535	7.9	7.0	590	10.1	108	<1
440657110402601	11-07-95	479	7.6	18.0	595	4.1	56	<1
440659110402001	11-07-95	397	7.8	15.5	595	4.1	53	<1
440645110402001	11-07-95	314	7.7	6.0	595	7.7	79	<1
440645110401101	11-07-95	270	7.5	6.0	595	6.8	70	<1
435407110374001	11-08-95	66	6.4	7.0	597	4.1	43	<1
435357110374101	11-08-95	552	6.7	10.0	597	0.3	3	<1
434927110370801	11-09-95	710	7.3	8.0	583	9.6	106	K18
	06-04-96	678	7.6	10.0	598	7.8	88	<1
434920110370801	06-04-96	298	8.0	9.5	599	9.4	105	<1
435407110374001	06-04-96	53	6.8	6.0	600	7.7	79	<1
435357110374101	06-04-96	181	7.4	6.0	600	0.1	1	K2
440659110402001	06-05-96	410	7.9	15.5	599	5.4	69	<1
440657110402601	06-05-96	500	7.8	19.0	599	4.3	59	<1
440645110402001	06-05-96	388	7.7	7.0	598	6.5	68	<1
440645110401101	06-05-96	296	7.9	8.0	598	7.0	76	<1
435342110380801	06-06-96	90	6.9	6.0	605	3.5	35	<1
435327110375601	06-06-96	208	7.3	6.0	--	--	--	<1
434920110370801	08-20-96	373	7.9	9.0	600	6.8	75	<1
434927110370801	08-20-96	700	7.2	11.0	600	6.2	72	<1
435407110374001	08-21-96	63	6.4	6.0	600	5.4	55	<1
435357110374101	08-21-96	550	6.7	15.0	600	0.4	5	<1
435327110375601	08-21-96	205	6.8	13.0	--	--	--	<1
435342110380801	08-21-96	130	6.7	12.5	--	--	--	<1
440659110402001	08-22-96	405	7.7	16.0	602	4.2	54	<1
440657110402601	08-22-96	496	7.6	19.5	602	4.1	57	<1
440645110402001	08-22-96	375	7.7	6.0	603	4.8	49	<1
440645110401101	08-22-96	288	7.8	8.0	603	6.0	64	<1
434927110370801	09-16-96	687	7.3	8.0	590	7.6	83	<1
434920110370801	09-16-96	425	7.8	7.0	590	10.8	115	<1
433939110424001	09-17-96	154	8.4	8.0	603	1.4	15	<1
433939110425601	09-17-96	105	8.3	8.0	603	6.4	68	<1
433932110430801	09-17-96	149	7.8	8.5	603	3.5	38	<1
434904110364701	09-17-96	230	7.9	7.0	603	7.8	81	<1
434920110365601	09-17-96	201	8.0	8.0	--	--	--	<1
435403110372001	09-17-96	90	6.7	7.0	603	3.0	31	<1
435407110374001	09-18-96	59	6.4	4.0	598	5.8	56	<1
435357110374101	09-18-96	575	6.8	13.0	598	0.5	6	<1
435355110372401	09-18-96	70	6.6	7.0	598	4.5	47	<1
435354110372401	09-18-96	69	6.6	7.0	597	5.4	57	<1
435354110373201	09-18-96	97	6.7	9.0	597	3.9	43	<1
435342110380801	09-18-96	172	6.5	6.0	--	--	--	<1
435327110375601	09-18-96	217	6.6	6.0	--	--	--	<1
440659110402001	09-19-96	406	7.9	15.0	595	4.6	59	<1
440657110402601	09-19-96	494	8.0	18.5	595	4.0	55	<1
440701110402501	09-19-96	464	7.5	10.5	595	7.7	89	K11
440645110402001	09-19-96	337	7.8	6.5	595	0.8	8	<1
440645110401101	09-19-96	273	8.1	6.5	595	4.0	42	<1

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

QUALITY OF GROUND WATER

TETON COUNTY--Continued

(GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued)

SNAKE RIVER BASIN--Continued

STATION NUMBER	DATE	STREP- TOCOCCI 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. (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
434920110370801	11-06-95	<1	213	<0.01	5.30	<0.02	<0.2	0.03
440657110402601	11-07-95	<1	194	<0.01	0.06	<0.02	<0.2	<0.01
440659110402001	11-07-95	<1	168	<0.01	0.12	<0.02	<0.2	0.01
440645110402001	11-07-95	<1	143	<0.01	2.50	<0.02	<0.2	0.22
440645110401101	11-07-95	<1	135	<0.01	0.26	<0.02	<0.2	<0.01
435407110374001	11-08-95	<1	29	<0.01	0.15	0.02	<0.2	0.02
435357110374101	11-08-95	<1	125	<0.01	<0.05	1.50	2.3	0.67
434927110370801	11-09-95	K4	294	0.06	8.40	0.03	0.4	0.25
	06-04-96	<1	--	<0.01	9.30	0.04	0.3	0.16
434920110370801	06-04-96	<1	--	<0.01	1.10	0.03	<0.2	0.04
435407110374001	06-04-96	<1	--	<0.01	0.11	0.06	0.2	0.03
435357110374101	06-04-96	<1	--	<0.01	0.05	0.77	1.1	1.30
440659110402001	06-05-96	<1	--	<0.01	0.11	0.05	<0.2	0.05
440657110402601	06-05-96	<1	--	<0.01	0.08	0.04	<0.2	0.02
440645110402001	06-05-96	<1	--	<0.01	0.94	0.04	<0.2	0.13
440645110401101	06-05-96	55	--	<0.01	0.12	0.04	<0.2	0.02
435342110380801	06-06-96	<1	--	<0.01	0.05	0.07	0.4	0.02
435327110375601	06-06-96	210	--	<0.01	0.05	0.24	0.8	<0.01
434920110370801	08-20-96	<1	--	<0.01	2.30	0.03	<0.2	0.05
434927110370801	08-20-96	<1	--	<0.01	7.80	0.03	0.2	0.26
435407110374001	08-21-96	<1	--	<0.01	0.11	0.03	<0.2	0.03
435357110374101	08-21-96	<1	--	<0.01	<0.05	2.40	3.1	1.50
435327110375601	08-21-96	<1	--	<0.01	<0.05	0.22	0.7	<0.01
435342110380801	08-21-96	<1	--	<0.01	<0.05	0.26	0.6	<0.01
440659110402001	08-22-96	<1	--	<0.01	0.11	0.04	<0.2	0.03
440657110402601	08-22-96	K2	--	<0.01	0.08	0.05	<0.2	0.02
440645110402001	08-22-96	K12	--	<0.01	1.40	0.04	<0.2	0.20
440645110401101	08-22-96	K3	--	<0.01	0.12	0.04	<0.2	0.02
434927110370801	09-16-96	<1	--	<0.01	5.30	<0.02	0.3	0.37
434920110370801	09-16-96	<1	--	<0.01	3.70	<0.02	<0.2	0.05
433939110424001	09-17-96	K2	--	<0.01	0.12	<0.02	<0.2	0.02
433939110425601	09-17-96	<1	--	<0.01	0.24	<0.02	<0.2	0.02
433932110430801	09-17-96	<1	--	--	--	--	--	--
434904110364701	09-17-96	<1	--	--	--	--	--	--
434920110365601	09-17-96	K6	--	--	--	--	--	--
435403110372001	09-17-96	<1	--	--	--	--	--	--
435407110374001	09-18-96	<1	--	<0.01	0.17	0.02	<0.2	0.03
435357110374101	09-18-96	<1	--	0.01	0.08	2.90	3.3	1.70
435355110372401	09-18-96	<1	--	--	--	--	--	--
435354110372401	09-18-96	<1	--	--	--	--	--	--
435354110373201	09-18-96	<1	--	--	--	--	--	--
435342110380801	09-18-96	<1	--	0.01	0.09	0.19	0.4	0.04
435327110375601	09-18-96	<1	--	0.01	0.08	0.22	0.3	<0.01
440659110402001	09-19-96	<1	--	<0.01	0.14	<0.02	<0.2	0.02
440657110402601	09-19-96	<1	--	<0.01	0.11	0.03	<0.2	0.02
440701110402501	09-19-96	100	--	--	--	--	--	--
440645110402001	09-19-96	K3	--	0.03	0.71	0.03	<0.2	0.26
440645110401101	09-19-96	K1	--	<0.01	0.16	<0.02	<0.2	0.02

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

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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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