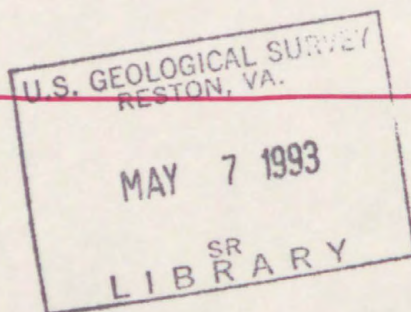


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Water Resources Data Wyoming Water Year 1992



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-92-1
Prepared in cooperation with the State of Wyoming
and with other agencies

CALENDAR FOR WATER YEAR 1992

1991

OCTOBER

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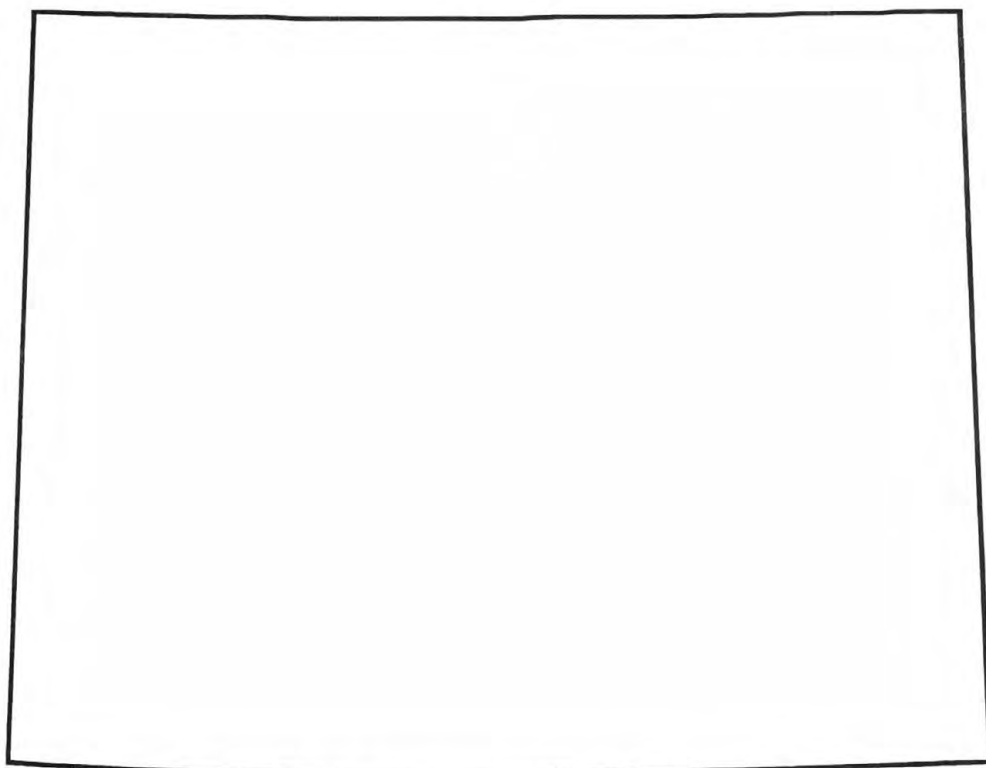
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Water Resources Data Wyoming Water Year 1992

by S.A. Druse, W.R. Glass, G.F. Ritz, and M.L. Smalley



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-92-1
Prepared in cooperation with the State of Wyoming
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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Cheyenne, Wyoming 82001

1993

WATER RESOURCES DATA - WYOMING, 1992

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 State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

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

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

R. C. Baumann	H. I. Kennedy	N. K. Ruby	J. d. Walgren
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F. L. Feeler	T. J. Leman	M. E. Smith	T. F. Werth
N. Friday	G. J. Metzger	D. St.Clair	R. E. Woodruff
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S. L. Green, C. E. Terry, and L. D. Young typed and assembled the text of the report.

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

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16. Abstract (Limit: 200 words) Water resources data for the 1992 water year for Wyoming consists of records of stage, discharge and water quality of streams; stage and contents of lakes and reservoirs, and water levels and water quality of ground water. This report contains discharge records for 207 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 58 gaging stations and 51 ungaged stations; and water levels for 5 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.			
17. Document Analysis a. Descriptors *Wyoming, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow-rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperature, Sampling sites, Water levels, Water analyses. b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
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North Platte River below Glendo Reservoir, WY (d)	.06652800	326
Horseshoe Creek near Cassa, WY (d)	.06653300	327
Horseshoe Creek near Glendo, WY (d)	.06653500	328
Guernsey Reservoir near Guernsey, WY (v)	.06655500	329
North Platte River below Guernsey Reservoir, WY (d)	.06656000	330
North Platte River below Whalen diversion dam, WY (d)	.06657000	332
Laramie River and Pioneer Canal near Woods, WY (d)	.06659500	334
Sand Creek at Colorado-Wyoming State line (d)	.06659580	336
Laramie River at Two Rivers, WY (p)	.06660500	337
Little Laramie River near Filmore, WY (d)	.06661000	338
Little Laramie River at Two Rivers, WY (p)	.06661500	339
Laramie River near Bosler, WY (d,c,s)	.06661585	340
Laramie River near Lookout, WY (d)	.06662000	342
Laramie River below Luman Creek, near Wheatland, WY (p)	.06663900	343
Sybille Creek above Mule Creek, near Wheatland, WY (d)	.06664400	344
Sybille Creek above Canal No. 3, near Wheatland, WY (d)	.06665790	345
Wheatland Creek below Wheatland, WY (c,m)	.06669050	346
Laramie River near Fort Laramie, WY (d)	.06670500	347
Rawhide Creek near Lingle, WY (d)	.06671000	349
Cherry Creek drain near Torrington, WY (d)	.06672500	350
Katzner drain near Henry, NE (d)	.06673500	351
North Platte River at Wyoming-Nebraska State line (d,c)	.06674500	352
Horse Creek:		
Bear Creek below Lovercheck Canyon, near LaGrange (p)	.06676905	353
North Platte River at Mitchell, NE (d)	.06679500	354

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<u>MISSOURI RIVER BASIN--Continued</u>		
<u>PLATTE RIVER BASIN--Continued</u>		
<u>South Platte River:</u>		
Crow Creek at Roundtop Road, near Cheyenne, WY (p)	.06755800	355
Diamond Creek at F.E. Warren AFB, WY (d)	.06755860	356
Diamond Creek at mouth, at F.E. Warren AFB, WY (d)	.06755880	357
Crow Creek at F.E. Warren AFB, WY (c,m,p)	.06755950	358
Crow Creek near Cheyenne, WY (p)	.06756000	360
Crow Creek near Archer, WY (c,m)	.06756060	361
Crow Creek near Carpenter, WY (d,p)	.06756100	363
<u>COLORADO RIVER BASIN</u>		
<u>GREEN RIVER BASIN</u>		
Green River at Warren Bridge, near Daniel, WY (d)	.09188500	365
<u>New Fork River:</u>		
Pine Creek above Fremont Lake, WY (d,t)	.09196500	366
Fremont Ditch near Pinedale, WY (d)	.09196940	369
Highland Ditch near Pinedale, WY (d)	.09196960	370
<u>New Fork River:</u>		
Pine Creek below Fremont Lake, WY (d)	.09197000	371
East Fork River near Big Sandy, WY (d)	.09203000	372
New Fork River near Big Piney, WY (d)	.09205000	373
Dry Piney Creek near Big Piney, WY (c,s)	.09207700	374
Green River near La Barge, WY (d,c,m,s)	.09209400	375
Fontenelle Creek near Herschler Ranch, near Fontenelle, WY (d)	.09210500	378
Fontenelle Reservoir near Fontenelle, WY (e,v)	.09211150	379
Green River below Fontenelle Reservoir, WY (d,c)	.09211200	380
Big Sandy River near Farson, WY (d)	.09213500	383
Big Sandy Reservoir near Farson, WY (v)	.09213700	385
Big Sandy River below Farson, WY (d,c)	.09215550	386
Big Sandy River at Gasson Bridge, near Eden, WY (d,c,s)	.09216050	388
Bitter Creek above Killpecker Creek, at Rock Springs, WY (c,m,s)	.09216790	390
Green River near Green River, WY (d,c,t,s)	.09217000	391
Green River below Green River, WY (c)	.09217010	399
Blacks Fork near Millburne, WY (d)	.09218500	400
East Fork of Smiths Fork, near Robertson, WY (d)	.09220000	401
Hams Fork below Pole Creek, near Frontier, WY (d)	.09223000	402
Blacks Fork near Little America, WY (d,c,t)	.09224700	404
Henrys Fork near Manila, UT (d)	.09229500	408
Flaming Gorge Reservoir at Flaming Gorge Dam, UT (e,v)	.09234400	410
Green River near Greendale, UT (d,c,t)	.09234500	411
<u>Yampa River:</u>		
Little Snake River near Slater, CO (d)	.09253000	417
Slater Fork near Slater, CO (d)	.09255000	418
Savery Creek near Savery, WY (d)	.09256000	420
Little Snake River near Dixon, WY (d)	.09257000	422
Willow Creek near Dixon, WY (d)	.09258000	424
Little Snake River below Baggs, WY (c,s)	.09259050	426
<u>GREAT SALT LAKE BASIN</u>		
<u>BEAR RIVER BASIN</u>		
Bear River near Utah-Wyoming State line (d)	.10011500	427
Sulphur Creek above reservoir, below La Chapelle Creek, near Evanston, WY (d)	.10015700	429
Sulphur Creek below reservoir, near Evanston, WY (d)	.10015900	430
Bear River at Evanston, WY (d)	.10016900	431
Bear River above reservoir, near Woodruff, UT (d,c,s)	.10020100	432
Woodruff Narrows Reservoir near Woodruff, UT (e,v)	.10020200	434
Bear River below reservoir, near Woodruff, UT (d)	.10020300	435
Bear River near Randolph, UT (d)	.10026500	436
Twin Creek at Sage, WY (c,s)	.10027000	437
Bear River below Pixley Dam, near Cokeville, WY (d)	.10028500	438
Smiths Fork near Border, WY (d)	.10032000	439
Smiths Fork at Cokeville, WY (c,s)	.10035000	440
Bear River below Smiths Fork, near Cokeville, WY (d)	.10038000	441
Bear River at Border, WY (d,c,m,s)	.10039500	442
Thomas Fork near Wyoming-Idaho State line (d)	.10041000	445
<u>SNAKE RIVER BASIN</u>		
Snake River above Jackson Lake, at Flagg Ranch, WY (d,c,m,r,s)	.13010065	446
Jackson Lake near Moran, WY (v)	.13010500	451
Snake River near Moran, WY (d)	.13011000	452
<u>PACIFIC CREEK BASIN</u>		
Pacific Creek at Moran, WY (d,c,s)	.13011500	453
<u>BUFFALO FORK BASIN</u>		
Buffalo Fork above Lava Creek, near Moran, WY (d)	.13011900	456
<u>GROS VENTRE RIVER BASIN</u>		
Gros Ventre River at Zenith, WY (d)	.13015000	457

	Station number	Page
<u>SNAKE RIVER BASIN--Continued</u>		
FLAT CREEK BASIN		
Flat Creek near Jackson, WY (d)	13018000	458
Cache Creek near Jackson, WY (d,c,m,r,s)	13018300	459
Flat Creek below Cache Creek, near Jackson, WY (d)	13018350	463
Flat Creek near Cheney, WY (d)	13018500	464
Snake River below Flat Creek, near Jackson, WY (d)	13018750	465
HOBACK RIVER BASIN		
Granite Creek:		
Little Granite Creek at mouth, near Bondurant, WY (d)	13019438	466
Snake River at Astoria Mineral Hot Springs, WY (p)	13020300	468
Snake River above reservoir, near Alpine, WY (d)	13022500	469
GREYS RIVER BASIN		
Greys River above reservoir, near Alpine, WY (d)	13023000	470
SALT RIVER BASIN		
Salt River:		
Stump Creek near Auburn, WY (c,r)	13026000	472
Salt River above reservoir, near Etna, WY (d,c,m,s)	13027500	474
HENRYS FORK BASIN		
Falls River:		
Boundary Creek near Bechler Ranger Station, WY (d)	13046680	477

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 (1992) 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-	--	1983-	1988-	--	
Gibbon River near West Yellowstone, Mont.....	06037000	118	1913-16;1983-	--	1983-	1988-	--	
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-	1988-	--	
Lamar River near Tower Falls Ranger Station, Yellowstone National Park.....	06188000	660	1922-69;1985-86; 1988-	--	1985-86; 1988-	1988-	--	
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-	--	1988-89.	1988-89.	--	
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-	--	--	
Mammoth Springs outflow at Mammoth, Yellowstone National Park.....	06190415	--	--	--	1988-	--	--	
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.	--	--	

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							
Gardner River--continued							
Hot River at Mammoth, Yellowstone National Park..	06190540	--	1988-	--	1988-	--	--
Gardner River near Mammoth, Yellowstone National Park.....	06191000	202	1938-72;1984-	--	1984-85; 1987-	1988-	--
LaDuke (Corwin) Hot Springs near							
Corwin Springs, Mont.....	06191400	--	--	--	1987-	--	--
Yellowstone River at Corwin Springs (Horr), Mont....	06191500	2,623	1889-1893;1910-	--	1988-	1985-	--
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.	--	--	--	--
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	1991-92.	--	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.	--

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							
Crow Creek near Tipperary.....	06222700	30.2	1962-	--	1974-	--	--
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.	--	--
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-	1949-51; 1959-65; 1971;1977; 1985-	1973-78; 1986-
South Fork Little Wind River above 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.	--	--	--
(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-	--	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.	--	--

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							
Little Wind River--continued							
Trout Creek at Wind River.....	06230000	33.6	1909.	--	--	--	--
Mill Creek above Ray Lake outlet canal, near Fort Washakie.....	06230190	15.8	1990-	--	1990.	--	--
Ray Lake near outlet, near Fort Washakie.....	06230300	--	--	--	1960-70.	--	--
Little Wind River near Arapahoe.....	06230500	618	1950-53.	--	1992.	--	1992.
Little Wind River tributary near Hudson.....	06230800	2.98	--	1961-71.	--	--	--
Little Wind River above Arapahoe (Agency).....	06231000	660	1906-9;1911-18; 1979-	--	1966-92.	--	1973-77; 1989-92.
Middle (Middle Fork) Popo Agie River (Popo Agie River) near Lander.....	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-	--	--	--	--
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-	--	1980-	--	1983; 1989.
Little Wind (Popo Agie) River below Arapahoe (Agency).....	06234000	1,464	1906-9;1911-18.	--	--	--	--
Beaver Creek near Lander.....	06234500	113	1938-41.	--	--	--	--
South Fork Hall Creek near Lander.....	06234700	3.88	--	1960-72.	--	--	--
Big Sand Draw:							
Bobcat Draw near Sand Draw.....	06234800	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-	1987-

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							
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-	1991.	1974-89.
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.....	06238780	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.	--	--	--	--
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.	--

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WATER RESOURCES DATA - WYOMING, 1992

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--continued							
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.	--	--	--	--
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.	--

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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								
Wind River--continued								
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.	--	--	--	
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.	
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-	--	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.	--	--	--	--	

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
MISSOURI RIVER BASIN--continued							
YELLOWSTONE RIVER BASIN--continued							
Bighorn River--continued							
South Fork Owl Creek--continued							
North Fork Owl Creek near Anchor.....	06262000	54.8	1941-62.	--	--	--	--
North Fork Owl Creek above Basin Ranch (below Cup Creek), near Anchor.....	06262300	e61	1962-75;1991-	--	--	--	--
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 county bridge, near Hamilton Dome.....	06265337	--	--	--	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.
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.

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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							
Bighorn River--continued							
Fifteenmile Creek--continued							
Middle Fork Fifteenmile Creek--continued							
Big Gin Reservoir (on unnamed tributary).....	06268000	0.94	1954-59d;1960-67c.	--	--	--	--
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.	--	--
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.	--

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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							
YELLOWSTONE RIVER BASIN--continued							
Bighorn River--continued							
Greybull River--continued							
Wood River at Kirwin.....	06274810	11.4	1970-78.	--	--	1975.	--
Wood River at Sunshine.....	06275000	e194	1945-92.	--	--	1975.	--
Wood River near Meeteetse.....	06275500	211	1910-12; 1914-17; 1929-49.	--	--	--	--
Greybull River near Meeteetse.....	06276000	659	1910-12; 1915-16; 1920.	--	--	--	--
Greybull River at Meeteetse.....	06276500	681	1897; 1903; 1920-	--	--	1975.	--
Bench Canal near Burlington.....	06277000	--	1930-38.	--	--	--	--
Greybull River near Basin.....	06277500	1,115	1930-73.	--	1951-53; 1965-	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.
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-	--	1989-	1989-	--
Crow Creek at mouth, near Pahaska.....	06279795	19.1	1989-	--	1989-	1989-	--
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.	--	--	--	--

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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							
YELLOWSTONE RIVER BASIN--continued							
Bighorn River--continued							
North Fork 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-	--	--
Shoshone River near Garland.....	06284400	2,036	1958-79.	--	1958-59; 1967-71; 1974-	--	--
Bitter Creek below sewage lagoon, near Powell..	06284450	--	--	--	1981-	--	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.
Whistle Creek near Garland.....	06284800	101	1958-60;1968-87.	--	1959-60; 1969-87.	--	--
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.	--

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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							
YELLOWSTONE RIVER BASIN--continued							
Bighorn River--continued							
Crooked Creek near Lovell.....	06286260	e119	1964-67.	--	--	--	--
Porcupine Creek near Lovell.....	06286270	e135	1964-67.	--	--	--	--
Bighorn Lake (Yellowtail Reservoir) near St. Xavier, Mont.....	06286400	19,626	1965-	--	--	--	--
Bighorn River near St. Xavier, Mont.....	06287000	19,667	1934-	--	1966-81.	--	--
Little Bighorn River below Dayton Gulch, near Burgess Junction.....	06288600	15.9	1982-87.	--	--	--	--
Dry Fork below Lick Creek, near Burgess Junction.....	06288700	54.1	1982-87.	--	--	--	--
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-	--	--	--	--
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.	--	--	--	--
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.....							
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.	--	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
MISSOURI RIVER BASIN--continued							
YELLOWSTONE RIVER BASIN--continued							
Tongue River--continued							
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.	--	--	--	--
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-	--	--	--	--
Snail Creek near big Horn.....	06301490	1.36	1990-	--	--	--	--
Coney Creek below Twin Lakes, near Big Horn..	06301495	8.07	1990-	--	--	--	--
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-	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.	--	--	--	--
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.	--	--

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							
Middle Fork Powder River--continued							
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.	--	--	--
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. 1961-84.	--	--	--
Coal Draw near Midwest.....	06313100	11.4	--	1961-84.	--	--	--
Dugout Creek:							
Dugout Creek tributary near Midwest.....	06313180	b.8	1975-83.	1965-74.	--	1982-83.	--
Hay Draw near Midwest.....	06313200	1.60	--	1958-70.	--	--	--
Salt Creek near Sussex.....	06313400	769	1976-81;1982-	--	1967-	1975-81; 1983-87.	1976-77; 1980.
North Spring Draw near Sussex.....	06313450	5.21	--	1980-81.	--	--	--
Powder River at Sussex.....	06313500	e3,090	1938-40;1950-57; 1977-84;1985-	--	1966-68; 1976-	1967; 1976-87.	1976-81.
Bugher Draw near Buffalo.....	06313600	4.57	--	1961-71.	--	--	--
Van Houten Draw near Buffalo.....	06313630	10.8	--	1971-81.	--	--	--
Powder River above Dead Horse Creek, near Buffalo (formerly 441252106090801).....	06313665	--	--	--	1978; 1988-89.	--	--
Dead Horse Creek near Buffalo.....	06313700	151	1971-90.	1958-71.	1976; 1980-81; 1989.	1976.	1976; 1978.

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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							
Powder River--continued							
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.	--	--	--	--
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.	--	--	--	--
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.
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.

Footnotes at end of table.

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

XXVI

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								
Clear Creek at Ucross.....	06320400	409	1976-81.	--	1975-81; 1983-	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.	--	--	--	--	
Cruez 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-	1976-78.	1975-80.	
Clear Creek near Arvada.....	06324000	1,110	1915-19;1928-29; 1939-82.	--	1949-54; 1966-	1966-67; 1975-83.	1975-80.	
Powder River at Moorhead, Mont.....	06324500	8,088	1929-72;1974-	--	1950-53; 1955-57; 1968-72; 1974-	1974-	--	
Little Powder River:								
Little Powder River tributary near Gillette....	06324800	.81	--	1960-81.	--	--	--	
Rawhide Creek:								
Box Draw:								
Box Draw tributary near Gillette.....	06324810	.5	--	1965-72.	--	--	--	
Rawhide Creek tributary near Gillette.....	06324820	2.6	--	1965-72.	--	--	--	
Little Powder River below Corral Creek, near Weston.....	06324890	204	1975;1977-83.	--	1975-83.	1975-83.	1976-82.	
Cedar Draw near Gillette (formerly Little Powder River tributary No. 2 near Gillette).....	06324900	3.45	--	1959-81.	--	--	--	
Cow Creek:								
Cow Creek tributary near Weston.....	06324910	.72	--	1971-84.	--	--	--	
Little Powder River near Weston.....	06324925	540	1977-81.	--	1969; 1975-81.	1975-81.	1975-81.	
Little Powder River above Dry Creek, near Weston.	06324970	1,235	1972-	--	1975-82; 1985-	1975-82.	1975-82.	
Little Powder River near Wyoming-Montana State line.....	06324985	--	--	--	1969-70.	--	--	
LITTLE MISSOURI RIVER BASIN								
Little Missouri River near New Haven.....	06332800	--	--	--	1976-77.	--	1976-77.	
CHEYENNE RIVER BASIN								
Antelope Creek (head of Cheyenne River):								
Wind Creek:								
Reservoir No. 13.....	06361500	.60	1951-54g.	--	--	--	--	

Footnotes at end of table.

WATER RESOURCES DATA - WYOMING, 1992

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							
Sand Creek:							
Reservoir No. 35A.....	06362000	0.61	1952-54g.	--	--	--	--
Reservoir No. 13A.....	06363000	.28	1952-54g.	--	--	--	--
Porcupine Creek:							
Reservoir No. 10B.....	06363500	.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.	--	--	--	--
Black Thunder Creek:							
Little Thunder Creek:							
Reservoir No. 10.....	06375000	.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.	--	--	--	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
MISSOURI RIVER BASIN--continued							
CHEYENNE RIVER BASIN--continued							
Cheyenne River--continued							
Lodgepole Creek--continued							
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.	--	--	--	--
Reservoir No. 42 (on Twentymile Draw).....	06382000	.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-	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.	--	--	--	--

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WATER RESOURCES DATA - WYOMING, 1992

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							
Skull Creek:							
Oil Creek:							
Reservoir No. 4.....	06388500	0.11	1951-54g.	--	--	--	--
Blacktail Creek:							
Blacktail Creek tributary near Newcastle.....	06388800	.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.....	06394500	e1,540	1904-6;1928-32.	--	--	--	--
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.
Caballo Creek near Gillette.....	06425800	122	--	1959-69.	--	--	--
Caballo Creek at mouth, near Piney.....	06425900	260	1977-83.	--	1978-80; 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.	--	--	--

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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							
CHEYENNE RIVER BASIN--continued							
Cheyenne River--continued							
Belle Fourche River--continued							
Donkey Creek--continued							
Donkey Creek tributary near Gillette.....	06426200	0.28	--	1960-76.	--	--	--
Donkey Creek near Moorcroft.....	06426400	246	1977-81.	--	1977-89.	1977-81.	1977-81; 1983-89.
Belle Fourche River below Moorcroft.....	06426500	1,643	1943-70; 1975-83; 1985-87; 1990-	--	1975-	1976-83; 1986-87; 1990-	1975-
Keyhole Reservoir near Moorcroft.....	06427000	1,953	1952-	--	--	--	--
Belle Fourche River below Keyhole Reservoir.....	06427500	1,954	1951-	--	1969; 1984-90.	--	--
Inyan Kara Creek near Upton.....	06427700	96.5	--	1959-84.	1968; 1974.	--	--
Belle Fourche River at Devils Tower.....	06427850	--	--	--	1967-	--	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.
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.
Redwater Creek:							
Rocky Ford Creek:							
Ogden Creek near Sundance.....	06429300	8.42	--	1962-81.	--	--	--
Sundance Creek:							
Sundance Creek tributary above forest boundary, at Sundance.....	06429375	.76	--	1969-72.	--	--	--
Sundance Creek tributary at Sundance.....	06429380	1.40	--	1965-68.	--	--	--
Sundance Creek tributary near Sundance.....	06429400	1.80	--	1962-71.	--	--	--
Cold Springs Creek (head of Sand Creek), at Buckhorn.....	06429500	19.0	1974-82; 1991-	--	--	--	--
Sand Creek above Ranch A, near Beulah.....	06429898	--	--	--	1987-91.	--	--
Sand Creek at Ranch A, near Beulah.....	06429900	260	1974-76.	--	1987-91.	--	--
Sand Creek near Ranch A, near Beulah.....	06429905	267	1976-83; 1991-	--	1981-83.	--	1981-83.
Murray ditch above headgate at Wyoming-South Dakota State line.....	06429997	--	1987-	--	--	--	--
Murray ditch at Wyoming-South Dakota State line	06430000	--	1954-87.	--	--	--	--
Redwater Creek at Wyoming-South Dakota State line	06430500	471	1929-31; 1936-37; 1954-	--	1969-70.	1971-83.	--
NIOBRARA RIVER BASIN							
Niobrara River at Wyoming-Nebraska State line.....	06454000	e450	1955-	--	--	--	--
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.	--	--	--	--

Footnotes at end of table.

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WATER RESOURCES DATA - WYOMING, 1992

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							
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-	--	--	--	--
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.	--	--
East Fork Encampment River at mouth, near							
Encampment.....	06623790	--	--	--	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.	--	--
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.	--	--	--

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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							
Pass Creek--continued							
Pass Creek tributary near Walcott.....	06629300	0.66	--	1963-67.	--	--	--
Pass Creek near Walcott.....	06629500	230	1911.	--	--	--	--
St. Mary Creek:							
St. Mary Creek tributary No. 2 near Hanna.....	06629600	3.90	--	1963-67.	--	--	--
Kenny Creek near Hanna.....	06629650	.46	--	1963-67.	--	--	--
St. Mary Creek tributary near Sinclair.....	06629700	.46	--	1959-71.	--	--	--
Sugar Creek:							
Coal Creek near Rawlins.....	06629800	7.32	--	1959-81.	--	--	--
Great Divide basin:							
Delaney Draw near Red Desert.....	06629850	32.8	--	1961-75.	--	--	--
North Platte River above Seminole Reservoir, near Sinclair (Parco).....	06630000	b4,175	1939-	--	1960-	1974;1986-	1973-
Big Ditch:							
Big Ditch tributary near Hanna.....	06630200	7.42	--	1959-81.	--	--	--
Big Ditch near Coyote Springs.....	06630300	110	1975-81.	--	1976; 1978-81.	1976; 1978-81.	--
North Ditch near Coyote Springs.....	06630330	22.6	1976-81.	--	1976; 1978-81.	1976;1980.	--
Medicine Bow River at Bow Ranger Station, near Elk Mountain.....	06630440	28.7	1972-75.	--	--	--	--
East Fork Medicine Bow River near Elk Mountain...	06630480	17.8	1972-75.	--	--	--	--
Medicine Bow River near Elk Mountain.....	06630500	65.6	1946-47.	--	--	--	--
Mill Creek near Elk Mountain.....	06630600	25.8	--	1963-65.	--	--	--
Bear Creek near Elk Mountain.....	06630800	8.93	--	1962-74.	--	--	--
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-	--	--	--	--
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.	--	--	--

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							
Platte River--continued							
Medicine Bow River--continued							
Little Medicine Bow River--continued							
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.	--	--	--
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-	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-	--	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.	--
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.	--	--

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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							
Sweetwater River--continued							
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-	--	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.
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-	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-	--	--	--	--

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							
Smith Creek at Otter Creek, near Casper.....	06645160	10.9	1974-79.	--	--	--	--
Otter Creek at mouth, near Casper.....	06645164	6.50	1987-	--	--	--	--
Smith Creek below Otter Creek, near Casper.....	06645166	18.5	1987-	--	--	--	--
Beaver Creek above Pole Creek, near Casper.....	06645174	4.67	1987-	--	--	--	--
Pole Creek near Casper.....	06645178	2.70	1987-	--	--	--	--
North Platte River at Parkerton.....	06645500	b17,135	1919-24.	--	--	--	--
Deer Creek in Canyon, near Glenrock.....	06646000	139	1946-51;1985-	--	1985-91.	1985-91.	1985-91.
Little Deer Creek above East Cart Creek, near Glenrock.....	06646280	3.89	1974-76.	--	--	--	--
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. 1979.	--	--
North Platte River below Deer Creek, near Glenrock...	06646610	--	--	--	--	--	--
Dry Creek:							
East Fork Dry Creek:							
East Fork Dry Creek tributary near Glenrock....	06646700	2.60	--	1961-81.	--	--	--
Sand Creek near Glenrock.....	06646780	79.9	1977-81.	--	1978-80.	1978-80.	1978-80.
North Platte River near Glenrock.....	06646800	b13,538	1959-92.	--	1960-86.	1976.	--
Running Dutchman Canal near Careyhurst.....	06647000	--	1935-50.	--	--	--	--
North Platte River near Careyhurst.....	06647020	--	--	--	1969-76.	--	--
Box Elder Creek at Boxelder.....	06647500	63.0	1946-51;1961-67; 1971-	--	--	--	--
Box Elder Creek near Boxelder.....	06647800	136	1981-84.	--	--	--	--
Box Elder Creek at Converse County Park, near Careyhurst.....	06647810	138	1981-84.	--	--	--	--
Little Box Elder Creek near Careyhurst.....	06647890	7.18	1974-88.	--	--	--	--
Little Box Elder Creek at Little Box Elder Cave, near Careyhurst.....	06647900	8.47	1974-88.	--	--	--	--
Little Box Elder Spring near Careyhurst.....	06647910	--	1980-86.	--	1983.	--	--
Cottonwood Creek near Careyhurst.....	06647920	2.33	1981-84.	--	--	--	--
Box Elder Creek below Interstate 25, near Careyhurst.....	06647990	--	--	--	1981-86.	--	--
Box Elder Creek near Careyhurst.....	06648000	202	1911;1915-24; 1928-33;1935-69.	--	1965.	--	--
Douglas (Morton) Canal near Orpha.....	06648500	--	1935-51.	--	--	--	--
Sage Creek:							
Frank Draw:							
Frank Draw tributary near Orpha.....	06648720	.79	--	1965-73.	--	--	--
Sage Creek tributary near Orpha.....	06648780	1.38	--	1965-84.	--	--	--
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.	--	--	--

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 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	b14,888	1895-99;1917-18; 1924;1958-	--	1966-89.	1971-82.	1973-89.	
Shawnee Creek:								
Shawnee Creek tributary near Orin.....	06652200	.33	--	1961-76.	--	--	--	
Lost Creek:								
Watkins (Watson) Draw near Lost Springs.....	06652400	6.95	--	1960-84.	--	--	--	
Glendo Reservoir near Glendo.....	06652700	b15,545	1958-	--	1975-76h.	--	1975-76h.	
North Platte River below Glendo Reservoir.....	06652800	b15,548	1957-	--	1966-88.	--	1973-82.	
Horseshoe Creek near Esterbrook.....	06653000	45.5	1946-51.	--	--	--	--	
Horseshoe Creek near Binford.....	06653100	e110	1961-64.	--	--	--	--	
Horseshoe Creek near Cassa.....	06653300	195	1961-68;1988-	--	1965.	--	--	
Horseshoe Creek near Glendo.....	06653500	211	1916-18;1921-24; 1928-33;1935-70; 1988-	--	--	--	--	
North Platte River near Cassa.....	06654000	b19,796	1946-57.	--	1953.	--	--	
Cottonwood Creek near Fletcher Park.....	06654500	51.1	1946-51.	--	--	--	--	
Cottonwood Creek below Dagley Creek, near Binford..	06654510	54.0	1974-76.	--	--	--	--	
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. 1981-83.	1979.	1980-81.	
North Platte River near Guernsey.....	06656500	--	--	--	--	--	1981-83.	
North Platte River (at recorder station) below Whalen (below Whalen) diversion dam.....	06657000	b16,425	1909-	--	1970-76.	--	1974.	
Laramie River near (at) Glendevy, Colo.....	06657500	101	1904-5;1910-82.	--	--	--	--	
Laramie River near Jelm.....	06658500	294	1904-5;1910-	--	1965;1968.	--	--	
Laramie River at Woods Landing (Woods).....	06659000	392	1890-92;1895a; 1896-1911.	--	--	--	--	

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 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-	--	--
Little Laramie River near Filmore (Hatton).....	06661000	157	1902-3;1911-26; 1933-	--	--	--	--
Little Laramie River at Two Rivers (at Haley's ranch, near Laramie).....	06661500	b376	1903;1910-27; 1933-72.	--	1965-87; 1990-	--	--
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.	--	--
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-	--	--
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.	--	--
Wheatland Canal No. 2 near Wheatland.....	06666000	--	1952-63.	--	1958-59.	--	--
Sybilie Creek near Muleshoe Ranch, near Wheatland	06666500	507	1950-58.	--	--	--	--
Sybilie Creek at Muleshoe Ranch, near Wheatland..	06666600	508	1958-63;1966-67.	--	1959.	--	--
Sybilie 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.	--	--	--	--

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							
PLATE RIVER BASIN--continued							
North Platte River--continued							
Laramie River--continued							
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. 1956-59.	--	--
Laramie River near Uva.....	06670000	b4,440	1952-68.	--	1956-59.	--	--
Laramie River tributary near Guernsey.....	06670100	1.97	--	1971-79.	--	--	--
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.	--	--	--	--

Footnotes at end of table.

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WATER RESOURCES DATA - WYOMING, 1992

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 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 La Grange.....	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.	--	--	
Horse Creek at Wyoming-Nebraska State line.....	06677100	1,530	1969-71.	--	--	--	--	
North Platte River at Mitchell, Nebr.....	06679500	i24,300	1901-13;1916-18; 1920-	--	--	--	--	
South Platte River near (at) Kersey, Colo.....	06754000	9,598	1901-3;1905-	--	--	--	--	
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	--	--	--	1986-	--	--	
Diamond Creek at F.E. Warren Air Force Base....	06755860	10.8	1992-	--	--	--	--	
Diamond Creek at mouth, at F.E. Warren Air Force Base.....	06755880	10.9	1992-	--	--	--	--	
Crow Creek at F.E. Warren Air Force Base.....	06755950	--	--	--	1983-	--	1987-	
Crow Creek near Cheyenne.....	06756000	297	1922-24;1951-57.	--	1972-75; 1983-	--	1972-75; 1987-	
Crow Creek near Archer.....	06756060	--	--	--	1990-	--	1990-	
Crow Creek near Carpenter.....	06756100	415	1990-	--	1990-	--	1990-	
Lodgepole Creek near Federal.....	06761000	e25	1933-38.	--	--	--	--	
South Fork Lodgepole Creek near Federal.....	06761500	e16	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.	--	--	--	
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.	--	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.	--	--	--	--	

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN--continued							
GREEN RIVER BASIN--continued							
Green River 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	1965-66;1968-70.	--	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.
Fremont Ditch near Pinedale.....	09196940	--	1985-86;1988-	--	--	--	--
Highland Ditch near Pinedale.....	09196960	--	1985-86;1988-	--	--	--	--
Pine Creek below Fremont Lake (at Fremont Lake outlet)(near Pinedale).....	09197000	114	1910-12;1915-18; 1985-86;1988-	--	--	--	--
Pine Creek near Pinedale.....	09197500	118	1904-6.	--	--	--	--
Pine Creek at Pinedale.....	09198000	118	1903-4;1914-54.	--	--	--	--
Pole Creek below Little Half Moon Lake, near Pinedale.....	09198500	87.5	1938-1971.	--	--	--	--
Pole Creek at Fayette.....	09199000	126	1904-6.	--	--	--	--
Fall Creek near Pinedale.....	09199500	37.2	1938-1971.	--	--	--	--
Fall Creek near (at) Fayette.....	09200000	e38	1904-5.	--	--	--	--
Pole Creek near Pinedale.....	09200500	167	1910a.	--	--	--	--
New Fork River (New Fork) near Boulder.....	09201000	552	1914-69.	--	1965; 1967-71.	--	--
Boulder Creek above Boulder Lake, near Boulder..	09201500	115	1938-39.	--	--	--	--
Boulder Creek below Boulder Lake, near Boulder..	09202000	130	1938-73.	--	--	--	--
Boulder Creek near Boulder (New Fork).....	09202500	135	1903-6;1914-24; 1930-32.	--	--	--	--
East Fork River (East Fork) near Big Sandy.....	09203000	79.2	1938-92.	--	1965;1968; 1971; 1975-78.	1975-78.	1976-77.
East Fork at East Fork Canal.....	09203500	106	1915-17;1920-23.	--	--	--	--
Silver Creek near Big Sandy.....	09204000	45.4	1938-1971.	--	1965;1977.	1977.	--
East Fork at Newfork.....	09204500	348	1904-6;1914-24; 1930-32.	--	--	--	--
Sand Springs Draw:							
Sand Springs Draw tributary near Boulder.....	09204700	2.77	--	1961-81.	--	--	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
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.	--	--	--	--	
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-	1965-68; 1971-73; 1990-	--	
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-	1975-82; 1986-	1973-80; 1986-	
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.	--	--	--	--	
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.	

Footnotes at end of table.

WATER RESOURCES DATA - WYOMING, 1992

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN--continued							
GREEN RIVER BASIN--continued							
Green River--continued							
Big Sandy River--continued							
Little Sandy Creek--continued							
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-	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.	--	--	--
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.	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN--continued							
GREEN RIVER BASIN--continued							
Green River--continued							
Bitter Creek--continued							
Salt Wells Creek--continued							
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.
Bitter Creek above Killpecker Creek, at Rock Springs.....	09216790	--	--	--	1983-	1989-	1989-
Killpecker Creek at Rock Springs.....	09216810	--	--	--	1975-80;	--	1975-80;
					1983-87.		1982-83.
Bitter Creek below Little Bitter Creek, near Kanda	09216880	--	--	--	1975-83.	1978;	1975-82.
						1980-82.	
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;	1973-87.
						1970-71;	
						1973-84;	
						1990-92.	
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	e130	1966-86.	--	--	--	--
Blacks Fork at Blacks Fork ranger station, Utah...	09218000	129	1937-39.	--	--	--	--
Blacks Fork near Millburne.....	09218500	152	1939-	--	1969-70;	1975-78.	1976-77.
					1975-78.		
Blacks Fork near Urie.....	09219000	261	1913-24; 1937-55.	--	--	--	--
East Fork of Smiths Fork at China Meadows, near Robertson.....	09219500	36.9	1938-39.	--	--	--	--
East Fork of Smiths Fork near Robertson.....	09220000	53.0	1939-	--	1975-78.	1975-78.	1977.
West Fork of Smiths Fork near Robertson.....	09220500	37.2	1939-81.	--	1975-78.	1975-78.	1977.
Smiths Fork near Robertson.....	09221000	144	1938-39.	--	1969-70;	1976.	1976.
					1976.		
Smiths Fork at Mountainview.....	09221500	192	1941-57.	--	--	--	--
Smiths Fork near Lyman.....	09221650	--	--	--	1974-89.	1975-78.	1974-82.
Mud Spring Hollow:							
Mud Spring Hollow tributary near Lyman.....	09221670	.97	--	1965-72.	--	--	--
Mud Spring Hollow near Church Butte, near Lyman.....	09221680	8.83	--	1965-84.	1977-78.	1977-78.	--
Mud Spring (Hank) Hollow near Lyman.....	09221700	10.2	--	1959-71.	--	--	--
Blacks Fork near Lyman.....	09222000	821	1937-57; 1962-83.	--	1962-89.	1971-81.	1973-80.
Muddy Creek:							
Little Muddy Creek:							
Ryckman Creek near Glencoe.....	09222200	53.4	1980-81.	--	1980-81.	1980-81.	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN--continued							
GREEN RIVER BASIN--continued							
Green River--continued							
Blacks Fork River--continued							
Muddy Creek--continued							
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.	1980-82.	1975-89.
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.	--
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-	--	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-	--	1954-55; 1958-89.	1972; 1975-78; 1989.	1976.

Footnotes at end of table.

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

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

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
GREAT SALT LAKE BASIN								
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.	--	--	--	--	
Sulphur Creek near Evanston.....	10016000	80.5	1942-59.	--	--	--	--	
Bear River at Millis, near Evanston.....	10016500	420	1942-46.	--	--	--	--	
Bear River at Evanston.....	10016900	433	1984-	--	1986;1989.	1988-89.	--	
Yellow Creek near Evanston.....	10017000	79.2	1944-45;1949-78.	--	--	--	--	
Coyote Creek near Evanston.....	10017500	e28	1942-45.	--	--	--	--	
Diversions from Yellow Creek.....	10018000	--	1944-45j.	--	--	--	--	
Yellow Creek below diversions, near Evanston.....	10018500	--	1946-47j.	--	--	--	--	
Yellow Creek at mouth, near Evanston.....	10018900	--	--	--	1983-89.	--	1983-89.	
Bear River near Evanston.....	10019000	715	1913-56.	--	--	--	--	
Chapman Canal at State line, near Evanston.....	10019500	--	1942-86.	--	--	--	--	
Whitney Canyon Creek near Evanston.....	10019700	8.93	--	1965-81.	--	--	--	
Diversions from Bear River between State line and Woodruff gaging stations.....	10020000	--	1944-47j;1953-56j; 1958-k.	--	--	--	--	
Bear River above reservoir, near Woodruff, Utah.....	10020100	752	1961-	--	1968-	1989-	1978-89.	
Woodruff Narrows Reservoir near Woodruff, Utah.....	10020200	784	1965-	--	--	--	--	
Bear River below reservoir, near Woodruff, Utah.....	10020300	784	1961-	--	--	--	--	
Bear River near Woodruff, Utah.....	10020500	e870	1941-61.	--	--	--	--	
Bear River near Randolph, Utah.....	10026500	1,616	1943-	--	--	--	--	
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.	--	--	--	--	

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
GREAT SALT LAKE BASIN--continued							
BEAR RIVER BASIN--continued							
Bear River--continued							
Divisions 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-	--	--	--	--
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.	--	--	--	--
Divisions 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.	1989-92.	--
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-	--	--	--	--
Chalk Creek:							
Chalk Creek Canal near Cokeville.....	10038500	--	1944-45j.	--	--	--	--
Divisions 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; 1965-89.	1978-84; 1986-87.	1973-89.
Thomas Fork near Geneva, Idaho.....	10040000	45.3	1939-51.	--	--	--	--
Thomas Fork near Wyoming-Idaho State line.....	10041000	113	1949-	--	--	--	--
Sheep Creek:							
Sheep Creek tributary near Border.....	10043300	.12	--	1961-64.	--	--	--
Sheep Creek tributary No. 2 near Border.....	10043350	.34	--	1965-71.	--	--	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
SNAKE RIVER BASIN							
Snake River at south boundary of Yellowstone National Park.....	13010000	485	1913-25.	--	--	--	--
Snake River above Jackson Lake, at Flagg Ranch.....	13010065	486	1987-	--	1987-	1987-	1987-
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-	1987-	--
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 near Elk.....	13012500	101	1917-18.	--	1971-72; 1976;1990.	1990.	1976.
Cottonwood Creek near Teton.....	13013000	72.3	1917-18.	--	--	--	--
Spring Creek near Teton.....	13013500	--	1917-18.	--	--	--	--
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 near Wilson.....	13016500	87.4	1917-18.	--	--	--	--
Mosquito Creek near Wilson.....	13017000	24.2	1917-18.	--	--	--	--
Big Spring Creek near Cheney.....	13017500	--	1918.	--	--	--	--
FLAT CREEK BASIN							
Flat Creek near Jackson.....	13018000	40.1	1933-41;1989-	--	1966;1973.	--	--
Cache Creek near Jackson.....	13018300	10.6	1962-	--	1965-	1968-	1969; 1973-
Flat Creek below Cache Creek, near Jackson.....	13018350	129	1989-	--	1973.	--	--
Flat Creek near Cheney.....	13018500	142	1917-18;1989-	--	1981-82.	--	1981-82.
Snake River below Flat Creek, near Jackson.....	13018750	2,627	1975-	--	--	--	--
Horse Creek near Cheney.....	13019000	37.9	1917-18.	--	--	--	--
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.	--	--	--
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.	--	--	--	--

Footnotes at end of table.

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

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
SNAKE RIVER BASIN--continued							
Snake River--continued							
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	e3.60	--	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.	--	--
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-	--	--	--
Salt River above reservoir, near Etna.....	13027500	829	1953-	--	1965-	1989-	1970; 1973-81; 1989-
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.

WATER RESOURCES DATA - WYOMING, 1992

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, municipal, county, and Federal agencies, obtains a large amount of data pertaining to the water resources of Wyoming each water year. The accumulation of this data constitutes 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 the 1992 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 207 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 58 gaging stations and 51 ungaged stations; and water levels for 5 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 in the United States or may be purchased from Books and Open-File Reports, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 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 the 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 report is identified as "U.S. Geological Survey Water-Data report WY-92-1." Water-Data reports are for sale in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (307) 772-2153. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

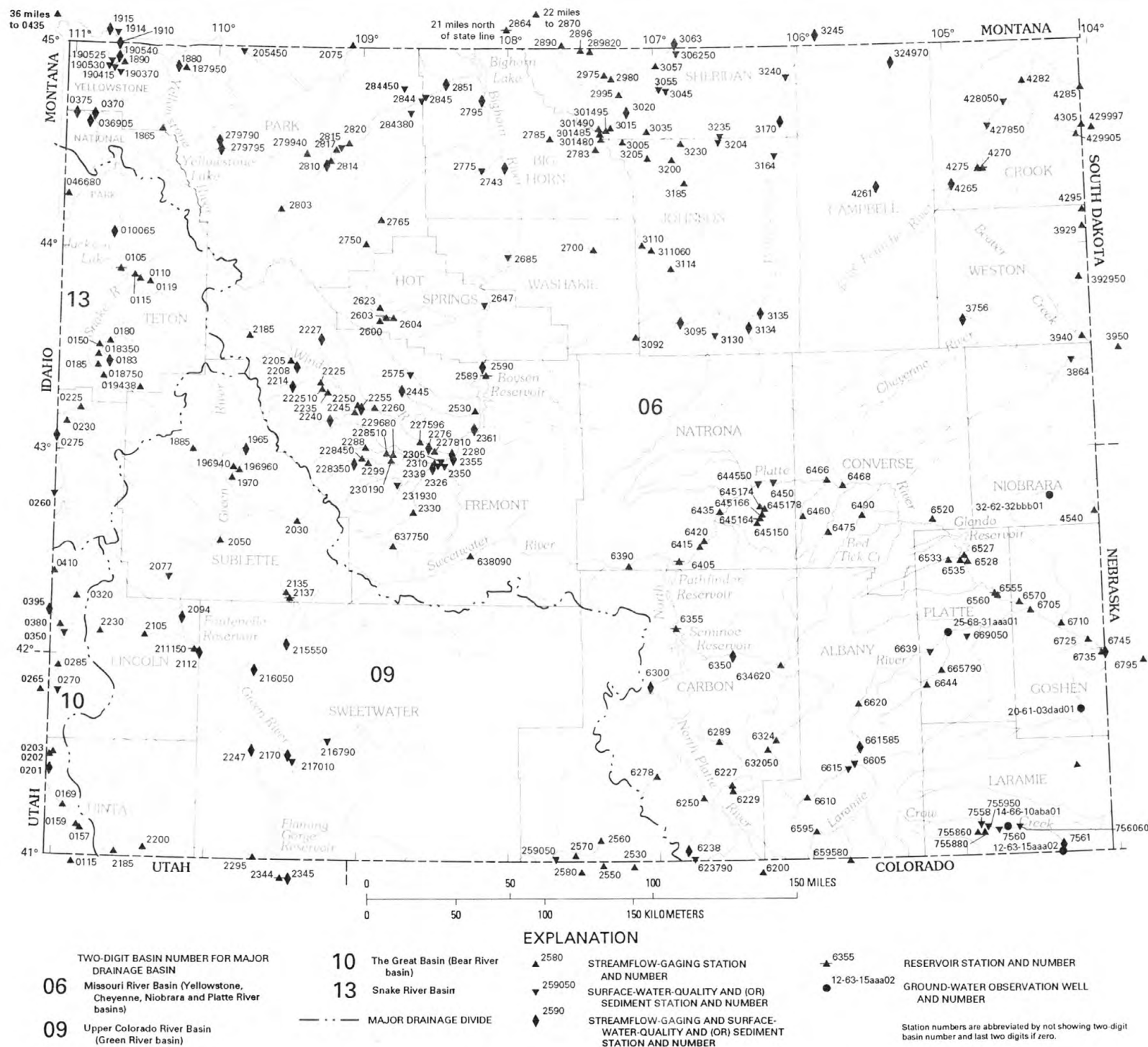


Figure 1.--Location of surface-water stations, water-quality stations, stage and/or content stations, and ground-water observation wells, 1992 water year.

COOPERATION

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

Wyoming State Engineer, Gordon W. Fassett

Wyoming Department of Agriculture, Donald Rolston, Commissioner of Agriculture

Wyoming Water Development Commission, Michael K. Purcell, Administrator

Wyoming Department of Environmental Quality, Dennis Hemmer, Director

Wyoming Water Research Center, Steven P. Gloss, Director

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

Sheridan Area Water Supply Joint Powers Board, David Engels, Project Manager

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

Teton County, County Commissioners

City of Evanston, Dennis J. Ottley, Mayor

City of Gillette, H. A. Carter, Mayor

Midvale Irrigation District, Bill Brown, Manager

Shoshone and Arapaho Tribes, Joint Business Council, Darwin St. Clair and Harvey Spoonhunter, Chairmen

Assistance in the form of funds and 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 Forest Service, U.S. Department of Agriculture for 2 streamflow-gaging stations and 2 water-quality stations; by the Corps of Engineers, U.S. Army for 2 streamflow-gaging stations; U.S. Air Force, Department of Defense for 2 streamflow-gaging stations; and by the Bureau of Land Management, U.S. Department of the Interior for part of a streamflow-gaging station, published in this report.

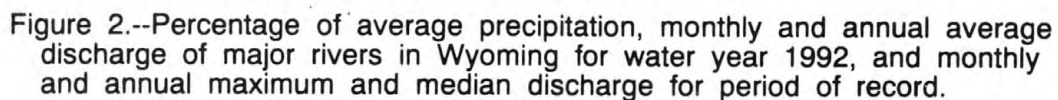
SUMMARY OF HYDROLOGIC CONDITIONS

Hydrologic conditions during water year 1992 in Wyoming were characterized by less-than-average streamflow throughout most of the State. Less-than-normal precipitation was prevalent in western Wyoming with near normal precipitation elsewhere. Although above average precipitation prevailed during water year 1991, water year 1992 was another year of drought conditions that have persisted since 1988. Most of the State continued to be affected by drought, ranging from moderate to extreme, as reported in the 1992 issues of the "Weekly Weather and Crop Bulletin" prepared and published by the National Oceanic and Atmospheric Administration and the U.S. Department of Agriculture Joint Agricultural Weather Facility. The August 22, 1992 issue indicated most of the State was affected by extreme drought as determined by the long-term Palmer drought severity index (which predicts prolonged, months/years, of abnormal dryness or wetness). The major exception was the Bighorn Mountain area in north-central Wyoming which improved to no drought effect. Drought conditions caused several Wyoming counties to be declared federal disaster areas during the year. Counties so designated included Crook and two contiguous counties -- Campbell and Weston; Platte and five contiguous counties -- Albany, Converse, Goshen, Laramie, and Niobrara; and Sublette and four contiguous counties -- Fremont, Sweetwater, Lincoln, and Teton.

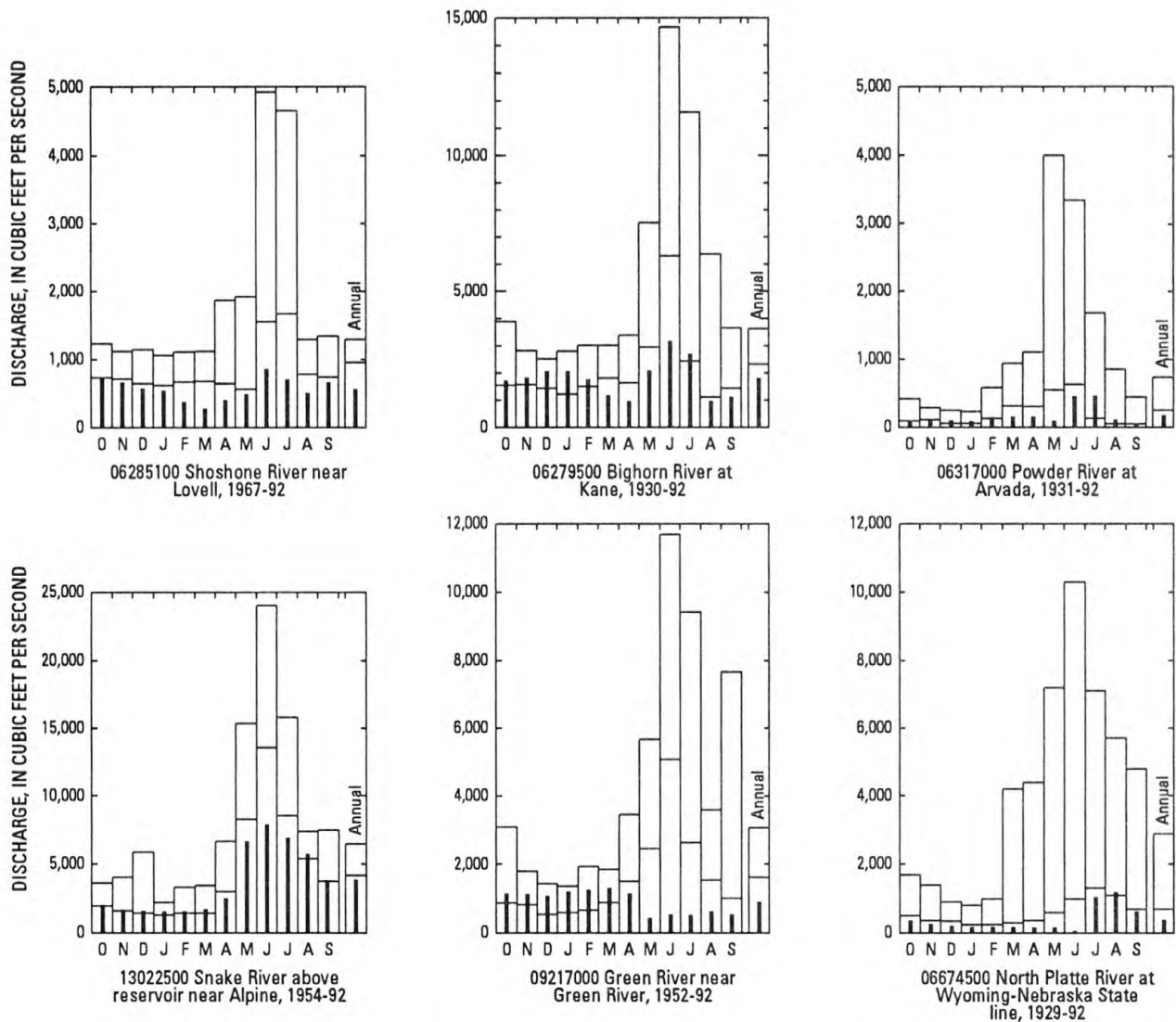
Precipitation

Precipitation during water year 1992 was less than normal (1951-80 average) for the western part of the State, greater than normal in the north-central, and near normal elsewhere. Precipitation and departures from normal for the major divisions (drainage basins) are published by the National Oceanic and Atmospheric Administration. The Snake River basin, and Green/Bear River basins in western Wyoming received 78 and 86 percent of normal precipitation (table 1 and figs. 1 and 2). The Lower [North] Platte River basin in southeastern Wyoming was also less than normal at 95 percent. Precipitation was greater than normal in north-central Wyoming, where the Bighorn River basin received 128 percent of normal, the Wind River basin 119 percent, and the Powder/Little Missouri/Tongue River area, 102 percent. The Upper [North] Platte River basin in south-central Wyoming received 106 percent of normal precipitation.

Precipitation by drainage basin and departures from normal precipitation are cumulated into three groups of months (table 1) to indicate seasonal variations of precipitation. The Snake and Green/Bear River basins in western Wyoming consistently had less-than-normal precipitation through the year. The Bighorn and Wind River basins in north-central Wyoming were consistently above normal in each of the three periods. Elsewhere, precipitation was less than normal in the Powder/Little Missouri/Tongue River and in the Upper [North] Platte River basins during the autumn and winter months (October through March). In addition to the Snake and Green/Bear River basins, less-than-normal precipitation during the spring months occurred in the Lower [North] Platte River basin. During the summer months (July through September) only the Snake and Green/Bear River basins had less-than-normal precipitation.

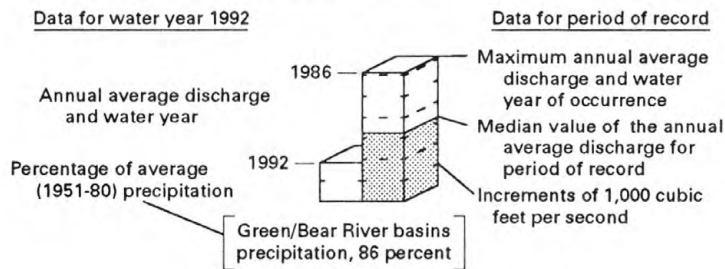


WATER RESOURCES DATA FOR WYOMING 1992



EXPLANATION

COMPARISON OF ANNUAL AVERAGE DISCHARGE



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

MONTHLY OR ANNUAL DISCHARGE

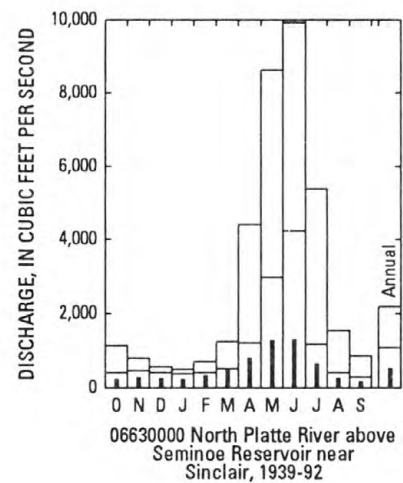
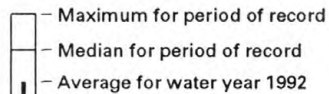


Table 1.--Seasonal precipitation and departures from normal (1951-80)
by drainage basin, water year 1992

[Source: Monthly publications of climatic data by National Oceanic and Atmospheric Administration;
-, negative sign indicates less than normal]

Drainage basin	Precipitation (inches)							
	Autumn and winter (October through March)		Spring (April through June)		Summer (July through September)		Annual	
	Total	Departure	Total	Departure	Total	Departure	Total	Percent of normal
Wind River	3.72	1.09	4.90	0.10	2.63	0.62	11.25	119
Bighorn River	2.83	.23	6.71	2.20	2.70	.24	12.24	128
Powder/Little Missouri/Tongue River	3.62	-.50	6.77	.17	4.03	.67	14.42	102
Upper [North] Platte River	3.69	-.77	4.91	.80	3.66	.66	12.26	106
Lower [North] Platte River	3.95	.38	4.32	-1.96	4.66	.89	12.93	95
Green/Bear River	3.58	-.24	2.59	-.56	1.91	-.51	8.08	86
SNAKE River	7.66	-4.37	5.51	-.13	3.61	-.22	16.78	78

Most of the precipitation stations used to compile the data in table 1 and figure 2 are in nonmountainous areas of the State and data from these stations might not be indicative of precipitation in the mountains. Precipitation in the mountains, in the form of snow, provides most of Wyoming's annual water supply. Precipitation and snowpack in Wyoming's mountains is reported by the U.S. Soil Conservation Service in "Basin Outlook Reports." Graphs in the June 1, 1992 issue indicated that greater-than-normal precipitation occurred throughout most of the mountainous areas of the State in November and May. However, most of the remaining months were near or considerably less than normal. At the end of May 1992, the percent of normal precipitation for mountainous areas in selected basins were as follows:

Wind River basin - 75%
Bighorn River basin - 95%
Upper North Platte River basin - 83%
Lower North Platte/Sweetwater/and Laramie basins - 75%
Upper Green River basin - 57%

The June 1, 1992 issue noted: "Water users throughout the State face a grim water season this summer. Forecasts indicated that streamflow will be below to much below average for the spring and summer runoff period. Accumulated snowpack started melting four to six weeks early this year, so most high elevation snow is gone."

Streamflow

Monthly and annual discharge in most streams reflected the ongoing drought conditions prevalent in most of the State. Graphs for the selected streamflow-gaging stations, shown in figure 2, typify the less-than-average discharge that was common in most streams. The exceptions were those streams in the Bighorn Mountains where streamflow at several gaging stations exceeded the long-term average discharge. The average discharge for water year 1992 at each of the stations in figure 2 was in the lower quartile of annual average discharges for the periods of record, and the average discharge for water year 1992 at 06674500 North Platte River at Wyoming-Nebraska State line was the lowest for the period of record. Mr. Gordon W. Fassett, Wyoming State Engineer, noted in a December 1992 written communication that the total volume of water currently stored in the North Platte Reservoir system is the lowest experienced at this time of year since 1966. Also, the system storage has declined from over 2 million acre-feet at the end of 1986 Water Year to 722,900 acre-feet at the end of water year 1992.

Floods

Flooding, particularly from snowmelt, was moderate throughout the State during water year 1992. The moderate maximum discharges generally reflected the continuing drought and the earlier than normal snowmelt. Maximum discharges at most streamflow-gaging stations in Wyoming had a recurrence interval of 2 years or less. Summer thunderstorms caused locally severe flooding in several streams throughout the State. Most noteworthy of the reports of flooding was that of June 15 in the Crazy Woman Creek, North Fork Powder River, and Clear Creek drainage basins, south and east of Buffalo, Wyoming. Streams in these basins were reported to be out of their banks. The streamflow gage, 06311400 North Fork Powder River below Pass Creek, near Mayoworth had a peak of 1,090 cubic feet per second which has a recurrence interval of about 20 years. Stan Krenz, National Weather Service, Sheridan, reported (oral commun., 1992) that 4.75 inches of precipitation was received in that June 15 thunderstorm at a location 20 miles south of Buffalo. He noted that unconfirmed reports indicated total precipitation as much as 6 inches.

Chemical Quality of Streamflow

Specific conductance of water samples from streams during water year 1992 was not significantly different from that of the previous 10 years, based on the data from seven water-quality stations. Specific conductance was chosen as an indicator of dissolved-solids concentration in water, because the conductance varies directly with the concentration and species of ions in the water. These seven stations were selected to represent the major river basins of Wyoming.

The mean values of specific conductance at each station for water year 1992 was compared to the mean value for the previous 10 water years at that station, 1982-91, using the Wilcoxon-Mann-Whitney rank sum test (table 2). This test is a non-parametric counterpart to the common t-test and does not require the data to be normally distributed. The null hypothesis in each case is that the means are equal. A test static (t_R) was calculated from the ranks and was compared to a table value (t_{tab}) of Student's t-distribution. A pooled standard deviation was used in the calculation of the test statistic. The table value is $(1 - \alpha/2)$, where alpha represents the level of significance of the statistical test. Alpha equalled 0.05 at the appropriate degrees of freedom based on the size of each sample set. At each of the seven stations examined, the absolute value of the test statistic was less than the table value; indicating the mean values of specific conductance at these stations for water year 1992 were not significantly statistically different than the mean values for the previous 10-year period.

Table 2.--Results of rank sum tests comparing mean values of specific conductance for water year 1992 with mean values for water years 1982-91 at selected water-quality sampling stations

[Specific conductance, in microsiemens per centimeter at 25° Celsius; t_R , calculated test statistic; t_{tab} , t-values from standard table.]

Stream name and station number	Specific conductance						Wilcoxon-Mann-Whitney rank sum test		
	Water year 1992			Water years 1982-91			t_R	t_{tab}	Null hypothesis
	Number of values	Mean	Stan- dard devia tion	Number of values	Mean	Stan- dard devia tion			
Bighorn River 06279500	10	977	152	93	924	190	-0.89	1.96	Accepted
Shoshone River 06285100	10	833	189	70	882	260	.92	1.99	Accepted
Powder River 06317000	4	2,220	473	74	2,830	1,210	1.27	1.99	Accepted
North Platte River 06630000	6	443	120	71	395	119	-.69	1.99	Accepted
North Platte River 06674500	9	886	70	81	856	139	-.89	1.98	Accepted
Green River 09217000	10	582	110	68	584	188	-.10	1.99	Accepted
Snake River 13022500	9	309	58	90	319	56	.56	1.98	Accepted

Ground-Water Levels

Ground-water levels were measured in a statewide network of 85 observation wells; most wells are in areas of extensive ground-water withdrawal--mainly in southeastern Wyoming. Water in Niobrara, Goshen, and eastern Laramie Counties is withdrawn from the High Plains aquifer, principally for irrigation; and water in Platte County is withdrawn from alluvium principally for irrigation. Water in central Laramie County is withdrawn from the High Plains aquifer, principally for domestic use.

Water levels were measured and continuously recorded in 65 wells equipped with float-driven digital water-level recorders and at 2 artesian wells equipped with pressure-sensing transducers and electronic data recorders. Water levels in the remaining wells in the network were measured manually by use of a steel tape. The change in water level in wells from water year 1991 to water year 1992 was determined from the difference between the highest water levels (referred to only as water level in the following discussion) measured during each water year.

In water year 1992, as compared to water year 1991, the water level in most observation wells declined throughout the State. Hot Springs and Sweetwater Counties were the only counties where the water level increased in a majority of the observation wells. The water-level change from water year 1991 to water year 1992 in 18 observation wells in Laramie County ranged from about a 3.8-foot rise to about a 5.5-foot decline; the median water-level change for all observation wells in Laramie County was a 0.4-foot decline. Water-level changes in 10 observation wells in Platte County ranged from about a 0.4-foot rise to a 6.0-foot decline; the median water-level change was a 0.3-foot decline. Water-level changes in 6 observation wells in Niobrara County ranged from about a 0.8-foot rise to a 1.2-foot decline; the median water-level change was a 0.1-foot decline. The water-level change in 10 observation wells in Goshen County ranged from about a 0.2-foot rise to a 2.5-foot decline; the median water-level change was a 0.6-foot decline. Water-level declines were also predominant in observation wells in Campbell and Crook Counties in northern Wyoming where water-level changes ranged from about a 2.0-foot rise to a 4.5-foot decline; the median water-level change was a 3.7-foot decline.

Hydrographs for representative observation wells in southeastern Wyoming are shown in figure 3. The location of all wells in the observation-well network and hydrographs and selected statistical data of water levels are published in separate reports of the U.S. Geological Survey. The most recent water-level report "Ground-Water Levels in Wyoming, 1982 Through September 1991," by Hugh I. Kennedy and Sharon L. Green, is available for inspection at the U.S. Geological Survey in Cheyenne.

WATER RESOURCES DATA FOR WYOMING 1992

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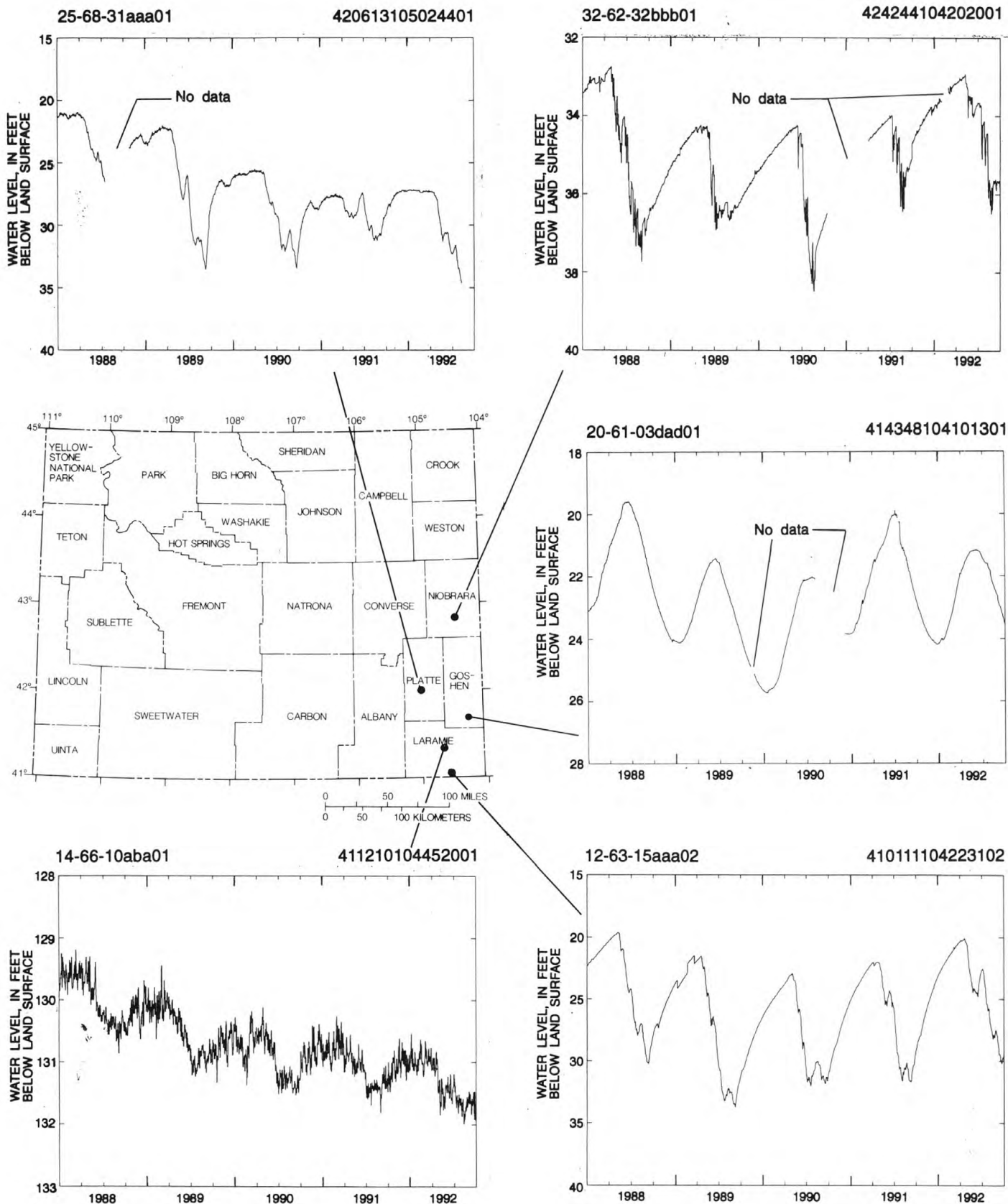


Figure 3.--Water-level hydrographs for observation wells in areas of extensive ground-water withdrawals, January 1988 to September 1992.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 small sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1989 water year that began on October 1, 1988, and ended September 30, 1989. 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, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. 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. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Wyoming, for surface-water stations where only infrequent measurements are made.

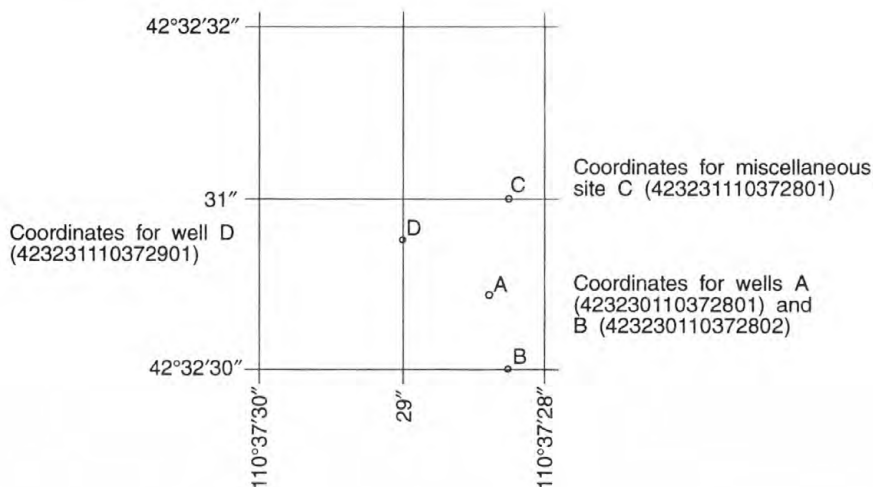
Downstream Order System

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 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

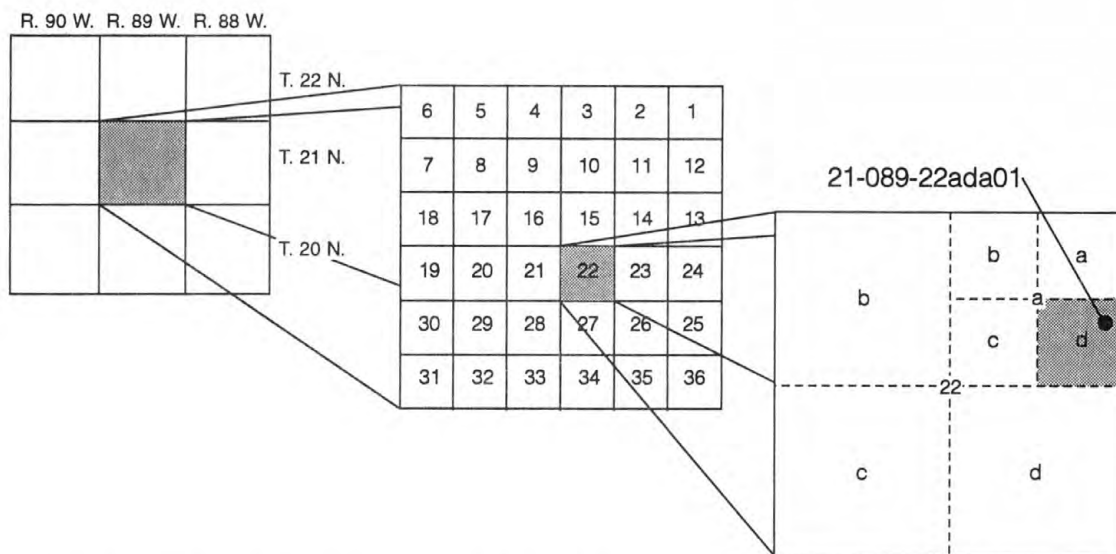
The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote the degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, 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).

In order to compare data for wells in other publications, such as the county ground-water studies, the wells in this report are also numbered according to a system based on the location in the public land classification of the U.S. Bureau of Land Management. The system is illustrated in the following figure. The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10-acre or 4-hectare tract). For example, well 14-66-10aba01 is in the NE¼ NW¼ NE¼ sec.10, T.14 N., R.66 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 uppercase letter that begins the number designates the quadrant of the system. The quadrants are lettered A, B, C, and D in a counter-clockwise direction beginning with A in the northeast quadrant. Otherwise, the well numbers are the same as given in the preceding paragraph.



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

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in 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 then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

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

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

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

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute 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 the next two sections. "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

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

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

Station manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

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 1929 (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 record 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 statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

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

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

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listed may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

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 to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the daily 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 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 are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX") and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____ - ____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

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

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

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

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. 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 discharge 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 of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

If applicable, data collected at partial-record stations follow the information for continuous-record sites. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of 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 value; "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 daily 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. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. 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 are on file in the Wyoming District office. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on pages 30 and 31 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey 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 collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S.G.S. District Office whose address is given on the back of the title page of this report.

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

Water Temperature

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

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

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

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

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

Laboratory Measurements

Samples for suspended sediment, turbidity, indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey National Water Quality Laboratory in Arvada, Colorado or in the Wyoming Department of Agriculture laboratory in Laramie, Wyoming. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used for chemical and biological analyses are given in TWRI, Book 1, Chap. D2; Book 5, Chap. A1, A2, A3, A4, A5, and A6. In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

Data Presentation

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

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

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

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

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

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

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

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remarks 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, which is the analytical detection limit
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

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 with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. 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.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO 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 Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or had collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

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

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

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

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

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C $\pm$ 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C $\pm$ 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 are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organism which produce red or pink colonies with 48 hours at 35°C $\pm$ 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.

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

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

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

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

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by 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.

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

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 a gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

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

Cubic foot per second (ft^3/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 feet per second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$] 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.

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.

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 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.)

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

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

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide 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 noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or 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 (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast 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 groundwater observation well.

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

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

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

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

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 natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

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

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 unit area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

Total organism count is the total number of organisms collected and enumerated in any particular sample.

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

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter or 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 Unit 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.

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

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

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).

Plankton is a community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

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

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

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

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

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

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

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

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

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.

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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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

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

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

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

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

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

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

7-day 10-year low flow ($7 Q_{10}$) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which 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°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the 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.

Substrate is the physical surface upon which an organism lives.

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

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

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

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

Suspended, 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 constituents.

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 μ m 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.

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

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

Thermograph is an instrument that continuously records variation 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 concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water 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 of a substance in solution or suspension that passes a stream section during a 24-hour period.

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

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

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1989, is called the "1989 water year."

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

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

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

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, Books and Open-File Reports Section, Federal Center, Box 25425, 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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- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
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MADISON RIVER BASIN
06036905 FIREHOLE RIVER NEAR WEST YELLOWSTONE, MT

31

LOCATION.--Lat 44°37'13", long 110°51'44", Yellowstone National Park, Hydrologic Unit 10020007, on right bank 1.6 mi south of Madison Junction, 12 mi east of West Yellowstone, and at river mile 1.8.
DRAINAGE AREA.--282 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 10 to Feb. 18. Records good except those for estimated daily discharges, which are fair. No regulation or diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	e250	e240	e250	e240	239	248	471	261	308	232	300
2	252	e240	e250	e250	e240	238	259	447	261	293	232	244
3	251	e240	e260	e250	e240	238	272	437	264	290	229	231
4	250	e250	e260	e250	e240	242	283	442	257	283	229	249
5	252	e250	e260	e250	e240	248	282	451	258	261	224	317
6	254	e260	e270	e250	e240	251	243	455	255	251	223	313
7	255	e260	e280	e250	e240	246	234	452	250	246	222	295
8	254	e260	e270	e250	e240	241	249	452	248	242	220	264
9	252	e290	e270	e250	e250	237	273	458	247	246	219	247
10	e250	e280	e260	e250	e250	233	331	388	241	246	220	241
11	e250	e270	e260	e240	e250	232	305	351	249	259	220	238
12	e250	e260	e270	e240	e250	234	293	334	245	321	220	241
13	e250	e270	e270	e240	e260	237	320	331	246	310	219	245
14	e250	e270	e260	e240	e260	240	330	337	243	267	217	233
15	e250	e260	e260	e240	e260	243	334	373	317	252	218	232
16	e250	e250	e260	e250	e260	247	338	405	397	246	232	228
17	e250	e260	e260	e250	e250	252	453	369	348	243	242	228
18	e250	e260	e260	e240	e240	257	400	366	298	241	229	227
19	e250	e250	e260	e230	238	234	325	368	266	240	227	229
20	e250	e250	e250	e240	244	230	297	358	265	246	228	229
21	e250	e260	e240	e240	239	229	306	337	248	292	227	234
22	e270	e250	e240	e240	240	224	356	318	242	252	228	234
23	e300	e240	e250	e250	232	225	334	310	239	243	224	234
24	e280	e250	e250	e250	228	225	296	300	237	236	225	240
25	e270	e260	e250	e250	230	227	294	293	271	234	225	267
26	e280	e260	e250	e250	230	231	309	292	321	232	224	251
27	e290	e270	e250	e250	234	248	363	351	341	231	223	245
28	e280	e270	e250	e250	236	243	413	303	312	232	222	242
29	e260	e260	e250	e240	239	240	440	284	275	233	221	242
30	e260	e250	e250	e240	---	245	533	282	293	230	222	239
31	e260	---	e250	e240	---	246	---	265	---	229	242	---
TOTAL	8024	7750	7960	7610	7040	7402	9713	11380	8195	7935	6985	7459
MEAN	259	258	257	245	243	239	324	367	273	256	225	249
MAX	300	290	280	250	260	257	533	471	397	321	242	317
MIN	250	240	240	230	228	224	234	265	237	229	217	227
AC-FT	15920	15370	15790	15090	13960	14680	19270	22570	16250	15740	13850	14790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	287	284	272	268	267	275	342	479	422
MAX	356	348	316	298	304	336	398	613	756
(WY)	1984	1984	1984	1985	1986	1986	1986	1986	1986
MIN	225	233	226	236	235	239	288	367	273
(WY)	1989	1989	1989	1989	1989	1992	1991	1987	1992

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1984 - 1992
ANNUAL TOTAL	110197	97453	--
ANNUAL MEAN	302	266	312
HIGHEST ANNUAL MEAN	--	--	399
LOWEST ANNUAL MEAN	--	--	264
HIGHEST DAILY MEAN	901	May 25	1240
LOWEST DAILY MEAN	228	Jan 29	206
ANNUAL SEVEN-DAY MINIMUM	237	Feb 22	210
INSTANTANEOUS PEAK FLOW	--	621	1520
INSTANTANEOUS PEAK STAGE	--	4.15	5.48
INSTANTANEOUS LOW FLOW	--	212a	195b
ANNUAL RUNOFF (AC-FT)	218600	193300	226200
10 PERCENT EXCEEDS	468	330	421
50 PERCENT EXCEEDS	260	250	288
90 PERCENT EXCEEDS	241	229	238

a--Gage height, 2.99 ft, but may have been lower during period of no gage-height record, Oct. 10 to Feb. 18.

b--Gage height, 2.76 ft.

e--Estimated.

MADISON RIVER BASIN
06036905 FIREHOLE RIVER NEAR WEST YELLOWSTONE, MT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1983 to September 1986, October 1987 to September 1988.

WATER TEMPERATURE: August 1983 to current year.

INSTRUMENTATION.--Water-quality monitor Aug. 30, 1983 to Sept. 25, 1988. Water temperature recorder since Sept. 26, 1988.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1983-86, 1988): Maximum, 633 microsiemens, Apr. 1 1988; minimum, 140 microsiemens, June 5, 1986.

WATER TEMPERATURE: Maximum, 30.0°C, June 24, 1988; minimum, 0.5°C, Dec. 21, 1990.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.5°C, June 23; minimum, 4.0°C, Dec. 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)
OCT					
09...	0830	255	537	-1.0	13.5
NOV					
19...	1030	253	540	-4.0	9.0
JAN					
08...	1030	258	560	-5.0	0.5
FEB					
19...	1015	232	570	-2.0	10.0
APR					
08...	0900	242	510	1.0	12.0
MAY					
20...	1030	380	359	15.0	17.0
JUN					
11...	1200	249	535	19.0	21.0
JUL					
01...	1715	300	494	14.0	20.0
AUG					
19...	0825	229	544	9.0	19.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.0	16.0	18.0	10.5	6.5	9.0	7.0	4.0	5.5	10.0	8.0	9.0
2	19.0	15.5	17.5	8.5	4.5	6.5	9.5	7.0	8.0	9.0	6.5	8.0
3	17.5	14.0	15.5	8.5	5.0	7.0	9.0	7.5	8.5	9.0	6.5	7.5
4	16.0	12.0	14.0	10.5	7.0	8.5	10.5	8.5	9.5	10.5	8.0	9.5
5	17.5	11.5	14.0	12.5	10.0	11.0	11.0	8.5	10.0	12.0	10.0	11.0
6	18.5	12.5	15.5	12.5	10.5	11.5	11.0	10.0	10.5	13.0	11.0	12.0
7	18.0	13.5	16.0	13.0	9.5	11.0	10.5	8.0	9.5	12.0	10.5	11.5
8	19.0	14.0	16.5	15.0	12.0	13.5	9.5	8.0	8.5	11.0	9.5	10.5
9	19.0	14.0	16.5	14.5	12.5	14.0	10.0	7.5	8.5	10.0	8.0	9.0
10	20.0	14.5	17.5	13.5	11.5	12.5	10.0	7.5	9.0	10.0	7.5	8.5
11	20.0	15.0	17.5	14.0	11.0	12.5	7.5	5.5	7.0	9.5	7.0	8.5
12	19.0	14.5	17.0	13.0	11.5	12.5	8.5	6.0	7.0	9.5	7.0	8.0
13	18.0	14.0	16.0	13.0	11.5	12.0	8.0	7.0	7.5	8.5	6.0	7.5
14	18.5	13.0	15.5	12.0	9.5	11.0	9.0	7.0	8.0	9.0	6.5	8.0
15	18.5	14.0	16.5	11.5	8.0	10.0	9.0	6.0	7.5	8.5	5.0	6.5
16	17.0	13.0	15.0	11.0	8.0	9.5	9.5	6.5	8.0	10.0	8.5	9.0
17	15.0	12.5	13.5	12.0	9.0	10.5	9.0	6.5	8.0	9.5	7.5	8.5
18	14.5	11.0	13.0	12.0	10.5	11.5	10.5	8.0	9.0	8.5	5.5	7.0
19	15.0	13.5	14.0	10.5	9.0	10.0	12.0	9.0	11.0	9.0	5.5	7.5
20	16.5	12.0	14.0	11.5	10.0	10.5	9.0	6.5	7.5	9.5	6.5	8.0
21	15.5	12.5	14.0	11.0	8.0	10.0	8.5	5.5	7.0	9.0	6.0	7.5
22	13.0	12.5	13.0	9.0	6.5	8.0	9.0	6.5	8.0	8.5	6.0	7.5
23	12.5	10.0	11.5	9.0	5.5	7.0	9.5	7.0	8.5	9.0	7.5	8.5
24	12.0	9.5	10.5	10.5	9.0	9.5	10.5	8.5	9.5	9.5	7.5	8.5
25	12.0	11.0	11.5	11.0	10.5	10.5	10.0	8.0	9.0	13.0	9.0	10.5
26	12.0	11.0	11.5	11.0	9.5	10.0	9.5	7.0	8.5	12.0	8.5	10.0
27	12.0	9.5	11.0	10.5	9.5	10.5	9.5	7.0	8.0	11.5	8.5	10.0
28	10.5	8.0	9.5	10.0	7.5	9.0	9.0	6.5	8.0	12.0	9.5	11.0
29	10.5	7.0	8.5	9.5	5.5	8.0	11.0	8.5	9.5	12.0	9.5	11.0
30	10.0	6.0	8.5	7.0	4.0	5.5	10.5	9.0	10.0	12.5	9.0	11.0
31	11.0	9.0	10.0	---	---	---	11.0	9.0	9.5	11.5	8.0	10.0
MONTH	20.0	6.0	14.0	15.0	4.0	10.0	12.0	4.0	8.5	13.0	5.0	9.0

MADISON RIVER BASIN
06036905 FIREHOLE RIVER NEAR WEST YELLOWSTONE, MT--Continued

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	11.5	7.5	9.5	15.5	11.0	13.5	19.5	11.5	15.5	17.0	10.0	13.5
2	12.0	8.0	10.0	15.5	12.0	13.5	20.0	12.5	16.5	18.0	9.5	14.0
3	12.0	8.0	10.0	17.0	11.5	14.0	20.0	13.0	16.5	19.5	11.0	15.5
4	11.0	6.5	9.0	17.5	12.5	15.0	17.5	13.0	15.0	20.0	12.0	16.5
5	11.0	7.0	9.0	16.5	13.5	15.0	14.5	10.5	13.0	20.5	13.0	17.0
6	10.5	6.5	8.5	17.0	13.5	15.0	13.0	9.5	11.5	20.5	13.5	17.5
7	11.5	6.5	9.0	15.5	13.0	14.0	14.0	9.5	12.0	20.5	14.5	18.0
8	13.0	10.5	11.5	15.0	11.5	13.5	16.0	12.0	13.5	19.0	15.5	17.0
9	12.5	10.0	11.5	15.5	10.5	12.5	14.5	12.0	13.5	17.0	13.0	14.0
10	13.5	11.0	12.0	16.0	10.0	12.5	13.5	10.5	12.0	16.0	11.5	13.5
11	14.5	12.0	13.0	17.0	10.5	14.0	15.5	10.5	12.5	15.0	13.0	14.0
12	13.5	11.5	12.0	17.5	11.0	14.0	20.0	13.5	16.0	17.0	12.0	14.5
13	13.5	11.0	12.0	17.5	11.5	14.5	19.5	13.0	16.5	19.5	14.0	16.5
14	13.5	12.0	12.5	17.5	11.5	14.5	18.5	12.5	16.0	20.0	14.0	17.5
15	14.0	11.5	12.5	16.5	12.0	14.5	18.0	13.5	16.0	19.0	16.0	17.0
16	13.0	10.5	12.0	16.0	12.5	14.5	19.0	13.0	16.0	20.5	13.5	17.0
17	13.0	9.5	11.5	14.5	13.0	14.0	17.0	10.0	13.0	21.5	14.5	18.0
18	12.0	8.5	10.0	15.5	12.0	13.5	15.0	9.0	11.5	21.5	16.5	19.0
19	10.5	9.5	10.0	14.5	11.0	12.5	13.0	10.5	12.0	21.0	15.5	19.0
20	13.5	9.5	11.5	15.0	9.5	12.5	20.0	11.5	15.0	21.0	17.5	19.0
21	12.0	11.5	11.5	16.0	10.5	13.0	18.5	13.5	16.5	19.5	17.0	18.0
22	14.0	11.0	12.5	16.5	9.5	13.0	17.0	13.5	15.0	22.0	15.5	18.5
23	13.5	9.5	11.5	15.5	10.5	13.0	15.0	10.5	12.5	23.5	17.0	20.5
24	13.0	9.5	11.5	17.5	11.5	14.0	19.0	10.5	14.5	24.5	18.5	21.0
25	14.5	10.5	12.5	18.0	12.0	15.0	20.0	12.5	16.5	25.0	18.0	21.0
26	15.0	10.0	12.5	18.0	11.5	15.0	21.5	14.0	18.0	22.5	18.0	20.0
27	16.0	10.5	13.0	16.5	13.5	15.0	20.0	14.5	17.5	20.0	17.5	18.5
28	16.5	10.5	13.5	18.0	13.0	15.0	18.0	12.0	16.0	23.0	16.0	19.0
29	16.0	11.0	13.5	19.0	12.0	15.5	19.0	12.0	16.0	20.5	17.0	19.0
30	---	---	---	19.0	13.5	16.0	17.5	10.5	13.0	23.5	17.0	20.0
31	---	---	---	18.0	12.5	15.0	---	---	---	22.0	16.5	19.0
MONTH	16.5	6.5	11.5	19.0	9.5	14.0	21.5	9.0	14.5	25.0	9.5	17.5
JUNE				JULY			AUGUST			SEPTEMBER		
1	25.5	16.0	20.5	20.0	17.5	18.5	24.0	20.5	22.0	19.0	16.5	18.0
2	22.5	18.5	20.5	21.5	17.5	19.0	24.5	19.5	22.0	21.0	16.0	18.5
3	23.0	17.5	20.0	21.5	17.5	19.5	24.0	20.5	22.5	21.5	16.5	19.0
4	23.5	17.0	20.0	24.0	19.0	21.0	26.0	19.5	22.5	20.0	18.0	19.0
5	21.5	17.0	19.0	25.0	19.0	22.0	25.0	19.5	22.5	18.0	15.5	16.5
6	22.5	17.0	19.5	24.0	19.5	22.0	24.5	19.0	22.0	16.5	15.0	15.5
7	23.0	18.0	20.5	23.5	19.0	21.0	24.0	18.5	21.5	17.0	12.5	15.0
8	21.5	19.0	20.5	23.0	18.5	20.5	24.0	19.0	21.5	16.5	14.0	15.0
9	24.5	17.5	21.0	22.0	18.5	20.5	25.0	19.0	22.0	18.5	14.5	16.0
10	24.0	19.5	21.5	23.0	19.5	21.5	25.5	19.0	22.5	19.0	15.5	17.5
11	22.5	19.0	21.0	22.0	19.5	20.5	25.0	19.0	22.0	19.0	16.5	17.5
12	26.5	18.5	22.5	20.0	18.0	19.0	25.5	18.5	22.0	18.0	16.5	17.5
13	22.0	18.5	20.0	22.0	17.0	19.5	25.5	19.5	22.5	17.0	14.0	15.5
14	21.0	18.0	19.5	24.0	18.5	21.0	26.5	20.5	23.5	16.0	12.0	14.0
15	18.5	15.0	17.0	25.0	18.5	21.5	24.0	19.5	21.5	17.0	14.0	15.5
16	15.0	13.5	14.0	25.5	18.5	22.0	23.0	20.0	21.5	18.0	14.5	16.0
17	19.0	13.5	16.0	25.5	19.5	22.5	24.0	19.0	21.5	17.5	15.0	16.0
18	24.0	17.5	20.5	25.0	20.0	22.5	24.5	19.0	21.5	18.5	14.0	16.5
19	24.0	19.0	21.5	24.0	21.0	22.5	25.0	18.5	21.5	18.0	15.0	17.0
20	25.5	18.5	22.0	25.0	19.5	22.0	23.0	19.5	21.5	18.0	15.5	17.0
21	27.0	19.0	23.0	22.0	19.0	20.0	23.5	19.0	21.0	19.0	16.0	17.5
22	25.5	21.0	23.5	25.0	19.0	21.5	21.5	18.5	20.0	20.0	16.5	18.0
23	27.5	21.0	24.5	24.0	21.0	22.0	18.5	15.0	16.5	19.5	17.0	18.5
24	25.5	21.5	23.5	24.0	19.0	21.5	18.5	15.0	16.5	19.0	14.5	17.0
25	22.5	20.5	21.0	23.0	19.0	21.0	18.0	14.0	16.0	14.5	14.0	14.0
26	21.0	19.0	20.0	24.5	18.5	21.5	19.5	13.5	16.5	15.5	13.5	14.5
27	24.0	18.0	21.0	24.5	19.5	22.0	20.5	14.5	17.5	16.5	14.0	15.0
28	27.0	19.5	23.0	24.0	19.0	21.5	20.0	16.0	18.0	17.0	14.0	15.5
29	24.5	21.5	23.0	25.0	18.5	21.5	20.5	16.0	18.5	18.0	14.5	16.0
30	22.0	19.0	20.0	26.0	19.0	22.5	21.0	16.0	18.5	18.0	15.0	17.0
31	---	---	---	26.0	20.5	23.0	20.0	17.5	18.5	---	---	---
MONTH	27.5	13.5	20.5	26.0	17.0	21.0	26.5	13.5	20.5	21.5	12.0	16.5

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Elevation of gage is 6,940 ft above National Geodetic Vertical Datum of 1929, from topographic map. Nonrecording gage at site 0.1 mi downstream at different datum, 1913-1916.

REMARKS.—Estimated daily discharges: Oct. 30, Nov. 2, 3, 22, 23, 30, Dec. 1, 20, Jan. 15, 18, 19, 21. Records good except those for estimated daily discharges and those for May to June, which are fair. No regulation or diversions upstream of station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	86	e82	78	75	80	94	329	122	149	92	96
2	83	e80	85	77	76	78	103	289	120	156	94	88
3	81	e80	84	78	74	77	116	279	122	141	92	84
4	80	83	85	80	70	79	132	278	114	135	92	89
5	81	88	84	83	71	82	137	267	115	129	90	125
6	81	90	87	83	71	83	114	255	114	123	89	110
7	82	86	93	83	71	81	106	243	113	119	88	114
8	81	87	87	80	73	80	108	232	111	116	86	102
9	80	107	86	79	73	77	110	294	111	118	86	94
10	80	100	87	77	74	76	132	248	106	119	85	92
11	81	91	81	79	76	78	122	209	109	121	85	95
12	80	88	84	78	77	78	128	204	110	141	84	92
13	79	94	87	77	77	80	166	185	116	151	84	98
14	79	94	85	78	76	82	180	176	111	124	84	92
15	79	87	80	e75	75	82	193	191	151	114	84	87
16	79	83	81	78	77	84	207	247	282	109	89	85
17	78	87	82	78	76	86	249	180	240	108	92	86
18	76	92	83	e72	74	89	230	162	193	108	86	88
19	78	85	86	e75	75	81	198	150	155	104	85	84
20	80	86	e75	76	77	81	166	146	148	107	86	84
21	81	89	81	e75	76	80	177	142	144	135	92	85
22	87	e78	80	75	79	76	220	141	137	114	87	84
23	103	e75	80	77	77	78	212	136	142	110	86	83
24	94	86	81	79	76	78	176	134	132	103	85	84
25	93	89	81	77	77	79	170	129	160	101	85	99
26	95	90	78	77	76	78	176	127	167	98	85	97
27	100	93	79	75	78	82	229	198	154	96	84	90
28	92	84	81	76	78	83	267	158	141	97	84	86
29	84	85	80	77	80	83	282	135	135	97	83	85
30	e80	e78	81	79	---	87	366	134	151	96	83	84
31	85	---	80	76	---	91	---	127	---	94	87	---
TOTAL	2596	2621	2566	2407	2185	2509	5266	6125	4226	3633	2694	2762
MEAN	83.7	87.4	82.8	77.6	75.3	80.9	176	198	141	117	86.9	92.1
MAX	103	107	93	83	80	91	366	329	282	156	94	125
MIN	76	75	75	72	70	76	94	127	106	94	83	83
AC-FT	5150	5200	5090	4770	4330	4980	10450	12150	8380	7210	5340	5480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)*

MEAN	93.3	88.8	82.3	80.3	76.3	80.9	139	259	169	123	100	93.5
MAX	128	115	104	95.2	94.6	113	230	445	314	216	155	123
(WY)	1914	1914	1984	1916	1916	1916	1990	1991	1986	1913	1913	1913
MIN	68.8	70.2	66.8	64.0	62.1	62.3	96.2	123	99.4	73.0	66.0	65.6
(WY)	1989	1988	1988	1988	1988	1988	1984	1987	1987	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1913 - 1992*
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ANNUAL TOTAL	47708		39590		--	
ANNUAL MEAN	131		108		112	
HIGHEST ANNUAL MEAN	--		--		134	1986
LOWEST ANNUAL MEAN	--		--		82.5	1988
HIGHEST DAILY MEAN	1020	May 18	366	Apr 30	1020	May 10 1989
LOWEST DAILY MEAN	65	Jan 29	70	Feb 4	57	Mar 12 1988
ANNUAL SEVEN-DAY MINIMUM	68	Jan 28	72	Feb 3	59	Mar 11 1988
INSTANTANEOUS PEAK FLOW	--		401	Apr 30	1290	May 18 1991
INSTANTANEOUS PEAK STAGE	--		3.50	Apr 30	4.68	May 18 1991
INSTANTANEOUS LOW FLOW	--		69a	Feb 4	47b	Jan 9 1989
ANNUAL RUNOFF (AC-FT)	94630		78530		81360	
10 PERCENT EXCEEDS	184		172		175	
50 PERCENT EXCEEDS	89		86		91	
90 PERCENT EXCEEDS	72		77		71	

* During period of operation (1913-16, 1984 to current year).

a Gage height, 2.32 ft.

b Gage height, 2.20 ft, result of freezeup.

e Estimated.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1983 to September 1986, October 1987 to September 1988.

WATER TEMPERATURE: August 1983 to current year.

INSTRUMENTATION.--Water-quality monitor Aug. 31, 1983 to Sep. 26, 1988. Water temperature recorder since Sept. 26, 1988.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1983-86, 1988): Maximum, 612 microsiemens, Dec. 30, 1987; minimum, 77 microsiemens, May 30, 1986.

WATER TEMPERATURE: Maximum, 25.5°C, June 24, 1988; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.5°C, Aug. 14; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)
OCT					
08...	1825	83	384	12.0	13.5
NOV					
19...	1300	84	421	-4.0	5.0
JAN					
08...	1115	81	440	-6.0	5.0
FEB					
19...	1200	75	446	-2.0	4.5
APR					
07...	1815	104	371	3.0	9.0
29...	1315	275	177	26.0	12.0
MAY					
20...	0800	148	264	15.0	15.0
JUN					
17...	0820	245	254	8.0	9.0
JUL					
02...	0800	154	274	7.0	13.0
AUG					
19...	1130	86	350	17.0	17.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	11.0	13.5	5.0	1.5	3.5	1.5	.0	.5	4.5	2.5	3.0
2	15.0	10.5	13.0	2.5	.0	.5	4.0	1.0	2.5	3.5	.5	2.0
3	13.0	9.5	11.0	3.0	.0	1.0	4.0	3.0	3.5	3.5	.0	1.5
4	11.5	6.5	9.0	4.5	1.5	3.0	5.0	4.0	5.0	5.0	2.0	4.0
5	12.5	6.0	9.0	6.0	4.5	5.5	6.0	3.5	4.5	6.5	4.5	5.5
6	13.5	7.5	10.5	7.5	5.5	6.5	5.5	4.5	5.5	7.5	5.5	6.5
7	13.0	8.5	11.0	8.0	4.0	6.0	5.0	4.0	4.5	7.0	5.0	6.0
8	14.5	9.0	11.5	9.5	7.0	8.5	4.0	2.5	3.5	5.5	4.0	5.0
9	14.0	8.5	11.5	10.5	8.0	9.0	5.0	3.5	4.0	4.5	2.5	3.5
10	15.5	9.5	12.0	9.0	7.0	8.0	5.0	1.5	4.0	4.5	1.0	2.5
11	15.5	9.5	12.5	9.0	6.5	7.5	2.5	.0	1.0	4.5	1.0	2.5
12	14.5	9.5	12.0	8.5	7.0	7.5	3.0	1.0	2.5	4.0	1.0	2.0
13	13.5	9.5	11.5	8.0	6.5	7.5	3.5	2.0	2.5	3.5	.5	2.0
14	14.0	8.5	11.0	7.0	5.5	6.5	4.0	1.5	2.5	3.5	.0	3.0
15	14.0	9.0	11.5	6.0	3.0	4.5	3.0	.0	1.5	4.0	.0	2.5
16	13.0	9.0	11.0	5.5	2.0	3.5	3.5	.5	2.0	4.5	2.5	3.5
17	12.0	9.5	10.5	6.0	3.0	4.5	3.5	.0	1.5	4.0	.0	1.5
18	10.0	6.5	8.5	7.0	5.0	6.0	5.0	1.5	3.5	3.0	.0	1.0
19	10.0	8.0	9.0	5.5	3.5	4.5	6.5	3.0	5.5	3.5	.0	1.5
20	11.5	6.5	8.5	6.0	4.5	5.5	3.0	.0	1.5	4.0	.0	2.0
21	10.5	7.5	9.0	5.5	3.0	4.5	2.5	.0	1.0	3.5	.0	1.5
22	9.5	7.0	8.5	4.0	1.0	2.5	4.0	.5	2.0	3.0	.5	2.5
23	7.0	5.5	6.5	3.0	.0	1.5	3.5	.5	2.0	4.5	3.0	4.0
24	6.5	4.5	5.5	5.0	3.0	4.5	5.0	2.0	3.5	5.5	3.5	4.0
25	7.5	5.5	6.5	5.5	5.0	5.0	4.5	2.5	3.0	7.5	2.5	5.0
26	8.0	6.5	7.0	5.5	4.0	5.0	4.0	1.0	2.5	6.0	2.0	4.0
27	7.5	5.0	6.5	6.0	4.5	5.5	3.5	.5	2.0	6.0	2.0	4.5
28	6.0	3.5	4.5	4.5	2.5	3.5	3.5	.0	2.0	6.5	3.5	5.5
29	4.5	.5	2.5	4.0	.5	2.5	5.0	2.5	3.5	7.0	3.5	5.5
30	4.0	.0	2.0	.5	.0	.0	5.0	3.0	4.0	7.0	2.0	5.0
31	5.5	3.0	4.0	---	---	---	5.0	2.5	4.0	6.0	1.5	3.5
MONTH	16.5	.0	9.0	10.5	.0	5.0	6.5	.0	3.0	7.5	.0	3.5

MADISON RIVER BASIN
06037000 GIBBON RIVER NEAR WEST YELLOWSTONE, MT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.0	1.0	3.5	10.5	5.5	8.0	14.0	6.5	10.0	12.0	7.5	9.5
2	6.0	1.5	4.0	10.5	7.0	8.5	15.0	7.5	11.0	12.5	7.5	10.5
3	6.0	1.0	3.5	12.0	5.5	8.5	15.0	8.0	11.0	14.0	8.5	11.5
4	5.5	.0	3.0	12.5	7.0	9.5	12.5	8.5	10.0	14.5	9.5	12.5
5	5.5	.5	2.5	11.0	8.0	9.5	9.5	6.5	8.0	15.5	10.0	13.0
6	5.0	.0	2.5	11.5	8.5	9.5	8.5	4.0	6.5	16.0	11.0	13.5
7	5.5	.0	3.5	11.0	8.0	9.0	9.0	4.0	6.5	16.5	11.5	14.0
8	7.0	4.5	6.0	11.5	7.0	8.5	10.0	6.5	8.5	15.0	13.0	14.0
9	7.5	5.0	6.0	11.0	6.0	8.0	9.5	8.0	8.5	13.0	9.0	10.5
10	8.0	5.5	7.0	10.5	4.5	7.5	9.5	6.5	8.5	11.5	8.0	9.5
11	8.0	6.5	7.5	12.0	5.0	8.0	10.5	7.0	9.0	10.5	8.5	9.5
12	8.5	6.0	7.0	12.5	5.5	8.5	14.5	8.5	11.0	12.0	6.5	9.5
13	8.0	5.5	7.0	12.5	5.5	9.0	13.5	7.5	10.0	13.5	9.5	11.5
14	8.5	6.5	7.0	13.0	6.0	9.0	12.0	6.5	9.5	15.0	9.5	12.5
15	7.5	6.0	6.5	11.5	6.5	9.0	11.5	7.0	9.5	14.0	11.5	12.5
16	7.5	5.0	6.5	10.5	7.5	9.5	13.0	7.5	10.0	15.5	10.0	12.5
17	7.5	3.5	5.5	10.0	7.0	9.0	10.0	6.0	7.5	18.0	10.5	14.0
18	6.5	3.0	4.5	11.0	7.0	8.5	8.5	5.0	6.5	18.5	12.5	15.5
19	5.5	4.5	5.0	10.5	5.0	7.5	8.0	5.5	7.0	18.5	12.0	15.5
20	8.0	5.5	6.5	10.0	6.0	8.0	13.5	5.5	9.5	18.5	14.0	15.5
21	7.0	6.5	7.0	11.5	5.5	8.0	11.5	8.0	10.0	15.5	13.0	14.5
22	9.0	6.0	7.5	11.5	3.5	7.5	10.0	6.5	9.0	18.0	11.5	14.5
23	8.0	3.5	5.5	10.5	4.5	7.5	9.0	5.0	7.0	18.5	12.5	15.5
24	7.5	4.0	6.0	12.0	5.0	8.5	12.0	4.0	8.0	20.0	13.5	16.0
25	10.0	5.5	7.0	13.5	6.0	9.5	13.0	7.0	10.0	20.5	13.0	16.5
26	10.0	4.5	7.0	13.0	6.0	9.5	15.5	8.5	12.0	17.5	13.0	15.5
27	10.5	4.5	7.5	11.5	8.5	10.0	14.5	9.5	12.0	15.0	12.5	13.5
28	11.0	5.0	8.0	14.0	8.0	10.0	12.5	8.5	11.0	18.0	11.0	14.5
29	11.0	5.0	8.0	14.5	7.0	10.0	13.5	8.0	11.5	15.5	12.5	14.0
30	---	---	---	15.0	8.5	11.0	13.0	9.0	10.0	18.0	12.0	14.5
31	---	---	---	14.0	8.0	10.5	---	---	---	18.0	11.5	14.5
MONTH	11.0	.0	6.0	15.0	3.5	9.0	15.5	4.0	9.5	20.5	6.5	13.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	11.0	15.5	15.5	12.5	14.0	21.0	16.0	18.5	17.5	13.5	15.0
2	18.0	13.5	15.5	16.5	13.0	14.5	22.0	14.5	18.0	19.0	12.0	15.0
3	18.5	12.5	15.0	18.0	13.0	15.0	21.5	16.5	18.5	19.0	12.5	15.5
4	19.0	12.5	15.0	19.0	14.0	16.0	22.5	15.0	18.5	16.0	13.0	14.5
5	17.0	12.5	14.5	20.5	13.5	17.0	22.5	14.5	18.5	13.5	11.0	12.0
6	17.0	12.0	14.5	20.5	15.0	17.5	22.0	14.5	18.0	12.0	9.5	11.0
7	18.5	12.5	15.5	19.0	14.5	16.5	22.0	14.5	18.0	14.5	7.5	10.5
8	17.5	14.0	15.5	19.0	13.0	15.5	22.5	15.0	18.5	12.0	10.0	11.0
9	20.5	12.0	16.0	18.5	13.0	16.0	23.0	15.0	18.5	17.0	10.5	13.0
10	20.0	14.0	17.0	19.0	14.5	16.5	23.0	14.5	18.5	17.5	10.5	13.5
11	19.0	14.5	16.5	17.0	14.5	15.5	23.0	14.5	18.5	16.0	11.5	14.0
12	20.0	13.0	16.5	15.0	13.5	14.0	22.5	14.0	18.0	17.0	12.5	14.0
13	18.0	13.5	15.0	17.0	12.0	14.5	23.0	14.5	18.5	14.5	10.0	12.0
14	17.0	12.5	14.5	20.5	13.5	16.5	24.5	16.5	20.0	13.5	7.5	11.0
15	13.5	11.0	12.5	21.0	14.0	17.0	20.0	15.0	17.5	13.5	9.5	11.5
16	11.0	8.5	9.0	22.0	13.5	17.5	20.5	16.0	18.0	16.5	10.5	13.0
17	13.5	9.0	11.0	22.0	14.0	17.5	21.5	15.0	18.0	16.0	10.0	12.5
18	19.0	12.0	15.0	22.0	14.5	18.0	22.5	15.5	18.5	16.0	9.0	12.5
19	19.0	13.5	16.0	19.5	16.0	18.0	22.5	14.5	18.0	15.5	10.0	13.0
20	20.0	13.0	16.5	22.5	15.0	18.0	20.0	15.5	17.5	17.0	10.5	13.5
21	21.0	14.0	17.0	18.5	15.0	17.0	20.0	14.5	17.0	18.0	11.0	14.0
22	21.0	15.0	18.0	22.5	14.0	18.0	17.5	14.0	16.5	18.0	11.0	14.5
23	23.0	15.0	19.0	20.0	16.0	18.0	14.0	11.5	13.0	17.5	12.0	14.5
24	20.0	16.0	18.0	21.5	14.0	17.5	16.5	10.5	12.5	14.5	10.0	12.5
25	17.0	15.0	16.0	20.5	14.0	17.5	16.5	9.5	12.5	10.5	8.5	9.5
26	17.5	14.0	16.0	22.0	14.0	18.0	17.0	9.0	12.5	13.5	8.0	10.5
27	21.0	14.5	17.0	21.5	14.5	18.0	18.5	10.0	14.0	15.0	9.0	11.5
28	22.5	15.0	18.5	21.0	14.5	17.5	18.5	11.5	15.0	15.0	8.5	11.5
29	20.0	16.0	18.0	22.0	14.0	18.0	17.5	12.0	15.0	16.0	9.0	12.5
30	17.0	14.0	15.5	23.0	14.0	18.0	19.0	11.0	15.0	16.5	9.5	12.5
31	---	---	---	23.5	15.5	19.0	16.5	13.0	14.5	---	---	---
MONTH	23.0	8.5	15.5	23.5	12.0	17.0	24.5	9.0	17.0	19.0	7.5	12.5

MADISON RIVER BASIN
06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT

37

LOCATION.--Lat 44°39'25", long 111°04'03", in NE¼ NW¼ SW¼ 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, 18.4 mi downstream from Gibbon River, and at river mile 132.7.

DRAINAGE AREA.--420 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,650 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 20, 1918, nonrecording gage, and Oct. 20, 1918 to June 29, 1930, nonrecording gage or water-stage recorder at sites 2.5 mi upstream at different datums. Supplementary nonrecording gage at site 0.3 mi downstream at different datum used at time during 1927-30.

REMARKS.--Estimated daily discharges: Nov. 3, Dec. 1, 21, 22, and Jan. 19. Records good. No regulation or diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	429	e400	393	378	397	406	873	469	503	364	442
2	397	402	426	393	379	396	417	811	462	504	379	382
3	397	e390	421	390	375	395	443	788	468	485	369	362
4	391	414	417	398	369	401	476	786	453	472	369	366
5	393	419	419	401	374	410	496	790	453	442	362	481
6	394	429	426	402	370	416	435	783	447	421	359	461
7	393	421	455	403	370	410	411	767	437	411	358	471
8	394	422	432	396	376	399	418	758	428	408	354	417
9	393	490	427	392	377	387	447	790	428	412	352	390
10	391	479	430	387	380	381	519	741	415	412	352	376
11	391	434	412	391	388	381	521	644	425	421	352	369
12	393	428	424	387	386	384	484	622	424	487	352	372
13	391	454	425	384	393	388	545	598	428	527	352	382
14	389	458	422	389	389	393	583	591	424	448	351	364
15	395	429	414	371	390	399	597	619	487	418	351	362
16	398	416	412	394	393	407	619	726	701	405	372	355
17	394	422	410	393	390	413	717	648	704	397	389	353
18	391	441	414	369	381	425	771	610	580	396	365	353
19	396	421	425	e370	393	398	626	602	508	391	356	354
20	398	421	403	385	406	384	558	589	490	393	361	355
21	401	433	e390	377	403	376	557	574	466	468	368	361
22	428	413	e390	382	403	366	640	556	453	425	361	355
23	512	394	402	383	395	369	639	537	450	402	358	354
24	447	417	403	387	389	368	579	524	441	391	359	356
25	442	423	401	386	386	366	558	514	478	382	355	401
26	454	428	395	387	381	372	561	510	526	377	355	395
27	485	445	395	383	385	396	640	615	556	374	349	370
28	444	427	395	382	389	403	736	575	506	375	348	362
29	424	424	398	384	394	391	779	518	457	376	345	355
30	418	392	397	386	---	399	928	507	470	369	346	355
31	422	---	397	382	---	406	---	485	---	367	351	---
TOTAL	12757	12815	12777	12007	11182	12176	17106	20051	14434	13059	11114	11431
MEAN	412	427	412	387	386	393	570	647	481	421	359	381
MAX	512	490	455	403	406	425	928	873	704	527	389	481
MIN	389	390	390	369	369	366	406	485	415	367	345	353
AC-FT	25300	25420	25340	23820	22180	24150	33930	39770	28630	25900	22040	22670

MADISON RIVER BASIN
06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)*

MEAN	428	419	408	387	393	399	487	816	798	482	427	421
MAX	710	697	568	582	572	539	671	1212	1415	917	759	704
(WY)	1914	1914	1914	1914	1914	1917	1925	1956	1971	1913	1913	1913
MIN	297	297	304	304	303	313	369	388	341	282	273	282
(WY)	1935	1932	1932	1932	1932	1943	1941	1934	1931	1931	1934	1934

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1913 - 1992*	
ANNUAL TOTAL	178993		160909		--	
ANNUAL MEAN	490		440		489	
HIGHEST ANNUAL MEAN	--		--		664	
LOWEST ANNUAL MEAN	--		--		337	
HIGHEST DAILY MEAN	1700	May 22	928	Apr 30	2150	Jun 1 1986
LOWEST DAILY MEAN	296	Jan 29	345	Aug 29	245	Jan 1 1942
ANNUAL SEVEN-DAY MINIMUM	334	Jan 25	350	Aug 25	267	Aug 6 1931
INSTANTANEOUS PEAK FLOW	--		1040	Apr 30	2340a	May 31 1986
INSTANTANEOUS PEAK STAGE	--		2.54	Apr 30	10.0b	Jan 8 1937
INSTANTANEOUS LOW FLOW	--		341c	Jan 18	100d	Feb 7 1933
ANNUAL RUNOFF (AC-FT)	355000		319200		353900	
10 PERCENT EXCEEDS	789		579		729	
50 PERCENT EXCEEDS	408		402		426	
90 PERCENT EXCEEDS	369		362		334	

* 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, 3.56 ft.

b About; backwater from ice.

c Gage height, 1.74 ft.

d Result of freezeup.

e Estimated.

MADISON RIVER BASIN

39

06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1983 to July 1986.

WATER TEMPERATURE: July 1983 to July 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1983-86): Maximum, 558 microsiemens, Mar. 24, 25, 1986; minimum, 78 microsiemens, May 30, 1986.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
08...	1615	399	0	1	493	21.0	14.5	604	8.9	111
NOV										
19...	1545	421	90	3	502	-4.0	6.0	607	10.0	101
JAN										
07...	1430	399	--	--	540	0.0	6.0	--	--	--
FEB										
19...	1430	391	--	70	540	-2.0	7.0	597	9.3	98
APR										
07...	1430	406	--	--	463	1.0	10.5	601	10.2	116
MAY										
20...	1430	623	--	1	361	22.0	20.5	600	8.1	115
JUL										
01...	1530	493	--	60	434	16.0	17.5	600	8.0	107
AUG										
19...	1410	355	--	0	500	26.0	23.0	603	7.7	115

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	LITHIUM DIS- SOLVED (UG/L AS LI)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
08...	--	64	320	--	800	640	5	5.4	48
NOV									
19...	--	64	280	250	810	600	7	8.0	92
JAN									
07...	--	--	--	--	--	--	--	--	--
FEB									
19...	7.8	70	320	310	870	670	11	12	92
APR									
07...	8.0	61	280	260	750	610	9	9.9	88
MAY									
20...	8.3	46	230	200	540	440	8	13	60
JUL									
01...	8.3	55	250	240	600	510	9	12	74
AUG									
19...	8.5	64	340	330	840	590	2	1.9	71

DRAINAGE AREA.--825 mi².

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

REMARKS.--No estimated daily discharge. Records good. Diversions for irrigation of about 1,400 acres upstream from station. Several observations of water temperature and specific conductance were made during the year. U.S. Geological Survey satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	361	289	305	306	337	373	1610	1650	1720	658	469
2	432	288	318	312	303	342	396	1430	1640	1600	646	455
3	433	291	316	312	296	344	437	1420	1660	1520	632	441
4	440	316	317	310	287	348	497	1520	1530	1560	636	503
5	427	367	320	321	291	350	507	1680	1550	1540	614	567
6	434	392	343	334	290	349	436	1900	1410	1410	599	602
7	431	373	354	341	291	345	397	2180	1350	1340	589	572
8	424	369	315	324	305	345	430	2420	1320	1280	577	529
9	418	425	315	311	317	325	410	2560	1310	1300	569	512
10	415	424	313	313	320	313	468	2020	1320	1200	553	491
11	413	396	275	305	324	324	445	1750	1350	1210	543	475
12	410	403	295	319	318	331	431	1570	1370	1260	536	509
13	405	420	314	314	321	333	491	1470	1360	1190	528	577
14	403	413	293	320	326	343	586	1420	1280	1100	520	514
15	402	342	284	303	321	346	649	1560	1600	1050	514	493
16	398	332	291	310	328	364	689	1640	2330	995	535	476
17	394	378	287	306	321	369	741	1600	2330	955	522	460
18	391	403	311	284	297	368	749	1870	3080	923	520	455
19	394	378	324	294	319	343	668	2120	2730	916	501	450
20	390	369	293	300	327	337	606	2290	2430	919	498	446
21	397	371	272	306	329	329	645	2310	2180	927	516	452
22	409	355	303	311	329	308	718	2030	2020	930	504	440
23	431	287	298	316	323	319	722	2030	1920	863	503	431
24	395	350	311	315	308	335	647	2100	1820	811	534	444
25	407	364	318	313	312	328	654	2110	1800	790	522	479
26	418	366	312	317	312	329	694	2100	1700	764	506	471
27	423	369	304	311	309	345	882	2920	1640	737	490	459
28	349	344	306	315	318	347	1140	2290	1510	721	474	450
29	333	337	316	314	330	346	1310	2020	1620	705	466	444
30	299	276	319	315	---	358	1730	1900	1610	696	464	439
31	361	---	322	309	---	370	---	1760	---	676	463	---
TOTAL	12514	10859	9548	9680	9078	10570	19548	59600	53420	33608	16732	14505
MEAN	404	362	308	312	313	341	652	1923	1781	1084	540	483
MAX	440	425	354	341	330	370	1730	2920	3330	1720	658	602
MIN	299	276	272	284	287	308	373	1420	1280	676	463	431
AC-FT	24820	21540	18940	19200	18010	20970	38770	118200	106000	66660	33190	28770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1992, BY WATER YEAR (WY)*

	1950			1951			1952			1953		
	MEAN	MAX	(WY)	MEAN	MAX	(WY)	MEAN	MAX	(WY)	MEAN	MAX	(WY)
MEAN	455	383	1893	322	306	1893	309	500	1765	2908	1276	601
MAX	743	589	1893	549	468	1893	465	899	3135	5056	3669	998
(WY)	1893	1960	1893	1893	1893	1893	1960	1990	1976	1974	1975	1975
MIN	238	247	1932	214	200	1932	206	263	873	643	345	269
(WY)	1932	1937	1932	1931	1935	1932	1935	1937	1953	1934	1934	1934

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1889 - 1992*	
ANNUAL TOTAL	321068		259662		--	
ANNUAL MEAN	880		709		804	
HIGHEST ANNUAL MEAN	--		--		1184	1976
LOWEST ANNUAL MEAN	--		--		408	1934
HIGHEST DAILY MEAN	7240	Jun 5	3330	Jun 17	8970	Jun 17 1974
LOWEST DAILY MEAN	210	Jan 29	272	Dec 21	174	Nov 21 1931
ANNUAL SEVEN-DAY MINIMUM	241	Jan 1	291	Dec 11	182	Jan 18 1931
INSTANTANEOUS PEAK FLOW	--		3660	Jun 17	9100	Jun 17 1974
INSTANTANEOUS PEAK STAGE	--		4.32	Jun 17	7.38	Jun 17 1974
INSTANTANEOUS LOW FLOW	--		237a	Dec 11	117b	Jan 19 1935
ANNUAL RUNOFF (AC-FT)	636800		515000		582800	
10 PERCENT EXCEEDS	2680		1640		2010	
50 PERCENT EXCEEDS	395		431		430	
90 PERCENT EXCEEDS	268		308		267	

a Gage height, 1.14 ft.

b Gage height, 0.68 ft, result of freezeup.

YELLOWSTONE RIVER BASIN

41

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 National Geodetic Vertical Datum of 1929. Prior to Oct. 2, 1928, nonrecording gage at site 450 ft upstream at datum 1.07 ft higher.

REMARKS.--Estimated daily discharges: Nov. 30 to Dec. 4 and Dec. 9 to Feb. 9. Records good except those for estimated daily discharges, which are poor. No artificial regulation. Several observations of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	880	605	e450	e350	e360	399	390	814	2290	2760	1820	928
2	857	602	e450	e350	e370	396	390	853	2290	2730	1790	917
3	828	596	e460	e350	e380	395	391	897	2300	2710	1760	901
4	815	587	e470	e350	e380	393	394	938	2300	2700	1730	895
5	806	585	487	e350	e370	392	401	990	2300	2680	1700	899
6	797	588	492	e360	e370	393	402	1050	2310	2650	1660	902
7	779	579	492	e360	e370	392	406	1130	2290	2610	1630	884
8	773	573	495	e360	e380	391	414	1220	2270	2550	1590	873
9	763	575	e460	e350	e380	391	427	1310	2260	2480	1550	849
10	756	574	e450	e350	392	390	451	1400	2250	2440	1500	836
11	747	571	e440	e360	393	388	472	1440	2250	2440	1460	827
12	741	565	e430	e360	397	386	473	1440	2250	2460	1430	824
13	728	572	e420	e350	396	385	473	1460	2260	2440	1400	812
14	718	566	e410	e340	397	382	477	1480	2240	2420	1370	790
15	715	562	e400	e340	395	382	488	1530	2310	2370	1350	786
16	715	558	e390	e330	394	385	499	1580	2420	2330	1320	773
17	698	553	e380	e320	395	392	526	1620	2450	2290	1310	751
18	676	552	e380	e320	396	392	553	1660	2470	2250	1280	741
19	662	551	e370	e310	399	396	561	1700	2490	2220	1250	733
20	655	549	e370	e300	402	395	565	1770	2540	2210	1230	725
21	649	541	e360	e300	404	394	571	1840	2550	2210	1220	717
22	649	531	e350	e310	406	393	591	1900	2580	2190	1200	712
23	663	529	e360	e310	408	392	603	1940	2600	2170	1160	709
24	655	523	e370	e320	410	389	604	1980	2630	2140	1110	713
25	651	519	e370	e320	408	389	613	2020	2670	2100	1070	706
26	660	518	e370	e330	406	386	624	2080	2700	2060	1040	696
27	647	520	e370	e330	404	390	645	2160	2740	2000	1030	687
28	644	515	e360	e340	403	392	673	2230	2750	1960	1000	677
29	635	502	e360	e340	400	391	718	2260	2760	1930	965	671
30	625	e470	e360	e350	---	390	771	2280	2780	1890	941	669
31	618	---	e360	e350	---	392	---	2290	---	1870	928	---
TOTAL	22205	16631	12686	10460	11365	12113	15566	49262	73300	72260	41794	23603
MEAN	716	554	409	337	392	391	519	1589	2443	2331	1348	787
MAX	880	605	495	360	410	399	771	2290	2780	2760	1820	928
MIN	618	470	350	300	360	382	390	814	2240	1870	928	669
AC-FT	44040	32990	25160	20750	22540	24030	30880	97710	145400	143300	82900	46820
CFSM	.71	.55	.41	.34	.39	.39	.52	1.58	2.43	2.32	1.34	.78
IN.	.82	.61	.47	.39	.42	.45	.58	1.82	2.71	2.67	1.55	.87

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1992, BY WATER YEAR (WY)*

MEAN	809	613	477	394	383	443	545	1121	3572	4028	2219	1218
MAX	1259	984	775	639	628	717	801	2194	6640	7160	4031	1954
(WY)	1973	1951	1951	1971	1971	1962	1952	1952	1956	1982	1982	1982
MIN	327	276	246	168	122	130	175	605	1707	1272	812	538
(WY)	1989	1989	1932	1989	1989	1935	1937	1953	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1927 - 1992*			
ANNUAL TOTAL	502138				361245				--			
ANNUAL MEAN	1376				987				1324			
HIGHEST ANNUAL MEAN	--				--				1939			1971
LOWEST ANNUAL MEAN	--				--				682			1934
HIGHEST DAILY MEAN	5670			Jun 18	2780			Jun 30	9120			Jun 28 1974
LOWEST DAILY MEAN	170			Feb 1	300			Jan 20	110			Feb 13 1989
ANNUAL SEVEN-DAY MINIMUM	177			Jan 29	310			Jan 17	113			Feb 11 1989
INSTANTANEOUS PEAK FLOW	--				2810			Jun 30	9170			Jun 28 1974
INSTANTANEOUS PEAK STAGE	--				5.33			Jun 30	8.20			Jun 28 1974
ANNUAL RUNOFF (AC-FT)	996000				716500				959000			
ANNUAL RUNOFF (CFSM)	1.37				.98				1.32			
ANNUAL RUNOFF (INCHES)	18.57				13.36				17.88			
10 PERCENT EXCEEDS	4060				2290				3450			
50 PERCENT EXCEEDS	644				646				682			
90 PERCENT EXCEEDS	270				360				338			

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

e Estimated.

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

43

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 3, Nov. 30 to Dec. 2, Dec. 11, 13-28, 30, Jan. 1-3, 10-13, 15, 16, 18-22, and Feb. 1-7. Records good except those for estimated daily discharges, which are poor. No regulation or diversion upstream of station. Several observations of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	e22	e29	e25	e25	27	41	309	423	422	120	61
2	44	e20	e29	e24	e23	29	46	301	454	358	116	59
3	44	e21	30	e25	e22	28	58	334	500	371	116	57
4	43	24	31	26	e22	29	69	393	444	395	111	60
5	41	26	32	26	e22	29	61	462	455	388	105	85
6	39	27	33	26	e23	29	54	566	379	347	100	86
7	39	28	34	27	e24	28	50	684	350	314	97	83
8	39	29	34	27	25	27	50	750	348	289	93	75
9	39	32	32	27	26	27	52	740	375	284	90	68
10	39	32	33	e26	27	26	56	514	415	256	87	67
11	38	30	e29	e25	27	27	52	408	525	251	84	64
12	39	30	26	e25	28	28	53	352	494	268	82	64
13	38	32	e25	e25	28	29	68	319	501	253	81	66
14	38	32	e24	26	28	30	82	320	439	235	79	62
15	38	27	e24	e24	28	31	84	386	504	225	77	59
16	38	26	e23	e25	27	32	87	411	499	208	81	58
17	38	28	e23	26	27	33	106	448	476	196	81	57
18	37	30	e23	e24	27	32	97	594	631	190	75	55
19	37	31	e23	e23	28	31	85	704	648	191	74	54
20	36	32	e22	e24	28	33	81	754	612	188	75	54
21	35	32	e22	e25	27	31	86	692	577	281	89	56
22	38	28	e23	e26	27	30	98	571	562	210	79	53
23	40	26	e23	26	26	31	94	594	559	189	74	52
24	34	28	e23	26	25	32	83	656	580	174	72	52
25	35	31	e24	26	26	33	86	693	584	165	69	59
26	37	31	e24	26	27	33	103	642	550	156	68	59
27	38	32	e24	26	25	35	177	862	476	148	66	58
28	32	30	e25	26	26	36	244	652	432	142	64	56
29	24	30	26	26	25	37	315	580	429	136	61	53
30	e20	e28	e25	27	---	39	369	512	502	129	60	53
31	e21	---	26	27	---	40	---	467	---	124	60	---
TOTAL	1144	855	824	793	749	962	2987	16670	14723	7483	2586	1845
MEAN	36.9	28.5	26.6	25.6	25.8	31.0	99.6	538	491	241	83.4	61.5
MAX	46	32	34	27	28	40	369	862	648	422	120	86
MIN	20	20	22	23	22	26	41	301	348	124	60	52
AC-FT	2270	1700	1630	1570	1490	1910	5920	33060	29200	14840	5130	3660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	39.4	30.8	24.0	23.3
MAX	47.6	38.7	27.9	26.3
(WY)	1991	1991	1991	1990
MIN	27.8	22.8	16.0	16.7
(WY)	1989	1989	1989	1989

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	53206	51621	---
ANNUAL MEAN	146	141	148
HIGHEST ANNUAL MEAN	---	---	153
LOWEST ANNUAL MEAN	---	---	141
HIGHEST DAILY MEAN	1320	862	1320
LOWEST DAILY MEAN	19	20	12
ANNUAL SEVEN-DAY MINIMUM	20	22	13
INSTANTANEOUS PEAK FLOW	---	1020	1710
INSTANTANEOUS PEAK STAGE	---	4.56	5.37
INSTANTANEOUS LOW FLOW	---	19a	11b
ANNUAL RUNOFF (AC-FT)	105500	102400	107100
10 PERCENT EXCEEDS	505	470	498
50 PERCENT EXCEEDS	37	45	43
90 PERCENT EXCEEDS	22	25	21

a Gage height, 1.50 ft, control change; may have been lower during period of ice effect.

b Gage height, 1.63 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.

WATER-DISCHARGE RECORDS

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 National Vertical Datum of 1929, 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.--Estimated daily discharges: Oct. 28 to Mar. 17. Records good except those for May 1 to July 29, which are fair, and those for estimated daily discharges, which are poor. No regulation or diversion upstream of station. Several observations of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	e150	e100	e120	e90	e120	434	3780	2600	2190	542	237
2	175	e130	e110	e110	e90	e130	539	3570	2670	1890	538	254
3	169	e120	e110	e100	e85	e130	751	3860	2740	1870	521	223
4	168	e140	e120	e110	e85	e140	1010	4300	2500	1990	509	217
5	156	e150	e130	e120	e80	e150	940	4800	2570	1900	458	362
6	153	e160	e140	e130	e80	e150	695	5360	2240	1660	431	400
7	156	e150	e150	e130	e80	e160	581	6120	2030	1490	410	486
8	158	e150	e140	e120	e85	e160	562	6560	1960	1390	387	445
9	155	e160	e140	e110	e95	e150	520	6050	2020	1410	371	352
10	152	e160	e130	e110	e100	e140	613	4000	2090	1320	358	382
11	152	e150	e110	e100	e100	e140	601	3330	2450	1280	344	331
12	150	e150	e120	e100	e100	e150	568	2900	2400	1460	327	307
13	147	e160	e130	e95	e100	e170	1020	2720	2390	1530	317	311
14	145	e170	e120	e95	e100	e200	1370	2760	2170	1300	306	285
15	143	e150	e100	e90	e100	e230	1440	3410	2560	1180	292	262
16	142	e130	e100	e100	e95	e250	1490	3710	3030	1070	308	251
17	138	e150	e110	e100	e95	e270	1870	3590	3040	999	335	237
18	138	e160	e120	e95	e90	267	1570	4360	3970	956	314	235
19	134	e150	e130	e90	e100	225	1260	5100	4450	990	293	229
20	133	e150	e120	e90	e120	230	1110	5220	4260	1110	280	224
21	130	e140	e110	e90	e120	203	1220	4840	3530	1540	330	234
22	140	e130	e110	e95	e120	176	1420	4090	3140	1270	299	226
23	190	e110	e120	e100	e110	194	1390	4040	2940	1050	281	214
24	153	e130	e130	e110	e110	213	1160	4160	2780	957	273	211
25	152	e140	e120	e110	e100	212	1170	4140	2700	869	263	256
26	155	e140	e110	e100	e100	218	1420	3850	2810	817	258	266
27	173	e150	e110	e100	e110	262	2360	5100	2470	765	248	264
28	e140	e130	e100	e110	e110	275	3220	3890	2250	699	238	251
29	e130	e130	e110	e110	e120	279	3770	3400	2080	648	227	237
30	e130	e110	e120	e100	---	332	4640	3100	2300	604	223	227
31	e140	---	e120	e90	---	388	---	2880	---	570	219	---
TOTAL	4681	4300	3690	3230	2870	6314	40714	128990	81140	38774	10500	8416
MEAN	151	143	119	104	99.0	204	1357	4161	2705	1251	339	281
MAX	190	170	150	130	120	388	4640	6560	4450	2190	542	486
MIN	130	110	100	90	80	120	434	2720	1960	570	219	211
AC-FT	9280	8530	7320	6410	5690	12520	80760	255900	160900	76910	20830	16690

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

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1992, BY WATER YEAR (WY)*

MEAN	215	157	119	105	100	107	438	2663	4151	1341	348	229
MAX	485	330	202	200	171	204	1684	6885	7834	3256	886	518
(WY)	1942	1928	1951	1969	1969	1992	1990	1928	1927	1943	1968	1968
MIN	109	88.1	75.5	71.8	70.0	67.9	105	969	1408	344	173	115
(WY)	1989	1937	1953	1989	1942	1964	1945	1933	1934	1931	1940	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1923 - 1992*			
ANNUAL TOTAL	329165				333619				--			
ANNUAL MEAN	902				912				837			
HIGHEST ANNUAL MEAN	--				--				1287			1925
LOWEST ANNUAL MEAN	--				--				525			1934
HIGHEST DAILY MEAN	8650				May 25	6560	May 8	11900	May 25	1928		
LOWEST DAILY MEAN	85				Jan 29	80	Feb 5	45	Mar 23	1964		
ANNUAL SEVEN-DAY MINIMUM	94				Jan 24	84	Feb 2	57	Mar 5	1964		
INSTANTANEOUS PEAK FLOW	--					7960	May 8	13600	May 25	1928		
INSTANTANEOUS PEAK STAGE	--					7.58	May 8	9.75	May 25	1928		
INSTANTANEOUS LOW FLOW	--					--		40a	Mar 16	1945		
ANNUAL RUNOFF (AC-FT)	652900					661700		606300				
10 PERCENT EXCEEDS	3040					3030		2900				
50 PERCENT EXCEEDS	169					228		186				
90 PERCENT EXCEEDS	110					100		90				

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

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

e Estimated.

YELLOWSTONE RIVER BASIN
06188000 LAMAR RIVER NEAR TOWER FALLS RANGER STATION, YELLOWSTONE NATIONAL PARK--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985-86, 1988 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: May 1985 to September 1986 (seasonal records only), August 1988 to September 1989, April 1990 to current year (seasonal records only).

REMARKS.--Unpublished records for many days of instantaneous water temperature are available in files of District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 8,950 mg/L, Aug. 13, 1990; minimum daily mean, 1 mg/L, on several days in August 1986, October 1988, and September 1989.

SEDIMENT LOAD: Maximum daily, 24,300 tons, May 18, 1991; minimum daily, 0.29 tons, Oct. 2, 15, 16, 1989.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,070 mg/L, Apr. 30; minimum daily mean, 2 mg/L, on many days in August and September.

SEDIMENT LOAD: Maximum daily, 15,200 tons, May 8; minimum daily, 1.1 tons, Sept. 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
01...	1545	184	50	1	196	18.5	11.0	4	2.0	82
NOV										
14...	1255	167	--	--	184	3.0	0.0	--	--	--
FEB										
05...	1030	78	--	--	244	-20.0	0.0	--	--	--
MAR										
23...	1625	176	--	--	190	10.0	3.0	--	--	--
MAY										
07...	0845	5900	--	--	76	12.0	5.0	572	9110	51
20...	1435	4730	--	--	79	19.0	8.0	210	2680	43
JUN										
17...	1525	2730	--	--	113	12.0	9.0	44	324	61
JUL										
30...	1305	610	--	--	157	24.0	14.5	8	13	79
SEP										
10...	1700	357	--	0	158	18.0	--	8	7.7	94

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER
1	---	---	393	4010	36	253	56	331	5	7.3	3	1.9
2	---	---	200	1930	37	267	21	107	5	7.3	24	16
3	---	---	242	2520	50	370	18	91	9	13	37	22
4	---	---	310	3600	25	169	30	161	6	8.2	5	2.9
5	---	---	370	4800	34	236	39	200	5	6.2	17	17
6	---	---	593	8580	26	157	19	85	4	4.7	32	35
7	---	---	737	12200	20	110	14	56	3	3.3	40	52
8	---	---	860	15200	15	79	11	41	2	2.1	29	35
9	---	---	816	13300	25	136	15	57	2	2.0	11	10
10	---	---	250	2700	26	147	11	39	2	1.9	11	11
11	---	---	86	773	75	496	8	28	2	1.9	8	7.1
12	---	---	61	478	52	337	26	102	3	2.6	7	5.8
13	---	---	63	463	42	271	46	190	3	2.6	7	5.9
14	---	---	58	404	21	123	12	42	3	2.5	5	3.8
15	---	---	131	1140	54	373	8	25	2	1.6	2	1.4
16	---	---	193	1840	97	794	7	20	2	1.7	2	1.4
17	---	---	149	1380	66	542	5	13	4	3.6	2	1.3
18	---	---	246	2800	253	2710	7	18	2	1.7	2	1.3
19	---	---	334	4460	256	3080	9	24	2	1.6	2	1.2
20	---	---	374	5140	176	2020	970	2910	2	1.5	2	1.2
21	---	---	261	3320	67	639	920	3830	2	1.8	2	1.3
22	---	---	153	1640	47	398	123	422	2	1.6	2	1.2
23	---	---	134	1420	37	294	23	65	2	1.5	2	1.2
24	43	135	126	1370	34	255	17	44	2	1.5	2	1.1
25	44	139	137	1490	66	481	12	28	2	1.4	3	2.1
26	64	245	106	1070	197	1490	8	18	2	1.4	4	2.9
27	420	2680	428	5740	110	734	7	14	2	1.3	4	2.9
28	886	7700	123	1260	81	492	7	13	2	1.3	4	2.7
29	760	7740	82	731	34	191	5	8.7	2	1.2	4	2.6
30	1070	13400	60	488	71	441	6	9.8	2	1.2	4	2.5
31	---	---	44	331	---	---	5	7.7	2	1.2	---	---
TOTAL	---	32039	---	106578	---	18085	---	9000.2	---	92.7	---	253.7
TOTAL LOAD FOR YEAR:		166048.6	TONS.									

REMARKS.--Estimated daily discharges: Oct. 28 to Mar. 26, Mar. 29 to Apr. 3, and Apr. 6-7. Records good except those for estimated daily discharges, which are poor. No diversion or regulation upstream of station. Several observations of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	e2.3	e2.0	e2.0	e2.0	e2.1	e4.0	51	15	16	5.2	3.5
2	3.0	e2.3	e2.0	e2.0	e1.9	e2.1	e5.0	44	15	15	5.6	3.5
3	2.9	e2.4	e2.1	e2.0	e1.8	e2.1	e8.0	44	15	15	5.9	3.0
4	3.0	e2.5	e2.2	e2.0	e1.7	e2.2	10	45	13	14	6.0	3.9
5	3.2	e2.7	e2.4	e2.0	e1.7	e2.2	8.5	47	15	13	4.9	7.0
6	3.2	e3.0	e2.2	e2.1	e1.7	e2.2	e6.0	49	13	11	4.6	6.6
7	3.1	e3.3	e2.2	e2.2	e1.7	e2.1	e4.0	50	13	10	4.3	6.2
8	3.0	e3.5	e2.1	e2.0	e1.8	e2.1	6.2	48	12	10	4.0	4.9
9	3.0	e3.6	e2.1	e1.9	e1.9	e2.0	7.3	57	11	12	4.0	4.2
10	2.9	e3.5	e2.0	e1.9	e2.0	e2.0	10	38	11	11	3.9	3.7
11	2.9	e3.5	e2.1	e2.0	e1.9	e2.1	9.2	31	15	11	3.8	3.5
12	2.9	e3.4	e2.2	e1.9	e1.8	e2.2	12	26	14	13	3.8	3.6
13	2.8	e3.2	e2.0	e1.8	e1.8	e2.3	17	24	13	11	3.7	4.1
14	2.8	e3.1	e2.0	e1.8	e1.9	e2.4	25	23	11	9.4	3.6	3.5
15	2.8	e2.9	e2.0	e1.5	e2.0	e2.5	27	27	30	8.5	3.6	3.4
16	2.8	e2.8	e2.0	e1.6	e2.0	e2.7	31	29	43	8.0	4.5	3.1
17	2.7	e2.9	e2.1	e1.7	e1.9	e2.8	34	25	41	7.7	5.8	3.0
18	2.5	e3.0	e2.2	e1.6	e1.8	e2.7	22	24	34	7.4	4.2	3.0
19	2.7	e3.0	e2.0	e1.6	e1.8	e2.5	17	24	32	7.4	3.9	3.1
20	2.7	e3.0	e1.8	e1.7	e1.9	e2.6	16	23	28	7.8	4.6	3.0
21	2.9	e2.8	e1.8	e1.7	e2.0	e2.6	23	22	23	9.9	5.0	3.0
22	3.0	e2.6	e1.9	e1.8	e2.0	e2.7	29	21	21	8.0	3.9	3.0
23	3.0	e2.4	e2.0	e1.8	e2.0	e2.8	22	19	21	7.3	3.6	3.0
24	3.2	e2.6	e2.0	e1.9	e1.9	e3.0	18	18	19	6.7	3.8	3.3
25	4.0	e2.6	e2.0	e2.0	e1.9	e2.8	18	17	20	6.4	3.6	4.6
26	3.6	e2.6	e2.0	e2.1	e1.8	e2.8	27	19	25	6.1	3.4	4.0
27	3.4	e2.3	e2.0	e2.1	e1.9	2.8	43	38	20	5.9	3.2	3.5
28	e3.0	e2.0	e2.1	e2.0	e2.0	3.0	46	22	16	6.0	3.1	3.1
29	e2.7	e1.7	e2.2	e1.9	e2.1	e3.0	53	20	16	5.9	3.0	3.1
30	e2.5	e1.8	e2.2	e1.8	---	e3.2	63	18	18	5.6	3.1	3.0
31	e2.8	---	e2.1	e1.9	---	e3.5	---	17	---	5.3	3.2	---
TOTAL	92.1	83.3	64.0	58.3	54.6	78.1	621.2	960	593	291.3	128.8	113.4
MEAN	2.97	2.78	2.06	1.88	1.88	2.52	20.7	31.0	19.8	9.40	4.15	3.78
MAX	4.0	3.6	2.4	2.2	2.1	3.5	63	57	43	16	6.0	7.0
MIN	2.5	1.7	1.8	1.5	1.7	2.0	4.0	17	11	5.3	3.0	3.0
AC-FT	183	165	127	116	108	155	1230	1900	1180	578	255	222

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)*

MEAN	3.12	2.57	1.88	1.70	1.66	1.89	10.4	27.6	27.7	10.7	4.24	3.28
MAX	4.85	3.89	2.91	2.31	2.12	3.02	28.2	68.6	64.9	29.0	8.07	4.76
(WY)	1939	1990	1990	1990	1991	1944	1990	1991	1943	1943	1943	1943
MIN	1.74	1.28	1.24	1.28	1.20	1.20	2.46	13.7	13.3	4.65	1.91	1.88
(WY)	1989	1940	1940	1940	1940	1942	1945	1945	1940	1940	1940	1939

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1938 - 1992*	
ANNUAL TOTAL	4121.3		3138.1		--	
ANNUAL MEAN	11.3		8.57		8.19	
HIGHEST ANNUAL MEAN	--		--		13.5	
LOWEST ANNUAL MEAN	--		--		4.24	
HIGHEST DAILY MEAN	167	May 18	63	Apr 30	167	May 18 1991
LOWEST DAILY MEAN	1.2	Jan 29	1.5	Jan 15	.60	Nov 30 1939
ANNUAL SEVEN-DAY MINIMUM	1.4	Jan 24	1.6	Jan 15	.91	Nov 27 1939
INSTANTANEOUS PEAK FLOW	--	--	87	Apr 29	198	May 17 1991
INSTANTANEOUS PEAK STAGE	--	--	2.59	Apr 29	3.99	May 17 1991
INSTANTANEOUS LOW FLOW	--	--	--	--	.00a	Dec 23 1937
ANNUAL RUNOFF (AC-FT)	8170		6220		5930	
10 PERCENT EXCEEDS	28		23		22	
50 PERCENT EXCEEDS	3.1		3.1		3.0	
90 PERCENT EXCEEDS	1.8		1.9		1.4	

* During periods of operation (December 1937 to October 1945, October 1988 to current year).

a Result of ice jam.

e Estimated.

YELLOWSTONE RIVER BASIN

06190370 GARDNER RIVER ABOVE MAMMOTH SPRINGS OUTFLOW, NEAR MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°58'05", long 110°40'46", Yellowstone National Park, Hydrologic Unit 10070001, on right bank, 1,200 ft upstream from Mammoth Springs outflow and 0.5 mi upstream from foot bridge.

PERIOD OF RECORD.--Water years 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	0830	E111	0	--	-3.0	0.0	22	6.6
DEC 16...	1445	E93	0	232	-2.0	0.0	21	6.4
FEB 05...	1300	E75	0	261	-3.0	0.0	20	7.0
MAR 24...	1045	E79	--	239	7.5	3.0	23	7.2
MAY 05...	0845	E480	--	140	7.0	4.5	7.1	2.6
JUN 16...	0955	E365	60	188	7.0	7.0	10	2.3
JUL 29...	0845	E133	0	206	12.0	10.5	13	3.6
SEP 09...	0845	E108	1	222	7.0	8.0	18	5.2

E-Estimate.

06190415 MAMMOTH SPRINGS OUTFLOW AT MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°58'08", long 110°41'02", Yellowstone National Park, Hydrologic Unit 10070001, 2,000 ft upstream from mouth.

PERIOD OF RECORD.--Water years 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	0900	1.8	0	1960	-3.0	10.0	590	160
DEC 16...	1500	1.8	0	2000	-2.0	11.0	690	180
FEB 05...	1315	1.4	0	2000	-2.0	12.0	600	160
MAR 24...	1110	1.6	--	1990	8.5	15.5	580	170
MAY 05...	0930	1.7	--	1990	11.0	14.5	530	180
JUN 16...	1055	2.3	60	1970	7.0	15.0	560	160
JUL 29...	1015	1.7	0	1980	19.0	20.5	600	180
SEP 09...	0920	1.8	1	2010	11.5	16.5	590	180

YELLOWSTONE RIVER BASIN

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06190525 GARDNER RIVER SINKHOLE DIVERSION AT MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°58'53", long 110°41'09", Yellowstone National Park, Hydrologic Unit 10070001, 0.3 mi upstream from Hot River, 1.0 mi northeast of Mammoth and at mile 3.7.

PERIOD OF RECORD.--Water years 1989 to September 1992 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	1340	8.1	0	0	312	0.0	0.0	35	10
DEC 16...	1615	8.6	--	0	296	-5.0	0.0	43	10
FEB 05...	1535	9.6	--	0	309	-2.0	0.0	37	11
MAR 24...	1605	8.9	--	--	300	9.5	4.0	37	12
MAY 05...	1415	9.0	--	--	153	28.0	9.0	11	3.5
JUN 16...	1440	8.0	--	60	211	8.0	7.0	16	3.6
JUL 29...	1355	9.1	--	0	238	23.0	16.0	25	6.9
SEP 09...	1015	9.0	--	1	260	10.5	9.0	29	8.6

06190530 CLEMATIS CREEK AT MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°58'29", long 110°42'07", Yellowstone National Park, Hydrologic Unit 10070001, on right bank at upstream side of wooden footbridge, 500 ft south of Mammoth Hotel in Mammoth, YNP.

PERIOD OF RECORD.--Water years 1990 to September 1992 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	0750	0.21	0	0	--	-6.0	19.0	360	86
DEC 16...	1420	0.16	--	0	1620	-1.0	25.0	530	130
FEB 05...	1210	0.08	--	0	1900	-4.0	15.5	560	140
MAR 24...	1015	0.21	--	--	1440	5.0	22.0	340	100
MAY 05...	1015	2.5	--	--	515	13.0	11.0	120	22
JUN 16...	0905	1.3	--	60	557	7.0	10.0	120	16
JUL 29...	0745	0.33	--	0	928	11.5	20.0	210	49
SEP 09...	0805	0.25	--	1	1020	7.5	18.0	220	53

YELLOWSTONE RIVER BASIN
06190540 HOT RIVER AT MAMMOTH, YELLOWSTONE NATIONAL PARK

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

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year. Miscellaneous measurements made at this site 1938-44, 1966-67, and 1986-87 water years.

GAGE.--Water-stage recorder. Datum of gage is 5,666.11 ft above National Geodetic Vertical Datum of 1929. Levels by U.S. National Park Service.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	25	25	25	24	26	26	29	28	28	28	28
2	27	24	25	25	24	26	26	28	28	28	28	28
3	27	24	25	25	23	26	26	28	28	28	28	28
4	27	25	26	27	23	26	26	28	28	28	28	28
5	27	25	26	27	23	26	26	28	28	28	28	28
6	27	25	26	27	24	26	26	27	28	29	28	28
7	27	25	26	27	25	26	26	28	28	28	29	28
8	27	25	25	27	27	26	26	28	28	29	28	28
9	27	25	26	26	27	26	26	28	28	29	29	28
10	27	25	25	25	27	26	26	28	28	29	28	28
11	27	25	22	25	27	26	26	27	28	29	28	28
12	27	25	25	25	27	26	25	27	27	29	28	28
13	27	25	25	26	27	26	25	27	27	29	28	28
14	27	26	25	26	27	26	26	27	27	28	28	28
15	27	24	22	27	27	26	26	27	27	28	29	28
16	27	24	24	27	27	26	27	27	28	28	28	28
17	27	25	22	27	26	26	27	27	29	28	28	28
18	27	26	25	27	26	26	27	27	29	28	28	28
19	27	26	26	27	26	25	26	27	29	28	28	28
20	27	26	24	27	26	25	26	27	29	28	28	27
21	27	26	25	26	26	25	27	28	29	28	28	27
22	27	24	26	26	26	25	27	28	29	28	28	27
23	26	24	24	26	26	25	27	28	29	28	28	27
24	26	25	27	26	26	25	27	28	29	28	28	27
25	26	25	25	26	26	25	27	28	29	28	28	27
26	26	25	23	25	26	25	27	28	29	28	28	27
27	25	25	24	26	26	26	28	28	29	28	28	27
28	23	25	23	26	26	26	28	28	29	28	28	27
29	24	25	26	25	26	26	29	28	29	28	28	27
30	25	24	25	25	---	26	29	28	29	28	28	27
31	25	---	26	25	---	26	---	28	---	28	28	---
TOTAL	820	748	769	807	747	798	797	858	850	875	871	829
MEAN	26.5	24.9	24.8	26.0	25.8	25.7	26.6	27.7	28.3	28.2	28.1	27.6
MAX	27	26	27	27	27	26	29	29	29	29	29	28
MIN	23	24	22	25	23	25	25	27	27	28	28	27
AC-FT	1630	1480	1530	1600	1480	1580	1580	1700	1690	1740	1730	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	26.8	25.9	25.9	26.4
MAX	29.9	28.8	27.6	28.0
(WY)	1989	1989	1989	1989
MIN	23.9	22.7	23.4	24.1
(WY)	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	9569	9769	--
ANNUAL MEAN	26.2	26.7	26.6
HIGHEST ANNUAL MEAN	--	--	27.4
LOWEST ANNUAL MEAN	--	--	25.5
HIGHEST DAILY MEAN	32	29	32
LOWEST DAILY MEAN	22	22	20
ANNUAL SEVEN-DAY MINIMUM	24	24	22
INSTANTANEOUS PEAK FLOW	--	29a	32b
INSTANTANEOUS PEAK STAGE	--	1.37a	1.43b
INSTANTANEOUS LOW FLOW	--	18c	18d
ANNUAL RUNOFF (AC-FT)	18980	19380	19260
10 PERCENT EXCEEDS	28	28	29
50 PERCENT EXCEEDS	26	27	27
90 PERCENT EXCEEDS	25	25	24

a Many days.

b Many days in 1991.

c Gage height, 1.10 ft.

d Many days in 1990, Nov. 15, 1991.

06190540 HOT RIVER AT MAMMOTH, YELLOWSTONE NATIONAL PARK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1988 to September 1990.

WATER TEMPERATURE: October 1988 to September 1990.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1989-90): Maximum, 2,410 microsiemens, Jan. 29, 1990; minimum, 1,500 microsiemens, July 17, 22-23, 1990.

WATER TEMPERATURE (water years 1989-1990): Maximum, 55.5°C, Feb. 28, 1990; minimum, 38.0°C, June 16, 17, 1989, April 19, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV									
15...	1110	25	0	0	1670	0.0	42.5	--	--
DEC									
16...	1555	26	--	0	1630	-5.0	41.5	500	130
FEB									
05...	1415	26	--	0	1660	-2.0	41.5	390	110
MAR									
24...	1315	25	--	1	1660	9.5	42.0	400	110
MAY									
05...	1345	27	--	--	1480	28.0	41.0	350	110
JUN									
16...	1430	28	--	60	1540	8.0	39.5	350	100
JUL									
29...	1315	29	--	0	1540	25.0	42.5	370	110
SEP									
09...	1035	28	--	1	1560	18.0	42.0	380	100

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.

GAGE.--Water-stage recorder. Datum of gage is 5,623.97 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. National Park Service).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	115	92	92	88	92	103	516	323	271	146	123
2	122	94	106	93	88	92	110	481	318	252	148	122
3	121	101	109	89	87	93	123	481	327	248	147	118
4	121	122	106	97	82	94	137	507	305	253	151	122
5	121	124	105	96	86	95	141	534	305	236	141	149
6	121	122	104	96	86	95	125	565	287	224	138	151
7	120	120	101	94	87	94	118	618	273	218	136	146
8	120	120	102	93	98	94	120	668	264	216	133	133
9	117	139	100	91	92	92	126	724	259	225	131	128
10	117	134	98	90	92	92	154	542	255	213	130	125
11	117	123	87	91	92	93	149	453	266	213	129	123
12	117	121	102	91	91	94	160	408	262	221	128	124
13	115	123	102	88	90	95	208	380	262	222	128	127
14	115	122	100	93	90	96	243	366	249	202	127	122
15	115	113	92	78	90	98	259	408	313	193	127	119
16	115	107	98	92	90	100	280	475	380	186	136	118
17	114	121	90	88	90	102	341	433	365	182	137	117
18	112	119	102	78	88	100	296	458	336	179	129	117
19	115	113	103	84	85	96	252	502	325	178	126	115
20	114	109	83	84	89	94	235	523	311	177	129	115
21	116	109	88	84	91	93	267	511	294	187	132	115
22	122	102	101	88	90	90	312	454	288	179	127	114
23	128	91	94	88	90	91	291	434	282	172	125	112
24	119	118	100	90	89	91	254	434	276	164	125	114
25	118	112	95	88	89	92	247	431	289	159	124	121
26	119	108	91	90	89	92	272	430	291	157	124	120
27	125	110	91	90	90	96	348	570	281	154	122	116
28	115	109	92	90	91	96	411	436	257	155	119	114
29	102	102	98	90	92	96	466	393	257	152	119	112
30	102	80	97	90	---	98	580	369	265	149	119	111
31	123	---	95	90	---	100	---	340	---	146	120	---
TOTAL	3641	3403	3024	2776	2592	2936	7128	14844	8765	6083	4053	3663
MEAN	117	113	97.5	89.5	89.4	94.7	238	479	292	196	131	122
MAX	128	139	109	97	98	102	580	724	380	271	151	151
MIN	102	80	83	78	82	90	103	340	249	146	119	111
AC-FT	7220	6750	6000	5510	5140	5820	14140	29440	17390	12070	8040	7270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992. BY WATER YEAR (WY)*

CHARACTERISTICS OF MONTHLY MEAN DATA FOR WATERSHED YEARS 1966					1967, BY WATERSHED YEAR (WY)							
MEAN	126	111	101	95.0	91.3	91.1	138	482	716	304	161	136
MAX	175	136	119	118	116	116	304	811	1354	662	236	190
(WY)	1969	1969	1972	1969	1969	1986	1990	1956	1971	1943	1943	1968
MIN	95.9	85.5	79.3	77.6	75.0	75.4	84.1	283	212	133	103	93.4
(WY)	1961	1940	1941	1941	1940	1942	1945	1960	1987	1988	1988	1988

1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304	
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	FOR 1950-1959		FOR 1960-1969		FOR 1970-1979		FOR 1980-1989		FOR 1990-1999	
ANNUAL TOTAL	74144		62908		--		--			
ANNUAL MEAN	203		172		213		313			1977
HIGHEST ANNUAL MEAN	--		--		138					1988
LOWEST ANNUAL MEAN	--		--		1830					1956
HIGHEST DAILY MEAN	1270	May 25	724	May 9	53					1988
LOWEST DAILY MEAN	71	Jan 29	78	Jan 15	61					1989
ANNUAL SEVEN-DAY MINIMUM	82	Mar 17	84	Jan 15	2080a					1956
INSTANTANEOUS PEAK FLOW	--		783	May 9	4.78b					1962
INSTANTANEOUS PEAK STAGE	--		3.53	May 9	35d					1942
INSTANTANEOUS LOW FLOW	--		58c	Feb 4						
ANNUAL RUNOFF (AC-FT)	147100		124800		154200					
10 PERCENT EXCEEDS	432		343		510					
50 PERCENT EXCEEDS	118		120		120					
90 PERCENT EXCEEDS	85		90		87					

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

a Gage height, 4.46 ft.

b Backwater from logs and debris.

c Gage height, 1.81 ft.

d Gage height, 1.08 ft.

YELLOWSTONE RIVER BASIN

53

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985, 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1984 to September 1985.

WATER TEMPERATURE: October 1984 to September 1985.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water year 1985): Maximum , 941 microsiemens, Mar. 4, 1985; minimum, 186 microsiemens, May 26, 1985.

WATER TEMPERATURE (water year 1985): Maximum, 22.5°C, July 22, 26, 1985; minimum, 4.0°C, Apr. 20, May 12, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV									
15...	1440	115	0	0	646	-2.0	8.0	130	33
DEC									
16...	1645	103	--	0	634	-5.0	9.0	140	36
FEB									
05...	1550	94	--	0	694	-6.0	10.3	120	35
MAR									
24...	1808	94	--	1	695	9.0	13.8	140	40
MAY									
05...	1615	495	--	0	251	28.0	13.5	35	13
06...	1000	575	--	--	253	18.0	10.0	--	--
JUN									
16...	1740	396	--	60	347	6.5	10.0	44	12
JUL									
29...	1645	150	--	0	503	25.0	18.5	87	26
SEP									
09...	1110	129	--	1	564	13.0	16.6	100	30

06191400 LaDUKE (CORWIN) HOT SPRINGS NEAR CORWIN SPRINGS, MT

LOCATION.--Lat 45°05'26", long 110°46'28", in NW¼ SE¼ SW¼ sec.32, T.8 S., R.8 E., Park County, Hydrologic Unit 10070001, downstream end of concrete culvert under U.S. Highway 89, about 4.5 mi north of Gardiner, and 3 mi south of Corwin Springs.

PERIOD OF RECORD.--Water years 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV									
15...	1625	0.18	0	0	2600	-2.0	62.0	1300	40
DEC									
16...	1315	0.20	--	0	2600	2.0	62.5	1200	49
FEB									
05...	1810	0.20	--	0	2600	-5.0	62.5	1200	47
MAR									
24...	1830	0.21	--	1	2590	10.0	62.5	1200	47
MAY									
07...	1300	0.20	--	0	2450	26.0	63.5	1200	47
JUN									
16...	1815	0.22	--	60	2640	6.0	62.5	1200	44
JUL									
29...	1710	0.20	--	0	2540	25.5	62.5	1200	47
SEP									
09...	1200	0.18	--	1	2520	17.0	62.5	1200	52

YELLOWSTONE RIVER BASIN
06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT

LOCATION.--Lat 45°06'43", long 110°47'37", in NW¼ SE¼ NW¼ 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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929.

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.--Estimated daily discharges: Oct. 30, Nov. 2-4, Dec. 1, 2, 17, 21-23, 28, and Jan. 2, 3, 15, 19-22.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	1220	e950	873	828	904	1210	7570	6650	6940	3050	1660
2	1530	e1050	e1000	e860	830	912	1330	6880	6710	6230	3010	1660
3	1500	e1000	995	e850	828	922	1550	7150	6870	6130	2940	1610
4	1470	e1150	1060	856	810	932	1940	8000	6480	6360	2920	1590
5	1440	1200	1080	874	805	948	2000	8880	6530	6080	2790	1850
6	1430	1210	1090	888	795	959	1710	9940	6100	5630	2730	1950
7	1430	1180	1110	907	793	953	1500	11000	5700	5350	2650	2040
8	1420	1170	1070	898	811	947	1500	11900	5540	5160	2590	1920
9	1400	1240	1060	893	826	907	1440	11900	5540	5180	2530	1780
10	1380	1260	1070	879	845	882	1600	8340	5610	4970	2460	1750
11	1370	1200	953	866	853	904	1630	6990	6020	4820	2380	1690
12	1360	1190	951	860	850	922	1560	6280	6240	5150	2330	1650
13	1350	1210	981	839	856	944	2050	5930	6120	5300	2280	1650
14	1310	1220	853	856	865	985	2710	5810	5690	4800	2240	1610
15	1300	1120	897	e820	865	1020	2900	6870	6370	4580	2180	1550
16	1290	1070	896	832	855	1060	3010	7780	7850	4350	2200	1520
17	1300	1110	e900	853	855	1080	3640	7410	7930	4210	2220	1490
18	1280	1180	928	820	833	1090	3470	8640	9370	4090	2160	1450
19	1250	1160	977	e820	845	1010	2840	10100	10100	3990	2070	1430
20	1230	1140	953	e830	872	1000	2500	10500	9800	4140	2040	1420
21	1220	1140	e900	e820	891	970	2670	10200	8630	4860	2060	1420
22	1250	1050	e900	e810	896	919	3050	8730	7850	4510	2030	1400
23	1390	990	e920	821	875	936	3110	8760	7450	4080	1970	1380
24	1300	1100	942	823	835	968	2670	8920	7190	3890	1920	1370
25	1290	1140	931	830	870	972	2660	9070	7330	3720	1850	1460
26	1310	1100	906	837	865	970	2900	8680	7860	3600	1800	1470
27	1370	1140	883	836	860	1010	4240	11200	7350	3480	1770	1440
28	1240	1060	e860	837	875	1060	6010	9040	6770	3380	1730	1400
29	1110	1080	880	852	891	1050	6710	8050	6440	3300	1700	1370
30	e1050	1010	909	855	---	1090	9010	7580	6780	3200	1650	1350
31	1190	---	885	839	---	1170	---	7190	---	3130	1630	---
TOTAL	41320	34090	29690	26334	24578	30396	85120	265290	210870	144610	69880	47330
MEAN	1333	1136	958	849	848	981	2837	8558	7029	4665	2254	1578
MAX	1560	1260	1110	907	896	1170	9010	11900	10100	6940	3050	2040
MIN	1050	990	853	810	793	882	1210	5810	5540	3130	1630	1350
AC-FT	81960	67620	58890	52230	48750	60290	168800	526200	418300	286800	138600	93880

YELLOWSTONE RIVER BASIN
06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1992, BY WATER YEAR (WY)*												
MEAN	1533	1194	965	843	830	911	1524	5854	11330	6824	3189	1959
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
SUMMARY STATISTICS												
	FOR 1991 CALENDAR YEAR					FOR 1992 WATER YEAR			WATER YEARS 1889 - 1992*			
ANNUAL TOTAL	1167156					1009508			--			
ANNUAL MEAN	3198					2758			3089			
HIGHEST ANNUAL MEAN	--					--			4346			1913
LOWEST ANNUAL MEAN	--					--			1903			1934
HIGHEST DAILY MEAN	17700				May 25	11900		May 8	32000a			Jun 14 1918
LOWEST DAILY MEAN	550				Jan 29	793		Feb 7	380			Feb 5 1989
ANNUAL SEVEN-DAY MINIMUM	609				Jan 25	810		Feb 3	393			Feb 4 1937
INSTANTANEOUS PEAK FLOW	--					13800		May 8	32000a			Jun 14 1918
INSTANTANEOUS PEAK STAGE	--					6.97		May 8	11.50			Jun 14 1918
INSTANTANEOUS LOW FLOW	--					768b			343c			Feb 2 1989
ANNUAL RUNOFF (AC-FT)	2315000					2002000			2238000			
10 PERCENT EXCEEDS	9830					7190			8380			
50 PERCENT EXCEEDS	1310					1410			1400			
90 PERCENT EXCEEDS	653					855			760			

* During period of operation (1890-93, 1911-12).

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

b Gage height, 0.84 ft.

c Gage height, 0.12 ft, result of freezeup.

e Estimated.

YELLOWSTONE RIVER BASIN

06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-57, 1965, 1969-74, 1977-81, 1984 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1984 to September 1985.

WATER TEMPERATURE: June 1977 to September 1981, March 1984 to September 1985.

SUSPENDED-SEDIMENT DISCHARGE: May 1985 to September 1987 (seasonal records only), September 1988 to September 1990, October 1990 to current year (seasonal records only).

REMARKS.--Unpublished records for many days of instantaneous water temperature are available in files of District office.

EXTREMES FOR PERIOD OF DAILY RECORDS.--

SPECIFIC CONDUCTANCE (water years 1984-85): Maximum, 311 microsiemens, Feb. 5, 1985; minimum, 71 microsiemens, June 21, 22, 1984.

WATER TEMPERATURE (water years 1977-81, 1984-85): Maximum, 21.5°C, July 22, 23, 1977; minimum, 0.0°C, on many days during winter most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 1,330 mg/L, May 19, 1991; minimum daily mean, 1 mg/L, on several days in September 1987.

SEDIMENT LOAD: Maximum daily, 50,700 tons, May 25, 1991; minimum daily, 2.7 tons, Sep. 29, 1987.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 920 mg/L, May 8; minimum daily mean, 3 mg/L, Sept. 24-26.

SEDIMENT LOAD: Maximum daily, 29,600 tons, May 8; minimum daily, 11 tons, Sept. 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SED. SUSP. DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SIEVE DIAM. % FINER THAN .062 MM
OCT										
02...	0945	1560	20	1	216	11.5	12.5	4	17	92
NOV										
15...	1740	--	--	--	248	-2.0	--	--	--	--
DEC										
31...	1215	855	--	--	280	-4.0	1.5	--	--	--
FEB										
04...	1610	--	--	--	301	5.0	2.5	--	--	--
MAR										
25...	1510	948	--	--	286	15.0	8.5	--	--	--
MAY										
07...	1715	9650	--	1	103	26.0	9.0	360	9380	42
21...	0855	10600	--	60	89	--	9.5	264	7560	47
JUN										
15...	1730	6860	--	60	126	13.0	11.0	80	1480	56
JUL										
30...	1705	3200	--	0	160	28.0	18.0	8	69	76
SEP										
09...	1840	1760	--	0	207	18.5	13.5	7	33	90

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SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)						
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)						
APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER		
1	14	46	300	6130	52	934	76	1420	11	91	5	22					
2	16	57	215	3990	82	1490	46	774	12	98	4	18					
3	29	121	198	3820	77	1430	51	844	11	87	4	17					
4	108	566	342	7390	55	962	60	1030	11	87	5	21					
5	116	626	435	10400	51	899	59	969	10	75	18	90					
6	42	194	669	18000	36	593	44	669	9	66	21	111					
7	25	101	845	25100	30	462	35	506	8	57	28	154					
8	16	65	920	29600	31	464	32	446	8	56	20	104					
9	16	62	830	26700	37	553	30	420	8	55	9	43					
10	19	82	325	7320	39	591	25	335	9	60	6	28					
11	24	106	140	2640	58	943	19	247	9	58	6	27					
12	19	80	122	2070	80	1350	35	487	9	57	6	27					
13	67	371	88	1410	69	1140	57	816	7	43	5	22					
14	119	871	80	1250	44	676	26	337	7	42	4	17					
15	107	838	165	3060	82	1410	25	309	7	41	4	17					
16	90	731	205	4310	217	4600	21	247	6	36	4	16					
17	226	2220	147	2940	184	3940	20	227	16	96	4	16					
18	242	2270	290	6770	273	6910	17	188	16	93	4	16					
19	65	498	420	11500	280	7640	16	172	10	56	4	15					
20	29	196	380	10800	294	7780	21	235	8	44	4	15					
21	39	281	213	5870	139	3240	168	2200	8	44	4	15					
22	46	379	141	3320	98	2080	52	633	8	44	4	15					
23	43	361	168	3970	88	1770	27	297	7	37	4	15					
24	26	187	154	3710	78	1510	21	221	5	26	3	11					
25	23	165	148	3620	175	3460	16	161	5	25	3	12					
26	29	227	123	2880	456	9680	14	136	5	24	3	12					
27	462	5290	452	13700	219	4350	15	141	5	24	4	16					
28	760	12300	162	3950	134	2450	15	137	5	23	4	15					
29	445	8060	125	2720	92	1600	11	98	5	23	4	15					
30	605	14700	79	1620	85	1560	11	95	5	22	4	15					
31	---	---	71	1380	---	---	11	93	5	22	---	---					
TOTAL	---	52051	---	231940	---	76467	---	14890	---	1612	---	937					
TOTAL LOAD FOR YEAR:			377897 TONS.														

YELLOWSTONE RIVER BASIN

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 31...	1230	18	120	0.0	53	17	2.6	1.7	0.1	4.5
MAR 13...	1030	12	131	1.5	62	20	3.0	2.1	0.1	5.9
MAY 15...	1045	312	53	4.5	25	7.5	1.5	1.2	0.1	4.4
SEP 03...	1600	25	106	15.0	51	16	2.6	1.6	0.1	4.6

DATE	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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 31...	<10	1	18	<0.5	<10	<1.0	<1	<3	3	7
MAR 13...	10	<1	17	<0.5	<10	<1.0	2	<3	2	53
MAY 15...	50	<1	10	<0.5	<10	<1.0	<1	<3	4	63
SEP 03...	10	<1	18	0.5	<10	<1.0	<1	<3	2	21

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 31...	<1	<4	2	<0.1	<1	<1.0	52	7	<0.01
MAR 13...	1	<4	6	<0.1	<1	1.0	58	9	<0.01
MAY 15...	<1	<4	3	0.1	<1	<1.0	32	17	<0.01
SEP 03...	2	<4	2	<0.1	<1	<1.0	57	<3	<0.01

YELLOWSTONE RIVER BASIN
06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MT

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LOCATION.--Lat 45°00'37", long 109°03'53", in NW¼ SW¼ NW¼ sec.32, T.9 S., R.22 E., Carbon County, Hydrologic Unit 10070006, on left bank 0.2 mi upstream from county road bridge and Big Sand Coulee, 0.8 mi north of Wyoming-Montana State line, 9.5 mi southwest of Belfry, and at river mile 71.2.

DRAINAGE AREA.--1,154 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 3,986.24 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 15, 1934, nonrecording gage, and Nov. 15, 1934, to July 26, 1951, water-stage recorder at bridge 0.4 mi downstream of different datum. July 27, 1951 to Sept. 30, 1953, water-stage recorder at present site at datum 0.98 ft higher.

REMARKS.--Estimated daily discharges: Oct. 26 to Nov. 6, Nov. 28 to Dec. 5, and Jan. 15-19. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 11,100 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	e280	e220	234	229	244	333	2390	2490	3370	836	163
2	187	e250	e230	240	229	260	354	2060	2580	2820	820	155
3	180	e230	e330	260	225	275	439	1930	3020	2400	789	145
4	186	e250	e350	248	213	260	536	2060	2930	2240	756	137
5	179	e380	e360	274	209	278	546	2340	2940	2380	700	148
6	168	e380	393	254	214	298	471	2790	2740	2370	645	213
7	156	373	383	251	212	278	387	3300	2340	2200	589	302
8	155	377	355	235	217	270	342	3870	2140	1970	526	314
9	156	415	345	233	239	264	334	4100	2230	1770	484	265
10	151	405	346	244	218	246	345	3150	2550	1620	454	260
11	148	392	316	267	214	243	403	2390	3090	1500	432	255
12	144	366	310	248	223	254	368	1940	3210	1640	413	239
13	138	371	352	221	228	277	508	1680	3290	1810	388	252
14	130	391	334	190	224	304	690	1520	3410	1580	348	261
15	124	374	330	e200	220	331	772	1740	3990	1520	304	234
16	118	325	336	e240	216	340	852	2130	4540	1450	304	224
17	134	334	317	e240	216	345	1000	2100	3670	1390	340	203
18	119	376	309	e220	209	332	1050	2430	3630	1320	314	233
19	116	366	342	e220	210	313	888	3410	3640	1290	288	224
20	112	348	327	241	217	290	755	3980	3620	1460	270	232
21	106	355	277	237	216	294	663	4240	3460	2010	284	235
22	106	342	300	234	219	275	605	3630	3420	2080	301	234
23	135	288	292	221	221	266	649	3380	3570	1910	298	225
24	163	284	284	238	217	279	575	3890	3670	1700	283	212
25	156	374	283	243	212	276	534	4190	3790	1530	261	209
26	e180	363	269	242	217	273	567	4250	3560	1360	242	225
27	e290	354	260	237	220	284	802	4730	3240	1200	216	240
28	e340	e320	256	246	225	302	1340	4250	3170	1100	199	247
29	e300	e290	256	246	236	289	1610	3530	3100	1050	186	221
30	e280	e260	251	242	---	285	2270	3120	3530	979	172	176
31	e270	---	246	245	---	306	---	2830	---	897	165	---
TOTAL	5323	10213	9559	7391	6365	8831	20988	93350	96560	53916	12607	6683
MEAN	172	340	308	238	219	285	700	3011	3219	1739	407	223
MAX	340	415	393	274	239	345	2270	4730	4540	3370	836	314
MIN	106	230	220	190	209	243	333	1520	2140	897	165	137
AC-FT	10560	20260	18960	14660	12620	17520	41630	185200	191500	106900	25010	13260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	MEAN	286	296	261	229	222	219	424	2004	4086	2211	620	328
MAX	725	648	379	345	329	364	1167	5704	6631	5744	1453	834	
(WY)	1931	1928	1951	1952	1963	1972	1943	1928	1974	1975	1951	1941	
MIN	45.5	115	110	110	100	96.3	110	839	1607	349	66.5	50.1	
(WY)	1989	1989	1922	1922	1922	1922	1961	1968	1987	1988	1988	1988	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1921 - 1992
ANNUAL TOTAL	325721	331786	--
ANNUAL MEAN	892	907	934
HIGHEST ANNUAL MEAN	--	--	1458
LOWEST ANNUAL MEAN	--	--	547
HIGHEST DAILY MEAN	7840	4730	12300
LOWEST DAILY MEAN	101	106	33
ANNUAL SEVEN-DAY MINIMUM	115	116	37
INSTANTANEOUS PEAK FLOW	--	5730	14800
INSTANTANEOUS PEAK STAGE	--	6.16	9.97
INSTANTANEOUS LOW FLOW	--	101	32a
ANNUAL RUNOFF (AC-FT)	646100	658100	676300
10 PERCENT EXCEEDS	3000	3090	2870
50 PERCENT EXCEEDS	274	311	302
90 PERCENT EXCEEDS	171	198	170

a Result of discharge measurement.

e Estimated.

YELLOWSTONE RIVER BASIN
06218500 WIND RIVER NEAR DUBOIS, WY

LOCATION.--Lat 43°34'43", long 109°45'33", in NW¼ NE¼ sec.25, T.42 N., R.108 W., Fremont County, Hydrologic Unit 10080001, on left bank 2.5 mi upstream from Warm Springs Creek and 6.7 mi northwest of Dubois.

DRAINAGE AREA.--232 mi².

PERIOD OF RECORD.--October 1945 to September 1992 (discontinued).

REVISED RECORDS.--WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,188.71 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 7, Nov. 9-11, Nov. 17 to Mar. 29. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 2,300 acres.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	0500	*555	*3.92	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	74	66	52	54	54	62	185	189	187	78	68
2	90	72	66	52	52	54	71	164	194	176	78	61
3	89	70	70	52	50	56	75	175	229	160	76	59
4	87	70	72	50	46	56	77	202	207	154	74	64
5	84	74	72	48	48	56	75	245	195	149	81	82
6	87	78	70	50	48	56	65	289	180	143	70	80
7	87	80	68	50	49	58	60	319	158	130	65	81
8	85	80	66	48	50	58	70	368	151	121	65	71
9	84	80	66	45	50	58	71	361	150	115	65	71
10	85	82	62	46	50	60	78	274	159	109	63	68
11	84	82	58	48	50	63	76	249	162	105	62	66
12	84	81	56	46	50	66	78	247	166	132	62	64
13	82	82	56	46	50	75	89	241	161	137	61	64
14	82	81	56	42	50	75	88	242	148	115	60	61
15	80	84	56	38	50	75	90	274	198	103	58	61
16	78	81	56	34	50	74	97	272	219	89	59	59
17	80	78	56	36	50	70	110	260	206	85	61	57
18	90	80	54	37	50	62	111	261	227	73	60	57
19	83	80	54	39	49	60	99	272	250	80	57	57
20	82	78	56	42	49	62	88	269	229	124	54	57
21	81	78	58	43	49	56	92	317	215	173	56	56
22	81	74	58	43	49	54	94	424	228	161	58	56
23	85	72	56	47	48	56	88	315	245	136	57	55
24	82	70	56	50	47	58	81	307	246	123	55	55
25	80	78	54	50	46	58	80	302	313	113	53	58
26	84	76	56	50	48	58	87	314	274	110	53	61
27	87	74	56	50	50	62	109	320	306	101	53	60
28	87	72	56	50	52	60	139	281	242	95	51	58
29	78	72	54	50	52	64	151	248	227	93	51	57
30	76	70	54	52	---	66	192	238	213	88	51	55
31	74	---	54	52	---	65	---	205	---	79	53	---
TOTAL	2591	2303	1848	1438	1436	1905	2743	8440	6287	3759	1900	1879
MEAN	83.6	76.8	59.6	46.4	49.5	61.5	91.4	272	210	121	61.3	62.6
MAX	93	84	72	52	54	75	192	424	313	187	81	82
MIN	74	70	54	34	46	54	60	164	148	73	51	55
AC-FT	5140	4570	3670	2850	2850	3780	5440	16740	12470	7460	3770	3730

YELLOWSTONE RIVER BASIN
06218500 WIND RIVER NEAR DUBOIS, WY--Continued

61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1992, BY WATER YEAR (WY)

MEAN	88.4	71.5	62.0	56.8	55.7	61.6	105	364	661	318	139	99.8
MAX	158	103	88.3	88.4	77.6	105	192	628	1181	796	290	171
(WY)	1987	1951	1951	1965	1972	1972	1946	1951	1972	1975	1951	1986
MIN	55.5	40.1	39.0	36.2	38.6	43.2	56.4	160	210	66.0	57.2	51.5
(WY)	1989	1961	1988	1989	1961	1950	1961	1953	1992	1977	1977	1977

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1946 - 1992	
ANNUAL TOTAL	63801		36529		--	
ANNUAL MEAN	175		99.8		174	
HIGHEST ANNUAL MEAN	--		--		280	
LOWEST ANNUAL MEAN	--		--		90.0	
HIGHEST DAILY MEAN	1390	Jun 13	424	May 22	1870	Jun 8 1972
LOWEST DAILY MEAN	35	Jan 30	34	Jan 16	26	Feb 5 1982
ANNUAL SEVEN-DAY MINIMUM	40	Jan 25	38	Jan 14	28	Feb 3 1982
INSTANTANEOUS PEAK FLOW	--	--	555	May 22	1940a	Jun 8 1972
INSTANTANEOUS PEAK STAGE	--	--	3.92	May 22	5.66	Jun 2 1956
ANNUAL RUNOFF (AC-FT)	126500		72460		125900	
10 PERCENT EXCEEDS	416		227		449	
50 PERCENT EXCEEDS	82		72		83	
90 PERCENT EXCEEDS	55		50		50	

a Gage height, 5.48 ft.

YELLOWSTONE RIVER BASIN
06220500 EAST FORK WIND RIVER NEAR DUBOIS, WY

LOCATION.--Lat 43°27'16", long 109°27'57", in SE¼ SW¼ NW¼ sec.34, T.6 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 1.0 mi upstream from mouth and 9.9 mi southeast of Dubois.

DRAINAGE AREA.--427 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,440 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 30, 1957, at site 50 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 7, Nov. 17, 18, 21, 22, Nov. 24 to Mar. 21 and June 15 to July 30. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	0230	*955	*4.55	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	36	48	42	39	47	74	366	466	520	229	113
2	85	34	50	42	40	47	85	292	517	480	225	98
3	78	32	52	42	39	46	111	309	538	450	224	92
4	78	32	54	42	37	46	141	347	483	420	216	102
5	75	40	54	42	36	47	110	415	463	380	203	127
6	65	50	54	42	38	46	78	508	388	340	195	134
7	74	56	54	42	36	52	64	589	352	300	195	136
8	84	61	52	42	36	54	71	667	372	280	194	113
9	84	59	50	42	37	52	99	591	396	270	189	106
10	88	48	50	42	36	50	107	419	440	260	190	104
11	89	41	48	40	36	54	100	377	442	280	174	100
12	90	46	48	38	36	58	90	324	422	310	170	99
13	83	52	50	36	36	60	135	329	411	310	163	107
14	81	78	50	32	37	64	109	331	388	290	157	89
15	87	83	50	32	35	68	111	391	600	280	151	82
16	84	63	48	30	35	66	112	387	700	270	201	84
17	79	64	48	32	35	62	149	370	560	260	172	89
18	89	74	46	32	35	60	138	428	560	260	161	88
19	77	80	46	34	35	56	115	539	580	240	147	94
20	77	82	44	38	36	54	105	579	580	310	134	80
21	80	78	40	38	37	53	135	665	600	520	138	85
22	77	74	38	38	37	49	141	670	640	470	142	80
23	93	75	38	38	36	57	131	580	640	400	131	68
24	75	74	38	36	37	61	115	617	660	400	120	68
25	67	78	40	38	37	57	113	610	680	350	113	72
26	73	76	42	38	39	58	143	620	660	300	116	75
27	77	74	42	36	47	72	229	615	640	290	109	76
28	67	70	40	36	47	81	287	600	620	270	101	79
29	66	64	42	37	46	83	294	583	600	260	98	91
30	53	50	42	38	---	80	391	559	580	250	101	87
31	38	---	42	38	---	76	---	528	---	236	101	---
TOTAL	2402	1824	1440	1175	1093	1816	4083	15205	15978	10256	4960	2818
MEAN	77.5	60.8	46.5	37.9	37.7	58.6	136	490	533	331	160	93.9
MAX	93	83	54	42	47	83	391	670	700	520	229	136
MIN	38	32	38	30	35	46	64	292	352	236	98	68
AC-FT	4760	3620	2860	2330	2170	3600	8100	30160	31690	20340	9840	5590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

	MEAN	61.3	49.7	47.1	47.2	57.3	161	534	1044	553	191	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	510	114	51.2	34.0
(WY)	1989	1989	1989	1977	1985	1978	1984	1977	1985	1977	1988	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1950 - 1992
ANNUAL TOTAL	97972	63050	--
ANNUAL MEAN	268	172	245
HIGHEST ANNUAL MEAN	--	--	414
LOWEST ANNUAL MEAN	--	--	126
HIGHEST DAILY MEAN	2700	700	3740
LOWEST DAILY MEAN	32	30	18
ANNUAL SEVEN-DAY MINIMUM	37	33	21
INSTANTANEOUS PEAK FLOW	--	955	5980a
INSTANTANEOUS PEAK STAGE	--	4.55	9.27
ANNUAL RUNOFF (AC-FT)	194300	125100	177600
10 PERCENT EXCEEDS	700	511	699
50 PERCENT EXCEEDS	78	83	84
90 PERCENT EXCEEDS	46	38	40

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

YELLOWSTONE RIVER BASIN
06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY

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LOCATION.--Lat 43°26'30", long 109°27'29", in NW¼ SW¼ NW¼ sec.3, T.5 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, 400 ft downstream from East Fork Wind River and 12.1 mi southeast of Dubois.

DRAINAGE AREA.--1,073 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 6, Nov. 22-26, and Nov. 30 to Dec. 2. Records fair. Diversions for irrigation of about 1,800 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	374	210	160	208	166	193	168	758	1070	1380	627	280
2	362	190	200	184	170	201	190	575	1160	1420	586	268
3	357	170	253	186	169	195	235	571	1310	1190	558	264
4	345	190	266	185	163	209	281	685	1150	1070	521	275
5	330	220	267	184	161	198	248	867	1070	1040	484	304
6	341	260	268	188	157	196	191	1100	963	977	459	325
7	344	266	268	187	161	185	169	1280	871	901	443	337
8	315	257	250	189	165	189	188	1480	864	833	431	301
9	310	279	245	196	165	174	188	1380	897	774	436	296
10	307	275	232	188	164	170	198	920	1010	728	433	291
11	303	239	227	187	166	174	186	798	1040	709	415	284
12	297	262	207	194	164	187	201	723	1020	879	405	279
13	290	274	235	179	166	196	287	729	1000	901	384	290
14	288	268	224	186	167	210	255	739	916	786	370	279
15	285	249	225	184	158	211	257	915	1620	755	362	273
16	280	235	236	196	161	203	267	935	1790	701	465	269
17	286	220	222	178	166	199	315	909	1970	675	420	267
18	311	210	225	171	154	186	309	1060	1510	643	400	264
19	286	202	236	176	171	170	256	1320	1710	732	371	263
20	282	218	225	177	174	167	232	1430	1670	1200	362	262
21	277	224	218	172	171	176	255	1830	1660	1490	357	264
22	279	210	216	173	168	153	262	1840	1800	1220	349	263
23	301	200	216	181	163	162	238	1640	1850	1050	337	261
24	274	220	220	175	159	175	219	1750	1800	983	329	261
25	266	220	213	175	162	168	217	1740	1890	914	317	266
26	277	240	214	175	163	166	232	1770	1800	874	311	271
27	299	265	200	167	168	182	356	1890	1850	795	297	268
28	238	257	195	171	170	177	521	1630	1700	741	280	267
29	230	223	199	168	184	192	577	1420	1860	727	270	273
30	220	190	196	173	---	185	835	1330	1640	694	265	275
31	210	---	203	171	---	181	---	1220	---	667	261	---
TOTAL	9164	6943	6961	5624	4796	5730	8333	37234	42461	28449	12305	8340
MEAN	296	231	225	181	165	185	278	1201	1415	918	397	278
MAX	374	279	268	208	184	211	835	1890	1970	1490	627	337
MIN	210	170	160	167	154	153	168	571	864	643	261	261
AC-FT	18180	13770	13810	11160	9510	11370	16530	73850	84220	56430	24410	16540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
MEAN	324	263	202	185	176	183	273	1336	2283	1194	490	376
MAX	353	295	225	188	188	185	278	1471	3151	1470	584	474
(WY)	1991	1991	1992	1991	1991	1992	1992	1991	1991	1991	1991	1991
MIN	296	231	180	181	165	182	268	1201	1415	918	397	278
(WY)	1992	1992	1991	1992	1992	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1991 - 1992
ANNUAL TOTAL	265845	176340	--
ANNUAL MEAN	728	482	608
HIGHEST ANNUAL MEAN	--	--	735
LOWEST ANNUAL MEAN	--	--	482
HIGHEST DAILY MEAN	4700	1970	4700
LOWEST DAILY MEAN	141	153	100
ANNUAL SEVEN-DAY MINIMUM	147	162	123
INSTANTANEOUS PEAK FLOW	--	2350	4900
INSTANTANEOUS PEAK STAGE	--	5.30	6.60a
ANNUAL RUNOFF (AC-FT)	527300	349800	440500
10 PERCENT EXCEEDS	2100	1220	1660
50 PERCENT EXCEEDS	277	267	285
90 PERCENT EXCEEDS	183	170	170

a From floodmark.

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 07...	1145	262	330	3.0	160	44	12	10	0.3	2.6
JAN 27...	1130	171	380	0.0	190	51	14	14	0.4	2.9
MAR 25...	1250	176	450	7.0	210	56	16	14	0.4	3.3
MAY 27...	0945	2090	152	10.0	67	19	4.6	5.0	0.3	1.5
JUL 31...	1355	694	245	20.0	120	31	9.3	7.5	0.3	1.9
SEP 29...	1140	265	355	8.0	170	46	14	11	0.4	2.9

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS- SOLVED (MG/L AS CL)	FLUO-RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
NOV 07...	150	31	4.0	0.3	18	212	0.29	150	<0.1	0.07
JAN 27...	170	28	4.8	0.4	16	233	0.32	108	0.1	0.05
MAR 25...	190	44	6.5	0.4	19	274	0.37	130	<0.1	0.04
MAY 27...	73	7.0	1.7	0.2	15	102	0.14	576	0.9	<0.03
JUL 31...	110	22	2.7	0.3	15	156	0.21	292	<0.1	<0.03
SEP 29...	150	33	4.6	0.3	20	223	0.30	160	0.3	0.03

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
MAR 25...	1250	<10	2	68	<0.5	30	1.0	<1	<3	2
MAY 27...	0945	30	<1	31	0.5	10	<1.0	3	<3	3

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE-NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON-TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 25...	96	2	22	6	<0.1	<1	<1.0	260	19
MAY 27...	33	<1	4	5	<0.1	<1	<1.0	99	16

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible][illegible]

YELLOWSTONE RIVER BASIN
06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WY

LOCATION.--Lat 43°20'44", long 109°24'34", in SE¼ SE¼ 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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 4, Nov. 16, 17, 22-24, Nov. 30 to Dec. 5, Dec. 11-31, and Aug. 18-24. 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 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0815	ice jam	*4.03	No peak greater than base discharge.			
June 25	0230	*562	3.69				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	30	19	11	7.3	7.2	8.3	84	153	368	279	102
2	67	27	17	11	7.0	7.1	8.6	77	158	364	275	95
3	61	25	16	10	6.8	7.3	9.4	71	187	345	296	95
4	51	28	15	10	6.8	7.3	10	75	201	279	290	122
5	48	28	18	9.9	6.5	7.5	11	86	188	262	285	114
6	52	28	19	9.4	6.1	8.2	9.4	110	180	283	268	109
7	50	26	19	9.4	5.9	7.3	9.3	149	150	290	268	96
8	46	26	18	9.7	5.8	6.7	9.8	154	149	244	294	88
9	45	27	19	9.9	5.9	6.7	9.8	163	165	199	311	81
10	45	26	17	9.9	6.0	6.9	9.8	130	196	192	314	76
11	48	23	17	9.9	6.1	7.2	9.3	101	244	180	300	74
12	49	24	15	9.8	6.1	7.5	11	86	270	209	285	75
13	45	24	13	9.7	6.0	7.6	13	83	299	225	285	81
14	41	23	12	9.5	6.0	7.6	15	80	262	183	276	68
15	42	22	12	9.3	6.0	7.8	16	88	239	225	279	70
16	41	24	12	9.0	5.9	7.6	18	94	216	242	309	62
17	41	23	12	8.8	5.8	7.5	20	94	180	228	373	59
18	36	22	12	8.3	5.9	7.3	18	103	173	229	340	56
19	33	20	13	7.9	5.8	7.2	18	130	176	266	300	56
20	35	21	13	7.7	5.9	7.8	17	162	279	342	280	57
21	31	20	12	7.6	6.0	8.1	18	215	302	422	260	58
22	31	19	12	7.4	6.1	7.9	20	259	298	382	270	58
23	33	18	11	7.2	6.0	8.0	19	249	330	362	240	66
24	26	20	11	7.2	6.0	8.0	18	234	364	345	190	90
25	32	21	10	7.2	6.2	8.0	19	240	485	313	151	77
26	35	22	11	7.1	6.3	7.8	21	275	426	287	118	58
27	31	22	11	6.7	6.7	7.9	27	287	384	284	116	58
28	27	22	11	6.9	7.0	8.1	43	247	404	291	130	50
29	29	23	11	7.2	7.1	9.1	59	205	399	271	125	48
30	33	21	11	7.3	---	8.8	75	185	373	276	126	46
31	32	---	11	7.3	---	8.8	---	170	---	277	119	---
TOTAL	1284	705	430	269.2	181.0	237.8	569.7	4686	7830	8665	7752	2245
MEAN	41.4	23.5	13.9	8.68	6.24	7.67	19.0	151	261	280	250	74.8
MAX	68	30	19	11	7.3	9.1	75	287	485	422	373	122
MIN	26	18	10	6.7	5.8	6.7	8.3	71	149	180	116	46
AC-FT	2550	1400	853	534	359	472	1130	9290	15530	17190	15380	4450

YELLOWSTONE RIVER BASIN
06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WY--Continued

67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1992, BY WATER YEAR (WY)												
MEAN	42.9	20.7	12.3	8.40	7.46	8.37	18.6	154	450	485	319	134
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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1958 - 1992	
ANNUAL TOTAL	56216.0		34854.7		--	
ANNUAL MEAN	154		95.2		139	
HIGHEST ANNUAL MEAN	--		--		179	
LOWEST ANNUAL MEAN	--		--		95.2	
HIGHEST DAILY MEAN	782	Jun 13	485	Jun 25	1210	Jun 17 1971
LOWEST DAILY MEAN	6.4	Jan 29	5.8	Feb 8, 17, 19	1.0	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	6.5	Jan 28	5.9	Feb 14	1.3	Jan 4 1977
INSTANTANEOUS PEAK FLOW	--	--	562a	Jun 25	1450	Jul 25 1977
INSTANTANEOUS PEAK STAGE	--	--	4.03b	Dec 25	4.44	Jul 25 1977
ANNUAL RUNOFF (AC-FT)	111500	--	69130	--	100800	--
10 PERCENT EXCEEDS	492	--	285	--	441	--
50 PERCENT EXCEEDS	26	--	31	--	28	--
90 PERCENT EXCEEDS	7.4	--	7.2	--	7.0	--

a Gage height, 3.69 ft.

b Backwater from ice.

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1988 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 01...	1100	70	87	8.0	20	5.6	1.4	1.2	0.1	0.5
JAN 08...	1030	9.9	141	0.0	66	18	5.2	4.7	0.3	1.0
APR 28...	1150	46	58	7.0	24	6.3	2.1	1.7	0.1	0.8
JUL 07...	1335	297	30	13.0	--	2.3	<0.5	3.1	--	0.4

DATE	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 01...	18	6.1	2.2	0.1	2.6	31	0.04	5.95	0.2	<0.03
JAN 08...	54	11	8.9	<0.1	4.7	87	0.12	2.33	0.3	<0.03
APR 28...	21	4.8	1.7	0.1	3.8	34	0.05	4.21	<0.1	<0.03
JUL 07...	9.0	3.4	<1.0	0.1	2.4	E15	E0.02	E12.0	<0.1	<0.03

E-Estimate.

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 01...	1100	20	<1	8	<0.5	<10	<1.0	<1	<3	3

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 01...	21	1	<4	3	0.2	<1	<1.0	19	7

YELLOWSTONE RIVER BASIN
06222500 DRY CREEK NEAR BURRIS, WY

69

LOCATION.--Lat 43°20'11", long 109°17'55", in NW¼ NE¼ SW¼ 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, approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,430 ft (revised) above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 5, 1934, at site 50 ft downstream at datum 4.07 ft higher.

Nov. 5, 1934 to September 1940, at site 5 ft downstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 3, Nov. 16, 17, Nov. 29 to Dec. 3, Dec. 11-15, 17, 18, 21, 22, 30, Jan. 1, 10-16, 19, 20, and Feb. 4-7, 18, 19, 24-26. Records fair except those for estimated daily discharges, which are poor. Adjudicated diversion upstream for irrigation of 267 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	8.0	6.8	3.7	2.6	2.0	2.3	26	63	123	48	19
2	17	7.4	7.2	3.8	2.7	2.0	2.3	24	60	124	44	19
3	16	8.0	7.4	3.7	2.6	2.0	2.4	23	61	137	43	18
4	15	11	7.7	3.6	2.5	2.0	2.7	24	63	106	42	17
5	15	12	7.0	3.6	2.5	2.1	2.9	27	61	91	40	17
6	14	12	6.9	3.4	2.4	2.2	2.9	33	61	88	37	18
7	14	11	6.6	3.5	2.4	2.1	2.9	38	56	86	37	19
8	13	11	6.1	3.6	2.4	2.1	2.8	41	52	81	35	19
9	13	10	5.8	3.4	2.2	2.1	2.9	49	55	69	35	18
10	12	10	5.7	3.5	2.2	2.0	3.2	48	60	65	33	16
11	11	9.0	5.2	3.5	2.3	2.1	3.4	42	63	62	32	17
12	11	9.2	4.8	3.5	2.2	2.0	3.5	38	71	64	31	17
13	11	9.0	4.9	3.2	2.2	2.0	3.7	36	77	73	32	18
14	9.9	8.9	5.2	3.2	2.2	2.0	4.3	36	78	66	32	18
15	9.7	8.2	5.4	3.1	2.1	2.0	5.2	37	91	63	33	18
16	9.6	8.0	5.3	3.2	2.2	2.0	6.9	40	75	65	34	17
17	9.4	8.4	5.2	3.3	2.1	2.0	7.1	40	63	61	34	16
18	9.5	8.9	5.0	3.0	2.0	2.2	7.0	40	59	60	32	15
19	8.9	7.4	4.7	2.9	2.1	2.1	6.9	45	59	58	29	14
20	8.8	8.2	4.7	2.9	2.2	2.1	6.5	49	87	79	28	14
21	8.5	7.6	4.5	2.9	2.1	2.1	6.2	69	97	118	27	14
22	8.0	5.9	4.6	2.9	1.9	2.0	7.0	87	95	143	27	14
23	10	5.9	4.5	2.8	1.8	2.1	7.1	85	99	118	27	14
24	9.3	7.9	4.3	2.9	1.8	2.2	6.8	86	98	106	26	14
25	9.2	9.5	4.3	2.9	1.8	2.2	6.6	83	197	97	24	15
26	9.4	7.9	4.2	2.8	2.0	2.1	6.9	88	201	88	23	16
27	10	7.7	4.0	2.7	2.0	2.1	8.3	107	193	70	22	15
28	8.9	7.8	3.9	2.8	2.0	2.1	12	93	142	60	20	15
29	8.6	7.6	3.9	2.8	1.9	2.2	16	83	128	55	19	14
30	7.6	7.2	3.8	2.7	---	2.3	20	77	122	52	19	14
31	8.4	---	3.8	2.7	---	2.4	---	66	---	50	18	---
TOTAL	342.7	260.6	163.4	98.5	63.4	64.9	178.7	1660	2687	2578	963	489
MEAN	11.1	8.69	5.27	3.18	2.19	2.09	5.96	53.5	89.6	83.2	31.1	16.3
MAX	17	12	7.7	3.8	2.7	2.4	20	107	201	143	48	19
MIN	7.6	5.9	3.8	2.7	1.8	2.0	2.3	23	52	50	18	14
AC-FT	680	517	324	195	126	129	354	3290	5330	5110	1910	970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	MEAN	17.9	10.9	6.29	4.33	2.80	3.02	9.05	83.5	201	117	57.9	31.3
MAX	50.0	25.4	15.0	10.0	7.00	10.0	25.7	162	525	212	164	64.6	
(WY)	1924	1928	1926	1926	1923	1923	1926	1924	1921	1923	1930	1927	
MIN	5.16	1.76	.55	.30	.20	.000	.88	29.5	51.4	33.8	18.8	12.2	
(WY)	1934	1934	1934	1934	1934	1934	1940	1935	1934	1940	1940	1934	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1921 - 1992
ANNUAL TOTAL	21863.8	9549.2	--
ANNUAL MEAN	59.9	26.1	44.3
HIGHEST ANNUAL MEAN	--	--	68.0
LOWEST ANNUAL MEAN	--	--	20.1
HIGHEST DAILY MEAN	674	201	1240
LOWEST DAILY MEAN	1.2	1.8	.00
ANNUAL SEVEN-DAY MINIMUM	1.3	1.9	.00
INSTANTANEOUS PEAK FLOW	--	241	1400a
INSTANTANEOUS PEAK STAGE	--	3.95	--
ANNUAL RUNOFF (AC-FT)	43370	18940	32090
10 PERCENT EXCEEDS	200	77	137
50 PERCENT EXCEEDS	8.9	9.4	15
90 PERCENT EXCEEDS	1.7	2.1	2.0

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

YELLOWSTONE RIVER BASIN
06222510 DRY CREEK CANAL AT HEADGATE, NEAR BURRIS, WY

LOCATION.--Lat 43°20'38", long 109°17'25", in NW¼ NE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. Prior to April 1, 1990, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Apr. 1 to May 4. Records good above 50 cfs, fair below, except those for estimated daily discharges, which are poor. Flow is diverted from Dry Creek for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.25	220	240	196	141
2	---	---	---	---	---	---	.10	.25	218	223	194	134
3	---	---	---	---	---	---	.10	.25	232	209	193	126
4	---	---	---	---	---	---	.11	.67	234	205	195	120
5	---	---	---	---	---	---	.11	94	233	200	193	118
6	---	---	---	---	---	---	.12	133	231	196	191	122
7	---	---	---	---	---	---	.12	135	218	196	197	123
8	---	---	---	---	---	---	.12	142	211	195	198	119
9	---	---	---	---	---	---	.13	141	209	186	198	113
10	---	---	---	---	---	---	.13	125	213	179	199	106
11	---	---	---	---	---	---	.13	139	220	173	204	100
12	---	---	---	---	---	---	.14	158	237	174	204	94
13	---	---	---	---	---	---	.14	156	239	186	202	92
14	---	---	---	---	---	---	.15	147	241	181	199	91
15	---	---	---	---	---	---	.15	142	240	173	199	86
16	---	---	---	---	---	---	.16	140	234	173	205	81
17	---	---	---	---	---	---	.16	134	217	178	216	76
18	---	---	---	---	---	---	.17	132	207	187	215	72
19	---	---	---	---	---	---	.18	138	213	188	209	68
20	---	---	---	---	---	---	.18	150	238	211	205	65
21	---	---	---	---	---	---	.19	164	244	231	203	63
22	---	---	---	---	---	---	.19	180	245	234	203	62
23	---	---	---	---	---	---	.20	213	246	232	203	61
24	---	---	---	---	---	---	.20	221	247	216	199	62
25	---	---	---	---	---	---	.21	230	208	202	192	67
26	---	---	---	---	---	---	.22	248	220	194	184	73
27	---	---	---	---	---	---	.22	233	236	182	173	72
28	---	---	---	---	---	---	.23	236	242	174	162	70
29	---	---	---	---	---	---	.24	249	241	170	155	67
30	---	---	---	---	---	---	.25	242	244	168	148	63
31	---	---	---	---	---	---	---	236	---	182	144	---
TOTAL	---	---	---	---	---	---	4.75	4659.42	6878	6038	5978	2707
MEAN	---	---	---	---	---	---	.16	150	229	195	193	90.2
MAX	---	---	---	---	---	---	.25	249	247	240	216	141
MIN	---	---	---	---	---	---	.00	.25	207	168	144	61
AC-FT	---	---	---	---	---	---	9.4	9240	13640	11980	11860	5370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	---	---	---	---	---
MAX	---	---	---	---	---
(WY)	---	---	---	---	---
MIN	---	---	---	---	---
(WY)	---	---	---	---	---

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

FOR 1992 WATER YEAR*

249 May 29

.00 Apr 1

.00 Apr 1

259 May 28

3.68 May 28

WATER YEARS 1988 - 1992*

264 Jul 19 1991

.00 Many days,

most years

.00 Many days,

most years

278 Jul 18 1991

3.71 Jul 18 1991

* During period of operation.

YELLOWSTONE RIVER BASIN
06222700 CROW CREEK NEAR TIPPERARY, WY

71

LOCATION.--Lat 43°34'37", long 109°15'42", in sec.20, T.7 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank just above Crow Creek Canyon, 2.0 mi downstream from Trail Creek, 5.0 mi north of Tipperary, and 19 mi north of Crowheart.
DRAINAGE AREA.--30.2 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR-76-1: Drainage area. WDR WY-86: 1985(M).

GAGE.--Water-stage recorder. Elevation of gage is 8,600 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 27, 1983, at site 50 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Oct. 23, Oct. 25 to Nov. 12, and Nov. 15 to Apr. 9. 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 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 25	2400	*227	*5.16	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	5.6	5.0	5.0	4.0	3.4	4.0	36	67	73	23	10
2	9.5	5.4	5.2	4.8	3.8	3.2	4.6	27	72	75	21	9.6
3	9.1	5.4	5.6	4.6	3.6	3.2	4.6	29	75	68	21	9.5
4	8.6	5.6	6.0	4.4	3.4	3.2	4.6	35	63	66	20	10
5	8.0	5.6	6.0	4.4	2.8	3.2	4.6	46	59	63	19	9.9
6	8.2	5.6	5.8	4.2	2.8	3.2	4.6	54	48	56	17	12
7	8.2	5.8	5.6	4.4	2.6	3.0	4.8	54	48	49	17	9.9
8	8.3	6.0	5.6	4.6	2.8	3.0	5.0	57	52	44	16	9.6
9	8.1	6.2	5.6	4.4	2.8	3.2	5.4	54	51	41	15	9.2
10	8.0	6.2	5.6	4.6	2.8	3.0	6.2	39	50	38	15	9.0
11	8.0	6.4	5.4	4.6	2.8	3.0	6.3	34	49	37	15	9.0
12	8.0	6.4	5.4	4.4	2.8	3.0	8.4	30	49	43	14	9.0
13	7.8	6.4	5.4	4.2	2.8	3.0	11	30	46	37	14	8.9
14	7.7	6.4	5.2	4.4	3.0	3.0	13	30	40	35	14	8.5
15	7.6	6.4	5.0	4.2	3.0	3.2	13	34	50	33	14	8.6
16	7.8	6.8	4.4	4.2	3.2	3.2	13	33	41	31	17	8.4
17	8.9	7.6	4.4	4.2	3.2	3.2	14	32	49	30	15	8.0
18	7.8	8.2	4.4	4.0	3.2	3.2	12	41	70	29	13	7.9
19	7.4	7.8	4.4	4.0	3.2	3.2	12	48	88	34	13	7.9
20	7.4	7.4	4.4	4.0	3.0	3.0	11	55	109	47	12	7.9
21	7.2	7.4	4.6	4.0	3.4	3.2	10	61	124	65	13	7.9
22	7.1	7.0	4.6	4.2	3.6	3.4	10	51	142	45	13	7.8
23	6.8	7.0	4.8	4.2	3.6	3.2	9.5	51	141	41	12	7.7
24	6.3	7.0	5.0	4.2	3.4	3.6	9.3	56	130	36	12	7.8
25	6.2	7.0	5.0	4.0	3.4	3.6	11	66	142	34	11	7.7
26	6.0	6.0	5.2	4.2	3.4	3.6	14	60	152	31	12	7.6
27	5.8	6.0	5.0	4.2	3.4	3.6	21	83	121	29	11	7.5
28	5.4	5.8	5.0	4.0	3.4	3.6	29	66	115	27	11	7.3
29	5.4	5.4	5.0	3.8	3.4	3.6	36	68	104	27	10	7.3
30	5.8	5.0	5.0	4.0	---	3.6	46	71	89	26	10	7.2
31	5.8	---	5.2	4.0	---	3.8	---	68	---	24	10	---
TOTAL	232.1	190.8	158.8	132.4	92.6	101.4	357.9	1499	2436	1314	450	258.6
MEAN	7.49	6.36	5.12	4.27	3.19	3.27	11.9	48.4	81.2	42.4	14.5	8.62
MAX	9.9	8.2	6.0	5.0	4.0	3.8	46	83	152	75	23	12
MIN	5.4	5.0	4.4	3.8	2.6	3.0	4.0	27	40	24	10	7.2
AC-FT	460	378	315	263	184	201	710	2970	4830	2610	893	513

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	6.03	4.68	3.65	2.96	2.73	3.46	10.0	52.7	105	40.9	11.8	7.36																		
MAX	19.2	10.3	6.35	4.79	3.92	6.62	24.0	88.6	246	119	22.5	14.2																		
(WY)	1983	1983	1983	1968	1965	1964	1987	1991	1965	1965	1965	1982																		
MIN	2.47	2.67	1.57	.62	.74	1.16	2.84	13.0	23.0	4.37	2.83	2.99																		
(WY)	1978	1989	1970	1977	1977	1977	1975	1977	1977	1977	1988	1969																		

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1963 - 1992
ANNUAL TOTAL	10187.1	7223.6	--
ANNUAL MEAN	27.9	19.7	20.9
HIGHEST ANNUAL MEAN	--	--	40.9
LOWEST ANNUAL MEAN	--	--	5.61
HIGHEST DAILY MEAN	323 Jun 7	152 Jun 26	435 Jun 17 1965
LOWEST DAILY MEAN	2.6 Feb 26	2.6 Feb 7	.48 Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	2.8 Feb 25	2.8 Feb 5	.53 Jan 7 1977
INSTANTANEOUS PEAK FLOW	--	227 Jun 25	855a Jul 27 1987
INSTANTANEOUS PEAK STAGE	--	5.16 Jun 25	6.89 Jul 27 1987
ANNUAL RUNOFF (AC-FT)	20210	14330	15170
10 PERCENT EXCEEDS	81	54	59
50 PERCENT EXCEEDS	8.0	7.7	5.5
90 PERCENT EXCEEDS	3.1	3.2	2.5

a From rating curve extended above 260 ft³/s.

YELLOWSTONE RIVER BASIN

06222700 CROW CREEK NEAR TIPPERARY, WY--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
OCT				
22...	1225	7.1	3.5	100
NOV				
18...	1210	8.2	0.0	99
DEC				
11...	1155	5.5	0.0	104
JAN				
21...	0850	4.2	0.0	86
MAR				
24...	0850	3.6	0.0	88
MAY				
04...	1310	31	11.0	65
20...	1245	43	10.0	57
JUN				
12...	1255	44	14.0	67
JUL				
08...	1300	43	11.0	80
AUG				
20...	1445	13	17.0	98

YELLOWSTONE RIVER BASIN
06223500 WILLOW CREEK NEAR CROWHEART, WY

73

LOCATION.--Lat 43°17'00", long 109°11'08", in SE¼ NW¼ NW¼ sec.36, T.4 N., R.4 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 1000 ft upstream from Willow Creek Canal diversion and 2.0 mi south of Crowheart.

DRAINAGE AREA.--55.4 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 6,080 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 17 to October 31, 1909, nonrecording gage 1.9 mi downstream at different datum, May 16, 1921 to Aug. 24, 1923, nonrecording gage 200 ft upstream at different datum, and May 1925 to September 1940, water-stage recorder 600 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 6, Nov. 15-20, 22-25, Nov. 29 to Dec. 16, Dec. 19, 20, Dec. 22 to Feb. 11, and Feb. 15, 16, 18, 19. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of 60.1 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.5	8.0	7.0	6.6	5.9	5.9	7.1	22	29	14	8.9
2	8.0	8.2	8.2	7.0	6.8	6.0	5.9	7.4	22	37	14	8.4
3	8.0	8.0	8.3	7.2	6.6	6.0	5.9	7.3	24	37	14	8.2
4	8.1	8.0	8.4	7.2	6.8	6.0	5.7	7.2	23	31	14	8.4
5	8.1	8.2	8.8	7.3	6.6	6.3	5.8	7.4	22	28	13	8.5
6	8.4	8.4	9.0	7.4	6.2	6.7	5.7	7.7	22	26	13	8.8
7	8.2	8.2	9.3	7.6	5.9	6.2	5.6	8.3	20	25	12	8.9
8	8.2	8.1	9.3	7.7	5.7	6.2	5.7	9.0	19	24	12	9.0
9	8.0	8.3	9.2	7.6	5.8	6.3	5.6	13	19	23	11	9.0
10	8.1	8.3	9.0	7.6	5.9	6.1	5.6	12	19	22	10	9.0
11	8.0	8.1	8.8	7.5	6.0	6.0	5.8	10	23	21	10	8.9
12	7.9	8.0	8.6	7.4	6.2	5.9	5.9	9.8	22	27	10	9.1
13	7.9	7.8	8.4	7.4	6.0	5.9	5.9	9.7	20	30	9.8	9.0
14	7.9	8.1	8.2	7.2	6.0	6.1	5.9	9.5	19	22	9.1	8.5
15	7.9	8.3	8.0	7.0	6.0	6.0	6.5	9.7	28	20	9.1	8.6
16	7.7	8.4	7.6	6.8	5.9	6.2	6.9	10	24	19	10	8.3
17	7.6	8.2	7.3	7.0	5.8	5.9	6.5	10	19	19	11	8.4
18	7.7	7.6	7.3	7.0	5.8	6.3	6.5	10	18	18	10	8.5
19	7.6	7.2	7.0	7.0	6.0	6.3	6.4	13	20	19	9.8	8.6
20	7.9	7.4	6.4	7.2	6.2	6.2	6.2	16	31	28	9.0	8.4
21	7.7	7.5	5.9	7.2	6.1	6.3	6.3	21	29	40	9.3	8.5
22	7.9	7.2	6.0	7.4	6.1	6.2	6.7	23	24	31	9.6	8.4
23	9.3	7.0	6.0	7.4	6.3	6.3	6.2	22	23	24	9.3	8.4
24	7.9	7.4	6.2	7.6	6.1	6.2	6.3	20	25	21	9.4	8.7
25	7.8	7.8	6.2	7.6	6.0	6.1	6.2	21	57	20	9.4	9.0
26	7.9	7.9	6.4	7.6	6.1	6.0	6.3	21	44	19	9.6	8.9
27	8.1	7.2	6.4	7.6	6.1	5.9	6.3	38	42	17	9.1	8.7
28	8.6	7.5	6.6	7.4	6.2	5.9	6.5	35	32	16	8.9	8.7
29	8.4	7.6	6.6	7.6	6.0	6.4	6.8	28	32	16	8.9	8.7
30	8.2	7.8	6.8	7.8	---	6.0	6.9	29	31	16	9.0	8.8
31	8.2	---	6.8	7.2	---	5.9	---	25	---	15	8.9	---
TOTAL	248.9	236.2	235.0	227.5	177.8	189.7	184.4	477.1	775	740	326.2	260.2
MEAN	8.03	7.87	7.58	7.34	6.13	6.12	6.15	15.4	25.8	23.9	10.5	8.67
MAX	9.3	8.5	9.3	7.8	6.8	6.7	6.9	38	57	40	14	9.1
MIN	7.6	7.0	5.9	6.8	5.7	5.9	5.6	7.1	18	15	8.9	8.2
AC-FT	494	469	466	451	353	376	366	946	1540	1470	647	516

YELLOWSTONE RIVER BASIN
06223500 WILLOW CREEK NEAR CROWHEART, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1992, BY WATER YEAR (WY)

MEAN	9.26	7.54	6.03	5.17	4.68	4.91	6.41	28.0	72.9	25.5	12.3	9.34
MAX	17.6	13.3	10.0	8.00	7.00	8.00	9.15	63.8	190	55.3	45.4	21.9
(WY)	1931	1927	1927	1927	1922	1922	1922	1931	1991	1928	1930	1930
MIN	5.15	2.50	2.00	2.00	2.00	2.50	3.97	6.85	9.71	5.68	3.50	4.67
(WY)	1989	1940	1940	1940	1940	1940	1940	1935	1934	1940	1940	1935

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1922 - 1992
ANNUAL TOTAL	10609.3	4078.0	--
ANNUAL MEAN	29.1	11.1	16.0
HIGHEST ANNUAL MEAN	--	--	28.9
LOWEST ANNUAL MEAN	--	--	4.60
HIGHEST DAILY MEAN	468 Jun 12	57 Jun 25	468 Jun 12 1991
LOWEST DAILY MEAN	4.6 Jan 29	5.6 Apr 7,9,10	2.0 Dec 1 1939
ANNUAL SEVEN-DAY MINIMUM	4.8 Jan 26	5.7 Apr 4	2.0 Dec 1 1939
INSTANTANEOUS PEAK FLOW	--	78 Jun 25a	1100b May 31 1939
INSTANTANEOUS PEAK STAGE	--	3.38 Jan 14c	5.40d May 31 1939
ANNUAL RUNOFF (AC-FT)	21040	8090	11570
10 PERCENT EXCEEDS	83	23	37
50 PERCENT EXCEEDS	7.9	8.1	7.5
90 PERCENT EXCEEDS	5.0	6.0	4.0

a Gage height, 2.94 ft.

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

c Backwater from ice.

d Site and datum then in use.

YELLOWSTONE RIVER BASIN
06224000 BULL LAKE CREEK ABOVE BULL LAKE, WY

75

LOCATION.--Lat 43°10'37", long 109°12'08", in NE¼ SW¼ sec.2, T.2 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 1.2 mi upstream from high-water line of Bull Lake and 9.0 mi south of Crowheart.
DRAINAGE AREA.--187 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1941 to December 1953, October 1966 to current year. Monthly discharge only for some periods, published in WSP 1309. Prior to October 1950, published as "above Bull Lake Reservoir."
GAGE.--Water-stage recorder. Elevation of gage is 5,874 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 5, Nov. 20-25, Nov. 28 to Dec. 2, Dec. 10-12, Dec. 22 to Jan. 5, and Jan. 10-16, 18-19. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 26	0145	*983	*4.41	No peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	64	38	24	17	16	22	239	506	650	309	146
2	126	50	50	25	17	16	23	231	472	639	306	141
3	119	56	54	25	17	16	24	231	507	596	306	125
4	112	68	57	24	16	16	26	248	542	500	311	122
5	105	72	53	23	16	17	28	284	523	434	303	147
6	100	71	53	23	16	20	27	341	474	404	294	159
7	95	68	51	26	16	18	26	417	424	421	289	161
8	90	66	49	25	16	18	27	471	394	426	291	159
9	86	65	49	23	16	18	27	552	396	387	303	142
10	84	66	43	24	16	18	29	511	422	354	312	129
11	82	63	34	24	16	18	31	433	484	332	310	122
12	80	62	41	24	16	18	32	371	583	328	309	118
13	79	60	42	22	15	18	40	343	622	379	295	126
14	76	60	40	23	16	18	48	337	581	366	298	132
15	74	60	43	19	15	18	51	352	547	332	299	131
16	71	59	41	21	15	18	60	368	475	319	309	125
17	68	63	39	22	15	18	71	376	407	319	342	115
18	67	62	39	17	15	19	79	397	362	317	338	108
19	64	60	40	19	17	19	68	477	361	317	316	103
20	62	58	38	21	16	19	64	590	476	357	304	100
21	59	54	30	21	16	20	64	734	556	473	302	95
22	60	49	28	19	15	17	68	835	564	594	303	90
23	80	37	30	21	15	20	70	799	598	527	294	91
24	72	52	30	21	15	19	69	750	675	460	254	99
25	69	56	29	20	14	18	69	748	861	422	219	114
26	71	56	28	19	15	19	72	841	961	385	195	119
27	75	55	28	19	15	19	89	897	871	352	173	119
28	78	54	27	18	15	19	133	852	766	339	156	118
29	74	50	26	19	16	20	158	711	701	328	151	112
30	67	43	26	18	---	21	216	618	685	319	151	102
31	66	---	25	18	---	21	---	563	---	314	147	---
TOTAL	2541	1759	1201	667	455	569	1811	15917	16796	12690	8489	3670
MEAN	82.0	58.6	38.7	21.5	15.7	18.4	60.4	513	560	409	274	122
MAX	130	72	57	26	17	21	216	897	961	650	342	161
MIN	59	37	25	17	14	16	22	231	361	314	147	90
AC-FT	5040	3490	2380	1320	902	1130	3590	31570	33310	25170	16840	7280

YELLOWSTONE RIVER BASIN
06224000 BULL LAKE CREEK ABOVE BULL LAKE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1992, BY WATER YEAR (WY)

MEAN	101	56.9	37.9	28.5	25.2	26.7	67.5	461	1155	918	426	206
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	385	145	109
(WY)	1989	1977	1977	1977	1977	1977	1970	1975	1992	1985	1985	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1942 - 1992	
ANNUAL TOTAL	122574		66565			
ANNUAL MEAN	336		182		294	
HIGHEST ANNUAL MEAN					415	
LOWEST ANNUAL MEAN					174	
HIGHEST DAILY MEAN	3250	Jun 13	961	Jun 26	3560	Jun 9 1981
LOWEST DAILY MEAN	17	Feb 26	14	Feb 25	6.2	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	18	Feb 23	15	Feb 22	6.5	Mar 10 1977
INSTANTANEOUS PEAK FLOW			983	Jun 26	4470	Jun 9 1981
INSTANTANEOUS PEAK STAGE			4.41	Jun 26	7.98	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	243100		132000		212700	
10 PERCENT EXCEEDS	1060		506		910	
50 PERCENT EXCEEDS	67		71		76	
90 PERCENT EXCEEDS	21		18		22	

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 07...	1230	70	58	4.0	25	6.6	2.0	1.6	0.1	0.6
APR 17...	1000	71	98	10.0	44	11	3.9	2.2	0.1	0.8
JUN 10...	1210	421	36	8.0	--	3.8	<0.50	1.6	--	0.5
SEP 08...	1120	160	50	12.0	28	7.7	2.1	1.9	0.2	0.8

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
NOV 07...	23	4.9	1.6	0.1	3.4	38	0.05	7.13	0.7	0.03
APR 17...	39	10	2.0	0.1	6.0	59	0.08	11.4	<0.1	<0.03
JUN 10...	13	<1.0	<1.0	0.1	2.4	--	--	--	<0.1	<0.03
SEP 08...	24	8.3	1.4	0.1	2.4	39	0.05	16.9	<0.1	<0.03

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 07...	1230	<10	<1	7	<0.5	<10	<1.0	<1	<3	1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 07...	10	<1	4	3	<0.1	<1	<1.0	27	4

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
NOV				
07...	1230	70	58	4.0
JAN				
21...	0930	20	135	1.0
MAR				
24...	0945	19	110	7.5
APR				
01...	1000	19	95	7.0
17...	1000	71	98	10.0
MAY				
14...	1020	344	32	10.0
JUN				
10...	1210	421	36	8.0
JUL				
27...	1145	353	44	17.0
AUG				
03...	1100	302	35	20.0
SEP				
08...	1120	160	50	12.0

YELLOWSTONE RIVER BASIN
06225000 BULL LAKE CREEK NEAR LENORE, WY

79

LOCATION.--Lat 43°14'33", long 109°01'20", in NE¼ NW¼ sec.17, T.3 N., R.2 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 700 ft upstream from mouth, 2.8 mi downstream from Bull Lake, and 8.5 mi southeast of Lenore.

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

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

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

GAGE.--Water-stage recorder. Elevation of gage is 5,654 ft above National Geodetic Vertical Datum of 1929, 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: Nov. 2, 3. Records good except those for estimated daily discharges, which are poor. Flow completely regulated by Bull Lake 2.8 mi upstream since April 1938. (See station 06224500.) Diversions upstream from station for irrigation of about 730 acres downstream. U.S. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	26	31	31	28	26	23	186	35	30	280	764
2	391	25	31	31	28	26	23	119	34	31	406	758
3	393	25	31	31	29	26	23	190	33	29	439	760
4	392	25	31	31	29	26	23	245	31	29	460	750
5	384	27	31	31	29	25	23	350	32	30	461	748
6	386	28	31	31	29	25	23	404	31	30	457	742
7	368	29	31	31	28	25	23	402	31	32	491	737
8	311	30	31	30	28	25	24	403	30	42	564	695
9	234	30	31	30	28	25	24	403	28	42	568	653
10	146	30	31	30	28	25	24	440	26	83	625	675
11	37	30	31	30	28	25	23	576	25	238	683	735
12	23	30	31	30	28	25	24	734	25	269	756	795
13	23	30	31	30	28	21	24	980	25	271	913	853
14	20	30	31	30	28	21	24	1320	27	271	1100	874
15	18	30	31	30	28	21	25	1140	33	269	1200	867
16	18	30	31	30	28	21	25	1110	27	269	1200	845
17	16	31	31	30	28	21	24	1210	26	272	1100	829
18	16	31	31	29	27	21	24	1130	27	303	1020	819
19	17	31	31	29	27	21	25	998	27	370	942	818
20	17	31	31	29	27	21	25	901	29	231	919	817
21	18	31	31	29	27	21	56	755	29	65	877	809
22	18	31	31	29	27	21	164	446	29	42	877	796
23	19	31	31	29	27	21	165	135	29	41	874	788
24	18	31	31	29	27	22	167	321	30	42	824	777
25	17	31	31	29	27	22	167	404	31	43	790	741
26	17	31	31	29	27	22	167	374	30	44	784	737
27	17	31	31	29	27	22	168	178	29	44	782	727
28	18	31	31	28	26	22	182	65	30	74	781	655
29	19	31	31	28	26	23	225	39	30	109	776	387
30	25	31	31	28	---	23	223	38	29	124	771	146
31	25	---	31	28	---	23	---	35	---	203	767	---
TOTAL	3814	889	961	919	802	714	2160	16031	878	3972	23487	22097
MEAN	123	29.6	31.0	29.6	27.7	23.0	72.0	517	29.3	128	758	737
MAX	393	31	31	31	29	26	225	1320	35	370	1200	874
MIN	16	25	31	28	26	21	23	35	25	29	280	146
AC-FT	7570	1760	1910	1820	1590	1420	4280	31800	1740	7880	46590	43830

YELLOWSTONE RIVER BASIN
06225000 BULL LAKE CREEK NEAR LENORE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1992, BY WATER YEAR (WY)

MEAN	135	71.0	74.8	93.6	78.7	63.9	99.3	233	568	808	654	416
MAX	782	467	241	267	219	197	601	831	2265	1645	1027	982
(WY)	1952	1969	1972	1954	1951	1951	1965	1928	1918	1923	1969	1976
MIN	4.16	8.34	13.8	11.0	12.0	.000	3.59	6.01	10.6	85.6	193	113
(WY)	1941	1965	1978	1931	1931	1937	1941	1940	1941	1941	1977	1961

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1918 - 1992	
ANNUAL TOTAL	116044		76724		--	
ANNUAL MEAN	318		210		275	
HIGHEST ANNUAL MEAN	--		--		427	
LOWEST ANNUAL MEAN	--		--		100	
HIGHEST DAILY MEAN	2410	Jun 15	1320	May 14	3900	Jun 16 1918
LOWEST DAILY MEAN	13	Jan 6	16	Oct 17, 18	.00a	Feb 28 to
						Apr 7 1937
ANNUAL SEVEN-DAY MINIMUM	14	Jan 4	17	Oct 15	.00	Feb 28 1937
INSTANTANEOUS PEAK FLOW	--		1330	May 13	6200b	Aug 8 1951
INSTANTANEOUS PEAK STAGE	--		3.84	May 13	7.09	Aug 8 1951
ANNUAL RUNOFF (AC-FT)	230200		152200		198900	
10 PERCENT EXCEEDS	925		778		800	
50 PERCENT EXCEEDS	31		31		112	
90 PERCENT EXCEEDS	16		23		19	

a Result of regulation.

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

YELLOWSTONE RIVER BASIN
06225500 WIND RIVER NEAR CROWHEART, WY

81

LOCATION.--Lat 43°14'33", Long 109°00'35", in NW¼ NW¼ 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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 27 to Feb. 12 and Mar. 9-10. Records fair except those for estimated daily discharges, which are poor. Some regulation by Bull Lake on Bull Lake Creek. (See station 06224500.) Diversions for irrigation of about 25,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	869	440	220	260	290	296	254	1030	1050	1850	1110	1250
2	858	420	280	260	300	302	249	784	1050	1860	1220	1250
3	837	430	350	280	300	313	259	810	1140	1610	1240	1230
4	821	460	380	310	290	316	270	973	1130	1560	1270	1210
5	810	480	390	290	280	319	275	1230	1040	1550	1220	1240
6	803	500	390	290	280	318	299	1420	1000	1410	1190	1250
7	775	520	380	300	290	301	296	1600	880	1300	1190	1280
8	730	420	370	320	300	297	282	1670	855	1210	1230	1220
9	668	390	350	290	310	290	305	1550	865	1110	1230	1120
10	597	390	340	260	320	300	297	1310	963	1070	1300	1130
11	569	390	330	260	330	304	299	1260	1010	1150	1390	1190
12	555	400	320	270	330	295	293	1330	1000	1260	1430	1230
13	506	400	310	260	342	297	322	1630	1000	1450	1550	1300
14	474	410	310	250	332	303	356	2050	1000	1270	1740	1320
15	449	400	320	270	328	299	351	1890	1710	1190	1850	1320
16	442	360	330	280	315	296	374	1880	1530	1130	1870	1300
17	441	370	320	270	310	290	383	1960	1280	1100	2010	1270
18	501	380	310	260	305	290	420	1920	1560	1100	1820	1250
19	486	380	290	260	318	284	378	1980	1870	1150	1660	1220
20	471	370	280	260	304	274	344	1930	2000	1670	1580	1190
21	450	370	250	250	294	271	367	2050	1870	1960	1530	1170
22	450	360	230	270	290	263	518	2190	2000	1910	1530	1160
23	560	360	240	290	284	250	514	1450	2150	1670	1530	1140
24	526	360	250	310	283	256	493	1680	2150	1510	1460	1120
25	443	370	250	300	285	258	474	1820	2590	1370	1370	1090
26	442	380	250	290	285	257	481	1900	3010	1320	1340	1090
27	450	380	250	280	289	261	554	1870	2710	1160	1300	1090
28	480	350	250	300	292	266	739	1860	2680	1100	1270	1010
29	470	320	250	320	292	269	874	1360	2170	1090	1240	752
30	460	260	250	310	---	267	1070	1260	2100	1050	1240	560
31	450	---	260	300	---	260	---	1170	---	1090	1240	---
TOTAL	17843	11820	9300	8720	8768	8862	12390	48817	47363	42230	44150	34952
MEAN	576	394	300	281	302	286	413	1575	1579	1362	1424	1165
MAX	869	520	390	320	342	319	1070	2190	3010	1960	2010	1320
MIN	441	260	220	250	280	250	249	784	855	1050	1110	560
AC-FT	35390	23440	18450	17300	17390	17580	24580	96830	93940	83760	87570	69330

YELLOWSTONE RIVER BASIN
06225500 WIND RIVER NEAR CROWHEART, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1992, BY WATER YEAR (WY)

MEAN	688	487	396	380	366	372	574	1768	3744	2901	1660	1143
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	311	729	1579	1362	853	736
(WY)	1989	1978	1982	1982	1989	1977	1970	1977	1992	1992	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1946 - 1992		
ANNUAL TOTAL	478555			295215			--		
ANNUAL MEAN	1311			807			1210		
HIGHEST ANNUAL MEAN	--			--			1651		
LOWEST ANNUAL MEAN	--			--			670		
HIGHEST DAILY MEAN	9920	Jun 13		3010	Jun 26		11300	Jun 23	1971
LOWEST DAILY MEAN	220	Dec 1		220	Dec 1		130	Feb 5	1982
ANNUAL SEVEN-DAY MINIMUM	246	Dec 21		246	Dec 21		143	Dec 30	1981
INSTANTANEOUS PEAK FLOW	--			4520	Jun 28		14300	Jun 13	1991
INSTANTANEOUS PEAK STAGE	--			9.03	Jun 28		11.04a	Jun 13	1991
ANNUAL RUNOFF (AC-FT)	949200			585600			876400		
10 PERCENT EXCEEDS	3350			1670			2800		
50 PERCENT EXCEEDS	501			474			590		
90 PERCENT EXCEEDS	270			270			302		

a From floodmark.

YELLOWSTONE RIVER BASIN

83

06225500 WIND RIVER NEAR CROWHEART, WY--Continued

WATER-QUALITY DATA

PERIOD OF RECORD.--October 1986 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 08...	1045	750	256	9.5	110	30	9.0	9.1	0.4	1.5
DEC 04...	1250	382	330	5.0	170	46	13	14	0.5	2.4
MAR 03...	1240	317	290	6.0	160	44	13	15	0.5	2.4
APR 16...	1100	367	360	12.0	150	40	12	14	0.5	2.3
JUN 25...	1320	2980	165	16.0	68	19	5.1	8.7	0.5	1.7
AUG 04...	1055	1260	190	18.0	86	23	6.9	8.4	0.4	1.3

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 08...	100	29	2.6	0.2	11	152	0.21	309	<0.1	0.03
DEC 04...	150	41	3.4	0.5	17	228	0.31	235	0.1	<0.03
MAR 03...	150	43	3.5	0.3	16	228	0.31	195	<0.1	0.10
APR 16...	140	40	3.7	0.3	17	213	0.29	211	<0.1	0.06
JUN 25...	82	20	1.5	0.2	19	124	0.17	1000	<0.1	0.05
AUG 04...	78	20	1.5	0.2	12	120	0.16	408	<0.1	<0.03

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
MAR 03...	1240	<10	1	58	<0.5	30	<1.0	<1	<3	3

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 03...	7	<1	12	7	<0.1	<1	1.0	240	8

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 25...	1320	2980	16.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 04...	1055	1260	18.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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 for some periods, published in WSP 1309.

REMARKS.--Estimated daily discharges: Mar 19-26, Apr. 21, 22, June 2-6, 8-12, July 14, 15, 27, 28, 31, Aug. 1, 12 and Sept. 23, 24. Records good except those for estimated daily discharges, which are poor. Flow used for irrigation on Riverton project. U.S. Bureau of Reclamation satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	180	---	---	---	.00	198	699	714	1110	760	857
2	498	215	---	---	---	.00	183	514	780	1180	871	871
3	485	198	---	---	---	.00	213	510	800	928	834	801
4	488	213	---	---	---	.00	268	593	770	828	880	836
5	497	170	---	---	---	.00	299	763	740	832	829	850
6	498	167	---	---	---	.00	271	896	680	886	787	860
7	513	137	---	---	---	.00	230	943	547	925	768	905
8	483	25	---	---	---	.00	137	1170	550	918	783	902
9	409	.00	---	---	---	.00	151	1100	560	812	786	856
10	309	.00	---	---	---	.00	242	919	650	698	843	846
11	208	.00	---	---	---	.00	241	817	675	798	923	854
12	191	.00	---	---	---	124	245	724	700	886	964	897
13	184	.00	---	---	---	197	267	1040	671	1080	1050	962
14	191	.00	---	---	---	220	328	1480	683	960	1190	984
15	198	.00	---	---	---	234	319	1370	1120	870	1310	987
16	202	.00	---	---	---	231	340	1330	1120	798	1330	978
17	194	.00	---	---	---	232	278	1420	880	798	1470	953
18	216	.00	---	---	---	244	199	1390	1060	803	1360	933
19	225	.00	---	---	---	240	230	1360	1290	832	1200	926
20	216	.00	---	---	---	240	263	1340	1340	1180	1130	903
21	218	.00	---	---	---	230	160	1500	1220	1470	1080	884
22	235	.00	---	---	---	220	200	1620	894	1570	1080	880
23	296	.00	---	---	---	210	370	1090	737	1310	1090	872
24	295	.00	---	---	---	120	332	1250	683	1130	1020	874
25	249	.00	---	---	---	130	306	1430	594	1000	942	854
26	247	.00	---	---	---	148	308	1440	603	961	922	847
27	267	.00	---	---	---	168	345	1440	749	850	893	851
28	310	.00	---	---	---	190	416	1490	743	840	868	795
29	251	.00	---	---	---	204	509	1010	734	809	839	550
30	183	.00	---	---	---	206	657	902	793	723	829	307
31	198	---	---	---	---	200	---	824	---	750	821	---
TOTAL	9449	1305.00	---	---	---	3988.00	8505	34374	24080	29535	30452	25675
MEAN	305	43.5	---	---	---	129	283	1109	803	953	982	856
MAX	513	215	---	---	---	244	657	1620	1340	1570	1470	987
MIN	183	.00	---	---	---	.00	137	510	547	698	760	307
AC-FT	18740	2590	---	---	---	7910	16870	68180	47760	58580	60400	50930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)												
MEAN	176	194	199	199	201	230	307	678	1110	1237	957	663
MAX	387	436	383	345	357	422	440	1159	1668	1736	1301	1047
(WY)	1957	1972	1958	1958	1954	1972	1980	1976	1990	1976	1975	1976
MIN	.000	.000	.000	.000	.000	.000	91.2	339	321	587	423	337
(WY)	1951	1951	1971	1971	1971	1971	1971	1942	1944	1941	1941	1973

WATER YEARS 1941 - 1992*

STATION	FOR 1902	WATER YEAR	WATER YEAR	1941	1902
ANNUAL MEAN	--			540	
HIGHEST ANNUAL MEAN	--			669	1972
LOWEST ANNUAL MEAN	--			461	1975
HIGHEST DAILY MEAN	1620	May 22		1860	Jun 11-12 1990
LOWEST DAILY MEAN	.00	Many days		.00	Many days, most years
ANNUAL SEVEN-DAY MINIMUM	--			.00	Many days, most years
ANNUAL RUNOFF (AC-FT)	--			391000	
10 PERCENT EXCEEDS	--			1320	
50 PERCENT EXCEEDS	--			404	
90 PERCENT EXCEEDS	--			.00	

* During period of operation.

YELLOWSTONE RIVER BASIN
06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNENAR, WY

85

LOCATION.--Lat 43°09'02", long 108°43'41", in SW¼ SE¼ NW¼ sec.14, T.2 N., R.1 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 450 ft downstream from headgate, 1.6 mi upstream from bridge on State Highway 132 and 2.5 mi west of Kinnear.

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

GAGE.--Water-stage recorder. Elevation of the gage is 5,310 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 1-12. Records good except those for estimated daily discharges, which are poor. Flow is diverted from the Wind River for irrigation. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	28	13	14	14
2	---	---	---	---	---	---	---	.00	28	13	14	14
3	---	---	---	---	---	---	---	.00	27	13	15	14
4	---	---	---	---	---	---	---	.00	27	12	18	12
5	---	---	---	---	---	---	---	.00	23	11	21	12
6	---	---	---	---	---	---	---	.00	25	11	24	12
7	---	---	---	---	---	---	---	.00	26	14	25	12
8	---	---	---	---	---	---	---	14	26	17	26	11
9	---	---	---	---	---	---	---	21	26	16	26	9.5
10	---	---	---	---	---	---	---	20	26	18	28	13
11	---	---	---	---	---	---	---	19	25	18	30	17
12	---	---	---	---	---	---	---	18	25	18	33	17
13	---	---	---	---	---	---	---	25	24	19	35	17
14	---	---	---	---	---	---	---	35	24	17	38	17
15	---	---	---	---	---	---	---	36	29	15	38	17
16	---	---	---	---	---	---	---	42	28	13	39	17
17	---	---	---	---	---	---	---	42	26	11	40	18
18	---	---	---	---	---	---	---	42	26	11	33	18
19	---	---	---	---	---	---	---	32	26	11	26	18
20	---	---	---	---	---	---	---	24	27	12	25	17
21	---	---	---	---	---	---	---	30	27	7.1	26	18
22	---	---	---	---	---	---	---	34	27	.81	26	18
23	---	---	---	---	---	---	---	32	25	5.5	26	18
24	---	---	---	---	---	---	---	31	22	11	27	19
25	---	---	---	---	---	---	---	31	17	11	26	19
26	---	---	---	---	---	---	---	31	17	11	26	19
27	---	---	---	---	---	---	---	31	16	12	23	19
28	---	---	---	---	---	---	---	30	16	13	20	19
29	---	---	---	---	---	---	---	29	15	12	19	21
30	---	---	---	---	---	---	---	29	14	13	19	20
31	---	---	---	---	---	---	---	28	---	14	16	---
TOTAL	---	---	---	---	---	---	---	706.00	718	393.41	802	486.5
MEAN	---	---	---	---	---	---	---	22.8	23.9	12.7	25.9	16.2
MAX	---	---	---	---	---	---	---	42	29	19	40	21
MIN	---	---	---	---	---	---	---	.00	14	.81	14	9.5
AC-FT	---	---	---	---	---	---	---	1400	1420	780	1590	965

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	15.2	21.2	20.5	23.6	15.0
MAX	---	---	---	---	---	---	---	22.8	23.9	28.3	25.9	16.2
(WY)	---	---	---	---	---	---	---	1992	1992	1991	1992	1992
MIN	---	---	---	---	---	---	---	7.72	18.4	12.7	21.3	13.7
(WY)	---	---	---	---	---	---	---	1991	1991	1992	1991	1991

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN

FOR 1992 WATER YEAR*

42 May 16-18
.00 Several days

WATER YEARS 1991 - 1992*

48 Jun 25 1991
.00 Several days each year
.00 Several days each year
54 Jun 24 1991
2.15 Jun 24 1991
33
18
8.3

ANNUAL SEVEN-DAY MINIMUM

--
45 Aug 17
1.93 Aug 17

INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

* During period of operation.

YELLOWSTONE RIVER BASIN
06227600 WIND RIVER NEAR KINNENAR, WY

LOCATION.--Lat 43°08'34", long 108°42'32", in SW¼ SE¼ SW¼ 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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28 to Mar. 11. 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 102,100 acres lying both upstream and downstream from station. The Wyoming Canal of the Riverton Project is the major diversion. This diversion began in 1926 and part of it can be returned to the river upstream from station through Pilot Wasteway. Additional waste water returns to river downstream from station through Fivemile and Muddy Creeks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	230	250	270	300	310	132	362	401	1050	348	386
2	424	220	260	290	310	310	129	350	391	965	359	383
3	425	230	280	300	310	320	125	350	384	1010	407	424
4	416	240	340	320	300	320	119	362	375	952	391	369
5	395	250	360	310	290	330	115	404	395	796	399	363
6	383	300	370	310	290	330	106	472	389	643	397	363
7	371	490	370	310	300	320	100	554	383	453	400	361
8	336	480	360	320	310	310	116	475	378	406	424	328
9	330	470	350	330	320	300	198	511	376	360	422	240
10	346	460	340	320	330	300	106	512	372	399	419	240
11	362	450	330	300	350	300	91	483	365	390	414	278
12	355	430	330	280	350	183	91	629	362	405	412	296
13	353	440	320	260	350	134	91	509	360	425	420	296
14	328	450	310	250	350	125	88	499	360	403	433	296
15	290	460	330	280	340	119	89	468	632	400	429	284
16	290	430	350	290	330	113	92	459	592	405	439	276
17	290	410	340	280	320	107	99	457	482	406	462	276
18	290	420	310	280	320	106	253	460	489	406	437	279
19	290	420	280	270	310	99	247	504	471	417	412	277
20	290	380	250	270	310	94	144	534	587	521	406	276
21	284	370	240	280	310	91	150	507	574	548	410	279
22	267	350	230	300	300	88	329	599	1120	490	409	280
23	274	340	240	310	300	86	208	482	1480	433	409	279
24	260	380	250	320	300	150	209	469	1510	418	409	277
25	256	450	260	310	290	177	217	461	1870	417	397	279
26	256	490	270	300	290	193	217	461	2470	416	387	284
27	258	480	270	290	300	154	225	472	2150	414	386	283
28	240	390	280	310	300	142	272	438	2190	381	380	281
29	250	340	280	330	300	142	369	408	1690	339	382	279
30	250	280	280	320	---	136	368	423	1610	319	383	275
31	240	---	270	310	---	135	---	406	---	375	383	---
TOTAL	9829	11530	9300	9220	9080	6024	5095	14480	25208	15762	12565	9087
MEAN	317	384	300	297	313	194	170	467	840	508	405	303
MAX	430	490	370	330	350	330	369	629	2470	1050	462	424
MIN	240	220	230	250	290	86	88	350	360	319	348	240
AC-FT	19500	22870	18450	18290	18010	11950	10110	28720	50000	31260	24920	18020

YELLOWSTONE RIVER BASIN
06227600 WIND RIVER NEAR KINNEAR, WY--Continued

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SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1974-1992*

ANNUAL TOTAL	137180	--
ANNUAL MEAN	375	--
HIGHEST DAILY MEAN	2470 Jun 26	8600 Jun 13 1991
LOWEST DAILY MEAN	86 Mar 23	28 Apr 24,25 1978
ANNUAL SEVEN-DAY MINIMUM	92 Apr 11	--
INSTANTANEOUS PEAK FLOW	3390 Jun 28	13900 Jun 13 1991
INSTANTANEOUS PEAK STAGE	6.05 Jun 28	8.03a Jun 13 1991
ANNUAL RUNOFF (AC-FT)	272100	--
10 PERCENT EXCEEDS	482	--
50 PERCENT EXCEEDS	330	--
90 PERCENT EXCEEDS	181	--

* During period of operation.

a From floodmark.

06227600 WIND RIVER NEAR KINNEAR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 28...	1045	424	13.0	250	1.9	32	2.4	17	1.9	16	0.08	1.2

YELLOWSTONE RIVER BASIN
06227810 LETHAND DITCH AT HEADWORKS, NEAR RIVERTON, WY

LOCATION.--Lat 43°01'34", long 108°31'12", in NE¼ NE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: June 11-14, 17-24, Aug. 22-24, Aug. 30 to Sept. 2, and Sept. 9, 10. Records fair except those for estimated daily discharges, which are poor. Flow is diverted from Wind River for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	32	35	27	26	25
2	---	---	---	---	---	---	.00	31	35	40	26	25
3	---	---	---	---	---	---	.00	31	35	39	26	26
4	---	---	---	---	---	---	.00	32	34	39	26	25
5	---	---	---	---	---	---	.00	32	35	37	26	25
6	---	---	---	---	---	---	.00	33	35	35	26	25
7	---	---	---	---	---	---	.00	34	35	33	26	25
8	---	---	---	---	---	---	.00	35	35	32	26	25
9	---	---	---	---	---	---	.00	35	35	30	25	25
10	---	---	---	---	---	---	.00	36	34	30	25	25
11	---	---	---	---	---	---	.00	35	28	30	24	24
12	---	---	---	---	---	---	.00	37	24	30	23	24
13	---	---	---	---	---	---	.00	37	24	30	23	25
14	---	---	---	---	---	---	.00	37	24	29	23	24
15	---	---	---	---	---	---	.00	36	24	28	23	25
16	---	---	---	---	---	---	.00	36	23	28	23	25
17	---	---	---	---	---	---	.00	36	22	29	24	25
18	---	---	---	---	---	---	.00	37	22	29	24	25
19	---	---	---	---	---	---	.00	37	22	29	24	26
20	---	---	---	---	---	---	.00	39	21	30	23	26
21	---	---	---	---	---	---	.00	37	20	31	23	24
22	---	---	---	---	---	---	.00	37	20	29	23	24
23	---	---	---	---	---	---	.00	37	20	29	23	22
24	---	---	---	---	---	---	.00	36	20	29	23	20
25	---	---	---	---	---	---	.00	36	16	29	23	19
26	---	---	---	---	---	---	.00	36	15	29	25	19
27	---	---	---	---	---	---	.00	37	13	28	25	19
28	---	---	---	---	---	---	.00	36	12	27	25	19
29	---	---	---	---	---	---	.00	35	9.9	26	25	19
30	---	---	---	---	---	---	18	35	8.1	26	25	20
31	---	---	---	---	---	---	---	35	---	27	25	---
TOTAL	---	---	---	---	---	---	18.00	1095	736.0	944	757	705
MEAN	---	---	---	---	---	---	.60	35.3	24.5	30.5	24.4	23.5
MAX	---	---	---	---	---	---	18	39	35	40	26	26
MIN	---	---	---	---	---	---	.00	31	8.1	26	23	19
AC-FT	---	---	---	---	---	---	36	2170	1460	1870	1500	1400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)*

	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
MEAN	---	---	---	---	---	---	.60	28.1	24.4	29.8
MAX	---	---	---	---	---	---	.60	35.3	24.5	30.5
(WY)	---	---	---	---	---	---	1992	1992	1992	1991
MIN	---	---	---	---	---	---	.60	20.9	24.3	29.2
(WY)	---	---	---	---	---	---	1992	1991	1991	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

40 Jul 2
.00 Several days
43 May 12
2.32 May 12
--
--
--

WATER YEARS 1991 - 1992*

59 Jun 13 1991
.00 Several days
74 Jun 13 1991
2.73 Jun 13 1991
35
26
.00

* During period of operation.

YELLOWSTONE RIVER BASIN
06228000 WIND RIVER AT RIVERTON, WY

89

LOCATION.--Lat 43°00'38", Long 108°22'32", in NE¼ NW¼ NW¼ sec.2, T.1 S., R.4 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 265 ft downstream from bridge on State Highway 789, 1.1 mi southeast of post office in Riverton, and 1.5 mi upstream from Little Wind River.

DRAINAGE AREA.--2,309 mi².

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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: Oct. 30 to Mar. 9. 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. U.S. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	269	230	240	290	320	340	173	125	165	900	85	92
2	256	220	240	290	330	350	171	93	171	728	63	114
3	270	250	250	310	330	350	169	90	164	715	91	130
4	267	380	280	330	320	360	162	76	150	718	103	123
5	255	490	310	320	310	360	155	70	150	585	67	128
6	247	520	350	320	310	370	147	100	163	462	60	121
7	277	540	370	320	320	390	142	94	151	283	57	109
8	263	540	370	330	330	390	138	167	143	206	60	130
9	255	480	360	350	340	370	210	125	135	88	70	111
10	257	450	350	340	350	362	188	170	118	98	70	69
11	282	430	350	320	360	347	133	130	94	105	80	57
12	276	400	340	300	360	277	130	131	87	131	81	74
13	273	400	340	290	360	192	127	290	83	153	76	85
14	272	410	330	280	360	170	120	166	86	118	90	85
15	228	420	360	290	350	162	110	130	319	91	101	89
16	221	390	380	280	350	157	71	121	585	80	105	81
17	214	370	370	270	340	154	69	113	458	101	142	76
18	211	390	350	270	340	165	139	104	365	101	126	74
19	215	420	330	260	330	159	220	100	320	109	109	77
20	214	410	310	260	330	147	143	164	459	169	91	71
21	313	390	280	280	330	147	60	135	403	369	94	67
22	286	370	250	290	320	143	197	162	795	282	94	68
23	294	330	240	310	320	140	130	205	1370	238	93	78
24	278	320	250	330	320	154	98	134	1410	189	97	77
25	271	320	270	320	320	241	106	128	1520	212	104	80
26	269	430	280	310	320	240	106	122	2220	238	99	83
27	268	420	280	300	320	211	105	163	1960	179	95	84
28	269	400	280	320	330	191	105	174	2020	165	87	86
29	266	350	280	350	330	185	204	144	1410	102	80	99
30	250	290	280	340	---	178	149	149	1380	72	87	117
31	240	---	290	330	---	176	---	163	---	89	86	---
TOTAL	8026	11760	9560	9500	9650	7578	4177	4238	18854	8076	2743	2735
MEAN	259	392	308	306	333	244	139	137	628	261	88.5	91.2
MAX	313	540	380	350	360	390	220	290	2220	900	142	130
MIN	211	220	240	260	310	140	60	70	83	72	57	57
AC-FT	15920	23330	18960	18840	19140	15030	8290	8410	37400	16020	5440	5420

YELLOWSTONE RIVER BASIN
06228000 WIND RIVER AT RIVERTON, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1992, BY WATER YEAR (WY)

MEAN	621	448	352	333	336	346	431	1279	2887	1798	726	514
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	183	222	200	151	196	74.9	53.8	72.6	155	39.3	43.1	35.7
(WY)	1989	1941	1932	1938	1981	1981	1989	1989	1977	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1912 - 1992		
ANNUAL TOTAL	274236			96897			--		
ANNUAL MEAN	751			265			830		
HIGHEST ANNUAL MEAN	--			--			1626		
LOWEST ANNUAL MEAN	--			--			195		
HIGHEST DAILY MEAN	8140	Jun 14		2220	Jun 26		11400	Jun 14	1935
LOWEST DAILY MEAN	75	Apr 14		57	Aug 7, Sep 11		9.8	May 28,	
ANNUAL SEVEN-DAY MINIMUM	94	Apr 10		66	Aug 5		12	Jul 13	1977
INSTANTANEOUS PEAK FLOW	--			2870 ^a	Jun 28		13300 ^b	Jun 15	1935
INSTANTANEOUS PEAK STAGE	--			8.38 ^c	Jan 11		10.80 ^c	Dec 30	1983
ANNUAL RUNOFF (AC-FT)	543900			192200			601300		
10 PERCENT EXCEEDS	1850			390			2140		
50 PERCENT EXCEEDS	320			240			412		
90 PERCENT EXCEEDS	215			85			186		

a Gage height 6.62 ft.

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

c Backwater from ice.

YELLOWSTONE RIVER BASIN

91

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

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 14...	1015	443	450	8.4	5.0	624	20	10.8	104	K12	180
JAN 14...	1300	262	475	8.0	0.0	630	1.4	11.6	96	24	22
MAR 17...	1000	136	570	8.6	6.5	629	2.1	10.6	105	<1	K17
MAY 14...	1300	169	290	8.7	16.0	635	17	9.8	120	49	220
JUL 09...	1315	63	394	8.6	21.0	640	13	8.3	112	K62	K1700
SEP 17...	1100	74	496	8.6	14.0	637	4.7	8.5	99	K63	290

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 14...	190	51	14	23	0.7	2.7	2	201	169	174	63
JAN 14...	190	54	14	21	0.7	2.9	0	221	181	184	52
MAR 17...	220	61	16	38	1	3.0	7	223	195	200	96
MAY 14...	110	31	7.1	20	0.8	1.9	7	109	101	102	43
JUL 09...	140	41	10	28	1	2.5	6	152	133	136	65
SEP 17...	160	45	12	38	1	2.3	7	171	151	148	94

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 14...	5.6	0.3	14	255	275	0.35	305	0.02	<0.01	<0.05	<0.05
JAN 14...	6.6	0.3	17	273	277	0.37	193	<0.01	<0.01	0.15	0.15
MAR 17...	8.0	0.3	14	355	354	0.48	130	<0.01	<0.01	<0.05	<0.05
MAY 14...	3.7	0.2	9.7	165	178	0.22	75.3	0.02	<0.01	0.08	0.09
JUL 09...	3.5	0.3	17	243	248	0.33	41.3	0.02	<0.01	0.09	0.09
SEP 17...	5.6	0.3	8.8	297	298	0.40	59.3	<0.01	<0.01	<0.05	<0.05

YELLOWSTONE RIVER BASIN

06228000 WIND RIVER AT RIVERTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 14...	0.03	0.01	0.3	0.05	<0.01	0.02	<0.01	60	72	91
JAN 14...	0.02	0.02	0.3	0.03	0.01	0.01	<0.01	40	28	19
MAR 17...	0.02	0.01	<0.2	0.02	<0.01	<0.01	<0.01	8	2.9	80
MAY 14...	0.02	0.01	0.2	0.07	0.03	0.04	0.03	53	24	94
JUL 09...	0.03	0.02	0.3	0.09	0.05	0.08	0.04	42	7.1	98
SEP 17...	<0.01	0.02	0.3	0.02	<0.01	<0.01	<0.01	10	2.0	97

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 14...	1015	<10	71	<3	4	14	8
MAR 17...	1000	<10	71	<3	10	17	26
MAY 14...	1300	10	41	<3	8	9	12
SEP 17...	1100	20	51	<3	11	16	9

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 14...	<10	<1	<1	<1.0	280	<6
MAR 17...	<10	1	<1	<1.0	330	<6
MAY 14...	<10	<1	<1	<1.0	180	<6
SEP 17...	<10	<1	<1	<1.0	350	<6

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON, METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 14...	1300	4.6	1.4	3.2	<0.6	2.4	<0.6	0.06	3.0

YELLOWSTONE RIVER BASIN

93

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

LOCATION.--Lat 42°58'06", long 109°02'13", in SE¼ SW¼ SE¼ sec.18, T.1 S., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 1.9 mi upstream from Washakie Dam and 8.0 mi southwest of Fort Washakie.

DRAINAGE AREA.--90.3 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Dec. 5 and Dec. 15-29. Records good except those for October through June, which are fair.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 28	0300	*550	*4.70	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	32	25	17	14	19	19	174	341	254	92	36
2	45	30	26	18	14	19	22	149	312	352	86	36
3	43	28	27	18	13	20	26	145	308	315	82	35
4	41	27	28	18	13	20	31	157	308	246	80	35
5	40	30	29	18	12	20	33	184	291	215	75	44
6	39	30	29	18	12	22	31	205	265	189	72	43
7	38	30	27	18	12	22	37	233	241	229	69	43
8	37	29	27	18	13	22	39	244	229	241	65	44
9	34	29	27	17	13	21	40	284	222	215	62	41
10	33	29	25	17	13	21	45	279	217	185	60	39
11	33	29	23	18	13	23	45	235	225	163	59	37
12	32	30	24	18	13	20	49	208	241	196	59	38
13	31	31	23	18	13	18	60	194	239	246	58	51
14	30	30	22	18	13	19	68	191	222	218	57	47
15	30	29	22	17	13	20	66	210	232	187	55	43
16	28	29	22	16	14	20	72	225	213	167	56	41
17	27	30	22	16	15	19	84	219	189	161	61	38
18	30	31	22	16	14	19	81	233	175	143	58	36
19	30	30	21	16	15	18	67	276	173	135	55	35
20	29	29	20	16	15	18	63	336	199	227	54	34
21	28	27	19	16	15	19	62	400	211	377	52	33
22	27	26	19	16	15	17	66	445	216	328	50	32
23	39	27	19	15	15	18	66	416	221	253	50	31
24	35	29	19	15	14	18	60	384	228	213	48	31
25	38	29	19	14	15	18	59	397	305	182	46	35
26	38	29	19	14	14	17	63	418	347	160	45	35
27	41	29	19	14	15	18	85	493	295	139	43	35
28	38	27	19	14	15	18	113	508	255	123	40	34
29	39	25	18	14	16	19	131	457	236	113	38	33
30	35	24	18	14	---	20	171	435	255	103	36	32
31	34	---	18	14	---	21	---	393	---	98	36	---
TOTAL	1089	864	697	506	401	603	1854	9127	7411	6373	1799	1127
MEAN	35.1	28.8	22.5	16.3	13.8	19.5	61.8	294	247	206	58.0	37.6
MAX	47	32	29	18	16	23	171	508	347	377	92	51
MIN	27	24	18	14	12	17	19	145	173	98	36	31
AC-FT	2160	1710	1380	1000	795	1200	3680	18100	14700	12640	3570	2240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	43.8	29.2	22.7	16.0	13.8	16.7	52.2	247	567	312	102	56.0				
MAX	94.3	48.4	30.6	25.1	26.1	34.1	94.6	403	1066	549	197	82.9				
(WY)	1983	1991	1978	1978	1986	1986	1987	1987	1986	1983	1982	1984				
MIN	14.5	15.7	11.8	6.05	6.72	9.60	29.2	132	247	81.0	30.7	20.0				
(WY)	1989	1989	1977	1977	1977	1977	1982	1977	1992	1988	1988	1988				

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1977 - 1992
ANNUAL TOTAL	55529	31851	
ANNUAL MEAN	152	87.0	123
HIGHEST ANNUAL MEAN			188
LOWEST ANNUAL MEAN			71.2
HIGHEST DAILY MEAN	1960	508	1960
LOWEST DAILY MEAN	11	12	4.5
ANNUAL SEVEN-DAY MINIMUM	11	13	4.5
INSTANTANEOUS PEAK FLOW		550	2230
INSTANTANEOUS PEAK STAGE		4.70	8.48
ANNUAL RUNOFF (AC-FT)	110100	63180	89420
10 PERCENT EXCEEDS	477	241	365
50 PERCENT EXCEEDS	34	35	38
90 PERCENT EXCEEDS	13	15	14

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 09...	1150	34	72	6.0	33	8.4	2.9	3.6	0.3	0.5
DEC 30...	1220	18	112	0.5	43	11	3.7	5.5	0.4	0.9
MAR 12...	1310	18	129	4.5	51	13	4.6	6.1	0.4	0.9
MAY 11...	1220	217	35	10.0	14	3.9	1.0	1.0	0.1	0.6
JUN 17...	1235	192	35	11.0	13	3.7	1.0	4.8	0.6	0.4
SEP 08...	1415	44	67	21.0	27	7.0	2.3	2.3	0.2	0.7

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 09...	27	2.0	4.7	0.2	4.3	43	0.06	3.97	0.1	<0.03
DEC 30...	38	4.3	7.9	<0.1	7.1	63	0.09	3.07	<0.1	<0.03
MAR 12...	44	7.3	9.9	0.1	7.9	76	0.10	3.70	<0.1	<0.03
MAY 11...	13	7.8	1.3	0.1	4.3	28	0.04	16.3	<0.1	<0.03
JUN 17...	14	4.0	1.2	0.1	3.0	27	0.04	13.8	<0.1	<0.03
SEP 08...	24	4.1	4.1	0.1	4.0	39	0.05	4.63	<0.1	<0.03

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	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)	COBALT, DIS- SOLVED (UG/L AS CO)
MAY 06...	1035	200	50	<1	5	<0.5	<10	<1.0	<1	<3

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 06...	2	61	2	<4	2	<0.1	<1	<1.0	20	10

YELLOWSTONE RIVER BASIN

95

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

LOCATION.--Lat 42°59'04", long 108°59'57", in SW¼ SW¼ SE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharge: July 2, 3. Records good. Flow regulated by Washakie Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	27	27	20	15	14	7.3	11	313	266	93	136
2	26	27	28	20	15	14	7.5	11	274	320	89	120
3	26	27	28	20	15	14	7.4	12	279	331	85	102
4	26	27	28	20	15	13	7.5	22	292	271	80	100
5	26	28	28	19	15	13	7.4	32	281	229	89	97
6	27	28	28	20	15	14	7.3	32	256	200	99	96
7	27	28	28	20	15	13	7.6	45	233	216	159	94
8	28	28	28	20	15	13	7.7	95	223	248	191	87
9	27	28	28	19	15	13	7.8	107	219	222	190	80
10	27	28	27	19	15	13	7.7	110	222	196	187	71
11	27	28	27	19	15	13	7.8	111	221	172	215	61
12	26	28	28	19	15	14	8.0	112	229	185	223	61
13	26	28	28	19	15	14	8.1	132	256	247	219	60
14	26	28	28	19	15	13	8.1	166	245	237	217	47
15	27	28	28	19	15	14	8.4	178	262	202	216	27
16	27	28	28	19	15	14	8.8	180	247	179	213	20
17	27	28	28	19	15	13	8.7	180	222	167	210	20
18	26	28	28	19	15	13	8.7	197	217	156	207	20
19	26	28	28	19	15	13	9.2	220	194	145	205	20
20	26	29	28	19	15	11	9.5	231	177	207	202	21
21	26	29	28	19	15	7.4	9.6	250	181	321	199	20
22	27	28	28	19	15	7.2	9.7	254	145	358	196	21
23	27	27	28	19	15	7.3	9.7	271	187	291	190	22
24	27	28	23	19	15	7.3	9.9	337	234	237	167	21
25	26	28	19	19	15	7.4	10	362	282	200	157	20
26	26	28	19	19	15	7.3	10	387	344	176	153	19
27	26	29	20	19	14	7.3	9.6	458	309	153	150	20
28	26	28	19	19	14	7.4	10	495	273	132	147	20
29	26	28	20	19	14	7.4	11	426	246	118	144	20
30	27	28	19	17	---	7.5	11	402	248	101	142	21
31	27	---	20	15	---	7.5	---	361	---	92	138	---
TOTAL	840	838	800	590	432	347.0	261.0	6187	7311	6575	5172	1544
MEAN	27.1	27.9	25.8	19.0	14.9	11.2	8.70	200	244	212	167	51.5
MAX	45	29	28	20	15	14	11	495	344	358	223	136
MIN	26	27	19	15	14	7.2	7.3	11	145	92	80	19
AC-FT	1670	1660	1590	1170	857	688	518	12270	14500	13040	10260	3060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1989	1990	1991	1992	1989	1990	1991	1992
MEAN	28.0	28.1	26.0	17.7	12.3	10.4	18.9	155	488	278	146	100
MAX	38.7	40.6	36.7	23.8	14.9	12.8	35.2	200	897	317	167	129
(WY)	1991	1991	1991	1991	1992	1990	1989	1992	1991	1989	1992	1990
MIN	18.8	4.68	5.19	6.18	7.19	6.65	5.07	125	244	212	136	51.5
(WY)	1989	1989	1989	1989	1989	1991	1991	1990	1992	1992	1989	1992

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	53588.6	30897.0	--
ANNUAL MEAN	147	84.4	109
HIGHEST ANNUAL MEAN	--	--	150
LOWEST ANNUAL MEAN	--	--	84.4
HIGHEST DAILY MEAN	1930	495	1930
LOWEST DAILY MEAN	3.5	7.2	3.5
ANNUAL SEVEN-DAY MINIMUM	3.6	7.3	3.6
INSTANTANEOUS PEAK FLOW	--	520	2120
INSTANTANEOUS PEAK STAGE	--	3.73	6.43
ANNUAL RUNOFF (AC-FT)	106300	61280	79170
10 PERCENT EXCEEDS	451	239	273
50 PERCENT EXCEEDS	28	27	36
90 PERCENT EXCEEDS	5.5	10	6.6

YELLOWSTONE RIVER BASIN
06228510 RAY CANAL AT HEADWORKS, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 43°00'02", long 108°55'56", in NW¼ SW¼ SW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for Aug. 12 to Sept. 22, which are fair. Flow is diverted from the South Fork Little Wind River for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.94	1.1	283	151	113	133
2	---	---	---	---	---	---	.94	1.7	283	136	109	125
3	---	---	---	---	---	---	.92	1.8	286	115	107	106
4	---	---	---	---	---	---	.92	26	293	111	102	105
5	---	---	---	---	---	---	.92	56	282	108	106	101
6	---	---	---	---	---	---	.95	59	259	108	122	100
7	---	---	---	---	---	---	.98	66	244	106	160	99
8	---	---	---	---	---	---	.96	118	248	103	201	94
9	---	---	---	---	---	---	.95	150	250	100	188	86
10	---	---	---	---	---	1.1	.92	152	248	95	185	81
11	---	---	---	---	---	1.1	.92	153	247	94	183	68
12	---	---	---	---	---	1.2	.91	151	251	94	198	66
13	---	---	---	---	---	1.1	.92	164	271	101	207	64
14	---	---	---	---	---	1.2	.95	190	267	100	206	59
15	---	---	---	---	---	1.2	1.0	208	291	96	204	40
16	---	---	---	---	---	1.2	1.1	209	272	94	204	23
17	---	---	---	---	---	1.2	.99	211	244	92	200	23
18	---	---	---	---	---	1.3	1.0	220	236	118	197	23
19	---	---	---	---	---	1.2	1.0	242	222	143	194	22
20	---	---	---	---	---	1.2	1.0	248	211	123	192	22
21	---	---	---	---	---	.99	1.0	286	209	85	190	23
22	---	---	---	---	---	.90	1.0	297	181	79	185	23
23	---	---	---	---	---	.91	.98	301	207	83	183	24
24	---	---	---	---	---	.93	1.0	349	231	80	171	25
25	---	---	---	---	---	.92	1.0	367	141	78	157	25
26	---	---	---	---	---	.92	1.0	377	149	77	153	26
27	---	---	---	---	---	.93	1.0	370	147	79	150	26
28	---	---	---	---	---	.93	.94	311	143	80	145	26
29	---	---	---	---	---	.93	.99	288	140	80	142	25
30	---	---	---	---	---	.94	1.0	301	144	88	139	25
31	---	---	---	---	---	.98	---	289	---	106	136	---
TOTAL	---	---	---	---	---	---	29.10	6163.6	6880	3103	5129	1688
MEAN	---	---	---	---	---	---	.97	199	229	100	165	56.3
MAX	---	---	---	---	---	---	1.1	377	293	151	207	133
MIN	---	---	---	---	---	---	.91	1.1	140	77	102	22
AC-FT	---	---	---	---	---	---	58	12230	13650	6150	10170	3350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	22.4	134	211	209
MAX	47.5	199	319	275
(WY)	1989	1992	1990	1992
MIN	.97	21.3	88.6	100
(WY)	1992	1991	1991	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

377 May 26
.90 Mar 22
--
399 May 27
3.85 May 27
--
--
--
--

WATER YEARS 1989 - 1992*

377 May 26 1992
.00 Apr 1 1991
.87 Apr 1 1990
444 Jun 23 1990
4.07 Jun 23 1990
277
140
1.2

* During period of operation.

YELLOWSTONE RIVER BASIN
06228800 NORTH FORK LITTLE WIND RIVER NEAR FORT WASHAKIE, WY

97

LOCATION.--Lat 43°01'38", Long 109°00'02", in SW¼ SW¼ SE¼ 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 6,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Feb. 7, Feb 18, and Mar. 9-11, 22, 23. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of 80 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	47	19	12	14	16	20	111	290	243	105	35
2	51	42	20	13	14	17	23	105	258	338	100	33
3	48	37	21	13	14	17	25	103	242	313	94	32
4	45	32	22	13	14	18	29	107	235	272	89	32
5	44	35	22	13	13	19	30	120	226	236	86	34
6	44	42	21	12	13	20	27	140	222	200	85	35
7	42	41	20	12	13	20	23	166	206	190	81	36
8	41	40	19	12	14	19	23	187	191	181	78	37
9	40	39	18	13	14	18	25	229	180	173	71	37
10	39	38	17	13	14	17	32	254	174	163	66	38
11	39	37	16	13	14	18	31	236	174	155	63	38
12	39	36	16	14	13	19	33	192	177	156	59	37
13	38	35	16	14	13	20	48	174	187	159	56	39
14	36	34	16	13	14	20	57	167	193	151	55	39
15	36	33	16	12	14	20	50	167	236	148	53	40
16	36	31	16	14	14	20	57	171	215	144	55	40
17	34	28	16	13	13	19	62	171	199	142	63	38
18	34	26	16	13	15	20	62	177	183	138	62	33
19	34	25	16	13	13	19	44	193	175	135	61	32
20	33	24	15	13	14	19	40	220	181	152	60	32
21	33	23	14	13	14	19	40	278	177	183	58	31
22	33	21	14	14	14	16	42	380	173	182	56	30
23	49	22	14	15	14	17	42	393	172	182	54	30
24	46	23	14	16	13	18	38	362	175	179	52	31
25	43	23	14	15	14	18	37	346	213	173	50	36
26	44	23	14	15	14	19	38	329	265	158	49	36
27	48	23	14	15	15	19	45	430	289	146	47	39
28	49	22	14	15	15	19	62	517	268	135	45	37
29	50	21	13	15	15	19	75	442	244	125	41	38
30	50	20	13	15	---	20	101	383	246	115	37	39
31	49	---	13	15	---	21	---	333	---	111	35	---
TOTAL	1300	923	509	421	402	580	1261	7583	6366	5478	1966	1064
MEAN	41.9	30.8	16.4	13.6	13.9	18.7	42.0	245	212	177	63.4	35.5
MAX	53	47	22	16	15	21	101	517	290	338	105	40
MIN	33	20	13	12	13	16	20	103	172	111	35	30
AC-FT	2580	1830	1010	835	797	1150	2500	15040	12630	10870	3900	2110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	45.8	32.5	20.5	15.6
MAX	64.6	42.5	26.5	22.3
(WY)	1990	1991	1992	1993
MIN	13.5	14.7	13.6	8.95
(WY)	1989	1989	1989	1989

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	58786	27853	---
ANNUAL MEAN	161	76.1	113
HIGHEST ANNUAL MEAN	---	---	165
LOWEST ANNUAL MEAN	---	---	76.1
HIGHEST DAILY MEAN	2070	517	2070
LOWEST DAILY MEAN	13	12	6.5
ANNUAL SEVEN-DAY MINIMUM	14	13	7.4
INSTANTANEOUS PEAK FLOW	---	584	2360
INSTANTANEOUS PEAK STAGE	---	4.18	6.20
ANNUAL RUNOFF (AC-FT)	116600	55250	81680
10 PERCENT EXCEEDS	442	199	293
50 PERCENT EXCEEDS	43	37	43
90 PERCENT EXCEEDS	19	14	14

YELLOWSTONE RIVER BASIN
06229680 SAGE CREEK ABOVE NORKOK MEADOWS CREEK, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 43°05'47", long 108°54'29", in NE¼ NW¼ NW¼ sec.5, T.1 N., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 60 ft upstream from U.S. Highway 287, 1.5 mi upstream from Norkok Meadows Creek, and 6.9 mi north of Fort Washakie.
DRAINAGE AREA.--118 mi² (at site prior to Oct. 25, 1991).
PERIOD OF RECORD.--July 1990 to current year.
GAGE.--Water-stage recorder. Elevation of the gage is 5,660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 25, 1991, at site 1.5 mi downstream at different datum.
REMARKS.--Estimated daily discharges: Oct. 25 to Mar. 16. Records poor. Natural flow of stream affected by diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.0	6.2	5.0	4.9	5.2	5.3	4.3	13	9.8	5.2	2.8
2	4.4	4.6	6.4	5.0	4.9	5.2	5.0	4.3	11	20	5.2	3.2
3	4.5	4.7	6.4	5.0	4.9	5.2	5.0	4.3	11	17	5.2	3.0
4	4.5	7.0	6.6	5.0	4.9	5.2	4.8	4.1	11	15	5.2	2.9
5	4.6	10	6.6	5.0	4.9	5.4	4.6	4.0	11	13	5.0	2.9
6	4.7	11	6.8	5.0	4.9	5.6	4.5	4.0	12	11	4.7	3.0
7	4.7	10	7.0	5.0	5.0	5.6	4.4	3.9	11	9.7	4.6	2.9
8	4.6	9.6	6.8	5.2	5.0	5.4	4.4	3.9	11	9.2	4.2	2.8
9	4.7	9.6	6.8	5.2	5.0	5.2	4.4	4.1	9.8	9.0	4.0	2.7
10	4.8	9.4	6.7	5.2	5.0	5.0	4.3	4.8	9.6	8.8	3.9	2.6
11	4.7	7.2	6.6	5.2	5.0	5.2	4.2	4.7	9.3	8.9	3.8	2.6
12	5.0	7.1	6.6	5.2	5.2	5.4	4.3	4.0	9.1	9.4	3.8	2.4
13	4.9	6.0	6.4	5.2	5.2	5.6	4.3	3.7	9.0	10	3.8	2.6
14	4.9	5.2	6.4	5.2	5.2	6.0	4.2	3.7	8.9	10	3.8	3.0
15	4.9	6.0	6.4	5.0	5.0	6.2	4.2	3.7	21	8.6	3.8	3.6
16	4.8	6.2	6.4	5.2	4.9	6.0	4.6	3.7	15	8.1	3.9	5.1
17	4.8	6.4	6.4	5.2	4.9	5.8	4.8	3.7	12	7.9	7.5	5.0
18	4.9	6.6	6.2	5.2	5.0	5.8	4.3	3.7	10	7.9	5.3	4.9
19	5.1	6.8	6.2	5.2	5.0	5.9	4.1	3.6	9.5	7.5	4.2	4.6
20	5.3	7.0	6.0	5.0	5.2	5.7	4.1	3.1	9.9	9.6	3.8	4.8
21	5.3	7.2	5.8	4.9	5.2	5.7	4.0	3.1	9.5	14	3.7	6.0
22	5.2	7.2	5.4	4.9	5.2	5.6	4.4	3.9	8.9	13	3.7	6.7
23	6.0	7.2	5.2	4.9	5.4	5.3	5.1	5.0	8.6	10	3.5	6.9
24	6.4	7.2	5.2	4.9	5.4	5.3	4.8	6.3	8.6	7.8	3.6	6.3
25	5.4	7.2	5.2	4.9	5.2	5.3	4.8	8.3	9.7	7.2	3.7	6.2
26	5.4	7.2	5.2	5.0	5.2	5.3	4.7	6.4	12	9.6	3.8	5.9
27	5.6	7.0	5.2	4.9	5.2	5.3	4.7	7.6	13	7.6	3.6	5.7
28	5.8	6.8	5.2	4.9	5.2	5.2	4.5	13	12	6.4	3.2	5.6
29	5.6	6.6	5.0	4.9	5.2	5.3	4.5	14	11	5.7	2.9	5.2
30	5.4	6.4	5.0	4.9	---	5.2	4.4	13	10	5.8	2.8	4.5
31	5.2	---	5.0	4.9	---	5.3	---	13	---	5.4	2.7	---
TOTAL	156.5	215.4	187.3	156.2	147.2	169.4	135.7	172.9	327.4	302.9	128.1	126.4
MEAN	5.05	7.18	6.04	5.04	5.08	5.46	4.52	5.58	10.9	9.77	4.13	4.21
MAX	6.4	11	7.0	5.2	5.4	6.2	5.3	14	21	20	7.5	6.9
MIN	4.4	4.6	5.0	4.9	4.9	5.0	4.0	3.1	8.6	5.4	2.7	2.4
AC-FT	310	427	372	310	292	336	269	343	649	601	254	251

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	3.93	5.49	4.29	3.58	4.67	7.98	4.95	26.1	54.6	11.0	4.40	4.36
MAX	5.05	7.18	6.04	5.04	5.08	10.5	5.37	46.7	98.3	12.2	6.58	5.11
(WY)	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991	1991	1991
MIN	2.82	3.81	2.53	2.12	4.25	5.46	4.52	5.58	10.9	9.77	2.48	3.75
(WY)	1991	1991	1991	1991	1991	1992	1992	1992	1992	1992	1990	1990

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	6359.80	2225.4	---
ANNUAL MEAN	17.4	6.08	11.4
HIGHEST ANNUAL MEAN	---	---	16.7
LOWEST ANNUAL MEAN	---	---	6.08
HIGHEST DAILY MEAN	550 Jun 3	21 Jun 15	550 Jun 3 1991
LOWEST DAILY MEAN	.56 Jan 6	2.4 Sep 12	.50 Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	.60 Jan 3	2.7 Sep 7	.60 Jan 3 1991
INSTANTANEOUS PEAK FLOW	---	34a Jul 2	624b Jun 3 1991
INSTANTANEOUS PEAK STAGE	---	3.14c Jan 16	7.81d Jun 3 1991
ANNUAL RUNOFF (AC-FT)	12610	4410	8230
10 PERCENT EXCEEDS	39	9.8	13
50 PERCENT EXCEEDS	6.0	5.2	5.0
90 PERCENT EXCEEDS	3.6	3.8	2.5

a Gage height, 2.85 ft.

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

c Back water from ice, maximum observed.

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

YELLOWSTONE RIVER BASIN
06229900 TROUT CREEK NEAR FORT WASHAKIE, WY

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LOCATION.--Lat 42°57'04", long 108°56'54", in SE¼ NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929, 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.--No estimated daily discharges. Records good except those for December to February, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.7	5.2	4.7	4.5	5.0	5.0	10	18	13	12	7.1
2	5.6	5.5	5.1	4.6	4.5	5.0	5.0	9.7	17	16	12	7.0
3	5.6	5.4	5.0	4.5	4.5	5.0	5.1	9.5	17	16	12	6.8
4	5.5	5.3	5.0	4.5	4.5	5.0	5.2	9.5	17	15	11	6.9
5	5.6	5.5	5.0	4.5	4.5	5.2	5.2	9.7	17	15	10	6.9
6	5.7	5.5	5.0	4.5	4.5	5.2	5.1	9.8	16	15	9.3	6.6
7	5.7	5.5	5.3	4.6	4.5	4.9	4.9	10	15	16	9.2	6.6
8	5.7	5.5	5.3	4.7	4.7	5.0	4.8	10	15	15	8.4	6.5
9	5.7	5.5	5.2	4.7	4.8	4.9	4.9	11	14	15	7.9	6.4
10	5.7	5.5	5.2	4.7	4.8	4.8	5.0	11	13	14	7.5	6.3
11	5.6	5.4	5.2	4.7	4.8	4.7	5.1	12	13	14	7.0	6.3
12	5.7	5.5	5.2	4.7	5.0	4.7	5.1	11	13	15	6.8	6.3
13	5.7	5.5	5.1	4.7	5.0	4.7	5.2	11	12	16	6.7	6.4
14	5.7	5.7	5.0	4.7	5.0	4.7	5.6	11	12	14	6.7	6.3
15	5.7	5.5	5.0	4.6	4.9	4.7	5.8	11	16	13	6.5	6.2
16	5.6	5.5	5.0	4.7	4.8	4.7	6.3	11	14	13	6.7	6.2
17	5.8	5.5	5.0	4.7	4.9	4.9	6.3	11	13	13	7.5	6.2
18	6.0	5.4	5.0	4.7	4.8	5.1	6.3	11	12	13	7.1	6.2
19	6.0	5.2	5.0	4.7	4.8	5.0	6.1	11	12	13	6.7	6.2
20	6.0	5.2	5.0	4.7	4.9	5.0	5.9	11	12	15	6.7	6.2
21	6.0	5.2	5.0	4.6	5.0	5.1	6.0	12	11	16	6.6	6.2
22	6.0	5.2	5.0	4.5	5.1	4.9	6.1	14	11	15	6.8	6.2
23	6.3	5.1	5.0	4.5	5.0	5.0	6.1	14	11	14	6.7	6.2
24	6.1	5.2	5.0	4.5	5.0	5.0	5.9	13	11	13	6.8	6.3
25	6.0	5.2	5.0	4.5	5.0	4.9	5.9	15	12	13	7.4	6.3
26	5.8	5.2	5.0	4.6	5.0	4.9	6.1	14	13	13	7.4	6.3
27	5.8	5.2	5.0	4.5	5.0	4.9	6.6	18	12	13	7.1	6.3
28	5.7	5.3	4.8	4.5	5.0	4.9	7.1	18	12	12	7.0	6.3
29	5.7	5.2	4.7	4.5	5.0	4.9	7.5	17	11	12	7.1	6.3
30	5.6	5.2	4.7	4.5	---	4.9	10	18	12	12	7.1	6.1
31	5.5	---	4.7	4.5	---	5.1	---	18	---	12	7.1	---
TOTAL	178.7	161.3	155.7	142.6	139.8	152.7	175.2	382.2	404	434	244.8	192.1
MEAN	5.76	5.38	5.02	4.60	4.82	4.93	5.84	12.3	13.5	14.0	7.90	6.40
MAX	6.3	5.7	5.3	4.7	5.1	5.2	10	18	18	16	12	7.1
MIN	5.5	5.1	4.7	4.5	4.5	4.7	4.8	9.5	11	12	6.5	6.1
AC-FT	354	320	309	283	277	303	348	758	801	861	486	381

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	4.77	4.75	4.45	4.15	4.14	4.35	4.95	22.4	37.4	10.9	6.79	5.46
MAX	5.76	5.38	5.02	4.60	4.82	4.93	5.84	32.4	83.0	14.0	7.90	6.40
(WY)	1992	1992	1992	1992	1992	1992	1992	1991	1991	1992	1992	1992
MIN	3.77	4.12	3.87	3.71	3.44	3.78	4.05	12.3	13.5	6.56	4.64	3.95
(WY)	1991	1991	1991	1991	1991	1991	1991	1992	1992	1990	1990	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	5243.0	2763.1	--
ANNUAL MEAN	14.4	7.55	10.8
HIGHEST ANNUAL MEAN	--	--	14.0
LOWEST ANNUAL MEAN	--	--	7.55
HIGHEST DAILY MEAN	316	Jun 2	316 Jun 2 1991
LOWEST DAILY MEAN	3.2	Feb 19	4.5 Jan 3-6,22-25, Jan 27 to Feb 7
ANNUAL SEVEN-DAY MINIMUM	3.3	Feb 14	4.5 Jan 27
INSTANTANEOUS PEAK FLOW	--	--	23 May 27
INSTANTANEOUS PEAK STAGE	--	--	4.84b Jul 30
ANNUAL RUNOFF (AC-FT)	10400	5480	7800
10 PERCENT EXCEEDS	30	14	17
50 PERCENT EXCEEDS	5.5	5.7	5.4
90 PERCENT EXCEEDS	3.6	4.7	3.7

For period of record, 1961-68, 1970-84, 1990-92.

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

b Backwater from rock dam.

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

LOCATION.--Lat 42°56'50", long 108°48'29", in SW¼ SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 8, Nov. 16, 22, and Nov. 29 to Mar. 30. Records fair except those for estimated daily discharges and those above 100 ft³/s, which are poor. Some diversion for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.1	.72	.92	1.0	2.4	1.3	.86	15	7.9	1.1	6.5
2	1.2	1.1	.78	.92	1.0	2.5	1.2	.89	11	13	1.1	5.6
3	1.5	1.0	.90	.94	1.0	2.6	1.2	.87	5.5	7.0	1.2	5.1
4	1.5	1.3	.96	.96	1.1	2.7	1.1	.86	5.2	5.5	1.4	5.3
5	1.5	1.3	1.0	.98	1.1	2.5	1.1	5.2	5.9	5.1	1.1	5.0
6	1.5	1.4	1.2	1.0	1.1	2.4	.99	1.0	5.2	7.6	1.0	4.9
7	1.4	1.4	1.5	.98	1.1	2.3	.97	.89	4.8	19	1.1	4.6
8	1.3	1.5	1.4	.96	1.1	2.2	1.1	.97	5.0	18	9.0	4.9
9	1.3	1.5	1.3	.94	1.2	2.1	1.1	5.2	5.0	18	13	4.9
10	1.3	1.7	1.2	.94	1.2	2.0	1.0	8.0	5.3	13	11	5.1
11	1.3	1.5	1.0	.96	1.2	1.9	1.0	6.0	5.6	7.7	4.0	4.2
12	1.2	1.3	1.0	.94	1.2	1.9	1.0	3.1	5.8	8.4	3.0	4.5
13	1.2	1.3	1.1	.94	1.2	1.8	1.0	6.0	8.1	7.3	3.0	4.7
14	1.1	1.5	1.3	.92	1.2	1.8	.98	8.1	9.6	3.2	2.7	4.7
15	1.1	1.5	1.2	.88	1.3	1.7	1.1	8.4	15	3.1	2.4	3.8
16	1.1	1.5	1.3	.92	1.3	1.7	1.4	4.4	11	2.7	2.9	3.0
17	1.0	1.5	1.3	.96	1.3	1.7	1.1	3.7	9.1	1.7	3.7	2.6
18	1.0	1.5	1.2	.94	1.3	1.7	1.1	3.3	9.1	1.5	3.5	1.2
19	1.1	1.5	1.2	.92	1.3	1.8	1.1	3.4	12	1.7	3.9	1.2
20	1.1	1.4	1.1	.90	1.4	1.9	1.0	4.0	14	3.1	4.4	1.1
21	1.1	1.4	1.0	.92	1.5	2.0	1.0	4.5	14	3.2	4.9	.98
22	1.1	1.4	.98	.94	1.6	1.9	1.0	5.3	13	1.8	4.8	.98
23	1.6	1.2	.98	.96	1.6	1.8	.98	4.9	11	1.3	4.1	1.0
24	1.3	1.1	.98	.98	1.7	1.7	.91	5.9	16	1.1	4.4	1.0
25	1.1	.89	.96	1.0	1.8	1.6	.93	8.0	14	1.1	4.2	1.0
26	1.1	.87	.96	1.1	1.9	1.5	1.0	12	11	1.2	5.5	1.0
27	1.1	.80	.96	1.2	2.0	1.5	.97	20	10	.96	6.4	1.0
28	1.1	.81	.94	1.2	2.2	1.4	.94	17	10	.91	5.9	1.0
29	1.1	.80	.94	1.1	2.3	1.4	.89	14	11	.93	5.6	1.0
30	1.1	.74	.94	1.1	---	1.3	.87	17	10	.87	5.7	1.0
31	1.0	---	.92	1.1	---	1.4	---	16	---	.87	5.8	---
TOTAL	37.7	37.81	33.22	30.42	40.2	59.1	31.33	199.74	287.2	168.74	131.8	92.86
MEAN	1.22	1.26	1.07	.98	1.39	1.91	1.04	6.44	9.57	5.44	4.25	3.10
MAX	1.6	1.7	1.5	1.2	2.3	2.7	1.4	20	16	19	13	6.5
MIN	1.0	.74	.72	.88	1.0	1.3	.87	.86	4.8	.87	1.0	.98
AC-FT	75	75	66	60	80	117	62	396	570	335	261	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	1.58	1.38	.77	.66	1.09	2.81	2.08	9.18	22.3	5.74	3.89	4.74
MAX	1.94	1.50	1.07	.98	1.39	3.72	3.12	15.0	47.7	6.27	5.21	8.76
(WY)	1991	1991	1992	1992	1992	1991	1991	1991	1991	1991	1990	1990
MIN	1.22	1.26	.46	.34	.78	1.91	1.04	6.07	9.57	5.44	2.20	2.37
(WY)	1992	1992	1991	1991	1991	1992	1992	1990	1992	1992	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	2579.55	1150.12	--
ANNUAL MEAN	7.07	3.14	5.12
HIGHEST ANNUAL MEAN	--	--	7.10
LOWEST ANNUAL MEAN	--	--	3.14
HIGHEST DAILY MEAN	328 Jun 3	20 May 27	328 Jun 3 1991
LOWEST DAILY MEAN	.24 Jan 1	.72 Dec 1	.21 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.27 Jan 1	.79 Nov 26	.24 Dec 18 1990
INSTANTANEOUS PEAK FLOW	--	37 Jun 24	426 Jun 3 1991
INSTANTANEOUS PEAK STAGE	--	2.12 Jun 24	4.20 Jun 3 1991
ANNUAL RUNOFF (AC-FT)	5120	2280	3710
10 PERCENT EXCEEDS	11	8.1	11
50 PERCENT EXCEEDS	1.8	1.3	1.9
90 PERCENT EXCEEDS	.50	.94	.87

YELLOWSTONE RIVER BASIN

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06230500 LITTLE WIND RIVER NEAR ARAPAHOE, WY

LOCATION.--Lat 42°58'58", long 108°35'54", in NE¼NE¼ sec.14, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, at highway bridge, 5.7 mi west of Arapahoe.

DRAINAGE AREA.--618 mi².

PERIOD OF RECORD.--May to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
MAY 27...	1130	261	418	8.1	14.0	630	8.5	100
JUN 30...	0930	273	388	8.3	18.0	625	8.0	104

DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
MAY 27...	980	0.02	<0.05	0.03	0.27	0.3	0.06	0.04
JUN 30...	370	0.03	<0.05	0.04	0.46	0.5	0.13	0.04

YELLOWSTONE RIVER BASIN
06231000 LITTLE WIND RIVER ABOVE ARAPAHOE, WY

LOCATION.--Lat 42°57'35", long 108°29'51", in NW¼ NW¼ SW¼ sec.23, T.1 S., R.3 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 0.4 mi southwest of Arapahoe School, 1.2 mi upstream from Popo Agie River, and 5.4 mi downstream from Seventeen Mile Bridge.
DRAINAGE AREA.--660 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 4,990 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 1906 to December 1909, nonrecording gage 300 ft upstream at different datum, and May 1911 to November 1918, nonrecording gage 0.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 21 and Nov. 24 to Mar. 4. Records good except those for estimated daily discharges, which are poor. Some regulation by Washakie Reservoir, 34 mi upstream, capacity 7,940 acre-ft, and return flow from irrigation. Diversions for irrigation of about 26,000 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 28	2300	*633	*9.06	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	92	80	78	72	100	87	55	347	270	38	30
2	106	86	90	80	72	110	84	58	264	402	32	31
3	105	80	100	82	74	110	84	49	207	497	34	26
4	94	84	110	80	78	121	82	48	182	415	30	22
5	94	96	120	80	80	100	81	49	180	333	27	22
6	96	130	130	80	84	117	82	36	210	271	24	25
7	95	180	140	80	86	114	81	49	191	220	24	25
8	95	160	150	82	86	97	77	64	162	222	23	23
9	90	140	130	84	88	95	75	76	128	229	29	25
10	89	120	110	82	90	87	73	118	109	197	32	20
11	87	110	100	82	94	88	76	135	96	176	29	14
12	86	110	96	80	94	36	78	97	75	170	24	14
13	86	100	98	80	94	104	80	60	84	212	24	15
14	84	100	100	76	92	103	84	39	91	228	32	16
15	86	100	100	72	90	95	98	35	178	195	36	16
16	84	98	100	72	86	92	96	29	322	158	35	15
17	82	100	100	72	84	92	104	26	215	129	64	14
18	78	100	98	72	84	97	102	24	175	126	84	15
19	79	110	94	74	84	106	108	24	156	96	62	16
20	81	110	86	74	82	100	95	24	175	103	41	19
21	81	170	76	76	82	97	90	26	166	269	36	19
22	83	172	72	80	80	95	89	59	151	409	29	20
23	83	148	68	82	80	87	91	162	142	347	33	21
24	95	120	66	84	82	91	89	174	136	288	35	19
25	98	120	66	86	86	89	86	215	320	247	29	20
26	91	120	66	88	90	83	84	218	363	229	23	19
27	88	110	68	86	94	82	84	283	397	207	21	21
28	95	100	70	84	96	81	62	522	372	166	23	19
29	98	90	72	80	98	81	23	521	327	139	23	22
30	100	84	74	76	---	82	37	425	294	102	22	22
31	98	---	76	72	---	83	---	394	---	72	25	---
TOTAL	2766	3440	2906	2456	2482	2975	2462	4094	6215	7124	1023	605
MEAN	89.2	115	93.7	79.2	85.6	96.0	82.1	132	207	230	33.0	20.2
MAX	106	180	150	88	98	121	108	522	397	497	84	31
MIN	59	80	66	72	72	81	23	24	75	72	21	14
AC-FT	5490	6820	5760	4870	4920	5900	4880	8120	12330	14130	2030	1200

YELLOWSTONE RIVER BASIN
06231000 LITTLE WIND RIVER ABOVE ARAPAHOE, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

MEAN	128	118	85.0	72.5	77.2	94.1	99.9	263	828	342	68.0	59.3
MAX	264	182	130	101	102	142	159	568	1985	856	234	125
(WY)	1983	1985	1983	1983	1984	1987	1984	1987	1991	1983	1982	1982
MIN	34.9	46.9	49.6	42.9	42.0	56.1	31.7	30.4	168	26.2	13.6	9.56
(WY)	1989	1989	1991	1989	1989	1989	1989	1982	1988	1988	1988	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1980 - 1992	
ANNUAL TOTAL	104534		38548		--	
ANNUAL MEAN	286		105		186	
HIGHEST ANNUAL MEAN	--		--		344	1983
LOWEST ANNUAL MEAN	--		--		83.0	1988
HIGHEST DAILY MEAN	3930	Jun 14	522	May 28	3930	Jun 14 1991
LOWEST DAILY MEAN	14	Aug 20	14	Sep 11, 12, 17	6.7	Sep 5 1988
ANNUAL SEVEN-DAY MINIMUM	16	Aug 18	15	Sep 11	7.2	Sep 1 1988
INSTANTANEOUS PEAK FLOW	--		633	May 28	4190	Jun 15 1991
INSTANTANEOUS PEAK STAGE	--		9.06	May 28	13.39	Jun 15 1991
ANNUAL RUNOFF (AC-FT)	207300		76460		134700	
10 PERCENT EXCEEDS	686		207		363	
50 PERCENT EXCEEDS	83		86		88	
90 PERCENT EXCEEDS	44		24		35	

06231000 LITTLE WIND RIVER ABOVE ARAPAHOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT 10...	1320	90	810	--	12.5	--	--	--	--	--	400
DEC 18...	1115	99	680	8.3	0.0	628	14.8	123	K5	K25	310
JAN 14...	1420	77	730	7.9	0.0	638	12.0	98	30	K15	--
MAR 17...	0930	96	1100	8.5	6.5	620	10.4	105	K8	24	450
APR 15...	1300	100	780	--	14.0	--	--	--	--	--	330
MAY 27...	1115	285	510	8.4	15.0	632	7.6	91	1700	950	--
JUN 30...	1145	302	423	8.3	20.0	628	7.7	103	190	260	170
JUL 29...	1450	139	500	8.8	23.0	638	9.6	135	55	160	--
AUG 25...	1115	27	931	8.4	16.0	644	8.7	105	67	95	360
SEP 09...	1100	23	1050	8.2	13.0	638	9.0	103	72	920	--

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

[illegible]

YELLOWSTONE RIVER BASIN

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06231000 LITTLE WIND RIVER ABOVE ARAPAHOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT 10...	617	0.84	150	--	<0.1	--	--	--	<0.03	--
DEC 18...	499	0.68	134	0.11	0.1	<0.01	--	<0.2	<0.03	<0.01
JAN 14...	--	--	--	0.21	--	<0.01	--	<0.2	<0.01	<0.01
MAR 17...	773	1.05	200	<0.05	<0.1	0.01	0.19	0.2	0.02	<0.01
APR 15...	553	0.75	149	--	<0.1	--	--	--	<0.03	--
MAY 27...	--	--	--	0.08	--	0.04	0.56	0.6	0.12	0.04
JUN 30...	258	0.35	210	--	<0.1	--	--	--	0.03	--
JUL 29...	--	--	--	<0.05	--	0.02	0.28	0.3	0.03	0.02
AUG 25...	629	0.85	45.8	<0.05	<0.1	<0.01	--	0.4	0.02	0.02
SEP 09...	--	--	--	<0.05	--	0.02	0.38	0.4	0.02	<0.01

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 15...	1300	<10	<1	37	<0.5	100	<1.0	<1	<3	1
JUN 30...	1145	10	1	29	<0.5	60	<1.0	<1	<3	<1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 15...	5	<1	37	35	<0.1	<1	<1.0	1000	4
JUN 30...	7	<1	18	7	0.2	<1	<1.0	480	3

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
APR 15...	1300	7.1	1.3	6.2	2.7	4.7	2.6	0.52	5.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible][illegible]

YELLOWSTONE RIVER BASIN

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06231930 BALDWIN CREEK BELOW DICKINSON CREEK, AT LANDER, WY

LOCATION.--Lat 42°51'00", long 108°43'25", in NW¼ SW¼ NW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAY					
05...	0830	11	11.0	26	0.77
11...	0945	30	10.0	73	5.9
27...	1600	110	11.0	865	257
AUG					
10...	0840	25	13.0	31	2.1

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

LOCATION.--Lat 42°51'59", long 108°41'04", in NW¼ NE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUN										
03...	1355	405	17.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
30...	1710	510	20.0	0.02	0.01	<0.01	<0.01	<0.01	<0.01	--
AUG										
17...	1140	74	18.5	0.08	0.07	0.02	<0.01	<0.01	<0.01	--
31...	1320	74	15.0	0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06233000 LITTLE POPO AGIE RIVER NEAR LANDER, WY

LOCATION.--Lat 42°43'00", Long 108°38'34", in NE¼ SE¼ 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: May 3, 5-9, 13-19, 21-26, May 31 to June 9, and June 12-15, 22-25. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 540 acres upstream from station. Slight regulation by Christina Lake, capacity, about 3,860 acre-ft.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 27	1800	*184	*3.17	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	25	91	146	93	50	57
2	---	---	---	---	---	---	26	73	145	115	50	57
3	---	---	---	---	---	---	27	64	143	126	47	54
4	---	---	---	---	---	---	31	67	143	105	44	54
5	---	---	---	---	---	---	34	72	140	93	41	59
6	---	---	---	---	---	---	31	78	122	85	39	57
7	---	---	---	---	---	---	28	79	112	80	38	55
8	---	---	---	---	---	---	30	80	104	89	35	53
9	---	---	---	---	---	---	30	100	92	78	34	51
10	---	---	---	---	---	---	34	121	83	69	32	46
11	---	---	---	---	---	---	37	103	81	62	31	41
12	---	---	---	---	---	---	35	78	68	71	29	39
13	---	---	---	---	---	---	40	76	67	96	29	46
14	---	---	---	---	---	---	42	70	70	81	29	40
15	---	---	---	---	---	---	41	72	76	73	45	37
16	---	---	---	---	---	---	45	76	89	64	60	33
17	---	---	---	---	---	---	49	80	83	64	65	31
18	---	---	---	---	---	---	51	82	74	59	65	30
19	---	---	---	---	---	---	44	82	67	58	62	29
20	---	---	---	---	---	---	44	98	69	121	60	30
21	---	---	---	---	---	---	41	109	72	132	62	30
22	---	---	---	---	---	---	42	128	68	113	64	30
23	---	---	---	---	---	---	40	129	68	93	65	29
24	---	---	---	---	---	---	37	127	75	83	62	29
25	---	---	---	---	---	---	38	103	118	74	60	30
26	---	---	---	---	---	---	40	110	125	67	60	30
27	---	---	---	---	---	---	45	175	123	62	59	29
28	---	---	---	---	---	---	53	166	110	56	56	29
29	---	---	---	---	---	---	60	138	103	53	54	31
30	---	---	---	---	---	---	76	135	98	54	54	32
31	---	---	---	---	---	---	---	150	---	53	54	---
TOTAL	---	---	---	---	---	---	1196	3112	2934	2522	1535	1198
MEAN	---	---	---	---	---	---	39.9	100	97.8	81.4	49.5	39.9
MAX	---	---	---	---	---	---	76	175	146	132	65	59
MIN	---	---	---	---	---	---	25	64	67	53	29	29
AC-FT	---	---	---	---	---	---	2370	6170	5820	5000	3040	2380

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

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

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

SUMMARY STATISTICS

	FOR 1992	WATER YEAR*	WATER YEARS 1946 - 1971
ANNUAL MEAN	--		80.4
HIGHEST ANNUAL MEAN	--		131
LOWEST ANNUAL MEAN	--		37.0
HIGHEST DAILY MEAN	175	May 27	1590
LOWEST DAILY MEAN	25	Apr 1	12
			Jan 20, 21, Feb 26
			to Mar 2 1960,
			Jan 10, 11, 18, 19 1963#
ANNUAL SEVEN-DAY MINIMUM	--		12
INSTANTANEOUS PEAK FLOW	184	May 27	2010
INSTANTANEOUS PEAK STAGE	3.17	May 27	6.64
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 1992.

YELLOWSTONE RIVER BASIN
06233900 POPO AGIE RIVER NEAR ARAPAHOE, WY

LOCATION.--Lat 42°56'47", long 108°30'34", in NE¼ NE¼ SW¼ sec.27, T.1 S., R.3 E., Fremont County, Hydrologic Unit 10080003, Wind River Indian Reservation, on left bank 1.4 mi southwest of Arapahoe School and 3.0 mi upstream from Little Wind River.

DRAINAGE AREA.--796 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 4,995.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 28, Oct. 31 to Nov. 8, Nov. 17-19, and Nov. 23 to Mar. 4. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 36,900 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 26	0700	*1,120	*5.86	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	140	90	105	130	190	133	268	676	495	161	105
2	141	120	100	105	130	200	126	237	573	693	141	112
3	131	110	110	110	140	200	131	196	500	685	128	100
4	136	110	120	115	140	200	132	178	493	556	113	93
5	144	130	130	110	130	190	141	170	453	457	97	101
6	143	170	150	110	130	235	143	161	450	397	77	112
7	142	250	160	110	130	174	138	181	402	357	72	119
8	130	230	160	115	140	155	132	191	331	480	72	115
9	130	214	150	120	150	150	131	215	291	399	72	112
10	127	197	140	115	160	140	139	358	262	329	54	107
11	127	191	130	110	170	140	151	275	256	295	38	100
12	116	176	130	105	170	153	147	175	267	307	35	94
13	112	175	130	100	170	174	158	119	278	458	30	101
14	113	179	140	95	170	158	171	104	255	394	29	131
15	115	199	150	90	160	148	178	110	367	303	28	129
16	116	170	160	100	160	144	190	128	440	263	29	113
17	109	150	160	100	160	142	197	143	335	260	196	101
18	102	170	150	100	150	147	218	138	286	245	105	96
19	102	180	140	95	150	154	197	171	269	222	96	106
20	110	175	130	95	150	140	176	238	322	357	79	92
21	112	215	120	100	150	138	166	428	361	594	77	81
22	111	171	110	110	140	140	170	565	337	623	84	73
23	117	160	100	120	140	131	172	534	315	469	81	70
24	131	150	95	130	150	134	158	444	317	384	73	66
25	123	150	100	140	150	132	144	526	566	338	74	50
26	130	160	100	140	160	126	145	580	859	333	83	53
27	133	160	100	130	170	125	155	767	679	299	87	67
28	140	140	100	140	180	126	172	944	570	255	85	62
29	145	130	100	150	190	128	205	771	498	229	88	55
30	153	110	100	150	---	129	239	695	450	208	84	57
31	150	---	105	140	---	131	---	679	---	179	90	---
TOTAL	3939	4982	3860	3555	4420	4774	4855	10689	12458	11863	2558	2773
MEAN	127	166	125	115	152	154	162	345	415	383	82.5	92.4
MAX	153	250	160	150	190	235	239	944	859	693	196	131
MIN	102	110	90	90	130	125	126	104	255	179	28	50
AC-FT	7810	9880	7660	7050	8770	9470	9630	21200	24710	23530	5070	5500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	187	154	124	110	114	146	232	691	1303	545	167	182	
MAX	383	197	165	155	152	209	470	1292	2920	1176	298	331	
(WY)	1983	1984	1984	1984	1984	1987	1987	1980	1986	1983	1983	1982	
MIN	80.0	116	96.6	88.0	83.9	96.9	101	227	404	91.3	40.3	59.7	
(WY)	1989	1989	1991	1981	1989	1982	1989	1990	1988	1988	1988	1988	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1980 - 1992
ANNUAL TOTAL	145100	70726	--
ANNUAL MEAN	398	193	330
HIGHEST ANNUAL MEAN	--	--	566
LOWEST ANNUAL MEAN	--	--	186
HIGHEST DAILY MEAN	4370	944	4370
LOWEST DAILY MEAN	76	28	17
ANNUAL SEVEN-DAY MINIMUM	84	35	25
INSTANTANEOUS PEAK FLOW	--	1120	4600a
INSTANTANEOUS PEAK STAGE	--	5.86	9.93
ANNUAL RUNOFF (AC-FT)	287800	140300	238800
10 PERCENT EXCEEDS	1170	398	732
50 PERCENT EXCEEDS	140	142	158
90 PERCENT EXCEEDS	96	93	92

a Gage height, 9.91 ft.

YELLOWSTONE RIVER BASIN

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06233900 POPO AGIE RIVER NEAR ARAPAHOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 10...	1110	125	900	10.5	400	99	37	57	1	2.3
DEC 23...	1125	100	890	0.0	360	90	34	52	1	2.3
MAR 10...	1505	145	1100	6.0	430	96	45	84	2	2.9
APR 28...	1205	155	610	16.0	240	57	24	33	0.9	1.9
JUN 29...	1610	512	435	22.0	170	42	16	23	0.8	1.5
AUG 26...	1100	90	970	15.0	420	98	42	68	1	3.5

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 10...	190	310	5.5	0.4	5.6	631	0.86	213	<0.1	0.03
DEC 23...	190	280	6.0	0.4	8.8	589	0.80	159	0.3	<0.03
MAR 10...	190	380	7.7	0.3	8.7	742	1.01	291	0.8	0.10
APR 28...	130	170	3.9	0.3	7.0	375	0.51	157	<0.1	0.03
JUN 29...	99	110	2.0	0.2	7.7	262	0.36	362	<0.1	0.04
AUG 26...	210	320	6.6	0.4	8.7	673	0.92	164	<0.1	<0.03

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	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)	COBALT, DIS- SOLVED (UG/L AS CO)
MAY 27...	1410	825	10	<1	29	<0.5	60	<1.0	<1	<3

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 27...	<1	31	<1	23	50	<0.1	<1	<1.0	450	12

YELLOWSTONE RIVER BASIN

06233900 POPO AGIE RIVER NEAR ARAPAHOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 27...	1410	825	3.3	22	4.1	11	3.1	10	0.13	2.5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CHLOR- DYRIFOS TOTAL RECOVER (UG/L)	DEF TOTAL (UG/L)
MAY 27...	1410	825	0.04	0.06	0.07	<0.01	<0.01	<0.01	--	--
JUN 29...	1610	512	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 29...	1200	232	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	--	--
AUG 26...	1100	90	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 09...	1030	107	0.10	<0.01	0.23	<0.01	<0.01	<0.01	--	--

[illegible]

YELLOWSTONE RIVER BASIN

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06235000 BEAVER CREEK NEAR ARAPAHOE, WY

LOCATION.--Lat 42°57'16", long 108°25'39", in NW¼ NE¼ sec.29, T.1 S., R.4 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, at former gaging station, 1.0 mi upstream from mouth, and 3.8 mi east of Arapahoe.

DRAINAGE AREA.--354 mi².

PERIOD OF RECORD.--Water years 1950-53, 1968-81, October 1984 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 29...	1150	3.1	21.0	2470	16	120	21	56	15	50	0.32	11

YELLOWSTONE RIVER BASIN
06235500 LITTLE WIND RIVER NEAR RIVERTON, WY

LOCATION.--Lat 42°59'51", long 108°22'29", in NE¼ NW¼ sec.11, T.1 S., R.4 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 1.8 mi upstream from mouth and 1.9 mi southeast of Riverton.

DRAINAGE AREA.--1,904 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1941 to current year. Prior to October 1958, published as Popo Agie River near Riverton.

REVISED RECORDS.--WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,901.84 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 19, 1956, at site 600 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 12, Nov. 18-20, and Nov. 23 to Mar. 9. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 62,900 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 28	1715	*1,820	*5.25	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	230	220	180	200	330	213	293	1210	805	237	162
2	258	220	210	180	200	340	210	293	1000	1300	214	177
3	258	200	210	190	210	340	210	254	782	1400	201	173
4	244	190	230	200	230	330	208	238	673	1140	192	160
5	244	240	250	190	230	340	216	231	593	919	175	156
6	247	390	280	190	220	370	216	215	655	756	157	169
7	243	430	310	190	220	320	216	223	600	618	147	176
8	233	410	350	200	230	300	215	255	486	726	140	178
9	224	390	330	200	240	290	214	276	378	700	145	179
10	219	360	310	210	260	269	212	432	346	585	147	176
11	215	340	270	200	270	266	222	428	333	507	131	167
12	204	320	240	190	270	275	226	287	319	495	119	157
13	197	320	240	190	270	292	229	198	327	706	111	157
14	191	317	250	180	270	277	243	153	313	719	111	179
15	197	328	260	170	260	260	265	137	431	562	124	186
16	196	312	290	180	250	253	267	139	910	443	126	177
17	185	278	280	180	240	251	283	163	636	394	237	159
18	179	290	260	180	240	257	288	142	493	387	234	153
19	177	290	240	190	240	271	296	145	419	349	198	158
20	182	280	230	200	240	261	272	176	612	409	169	156
21	186	329	210	190	240	251	264	343	531	920	157	152
22	189	291	200	200	230	252	260	541	478	1280	152	144
23	192	300	190	210	230	236	265	696	431	1000	153	141
24	224	310	180	220	240	240	256	609	406	760	158	135
25	233	330	170	230	250	242	241	671	827	646	146	133
26	221	320	180	230	260	228	234	809	1420	692	146	127
27	224	270	180	220	300	219	235	1000	1170	552	152	136
28	240	250	170	230	310	214	234	1630	1020	446	146	140
29	260	240	170	230	310	214	219	1430	904	385	144	132
30	240	230	170	220	---	212	243	1210	795	336	138	134
31	230	---	180	210	---	212	---	1210	---	286	142	---
TOTAL	6758	9005	7260	6180	7160	8412	7172	14827	19498	21223	4949	4729
MEAN	218	300	234	199	247	271	239	478	650	685	160	158
MAX	260	430	350	230	310	370	296	1630	1420	1400	237	186
MIN	177	190	170	170	200	212	208	137	313	286	111	127
AC-FT	13400	17860	14400	12260	14200	16690	14230	29410	38670	42100	9820	9380

YELLOWSTONE RIVER BASIN
06235500 LITTLE WIND RIVER NEAR RIVERTON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	324	280	212	185	211	263	367	1108	2397	984	261	264
MAX	728	501	351	302	728	427	1044	2351	5109	2832	699	1323
(WY)	1983	1974	1974	1974	1962	1974	1973	1958	1983	1967	1965	1973
MIN	115	174	129	95.0	123	181	148	242	288	117	58.4	82.8
(WY)	1989	1989	1959	1961	1959	1989	1989	1960	1977	1961	1960	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1941 - 1992		
ANNUAL TOTAL	269415			117173			--		
ANNUAL MEAN	738			320			572		
HIGHEST ANNUAL MEAN	--			--			1021		
LOWEST ANNUAL MEAN	--			--			236		
HIGHEST DAILY MEAN	8820	Jun 14		1630	May 28		12800	Jun 17	1963
LOWEST DAILY MEAN	120	Jan 1		111	Aug 13, 14		41	Aug 7	1960
ANNUAL SEVEN-DAY MINIMUM	134	Aug 23		124	Aug 10		46	Aug 5	1960
INSTANTANEOUS PEAK FLOW	--			1820			14700		
INSTANTANEOUS PEAK STAGE	--			5.25			10.85		
ANNUAL RUNOFF (AC-FT)	534400			232400	May 28		414700	Jun 17	1963
10 PERCENT EXCEEDS	2040			639			1440		
50 PERCENT EXCEEDS	250			240			262		
90 PERCENT EXCEEDS	159			156			145		

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	COLI-FORM, SOLVED, 0.7 UM-MF (COLS./100 ML)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY												
12...	1430	269	560	8.6	19.0	632	8.2	107	78	<1	89	65
28...	1525	1690	560	8.1	15.0	630	7.2	87	1000	1	940	4290
JUL												
22...	1020	1280	500	8.1	22.0	636	7.4	102	K2600	<1	1100	3800
AUG												
25...	1000	142	980	8.4	13.0	640	9.8	111	70	<1	130	50

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
MAY										
12...	1430	269	4.2	4.2	5.7	3.3	4.2	3.1	0.19	4.1

YELLOWSTONE RIVER BASIN
06236100 WIND RIVER ABOVE BOYSEN RESERVOIR, NEAR SHOSHONI, WY

LOCATION.--Lat 43°07'45", long 108°13'24", in SE¼ SE¼ SE¼ sec.24, T.2 N., R.5 E., Fremont County, Hydrologic Unit 10080001, on left bank 5.3 mi upstream from Boysen Reservoir and 9.4 mi southwest of Shoshoni.
DRAINAGE AREA.--4,390 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 4,775 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 2 and Nov. 7 to Mar. 7. Records good except those for estimated daily discharges, which are poor. Natural flow affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation of about 191,000 acres upstream from station. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	626	440	370	500	640	800	396	404	1390	2090	438	397
2	657	340	420	540	660	820	393	443	1210	2250	363	441
3	682	309	500	560	660	820	384	374	1020	2440	340	432
4	670	379	560	560	660	820	371	327	918	2230	403	466
5	670	665	640	540	660	840	367	296	880	1810	337	387
6	652	899	700	540	640	880	368	314	909	1480	297	408
7	660	900	760	560	660	840	358	300	879	1180	263	425
8	631	920	740	580	680	809	358	417	778	1000	247	433
9	593	880	720	600	700	735	376	387	653	965	296	425
10	589	860	700	580	720	687	427	582	590	830	312	325
11	597	820	660	580	740	657	351	666	542	765	259	300
12	592	720	640	560	760	619	354	538	518	766	249	320
13	574	700	640	540	760	533	351	549	538	885	259	347
14	566	720	640	500	760	510	360	381	585	973	268	364
15	535	760	620	490	760	475	387	320	746	837	306	383
16	507	720	600	520	740	448	384	292	1490	700	317	357
17	501	620	580	520	720	431	399	272	1220	622	441	340
18	490	640	560	500	700	458	422	279	947	598	562	337
19	495	680	510	500	700	473	576	255	953	545	453	346
20	505	660	540	500	680	447	535	403	1230	549	407	343
21	574	660	500	540	680	434	416	478	1200	1510	372	322
22	550	620	480	560	680	423	410	698	1200	1880	374	314
23	550	560	480	580	660	399	537	932	1860	1630	376	316
24	560	520	470	600	660	393	421	816	1960	1310	394	315
25	558	560	470	620	680	454	392	822	2260	1200	393	307
26	535	640	490	600	700	463	368	972	3260	1330	392	316
27	534	700	500	600	720	456	358	1140	3340	1080	385	334
28	561	680	480	600	740	418	331	1710	3080	910	373	350
29	582	600	480	620	760	410	390	1710	2770	740	362	345
30	530	460	480	640	---	404	406	1480	2530	571	363	346
31	520	---	490	620	---	402	---	1410	---	481	371	---
TOTAL	17846	19632	17420	17350	20280	17758	11946	19967	41456	36157	10972	10841
MEAN	576	654	562	560	699	573	398	644	1382	1166	354	361
MAX	682	920	760	640	760	880	576	1710	3340	2440	562	466
MIN	490	309	370	490	640	393	331	255	518	481	247	300
AC-FT	35400	38940	34550	34410	40230	35220	23690	39600	82230	71720	21760	21500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1991	1992	1992	1991	1991	1991	1991	1990	1991
MEAN	679	747	513	562	640	565	483	1534	4185	1197	522	559
MAX	783	840	562	565	699	573	568	3445	9354	1344	619	681
(WY)	1991	1991	1992	1991	1992	1992	1991	1991	1991	1991	1990	1991
MIN	576	654	464	560	579	557	398	513	1382	1082	354	361
(WY)	1992	1992	1991	1992	1991	1991	1992	1990	1992	1990	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	590877	241625	--
ANNUAL MEAN	1619	660	1151
HIGHEST ANNUAL MEAN	--	--	1643
LOWEST ANNUAL MEAN	--	--	660
HIGHEST DAILY MEAN	17900	3340	17900
LOWEST DAILY MEAN	309	247	247
ANNUAL SEVEN-DAY MINIMUM	381	269	269
INSTANTANEOUS PEAK FLOW	--	4050	18700
INSTANTANEOUS PEAK STAGE	--	5.42	9.31
ANNUAL RUNOFF (AC-FT)	1172000	479300	833900
10 PERCENT EXCEEDS	4440	981	1710
50 PERCENT EXCEEDS	630	560	620
90 PERCENT EXCEEDS	476	340	381

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April to July 1991.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUN							
23...	1210	1910	390	22.0	<1	--	--
JUL							
16...	1400	704	--	22.0	--	179	340
23...	1400	1620	--	21.0	--	533	2330
30...	1455	574	560	21.0	<1	108	167
AUG							
13...	1220	269	--	21.0	--	26	19
31...	1630	366	680	18.0	<1	57	56
SEP							
22...	1210	331	--	13.0	--	61	55

[illegible][illegible]

YELLOWSTONE RIVER BASIN
06244500 FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WY

LOCATION.--Lat 43°18'05", long 108°42'08", in SE¼ SW¼ SE¼ sec.24, T.4 N., R.1 E., Fremont County, Hydrologic Unit 10080005, on left bank 1,700 ft upstream from Wyoming Canal siphon and 4.0 mi north of Pavillion.
DRAINAGE AREA.--118 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above National Geodetic Vertical Datum of 1929, from topographic map. Aug. 27, 1948, to Mar. 28, 1950, at site 0.2 mi downstream at different datum. Mar. 29, 1950, to Apr. 23, 1974, at site 325 ft downstream at present datum. Apr. 24, 1974, to September 30, 1975, at site 25 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 7, Nov. 25 to Feb. 1, Feb. 6-9, 16, 17, 21-29, and Mar 1-5.

Records good except those for estimated daily discharges, which are poor. Flow regulated by reservoir system approximately 10.5 mi upstream. Diversions for irrigation of about 320 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.0	5.0	3.8	5.0	13	6.3	5.5	13	14	3.6	4.9
2	4.3	3.4	6.2	3.8	5.1	13	6.5	5.1	19	17	3.7	4.7
3	4.2	3.0	6.6	4.0	5.0	13	6.9	5.1	31	21	3.6	3.8
4	4.5	8.0	7.0	4.0	4.9	12	6.7	5.2	12	27	3.7	3.9
5	4.7	16	7.6	4.0	4.8	12	6.8	4.8	12	12	3.4	3.9
6	4.8	19	8.0	4.0	4.7	9.3	6.8	4.2	13	8.1	3.4	4.3
7	5.1	15	8.0	4.2	4.7	7.3	6.4	4.1	12	6.6	2.9	4.5
8	4.7	13	7.6	4.0	4.6	6.4	6.8	4.4	9.6	5.5	2.5	4.5
9	4.1	12	7.00	4.0	4.7	6.2	7.0	5.4	9.5	4.5	2.0	4.5
10	4.1	13	6.4	4.0	4.8	5.9	7.1	5.3	9.6	4.3	1.9	4.4
11	4.1	12	6.0	4.0	4.9	6.0	7.0	4.6	14	4.1	1.7	4.1
12	4.3	12	5.8	4.6	4.7	6.4	6.8	4.3	11	8.9	1.5	4.1
13	4.6	13	6.0	4.0	5.0	6.1	6.9	4.5	8.0	20	1.6	3.9
14	4.2	12	6.0	4.2	4.8	5.7	6.9	4.3	7.3	13	1.7	3.7
15	4.3	11	5.4	3.4	4.6	5.7	7.1	4.5	58	6.5	1.9	3.6
16	4.4	11	5.0	4.8	4.6	5.7	7.1	4.7	52	4.5	5.5	2.7
17	4.2	9.6	4.8	4.4	4.7	5.7	7.0	4.5	60	3.6	14	6.1
18	3.9	10	4.4	4.2	4.8	6.0	6.6	4.1	56	3.6	21	4.9
19	4.2	10	4.8	4.4	5.3	6.0	6.7	3.5	27	4.3	34	4.3
20	4.2	11	4.4	4.2	5.4	5.8	6.4	3.3	16	7.6	11	4.1
21	4.9	10	4.0	4.2	5.0	5.9	6.4	4.4	14	34	7.7	4.1
22	4.7	9.9	3.7	5.0	5.0	5.5	6.3	7.0	10	38	6.6	4.3
23	4.2	9.5	3.8	6.2	4.8	5.8	6.2	6.1	8.0	19	6.1	4.5
24	4.2	9.3	3.8	6.6	6.0	6.1	6.0	5.5	7.0	9.4	5.5	4.7
25	4.3	8.6	3.8	6.0	7.0	5.8	5.9	5.9	17	7.9	5.3	4.7
26	4.6	9.0	3.8	5.6	11	5.8	6.2	5.9	98	6.5	6.2	4.8
27	4.4	8.6	3.8	5.4	15	5.9	6.4	7.6	26	5.4	5.6	4.7
28	4.0	8.2	3.8	5.6	14	6.0	6.1	8.5	48	4.1	4.5	4.5
29	3.8	7.8	3.8	6.0	13	6.4	5.8	7.2	27	3.8	4.1	4.7
30	4.6	7.0	3.8	6.2	---	6.4	6.0	10	18	3.7	4.1	5.2
31	4.8	---	4.0	6.8	---	6.2	---	15	---	3.5	4.3	---
TOTAL	135.9	305.9	164.10	145.6	177.9	223.0	197.1	174.5	723.0	331.4	184.6	131.1
MEAN	4.38	10.2	5.29	4.70	6.13	7.19	6.57	5.63	24.1	10.7	5.95	4.37
MAX	5.1	19	8.0	6.8	15	13	7.1	15	98	38	34	6.1
MIN	3.8	3.0	3.7	3.4	4.6	5.5	5.8	3.3	7.0	3.5	1.5	2.7
AC-FT	270	607	325	289	353	442	391	346	1430	657	366	260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)												
MEAN	2.17	2.59	1.47	1.42	3.05	4.71	4.03	4.96	5.86	1.70	.78	2.58
MAX	5.52	10.2	5.29	4.70	10.6	11.7	8.07	53.4	48.8	11.5	5.95	14.5
(WY)	1972	1992	1992	1992	1991	1989	1991	1991	1991	1973	1992	1973
MIN	.000	.000	.000	.000	.000	.27	.097	.38	.043	.000	.000	.000
(WY)	1955	1955	1953	1951	1956	1954	1954	1955	1952	1956	1954	1952

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1950 - 1992	
ANNUAL TOTAL	4798.94		2894.10		--	
ANNUAL MEAN	13.1		7.91		2.93	
HIGHEST ANNUAL MEAN	--		--		12.4	
LOWEST ANNUAL MEAN	--		--		.25	
HIGHEST DAILY MEAN	130	May 18	98	Jun 26	273	Sep 20 1950
LOWEST DAILY MEAN	.10	Sep 4	1.5	Aug 12	.00	Several days, most years
ANNUAL SEVEN-DAY MINIMUM	.26	Aug 31	1.8	Aug 9	.00	Several days, most years
INSTANTANEOUS PEAK FLOW	--		243	Jun 25	1750a	Sep 6 1951
INSTANTANEOUS PEAK STAGE	--		4.57	Jun 25	5.60b	Sep 6 1951
ANNUAL RUNOFF (AC-FT)	9520		5740		2130	
10 PERCENT EXCEEDS	15		13		6.3	
50 PERCENT EXCEEDS	6.0		5.5		1.4	
90 PERCENT EXCEEDS	.80		3.8		.00	

a From rating curve extended above 350 ft³/s.
b From floodmarks.

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-58, 1961-75, October 1987 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 08...	1320	5.4	3200	8.0	1500	400	130	270	3	11
NOV 07...	1445	16	3100	1.0	1300	380	95	230	3	11
JAN 31...	1250	6.6	3200	0.0	1500	420	110	230	3	12
MAR 05...	1350	12	2640	3.0	1200	340	96	200	2	10
MAY 27...	1230	7.5	3100	13.0	1500	390	130	280	3	12
JUN 15...	1050	74	911	9.0	340	100	22	87	2	6.1
JUL 30...	0810	4.0	3200	12.0	1500	410	120	280	3	12
SEP 10...	1445	4.6	3220	17.0	1600	410	130	280	3	12

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 08...	180	1900	56	1.0	11	2890	3.93	42.1	<0.1	0.05
NOV 07...	210	1700	51	1.1	8.7	2600	3.54	112	<0.1	<0.03
JAN 31...	100	1600	52	1.4	12	2500	3.40	44.5	<0.1	<0.03
MAR 05...	210	1300	44	1.3	8.8	2130	2.89	68.9	<0.1	0.04
MAY 27...	160	1800	56	1.2	9.3	2770	3.77	56.2	<0.1	<0.03
JUN 15...	120	410	11	0.6	5.5	721	0.98	144	1.0	<0.03
JUL 30...	170	1900	56	1.2	11	2900	3.95	31.3	<0.1	<0.03
SEP 10...	170	1900	56	1.2	11	2900	3.95	36.0	<0.1	<0.03

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
JUN 15...	1050	10	<1	98	<0.5	130	<1.0	<1	<3	2
JUL 30...	0810	30	<1	43	<2	610	<3.0	<1	<9	2

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
JUN 15...	<3	<1	53	<1	0.1	<1	<1.0	2000	6
JUL 30...	19	<20	230	37	0.3	1	<3.0	9100	<9

[illegible][illegible]

YELLOWSTONE RIVER BASIN
06253000 FIVEMILE CREEK NEAR SHOSHONI, WY

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

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

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

REVISED RECORDS.--WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 10, 1941 to Sept. 30, 1942, nonrecording gage at site 1.0 mi downstream at different datum. Aug. 28, 1948 to Sept. 30, 1983, at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 5 and Nov. 23 to Feb. 27. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation from reservoir system in the headwaters, diversions for irrigation, and return flow from irrigated areas.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	110	40	30	36	60	70	147	209	273	250	267
2	287	110	43	30	36	62	69	162	223	289	254	257
3	285	100	45	30	36	62	69	174	208	293	259	253
4	282	100	48	30	36	63	69	161	194	305	264	257
5	293	110	50	32	36	64	69	183	184	312	287	258
6	296	110	54	32	36	69	68	209	180	277	294	245
7	304	122	56	36	36	68	67	205	190	272	280	244
8	321	123	52	36	36	67	67	192	190	269	270	248
9	295	124	46	32	36	64	66	202	183	264	268	255
10	266	122	48	30	36	63	66	275	195	270	275	256
11	254	122	46	30	40	63	113	270	196	261	266	271
12	200	120	48	28	40	64	146	260	210	282	273	272
13	177	120	46	28	40	64	114	259	209	311	282	275
14	161	119	46	28	44	64	111	267	215	279	273	277
15	157	120	44	26	46	64	112	311	265	267	270	277
16	156	119	42	28	48	64	100	300	366	253	281	283
17	156	116	42	28	50	66	102	269	329	240	316	284
18	152	116	42	28	50	70	100	263	310	242	311	289
19	145	113	42	30	52	73	104	234	304	242	328	284
20	143	112	42	30	58	72	109	246	299	265	348	237
21	143	114	40	30	58	70	135	240	277	384	336	215
22	143	109	36	30	58	70	134	234	268	382	302	227
23	143	100	34	30	58	70	133	214	211	357	292	226
24	143	96	32	30	58	71	152	229	199	317	313	232
25	143	94	30	30	58	70	168	210	203	294	296	222
26	139	92	30	32	62	71	153	201	261	309	264	215
27	136	90	30	32	58	71	142	205	272	295	255	226
28	135	86	30	32	59	71	151	209	274	284	248	224
29	132	80	30	32	59	70	169	233	276	271	242	238
30	129	60	30	32	---	71	168	220	277	261	246	258
31	120	---	30	32	---	72	---	212	---	255	260	---
TOTAL	6121	3229	1274	944	1356	2083	3296	6996	7177	8875	8703	7572
MEAN	197	108	41.1	30.5	46.8	67.2	110	226	239	286	281	252
MAX	321	124	56	36	62	73	169	311	366	384	348	289
MIN	120	60	30	26	36	60	66	147	180	240	242	215
AC-FT	12140	6400	2530	1870	2690	4130	6540	13880	14240	17600	17260	15020

YELLOWSTONE RIVER BASIN
06253000 FIVEMILE CREEK NEAR SHOSHONI, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)												
MEAN	135	74.5	55.0	46.4	46.2	51.2	76.3	171	271	329	333	279
MAX	214	120	89.7	75.0	79.5	87.2	178	265	442	524	525	451
(WY)	1983	1970	1956	1959	1959	1963	1990	1983	1976	1983	1983	1982
MIN	18.0	14.8	8.25	2.60	6.24	17.8	12.7	28.1	97.4	141	139	88.4
(WY)	1942	1942	1942	1942	1942	1942	1942	1942	1941	1977	1977	1941

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1941 - 1992	
ANNUAL TOTAL	61631		57626		--	
ANNUAL MEAN	169		157		158	
HIGHEST ANNUAL MEAN	--		--		229	
LOWEST ANNUAL MEAN	--		--		54.8	
HIGHEST DAILY MEAN	501	Jul 25	384	Jul 21	964	Sep 11 1973
LOWEST DAILY MEAN	30	Dec 25	26	Jan 15	1.0	Jan 4-6 1942
ANNUAL SEVEN-DAY MINIMUM	30	Dec 25	28	Jan 12	1.4	Jan 1 1942
INSTANTANEOUS PEAK FLOW	--		456a	Jun 16	3390b	Jun 15 1962
INSTANTANEOUS PEAK STAGE	--		4.74c	Jan 15	9.61c	Dec 27 1954
ANNUAL RUNOFF (AC-FT)	122200		114300		114300	
10 PERCENT EXCEEDS	334		287		354	
50 PERCENT EXCEEDS	120		143		96	
90 PERCENT EXCEEDS	45		32		38	

a Gage height, 3.70 ft.

b Gage height, 7.85 ft.

c Backwater from ice.

YELLOWSTONE RIVER BASIN

06257500 MUDDY CREEK NEAR PAVILLION, WY

LOCATION.--Lat 43°21'46, long 108°36'08", in NW¼SE¼ sec.35, T.5 N., R.2 E., Fremont County, Hydrologic Unit 10080005, 600 ft upstream from Wyoming Canal siphon, 4.1 mi downstream from Sheep Creek, and 9.2 mi northeast of Pavillion.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--Water years 1949-58, 1961-73, October 1988 to September 1992 (discontinued).

REMARKS.--No flow observed Jan. 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 08...	1200	0.11	3100	1.5	1400	280	160	280	3	6.1
JAN 31...	1400	0.0	--	--	--	--	--	--	--	--
FEB 27...	1630	4.5	1700	0.5	710	150	82	120	2	5.2
MAY 27...	1445	0.06	3300	12.0	1500	270	190	310	4	6.9
JUN 16...	1230	135	1000	9.0	380	100	31	79	2	7.3
JUL 30...	1045	0.51	2100	17.0	930	190	110	180	3	6.8
SEP 10...	1145	E0.01	3550	22.0	1600	300	210	350	4	6.8

E-Estimate.

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
NOV 08...	370	1600	33	0.9	9.2	2590	3.53	0.77	0.3	<0.03
JAN 31...	--	--	--	--	--	--	--	--	--	--
FEB 27...	240	670	11	0.7	7.7	1190	1.62	14.5	<0.1	0.04
MAY 27...	360	1600	32	1.0	8.8	2640	3.58	0.43	0.3	<0.03
JUN 16...	99	450	7.6	0.4	6.0	748	1.02	273	1.1	<0.03
JUL 30...	270	930	20	0.9	7.1	1610	2.19	2.21	<0.1	<0.03
SEP 10...	400	1900	35	1.2	11	3050	4.15	E0.08	<0.1	<0.03

E-Estimate.

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06257500 MUDDY CREEK NEAR PAVILLION, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

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

GAGE.--Water-stage recorder. Datum of gage

regulated by Boysen Reservoir (station 06258900) since October 1951. Natural flow also affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation of about 196,000 acres upstream from station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	1020	1170	1440	1420	778	611	889	1050	1050	897	907
2	1300	1010	1170	1440	1420	779	601	888	1020	982	906	912
3	1260	1010	1160	1450	1420	779	605	898	1010	898	900	911
4	1240	1010	1160	1440	1420	783	602	952	1000	905	901	908
5	1250	1010	1160	1440	1420	738	602	1010	994	905	909	899
6	1240	1010	1280	1430	1420	644	603	1060	1000	899	890	908
7	1250	996	1460	1430	1420	609	601	1100	1000	949	884	921
8	1260	996	1450	1420	1420	614	605	1200	1040	946	881	849
9	1250	997	1450	1430	1430	601	601	1330	1100	928	876	785
10	1250	991	1450	1440	1430	599	600	1330	1050	955	902	770
11	1250	989	1450	1440	1310	603	598	1260	999	995	926	771
12	1250	986	1440	1440	1060	613	596	1200	1060	987	959	768
13	1250	990	1440	1420	858	604	672	1190	1090	946	992	768
14	1240	993	1440	1430	772	604	713	1190	1090	932	968	744
15	1240	988	1440	1410	770	606	728	1200	1010	911	974	698
16	1240	985	1450	1420	770	608	785	1230	846	921	977	688
17	1240	977	1440	1410	774	611	788	1230	828	906	976	693
18	1230	985	1470	1410	772	608	786	1230	824	923	936	686
19	1230	1040	1460	1420	771	598	790	1210	832	965	909	693
20	1250	1140	1460	1430	773	600	787	1140	825	965	917	694
21	1230	1140	1450	1430	772	599	780	1090	860	962	920	690
22	1240	1150	1450	1430	772	591	790	1090	827	919	925	697
23	1230	1140	1450	1430	775	599	791	1090	878	918	918	687
24	1230	1150	1460	1430	769	611	788	1090	950	906	886	685
25	1230	1140	1460	1430	780	608	784	1100	981	906	870	684
26	1230	1150	1460	1430	778	611	784	1160	1030	919	870	686
27	1260	1150	1460	1430	777	612	784	1180	1060	922	876	684
28	1260	1150	1460	1430	777	613	788	1120	1060	913	865	679
29	1260	1150	1440	1420	778	613	848	1110	1050	914	847	688
30	1260	1160	1440	1410	---	613	887	1110	1050	917	854	677
31	1060	---	1440	1420	---	615	---	1110	---	906	879	---
TOTAL	38550	31603	43370	44280	29828	19664	21298	34987	29414	28970	28190	22830
MEAN	1244	1053	1399	1428	1029	634	710	1129	980	935	909	761
MAX	1340	1160	1470	1450	1430	783	887	1330	1100	1050	992	921
MIN	1060	977	1160	1410	769	591	596	888	824	898	847	677
AC-FT	76460	62680	86020	87830	59160	39000	42240	694				

MEAN	1226	1229	1217	1144	1105	1140	1251	1404	2195	2409	1465	1284
MAX	2846	2086	2005	2208	2202	2027	2236	2359	7252	8816	2317	2502
(WY)	1983	1959	1959	1958	1958	1974	1974	1984	1991	1967	1965	1973
MIN	332	306	301	299	210	213	389	777	980	935	909	732
(WY)	1961	1978	1989	1989	1952	1952	1952	1952	1992	1992	1992	1988

WATER YEARS 1951 - 1992

	1961-1962 WATER YEAR		1962-1963 WATER YEAR		1963-1964 WATER YEAR		1964-1965 WATER YEAR	
ANNUAL TOTAL	644498		372984		--		--	
ANNUAL MEAN	1766		1019		1410			
HIGHEST ANNUAL MEAN	--		--		2349			1983
LOWEST ANNUAL MEAN	--		--		612			1961
HIGHEST DAILY MEAN	11100	Jun 16	1470	Dec 18	13200		Jul 7	1967
LOWEST DAILY MEAN	588	Mar 12	591	Mar 22	4.7		Apr 3	1962
ANNUAL SEVEN-DAY MINIMUM	590	Mar 12	601	Apr 6	106		Oct 12	1951
INSTANTANEOUS PEAK FLOW	--		1490	Dec 19	13500		Jul 7	1967
INSTANTANEOUS PEAK STAGE	--		5.18	Dec 19	13.35		Jul 7	1967
ANNUAL RUNOFF (AC-FT)	1278000		739800		1021000			
10 PERCENT EXCEEDS	2930		1430		2110			
50 PERCENT EXCEEDS	1250		985		1190			
90 PERCENT EXCEEDS	618		615		696			

YELLOWSTONE RIVER BASIN

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06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1961 to September 1992 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1953 to September 1954, December 1960 to September 1981.

WATER TEMPERATURES: December 1953 to September 1954, December 1960 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT 03...	1235	1310	520	16.0	170	46	13	47	2	10
DEC 19...	1115	1470	575	2.0	180	49	15	53	2	9.7
FEB 28...	1300	779	585	4.0	210	56	16	55	2	11
APR 30...	1100	832	578	11.0	230	62	18	61	2	9.9
JUN 08...	1300	1100	660	15.5	220	60	18	61	2	8.7
AUG 31...	1250	938	710	19.0	230	60	19	66	2	12

DATE	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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 03...	10	2	54	<0.5	60	<1.0	<1	<3	1
DEC 19...	<10	2	55	<0.5	60	<1.0	<1	<3	1
FEB 28...	10	2	57	<0.5	60	<1.0	<1	<3	2
APR 30...	<10	2	59	<0.5	70	<1.0	<1	<3	2
JUN 08...	30	3	60	<0.5	80	<1.0	<1	<3	<1
AUG 31...	20	3	63	<0.5	70	<1.0	<1	<3	1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 03...	11	<1	15	1	0.1	<1	<1.0	440	<3
DEC 19...	9	<1	16	3	<0.1	<1	<1.0	490	10
FEB 28...	11	<1	20	2	<0.1	<1	<1.0	550	9
APR 30...	18	<1	18	5	<0.1	<1	<1.0	580	18
JUN 08...	12	200	24	2	<0.1	<1	<1.0	590	10
AUG 31...	5	<1	21	89	0.3	<1	<1.0	620	17

YELLOWSTONE RIVER BASIN
06260000 SOUTH FORK OWL CREEK NEAR ANCHOR, WY

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

DRAINAGE AREA.--85.5 mi².

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

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

GAGE.--Water-stage recorder and concrete flume. Datum of gage is 6,453.11 ft above National Geodetic Vertical Datum of 1929. See WSP 1916 for history of changes prior to Aug. 11, 1965. Aug. 11, 1965, to Nov. 3, 1968, at present site and datum. Nov. 4, 1968, to June 5, 1970, at site 0.7 mi upstream on left bank at datum 51.36 ft higher. June 6, 1970, to Sept. 30, 1972, at site 0.7 mi upstream on right bank at datum 51.22 ft higher.

Oct. 1, 1972, to June 5, 1978, at site 0.7 mi upstream on left bank at datum 51.36 ft higher.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 15, Nov. 17, 18, Nov. 29 to Dec. 5 and Dec. 21 to Apr. 1. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 27	0500	229	1.75	June 26	0200	*479	*2.83
June 3	0300	263	1.93	July 21	0500	421	2.59

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.6	6.0	5.6	5.6	6.6	7.0	44	152	262	62	27
2	13	6.0	7.0	5.4	5.8	6.8	7.2	20	174	253	57	26
3	13	5.6	7.8	5.9	5.8	6.6	13	23	210	230	54	25
4	13	5.6	8.4	5.8	5.4	6.6	15	38	169	214	50	26
5	13	8.0	9.0	6.4	5.4	6.8	16	57	148	195	47	25
6	14	11	9.8	6.4	5.8	6.2	10	77	115	167	43	24
7	14	11	13	6.0	5.8	6.6	8.3	82	112	142	40	26
8	14	13	11	5.6	6.0	6.6	9.4	83	121	119	38	24
9	14	18	10	5.4	6.4	6.2	9.5	78	128	104	35	23
10	14	21	9.5	5.8	6.6	5.6	12	41	125	95	32	23
11	14	17	8.4	6.0	6.6	6.4	9.6	35	122	89	30	22
12	14	22	8.1	5.8	6.2	7.2	14	32	118	108	27	21
13	14	26	8.1	5.0	6.2	7.8	17	36	100	93	24	21
14	14	23	8.8	4.8	6.0	8.2	14	38	88	81	22	20
15	14	19	9.6	4.8	6.2	8.6	14	50	123	76	21	21
16	13	13	10	4.3	6.2	8.8	13	45	96	71	37	20
17	13	17	11	4.7	5.8	8.6	13	44	108	73	43	19
18	13	20	12	4.1	5.4	8.2	11	60	148	69	30	20
19	13	12	11	4.0	5.4	7.6	10	77	199	109	29	19
20	13	15	12	4.5	5.8	7.2	9.9	92	262	190	26	19
21	13	17	10	4.7	6.2	8.8	12	112	266	231	27	19
22	13	8.2	8.0	4.8	6.0	8.2	12	87	309	165	24	19
23	13	6.9	8.4	5.0	6.0	9.4	8.8	80	307	144	20	18
24	8.8	8.6	8.4	5.2	5.2	10	8.8	92	271	126	18	18
25	11	15	8.4	5.4	5.0	9.0	9.4	119	324	116	18	18
26	14	13	7.4	5.6	5.2	8.0	12	96	363	107	19	17
27	14	12	6.6	5.4	5.8	8.0	24	169	321	95	18	16
28	14	11	5.6	5.6	6.4	8.4	33	123	380	88	26	16
29	13	10	5.4	5.8	6.5	8.0	38	125	356	82	27	15
30	10	8.0	6.0	5.8	---	7.6	58	155	321	75	28	14
31	8.0	---	5.6	5.8	---	7.8	---	168	---	69	27	---
TOTAL	401.8	400.5	270.3	165.4	170.7	236.4	448.9	2378	6036	4038	999	621
MEAN	13.0	13.3	8.72	5.34	5.89	7.63	15.0	76.7	201	130	32.2	20.7
MAX	14	26	13	6.4	6.6	10	58	169	380	262	62	27
MIN	8.0	5.6	5.4	4.0	5.0	5.6	7.0	20	88	69	18	14
AC-FT	797	794	536	328	339	469	890	4720	11970	8010	1980	1230

YELLOWSTONE RIVER BASIN
06260000 SOUTH FORK OWL CREEK NEAR ANCHOR, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

MEAN	11.4	7.04	4.79	3.45	3.24	5.21	15.3	75.6	166	74.1	23.8	15.9
MAX	23.5	13.3	8.72	7.18	6.16	15.4	51.0	184	368	203	57.9	35.8
(WY)	1983	1992	1992	1962	1962	1972	1962	1991	1967	1975	1965	1973
MIN	6.69	3.46	1.17	.077	.19	.32	1.63	24.7	40.0	16.4	8.33	6.69
(WY)	1970	1965	1980	1979	1980	1980	1973	1968	1985	1985	1985	1960

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1959 - 1992

ANNUAL TOTAL	16166.0									--		
ANNUAL MEAN	44.2									33.5		
HIGHEST ANNUAL MEAN	--									62.0		1967
LOWEST ANNUAL MEAN	--									14.2		1985
HIGHEST DAILY MEAN	380	Jun 28								729	Jun 5	1991
LOWEST DAILY MEAN	4.0	Jan 19								.00	Jan 10-17	1979
ANNUAL SEVEN-DAY MINIMUM	4.4	Jan 15								.00	Jan 10	1979
INSTANTANEOUS PEAK FLOW	479	Jun 26								1940a	Jul 25	1941
INSTANTANEOUS PEAK STAGE	2.83	Jun 26								8.73b	Jul 25	1941
ANNUAL RUNOFF (AC-FT)	32070									24280		
10 PERCENT EXCEEDS	124									99		
50 PERCENT EXCEEDS	14									10		
90 PERCENT EXCEEDS	5.8									2.4		

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

b Site and datum then in use.

YELLOWSTONE RIVER BASIN
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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Anchor Dam (see station 06260300). No diversion upstream 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. 4 . . . 9.58

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.7	17	80	29	21	48
2	---	---	---	---	---	---	4.5	25	82	28	21	39
3	---	---	---	---	---	---	7.6	31	97	28	20	39
4	---	---	---	---	---	---	11	28	114	24	20	39
5	---	---	---	---	---	---	8.1	28	137	24	19	38
6	---	---	---	---	---	---	4.8	29	142	24	18	38
7	---	---	---	---	---	---	4.5	50	138	24	18	38
8	---	---	---	---	---	---	4.2	61	130	33	18	37
9	---	---	---	---	---	---	3.7	61	119	50	18	37
10	---	---	---	---	---	---	3.1	60	118	70	28	36
11	---	---	---	---	---	---	2.4	61	117	70	34	36
12	---	---	---	---	---	---	1.6	58	116	70	42	36
13	---	---	---	---	---	---	5.4	51	113	76	46	36
14	---	---	---	---	---	---	8.8	46	117	69	46	35
15	---	---	---	---	---	---	8.5	43	92	60	57	35
16	---	---	---	---	---	---	8.2	40	19	59	69	34
17	---	---	---	---	---	---	8.9	37	30	59	69	34
18	---	---	---	---	---	---	8.9	39	38	44	69	33
19	---	---	---	---	---	---	6.5	44	45	34	69	33
20	---	---	---	---	---	---	9.9	49	48	34	68	33
21	---	---	---	---	---	---	12	56	50	41	67	32
22	---	---	---	---	---	---	9.2	90	37	64	67	32
23	---	---	---	---	---	---	8.1	112	26	117	67	31
24	---	---	---	---	---	---	11	102	26	144	67	37
25	---	---	---	---	---	---	8.2	96	27	143	66	44
26	---	---	---	---	---	---	11	90	27	97	65	43
27	---	---	---	---	---	---	14	79	28	72	64	42
28	---	---	---	---	---	---	16	68	28	55	63	41
29	---	---	---	---	---	---	17	65	28	30	63	39
30	---	---	---	---	---	---	15	71	29	21	62	38
31	---	---	---	---	---	---	---	76	---	21	61	---
TOTAL	---	---	---	---	---	---	243.8	1763	2198	1714	1482	1113
MEAN	---	---	---	---	---	---	8.13	56.9	73.3	55.3	47.8	37.1
MAX	---	---	---	---	---	---	17	112	142	144	69	48
MIN	---	---	---	---	---	---	1.6	17	19	21	18	31
AC-FT	---	---	---	---	---	---	484	3500	4360	3400	2940	2210

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

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

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1959 - 1988
ANNUAL MEAN	---	22.1
HIGHEST ANNUAL MEAN	---	35.9
LOWEST ANNUAL MEAN	---	11.3
HIGHEST DAILY MEAN	144 Jul 24	303 Jun 12 1991#
LOWEST DAILY MEAN	1.6 Apr 12	.00 Several days, most years#
ANNUAL SEVEN-DAY MINIMUM	3.5 Apr 6	.00 Most years
INSTANTANEOUS PEAK FLOW	149 Jul 23	373a May 26 1967
INSTANTANEOUS PEAK STAGE	3.24 Jul 23	4.02 Jun 11 1991#
ANNUAL RUNOFF (AC-FT)	---	16040
10 PERCENT EXCEEDS	97	76
50 PERCENT EXCEEDS	38	5.8
90 PERCENT EXCEEDS	8.8	.00

* During period of operation.

For period of record through 1992.

a Gage height, 3.64 ft.

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

131

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

DRAINAGE AREA.--61 mi², approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,340 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1967 at site 0.1 mi upstream at different datum. Oct. 1, 1967 to Sept. 5, 1972 at site 0.5 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 8, Nov. 13 to Mar. 13, Mar. 22-25, and May 24-26. Records poor. Several small reservoirs above station used for storage of stock and irrigation water. Diversion upstream from station into H.D. Ranch ditch for irrigation of about 820 acres downstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 15	1000	198	3.99	July 2	1900	206	4.02
June 25	2300	206	4.02	July 21	0400	245	4.11
June 28	2230	*319	*4.26	Aug 16	1900	223	4.06

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	5.0	2.5	1.4	3.0	5.4	11	19	69	39	24	9.5
2	7.5	4.5	2.7	1.4	2.8	5.8	16	10	60	64	22	9.2
3	6.9	4.2	2.9	1.5	2.9	6.0	25	11	53	80	23	8.7
4	6.7	4.0	3.1	1.5	2.8	6.2	30	14	44	59	21	9.1
5	6.4	4.8	3.3	1.7	2.8	6.3	22	16	43	50	20	8.7
6	6.5	6.4	3.7	1.7	3.0	6.2	12	20	41	41	18	10
7	6.4	8.0	4.0	1.6	3.1	6.6	11	19	43	33	17	9.1
8	6.5	10	4.3	1.6	3.1	6.8	11	17	42	28	15	8.4
9	6.6	12	4.1	1.7	3.2	6.8	13	18	40	27	14	8.2
10	6.6	9.7	4.2	1.8	3.4	6.4	14	13	37	25	13	8.0
11	6.4	7.7	4.0	1.7	3.4	6.8	14	12	35	22	13	7.7
12	6.5	7.9	3.8	1.7	3.6	7.2	16	11	33	30	12	7.6
13	6.2	8.2	4.0	1.6	3.6	7.6	17	11	31	26	12	7.1
14	6.1	8.0	3.5	1.5	3.7	7.9	16	10	30	20	11	6.3
15	6.0	7.4	3.2	1.4	3.8	6.4	21	11	113	18	10	5.8
16	6.0	6.4	3.5	1.3	3.8	5.7	22	9.6	94	17	42	5.9
17	5.7	6.8	3.8	1.4	3.7	5.6	22	8.8	82	17	21	5.9
18	4.8	7.4	3.5	1.3	3.5	9.8	19	6.6	80	15	14	5.3
19	4.9	6.6	3.1	1.2	3.5	24	16	4.0	67	24	11	4.6
20	5.2	6.0	3.1	1.4	3.8	13	15	4.1	66	30	9.1	4.5
21	5.4	6.4	2.5	1.4	4.2	7.1	16	5.6	58	101	10	4.4
22	5.5	5.2	2.2	1.5	4.4	6.6	18	7.0	48	63	9.8	4.2
23	5.8	4.5	2.0	1.6	4.4	7.4	15	6.0	42	50	9.9	4.1
24	4.7	4.8	1.8	1.7	4.2	8.0	14	7.2	37	41	9.3	4.1
25	4.3	5.2	1.7	1.9	4.0	7.6	14	6.3	52	46	9.2	4.5
26	6.1	5.5	1.6	2.1	4.0	7.1	17	13	66	60	12	4.5
27	6.5	5.2	1.5	2.0	4.5	8.5	23	49	48	44	11	4.4
28	6.4	5.0	1.4	2.2	5.0	10	23	34	51	35	10	3.6
29	6.0	4.0	1.4	2.4	5.2	12	19	29	82	31	9.9	3.7
30	5.8	3.0	1.6	2.7	---	11	19	52	66	28	9.8	3.9
31	5.2	---	1.5	2.9	---	8.3	---	76	---	28	9.1	---
TOTAL	187.6	189.8	89.5	52.8	106.4	250.1	521	530.2	1653	1192	452.1	191.0
MEAN	6.05	6.33	2.89	1.70	3.67	8.07	17.4	17.1	55.1	38.5	14.6	6.37
MAX	8.0	12	4.3	2.9	5.2	24	30	76	113	101	42	10
MIN	4.3	3.0	1.4	1.2	2.8	5.4	11	4.0	30	15	9.1	3.6
AC-FT	372	376	178	105	211	496	1030	1050	3280	2360	897	379

YELLOWSTONE RIVER BASIN
06262300 NORTH FORK OWL CREEK ABOVE BASIN RANCH NEAR ANCHOR, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)*												
MEAN	3.05	2.19	1.80	1.13	2.10	5.13	15.0	42.6	69.8	18.6	5.98	4.36
MAX	7.67	6.33	3.69	3.15	3.97	18.8	54.0	100	139	56.5	19.2	15.8
(WY)	1972	1992	1968	1968	1972	1972	1962	1963	1963	1975	1968	1991
MIN	.000	.043	.24	.031	.000	1.76	3.51	13.6	3.47	.40	.30	.000
(WY)	1965	1967	1967	1967	1966	1967	1966	1969	1966	1966	1966	1964
SUMMARY STATISTICS												
ANNUAL TOTAL			FOR 1991 CALENDER YEAR			FOR 1992 WATER YEAR			WATER YEARS 1962 - 1992*			
			--			5415.5			--			
ANNUAL MEAN			--			14.8			13.7			
HIGHEST ANNUAL MEAN			--			--			24.4			
LOWEST ANNUAL MEAN			--			--			4.58			
HIGHEST DAILY MEAN			257 May 21			113 Jun 15			430 Jun 5 1968			
LOWEST DAILY MEAN			1.4 Dec 28			1.2 Jan 19			.00 Many days, 1964-67, 1970-72			
ANNUAL SEVEN-DAY MINIMUM			1.5 Dec 25			1.3 Jan 15			.00 Aug 6 1964			
INSTANTANEOUS PEAK FLOW			--			319 Jun 28			1370a Jun 15 1963			
INSTANTANEOUS PEAK STAGE			--			4.26 Jun 28			--			
ANNUAL RUNOFF (AC-FT)			--			10740			9890			
10 PERCENT EXCEEDS			76			41			48			
50 PERCENT EXCEEDS			7.5			7.2			4.0			
90 PERCENT EXCEEDS			3.5			2.2			.20			

* During period of operation.

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

06264700 BIGHORN RIVER AT LUCERNE, WY

LOCATION.--Lat 43°44'10", long 108°09'38", in SE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
NOV 06...	1230	915	600	8.7	7.0	646	10.9	106	53	0.01
MAR 31...	0900	580	760	8.2	9.5	657	10.4	106	570	<0.01
JUN 18...	1245	830	748	8.6	21.0	655	8.1	106	82	0.02
SEP 02...	1400	974	762	8.6	21.0	655	7.9	104	33	<0.01

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 06...	<0.05	0.01	0.29	0.3	0.01	<0.01	<1	6	15
MAR 31...	<0.05	0.01	0.29	0.3	<0.01	<0.01	<1	10	16
JUN 18...	<0.05	0.06	0.34	0.4	0.03	0.03	<1	113	253
SEP 02...	<0.05	0.03	0.37	0.4	0.04	0.02	<1	74	195

YELLOWSTONE RIVER BASIN

06268500 FIFTEENMILE CREEK NEAR WORLAND, WY

LOCATION.--Lat 44°01'14", long 108°00'42", in NW¼ NW¼ NE¼ sec.27, T.47 N., R.93 W., Washakie County, Hydrologic Unit 10080007, at former gaging station, 300 ft upstream from Bighorn Canal spillway, 2.0 mi upstream from mouth, and 2.8 mi west of Worland.

DRAINAGE AREA.--518 mi².

PERIOD OF RECORD.--August 1949 to December 1972, June 1978 to September 1986, October 1989 to September 1992 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: August 1949 to December 1972, June 1978 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 135,000 mg/L, Apr. 16, 1952; no flow for many days each year.

SEDIMENT LOADS: Maximum daily, 418,000 tons, May 22, 1952; 0 tons on many days each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 14...	1330	137	375	0.5	--	25	8.1	1.1	86
MAY 28...	1100	50	620	14.0	8.3	--	--	--	--
JUN 16...	1230	1190	1000	16.5	8.1	130	40	8.1	150
25...	1200	3.2	558	23.0	8.4	35	11	1.8	110

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 14...	8	5.1	--	--	--	--	--	8.1	0.4
MAY 28...	--	--	--	128	--	--	--	--	--
JUN 16...	6	5.7	170	87	0	106	310	4.1	0.7
25...	8	3.5	160	166	1	201	95	4.6	0.8

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 14...	21	--	--	--	14.0	0.11	24100	8910
MAY 28...	--	--	--	--	--	--	63300	8550
JUN 16...	6.4	589	0.80	1890	2.7	0.05	46900	151000
25...	11	350	0.48	3.02	2.8	0.10	1040	9.0

YELLOWSTONE RIVER BASIN
06270000 NOWOOD RIVER NEAR TEN SLEEP, WY

135

LOCATION.--Lat 44°00'48", long 107°25'39", in SW¼ NW¼ sec.27, T.47 N., R.88 W., Washakie County, Hydrologic Unit 10080008, on right bank 1.7 mi southeast of Ten Sleep and 4.3 mi upstream from Tensleep Creek.
DRAINAGE AREA.--803 mi².
PERIOD OF RECORD.--May 1938 to September 1943, March 1950 to December 1955 (published as Nowood Creek near Tensleep), October 1972 to September 1992 (discontinued).
GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 6, 1938, to Sept. 30, 1943, nonrecording gage at site 200 ft downstream at different datum. Mar. 17, 1950, to Dec. 31, 1955, water-stage recorder at site 100 ft upstream at different datum.
REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 10, Nov. 23 to Feb. 29, and June 27 to July 13. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 550 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 21	1300	*694	*6.87	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	64	68	64	82	90	87	172	140	110	53	35
2	67	60	66	66	84	89	87	186	123	120	50	38
3	66	60	68	68	89	87	84	192	99	110	44	38
4	68	58	70	66	86	86	84	171	84	105	50	37
5	70	64	72	62	80	87	91	158	80	100	98	39
6	72	70	70	62	80	87	95	145	88	90	57	42
7	74	72	70	60	82	87	96	128	91	78	41	39
8	74	77	72	60	76	87	95	118	82	74	42	42
9	74	82	74	62	80	87	93	119	78	70	40	39
10	74	86	72	66	84	86	93	162	73	68	39	39
11	74	87	70	70	84	80	97	209	70	66	36	39
12	74	83	70	70	90	79	102	158	67	72	34	45
13	74	82	68	70	90	79	103	129	65	77	30	45
14	74	84	68	66	96	79	103	112	64	85	29	50
15	74	89	70	62	102	79	110	96	66	73	28	48
16	75	82	69	58	110	79	130	84	87	65	26	48
17	74	79	68	54	104	80	227	79	116	58	27	50
18	73	79	68	56	100	110	211	77	168	54	32	50
19	73	79	66	58	100	114	208	63	152	54	43	51
20	73	75	66	64	110	98	178	53	132	58	29	52
21	73	85	66	66	120	90	168	51	123	349	28	52
22	73	83	68	66	130	90	178	64	113	198	27	51
23	76	80	62	62	120	87	191	75	105	140	26	50
24	78	78	66	66	110	85	184	65	99	114	31	49
25	79	82	68	68	100	82	167	55	104	95	29	51
26	79	86	68	64	96	82	164	54	111	115	28	51
27	80	80	68	64	94	81	159	52	120	128	28	52
28	80	78	66	66	90	80	158	65	115	81	29	54
29	80	78	66	68	90	80	166	78	110	71	33	58
30	72	76	64	72	---	80	167	102	100	61	34	58
31	68	---	62	80	---	84	---	138	---	57	33	---
TOTAL	2280	2318	2109	2006	2759	2671	4076	3410	3025	2996	1154	1392
MEAN	73.5	77.3	68.0	64.7	95.1	86.2	136	110	101	96.6	37.2	46.4
MAX	80	89	74	80	130	114	227	209	168	349	98	58
MIN	65	58	62	54	76	79	84	51	64	54	26	35
AC-FT	4520	4600	4180	3980	5470	5300	8080	6760	6000	5940	2290	2760

YELLOWSTONE RIVER BASIN
06270000 NOWOOD RIVER NEAR TEN SLEEP, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)												
MEAN	75.1	75.9	65.6	63.3	73.4	116	170	389	163	44.1	33.6	52.4
MAX	117	118	88.4	159	114	257	462	1451	670	126	85.2	98.2
(WY)	1985	1985	1976	1943	1986	1942	1942	1978	1975	1975	1984	1941
MIN	43.7	50.2	44.3	42.0	26.8	60.3	82.4	106	40.5	5.85	13.0	16.5
(WY)	1991	1955	1941	1984	1939	1940	1953	1980	1954	1954	1940	1954

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1938 - 1992	
ANNUAL TOTAL	38394		30196		--	
ANNUAL MEAN	105		82.5		111	
HIGHEST ANNUAL MEAN	--		--		254	
LOWEST ANNUAL MEAN	--		--		58.7	
HIGHEST DAILY MEAN	1070	May 19	349	Jul 21	3130	May 19 1978
LOWEST DAILY MEAN	18	Aug 27	26	Aug 16, 23	.70	Aug 13 1940
ANNUAL SEVEN-DAY MINIMUM	20	Aug 23	28	Aug 21	1.3	Aug 13 1940
INSTANTANEOUS PEAK FLOW	--	--	694	Jul 21	3380a	May 19 1978
INSTANTANEOUS PEAK STAGE	--	--	6.87	Jul 21	13.00b	Mar 12, 13 1972
ANNUAL RUNOFF (AC-FT)	76150		59890		80720	
10 PERCENT EXCEEDS	172		124		193	
50 PERCENT EXCEEDS	66		75		70	
90 PERCENT EXCEEDS	31		44		28	

a Gage height, 12.94 ft.

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

YELLOWSTONE RIVER BASIN
06274300 BIGHORN RIVER AT BASIN, WY

137

LOCATION.--Lat 44°23'00", long 108°02'08", in SE¼ NW¼ NE¼ 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 26 to Nov. 5, Dec. 1-3, Jan. 3 to Feb. 9, and July 27 to Aug. 14.

Records good 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1500	1600	1950	1900	1230	780	873	2490	2740	860	656
2	1520	1500	1650	1950	2000	1210	786	1000	2060	3040	900	716
3	1440	1490	1700	2000	2000	1200	773	904	1890	2630	930	725
4	1460	1500	1800	2000	2000	1190	751	845	1980	2100	1070	748
5	1480	1500	1810	1980	2000	1190	766	890	1780	1870	940	829
6	1480	1500	1770	1980	2000	1200	725	1080	1790	1660	880	884
7	1480	1490	1830	1980	1950	1100	754	1340	1710	1430	800	949
8	1670	1470	1990	1910	1950	984	686	1690	1670	1330	740	989
9	1610	1500	1950	1910	1950	994	602	1900	1470	1200	720	1000
10	1600	1580	1940	2000	1970	943	620	2210	1400	1060	680	850
11	1590	1610	1970	2000	1940	917	602	1760	1380	991	640	832
12	1570	1560	2030	2000	1860	909	578	1450	1320	1180	660	837
13	1580	1540	1960	2000	1630	912	558	1230	1420	2440	680	858
14	1560	1930	2100	2000	1440	890	489	1140	1590	2220	600	881
15	1550	1990	2100	2000	1350	883	509	1140	2320	1490	531	888
16	1560	1710	2050	1900	1460	900	1180	1370	5260	1220	515	815
17	1570	1550	2040	1900	1440	896	805	1380	4560	1070	610	765
18	1590	1520	2030	1910	1350	915	863	1220	2870	978	648	768
19	1570	1520	2050	1990	1290	1010	942	1400	2420	901	597	807
20	1650	1490	2030	2000	1370	1010	911	1770	2330	1160	541	831
21	1630	1670	1900	2000	1620	964	768	2440	2270	2470	539	843
22	1640	1700	1980	2000	1790	925	701	3060	2100	4110	567	826
23	1620	1660	1890	2090	1620	898	759	2150	2230	2340	620	806
24	1660	1590	1870	2090	1390	875	755	1800	2030	2000	686	766
25	1680	1640	1910	2090	1300	857	716	1710	2040	1850	663	743
26	1680	1690	1890	1980	1280	844	694	1480	2720	2170	629	789
27	1660	1690	1900	1980	1300	824	682	1440	2560	1790	620	852
28	1680	1700	1900	1920	1280	814	657	2300	2390	1300	641	901
29	1590	1650	1900	1900	1240	803	621	1750	1990	1050	619	925
30	1610	1610	1920	1900	---	802	665	2010	1830	970	621	870
31	1550	---	1890	1900	---	792	---	2850	---	900	633	---
TOTAL	49080	48050	59350	61210	47670	29881	21698	49582	65870	53660	21380	24949
MEAN	1583	1602	1915	1975	1644	964	723	1599	2196	1731	690	832
MAX	1680	1990	2100	2090	2000	1230	1180	3060	5260	4110	1070	1000
MIN	1440	1470	1600	1900	1240	792	489	845	1320	900	515	656
AC-FT	97350	95310	117700	121400	94550	59270	43040	98350	130700	106400	42410	49490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1535	1527	1354	1226	1300	1403	1341	2136	3679
MAX	2346	2439	1933	1975	1644	2118	2302	4030	11210
(WY)	1984	1984	1985	1992	1992	1986	1986	1984	1991
MIN	694	659	642	566	504	634	723	1052	1114
(WY)	1989	1989	1989	1989	1989	1989	1992	1989	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1984 - 1992
ANNUAL TOTAL	888000	532380	--
ANNUAL MEAN	2433	1455	1605
HIGHEST ANNUAL MEAN	--	--	2291
LOWEST ANNUAL MEAN	--	--	800
HIGHEST DAILY MEAN	16600	Jun 8	16600
LOWEST DAILY MEAN	780	Jan 30	276
ANNUAL SEVEN-DAY MINIMUM	819	Jan 24	292
INSTANTANEOUS PEAK FLOW	--	6320a	19500
INSTANTANEOUS PEAK STAGE	--	10.03b	10.49
ANNUAL RUNOFF (AC-FT)	1761000	1056000	1162000
10 PERCENT EXCEEDS	4580	2050	2440
50 PERCENT EXCEEDS	1520	1500	1330
90 PERCENT EXCEEDS	921	699	680

a Gage height, 6.66 ft.

b Backwater from ice.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
NOV 06...	1530	1500	895	8.7	4.5	650	11.2	102	K9	0.19
MAR 30...	1445	971	1000	8.3	14.0	665	10.6	118	K5	--
JUN 18...	0830	2930	755	8.2	17.0	667	8.2	97	3600	0.82
SEP 03...	1400	747	1110	8.4	19.0	665	8.0	100	87	0.82

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

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 06...	0.02	0.21	0.02	0.48	0.5	0.04	<0.01	<1	41	166
MAR 30...	<0.01	<0.05	0.02	0.28	0.30	<0.01	<0.01	<1	51	134
JUN 18...	0.03	0.85	0.05	0.25	0.3	0.03	0.03	<1	4710	37300
SEP 03...	0.01	0.83	0.03	0.57	0.6	0.09	0.03	<1	213	430

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO-PYRALID WATER UNFLTRD REC (UG/L)
JUN 18...	0830	2930	17.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
AUG 14...	1315	439	23.5	0.03	<0.01	0.05	<0.01	<0.01	<0.01	--
SEP 03...	1400	747	19.0	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06275000 WOOD RIVER AT SUNSHINE, WY

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LOCATION.--Lat 44°02'15", long 108°58'24", in NW¼ SW¼ sec.15, T.47 N., R.101 W., Park County, Hydrologic Unit 10080009, on right bank at bridge on county road, 1.0 mi downstream from Ernest May Ranch, 5.2 mi downstream from Dick Creek, and 10 mi southwest of Meeteetse.

DRAINAGE AREA.--194 mi², approximately.

PERIOD OF RECORD.--August 1945 to September 1992 (discontinued).

REVISED RECORDS.--WSP 1309: 1947(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 18, 1952, and Oct. 28, 1953, to June 15, 1963, water-stage recorder at site 2.0 mi upstream at different datum. Sept. 18, 1952, to Oct. 27, 1953, nonrecording gage at site 2.0 mi upstream at different datum. June 16, 1963, to Aug. 13, 1967, water-stage recorder at site 1.4 mi upstream at different datum. Aug. 14 to Oct. 5, 1967, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 8 and Nov. 15 to Mar. 2. Records good except those for estimated daily discharges, which are poor. Water diverts upstream from station to Lower Sunshine Reservoir since 1972. Diversion upstream from station for irrigation of about 3,200 acres, of which about 1,000 acres are downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	7.2	2.2	4.7	38	18	7.5	130	213	433	176	102
2	21	7.0	2.3	4.8	40	18	7.8	104	216	560	169	98
3	19	6.4	2.5	4.8	40	18	7.5	101	238	536	166	92
4	18	5.6	3.0	5.0	36	19	7.2	110	209	524	146	91
5	17	5.0	3.7	5.0	36	18	7.1	129	205	482	139	90
6	17	5.4	4.0	5.0	37	18	6.8	144	175	425	134	91
7	17	5.2	4.0	5.0	36	18	36	160	174	374	133	89
8	17	5.2	3.8	5.0	39	17	61	155	184	339	132	83
9	16	5.2	3.6	5.2	41	11	67	149	199	316	130	82
10	16	5.5	3.3	5.2	40	15	73	115	209	292	128	80
11	16	5.1	3.2	5.4	40	12	71	102	216	267	125	79
12	15	4.7	3.6	5.4	31	11	73	97	210	285	122	79
13	15	4.7	3.3	5.4	27	12	88	93	192	265	120	79
14	15	4.5	3.3	5.6	19	12	86	94	179	227	119	79
15	14	3.8	3.5	5.6	15	13	88	101	174	220	117	79
16	14	3.8	3.4	5.8	15	13	89	100	45	215	124	77
17	14	3.6	3.5	6.0	15	12	99	92	64	221	147	74
18	13	3.6	3.6	6.0	14	12	87	97	143	210	129	74
19	13	3.8	4.0	8.0	15	12	77	110	211	277	124	74
20	13	3.8	3.8	7.6	16	10	73	139	201	368	117	74
21	12	3.7	4.0	8.0	15	11	75	211	197	380	114	74
22	12	3.5	3.9	8.4	15	8.7	82	187	202	334	112	74
23	12	3.5	4.2	8.8	15	7.5	76	176	199	310	112	74
24	10	3.3	4.3	14	14	8.1	70	190	163	284	111	74
25	9.4	3.1	4.3	17	15	7.4	71	203	187	264	112	74
26	8.6	3.2	4.3	18	15	7.7	76	215	183	243	111	71
27	8.4	3.2	4.3	18	16	8.2	95	311	201	222	106	66
28	7.4	3.2	4.5	19	17	8.1	110	279	239	209	106	66
29	6.8	2.2	4.5	40	18	8.1	113	249	400	199	102	66
30	7.0	2.3	4.5	40	---	8.3	136	253	322	191	102	66
31	7.0	---	4.5	39	---	8.5	---	244	---	189	102	---
TOTAL	422.6	130.3	114.9	340.7	730	380.6	2015.9	4840	5950	9661	3887	2371
MEAN	13.6	4.34	3.71	11.0	25.2	12.3	67.2	156	198	312	125	79.0
MAX	22	7.2	4.5	40	41	19	136	311	400	560	176	102
MIN	6.8	2.2	2.2	4.7	14	7.4	6.8	92	45	189	102	66
AC-FT	838	258	228	676	1450	755	4000	9600	11800	19160	7710	4700

YELLOWSTONE RIVER BASIN
06275000 WOOD RIVER AT SUNSHINE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)												
MEAN	36.7	23.2	20.9	17.1	16.6	14.0	35.5	174	309	206	105	75.2
MAX	107	77.1	63.8	56.3	46.5	35.5	141	401	690	548	150	251
(WY)	1974	1983	1979	1983	1984	1984	1974	1973	1991	1975	1984	1973
MIN	13.6	3.40	1.76	1.21	1.28	1.54	6.76	45.3	116	48.2	34.8	39.8
(WY)	1992	1978	1978	1978	1978	1978	1990	1977	1985	1988	1988	1985

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1973 - 1992*		
ANNUAL TOTAL	43624.5			30844.0			--		
ANNUAL MEAN	120			84.3			86.3a		
HIGHEST ANNUAL MEAN	--			--			150		
LOWEST ANNUAL MEAN	--			--			38.7		
HIGHEST DAILY MEAN	1160	Jun 6		560	Jul 2		1210	May 28	1974
LOWEST DAILY MEAN	2.2	Nov 29		2.2	Nov 29, Dec 1		.40	Mar 13	1978#
ANNUAL SEVEN-DAY MINIMUM	2.5	Nov 28		2.5	Nov 28		.98	Mar 17	1978
INSTANTANEOUS PEAK FLOW	--			645b	Jul 2		5080c	Jun 15	1963#
INSTANTANEOUS PEAK STAGE	--			6.57d	Nov 4		8.57	May 18	1973
ANNUAL RUNOFF (AC-FT)	86530			61180			62500		
10 PERCENT EXCEEDS	386			215			222		
50 PERCENT EXCEEDS	8.4			39			39		
90 PERCENT EXCEEDS	3.5			4.0			4.5		

* Regulated period only. See REMARKS.

For period of record through 1992.

a Average discharge (water years 1946-72) prior to regulated period, 117 ft³/s.

b Gage height, 5.72 ft.

c Gage height, 7.00 ft, from floodmark, site and datum then in use, from contracted-opening measurement of peak flow.

d Backwater from ice.

YELLOWSTONE RIVER BASIN
06276500 GREYBULL RIVER AT MEETEETSE, WY

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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.

DRAINAGE AREA.--681 mi².

PERIOD OF RECORD.--June to December 1897, April to October 1903 (gage heights and discharge measurements only), July 1920 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1309: 1923(M), 1924, 1925(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,739.42 ft above National Geodetic Vertical Datum of 1929. 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. 18. . . 47.3
Mar. 24. . . 42.8

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	41	460	454	1110	663	474
2	---	---	---	---	---	---	42	366	445	1440	664	450
3	---	---	---	---	---	---	42	353	484	1320	642	436
4	---	---	---	---	---	---	43	405	441	1240	609	445
5	---	---	---	---	---	---	42	479	441	1230	598	445
6	---	---	---	---	---	---	41	561	405	1170	598	460
7	---	---	---	---	---	---	46	603	387	1010	593	469
8	---	---	---	---	---	---	85	642	414	903	614	454
9	---	---	---	---	---	---	81	603	441	827	614	432
10	---	---	---	---	---	---	101	479	479	780	614	401
11	---	---	---	---	---	---	125	436	509	780	625	392
12	---	---	---	---	---	---	120	414	499	868	658	387
13	---	---	---	---	---	---	154	418	489	813	656	392
14	---	---	---	---	---	---	157	441	514	698	658	387
15	---	---	---	---	---	---	168	489	689	692	658	353
16	---	---	---	---	---	---	177	489	267	675	692	324
17	---	---	---	---	---	---	183	441	149	647	721	316
18	---	---	---	---	---	---	168	465	281	625	670	308
19	---	---	---	---	---	---	141	545	356	700	636	308
20	---	---	---	---	---	---	163	598	396	1010	614	316
21	---	---	---	---	---	---	229	741	493	1020	582	308
22	---	---	---	---	---	---	269	593	646	868	566	300
23	---	---	---	---	---	---	273	582	864	827	550	312
24	---	---	---	---	---	---	254	709	921	760	530	336
25	---	---	---	---	---	---	265	715	932	709	489	353
26	---	---	---	---	---	---	273	721	856	675	455	374
27	---	---	---	---	---	---	320	741	1080	620	432	362
28	---	---	---	---	---	---	379	598	852	587	460	345
29	---	---	---	---	---	---	392	545	1410	587	474	320
30	---	---	---	---	---	---	450	598	1220	598	474	308
31	---	---	---	---	---	---	---	540	---	625	469	---
TOTAL	---	---	---	---	---	---	5224	16770	17814	26414	18278	11267
MEAN	---	---	---	---	---	---	174	541	594	852	590	376
MAX	---	---	---	---	---	---	450	741	1410	1440	721	474
MIN	---	---	---	---	---	---	41	353	149	587	432	300
AC-FT	---	---	---	---	---	---	10360	33260	35330	52390	36250	22350

YELLOWSTONE RIVER BASIN
06276500 GREYBULL RIVER AT MEETEETSE, WY-Continued

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

SUMMARY STATISTICS

FOR 1992 WATER YEAR**

WATER YEARS 1931 - 1971*

ANNUAL MEAN	--		333	
HIGHEST ANNUAL MEAN	--		566	1957
LOWEST ANNUAL MEAN	--		130	1940
HIGHEST DAILY MEAN	1440	Jul 2	6770	Jun 6 1957
LOWEST DAILY MEAN	41	Apr 1, 6	13	Apr 18 1989#
ANNUAL SEVEN-DAY MINIMUM	--		20	Feb 25 1960
INSTANTANEOUS PEAK FLOW	1880	Jun 29	13600a	Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.94	Jun 29	9.20b	Jun 15 1963#
ANNUAL RUNOFF (AC-FT)	--		241200	
10 PERCENT EXCEEDS	--		800	
50 PERCENT EXCEEDS	--		130	
90 PERCENT EXCEEDS	--		55	

* Record prior to October 1930 not used in computations, monthly discharge only for selected months.

** During period of operation.

For period of record through 1992.

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

b From floodmark.

YELLOWSTONE RIVER BASIN

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06277500 GREYBULL RIVER NEAR BASIN, WY

LOCATION.--Lat 44°24'24", long 108°11'10", in NE¼ NW¼ SW¼ sec.8, T.51 N., R.94 W., Big Horn County, Hydrologic Unit 10080009, at former gaging station, at bridge on State Secondary Highway 0200, 3.0 mi upstream from Dorsey Creek, and 8.0 mi west of Basin.

DRAINAGE AREA.--1,115 mi².

PERIOD OF RECORD.--Water years 1951-53, 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
NOV 07...	1145	17	720	1.0	250	61	23	65	2	2.9	210
MAY 22...	1200	59	1090	13.0	320	78	31	160	4	4.7	270
JUN 17...	1400	410	855	16.0	190	50	15	130	4	5.5	200
SEP 03...	0920	31	1270	14.5	350	87	32	170	4	4.7	320

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 07...	170	5.2	0.4	13	469	0.64	21.5	0.5	<0.03	140	6.4
MAY 22...	360	13	0.5	16	829	1.13	132	0.9	0.14	265	42
JUN 17...	260	6.9	0.5	14	610	0.83	675	1.8	<0.03	8600	9520
SEP 03...	370	16	0.6	21	899	1.22	75.2	1.3	0.04	98	8.2

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY 22...	1200	59	13.0	0.07	<0.01	0.08	<0.01	<0.01	<0.01	--
JUN 17...	1400	410	16.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
SEP 03...	0920	31	14.5	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06278300 SHELL CREEK ABOVE SHELL RESERVOIR, WY

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.

DRAINAGE AREA.--23.1 mi².

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

REVISED RECORD.--WSP 1629: 1958. WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,050 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 23 to May 5. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 20	2300	*586	*5.30	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	4.7	3.3	2.2	2.5	2.6	2.4	29	93	155	21	10
2	12	4.7	3.3	2.2	2.4	2.6	2.7	50	100	151	20	10
3	12	4.9	3.3	2.2	2.5	2.6	3.4	52	134	124	21	9.4
4	12	4.9	3.5	2.2	2.6	2.5	4.0	54	113	100	20	9.6
5	13	5.0	3.5	2.1	2.6	2.5	4.5	70	107	85	18	11
6	12	5.2	3.7	2.1	2.7	2.5	4.3	127	97	73	16	12
7	11	5.2	3.8	2.1	2.8	2.5	4.1	189	107	72	15	12
8	11	5.4	3.8	2.1	2.8	2.4	3.9	218	120	64	14	11
9	11	5.6	3.6	2.2	2.8	2.2	4.0	220	126	57	13	11
10	10	6.2	3.4	2.2	2.9	2.2	4.2	111	135	52	13	10
11	10	6.2	3.4	2.2	2.9	2.3	4.5	87	125	51	12	10
12	10	6.2	3.3	2.2	2.9	2.3	4.7	87	138	75	12	10
13	9.8	6.2	3.3	2.2	2.9	2.4	5.0	89	131	84	11	10
14	9.4	6.0	3.2	2.2	2.9	2.5	5.2	108	117	61	12	9.5
15	9.3	6.0	3.1	2.0	2.9	2.6	5.0	127	109	51	11	9.2
16	9.0	5.8	3.0	1.9	2.9	2.6	4.9	131	96	46	15	8.9
17	8.7	5.6	2.9	2.0	2.9	2.4	4.9	91	104	42	14	8.5
18	8.7	5.4	2.9	2.1	2.9	2.3	4.8	136	125	38	12	8.5
19	8.4	5.2	2.9	2.1	2.9	2.2	4.7	268	124	42	12	8.5
20	9.0	5.0	2.8	2.3	2.8	2.1	4.9	374	113	44	12	8.3
21	8.2	4.8	2.7	2.2	2.8	2.1	5.0	504	107	48	14	8.6
22	8.0	4.7	2.7	2.3	2.8	2.1	4.9	214	133	42	13	8.4
23	7.8	4.5	2.6	2.3	2.7	2.1	4.8	187	143	38	13	8.0
24	7.4	4.3	2.6	2.3	2.7	2.1	4.7	220	160	37	12	8.9
25	7.0	4.0	2.5	2.3	2.7	2.2	5.6	174	216	33	12	10
26	6.6	4.0	2.5	2.4	2.6	2.3	6.4	148	244	30	11	10
27	6.2	4.0	2.4	2.4	2.6	2.4	8.0	146	172	27	11	10
28	6.0	3.8	2.3	2.4	2.6	2.5	10	128	142	25	11	10
29	5.8	3.6	2.3	2.4	2.6	2.6	12	108	123	24	10	9.8
30	5.2	3.5	2.3	2.5	---	2.6	19	120	151	22	10	9.3
31	4.8	---	2.3	2.5	---	2.5	---	111	---	22	9.8	---
TOTAL	282.3	150.6	93.2	68.8	79.6	73.8	166.5	4678	3905	1815	420.8	290.4
MEAN	9.11	5.02	3.01	2.22	2.74	2.38	5.55	151	130	58.5	13.6	9.68
MAX	13	6.2	3.8	2.5	2.9	2.6	19	504	244	155	21	12
MIN	4.8	3.5	2.3	1.9	2.4	2.1	2.4	29	93	22	9.8	8.0
AC-FT	560	299	185	136	158	146	330	9280	7750	3600	835	576

YELLOWSTONE RIVER BASIN
06278300 SHELL CREEK ABOVE SHELL RESERVOIR, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)												
MEAN	8.59	5.75	3.72	2.57	2.13	2.06	5.67	106	212	49.0	13.3	10.3
MAX	17.6	11.2	6.45	4.27	3.50	3.69	28.4	289	353	188	45.6	44.9
(WY)	1962	1962	1969	1958	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	68.7	11.7	4.08	2.77
(WY)	1989	1976	1970	1980	1980	1961	1970	1975	1966	1961	1961	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1957 - 1992	
ANNUAL TOTAL	12954.4		12024.0		--	
ANNUAL MEAN	35.5		32.9		35.1	
HIGHEST ANNUAL MEAN	--		--		50.2	
LOWEST ANNUAL MEAN	--		--		18.6	
HIGHEST DAILY MEAN	574	Jun 7	504	May 21	1010	Jun 15 1963
LOWEST DAILY MEAN	1.9	Mar 27	1.9	Jan 16	.60	Mar 7 1967
ANNUAL SEVEN-DAY MINIMUM	2.1	Mar 23	2.1	Jan 13	.90	Jan 27 1980
INSTANTANEOUS PEAK FLOW	--	--	586	May 20	1870a	Jun 15 1963
INSTANTANEOUS PEAK STAGE	--	--	5.30	May 20	7.84b	Jun 15 1963
ANNUAL RUNOFF (AC-FT)	25700		23850		25410	
10 PERCENT EXCEEDS	109		123		100	
50 PERCENT EXCEEDS	5.4		6.5		5.8	
90 PERCENT EXCEEDS	2.3		2.3		1.8	

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

YELLOWSTONE RIVER BASIN
06278500 SHELL CREEK NEAR SHELL, WY

LOCATION.--Lat 44°33'54", long 107°42'44", in SE¼ SW¼ 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Apr. 4-14. Records good. 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:

Nov. 5 . . . 48.3

Mar. 23 . . . 28.1

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	1230	*1,260	*5.04	June 24	2400	831	4.35

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	31	117	315	448	113	111
2	---	---	---	---	---	---	31	100	291	434	136	108
3	---	---	---	---	---	---	32	107	319	392	164	106
4	---	---	---	---	---	---	34	196	320	355	160	108
5	---	---	---	---	---	---	37	202	311	320	153	117
6	---	---	---	---	---	---	34	283	317	291	147	127
7	---	---	---	---	---	---	34	381	317	248	142	128
8	---	---	---	---	---	---	31	472	302	237	140	128
9	---	---	---	---	---	---	33	527	299	228	137	115
10	---	---	---	---	---	---	35	348	310	220	137	111
11	---	---	---	---	---	---	33	274	302	222	132	109
12	---	---	---	---	---	---	34	266	319	290	131	108
13	---	---	---	---	---	---	40	263	329	304	130	110
14	---	---	---	---	---	---	56	293	317	243	128	108
15	---	---	---	---	---	---	54	334	332	214	123	103
16	---	---	---	---	---	---	55	386	329	196	133	106
17	---	---	---	---	---	---	54	296	370	185	135	105
18	---	---	---	---	---	---	58	320	377	176	126	102
19	---	---	---	---	---	---	48	518	364	195	123	98
20	---	---	---	---	---	---	45	641	336	206	121	91
21	---	---	---	---	---	---	45	1070	317	222	133	87
22	---	---	---	---	---	---	51	653	323	202	128	81
23	---	---	---	---	---	---	49	457	370	177	130	76
24	---	---	---	---	---	---	43	487	374	172	126	69
25	---	---	---	---	---	---	44	446	539	164	123	73
26	---	---	---	---	---	---	45	382	570	157	119	71
27	---	---	---	---	---	---	52	377	478	149	116	69
28	---	---	---	---	---	---	67	377	400	142	113	69
29	---	---	---	---	---	---	83	345	371	151	111	67
30	---	---	---	---	---	---	111	377	397	142	110	63
31	---	---	---	---	---	---	---	364	---	139	108	---
TOTAL	---	---	---	---	---	---	1399	11659	10615	7221	4028	2924
MEAN	---	---	---	---	---	---	46.6	376	354	233	130	97.5
MAX	---	---	---	---	---	---	111	1070	570	448	164	128
MIN	---	---	---	---	---	---	31	100	291	139	108	63
AC-FT	---	---	---	---	---	---	2770	23130	21050	14320	7990	5800

YELLOWSTONE RIVER BASIN
06278500 SHELL CREEK NEAR SHELL, WY--Continued

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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

SUMMARY STATISTICS

ANNUAL MEAN	---	FOR 1992 WATER YEAR*	---	WATER YEARS 1941 - 1971	---
HIGHEST ANNUAL MEAN	---		---	119	
LOWEST ANNUAL MEAN	---		---	160	1968
HIGHEST DAILY MEAN	1070	May 21	---	77.3	1966
LOWEST DAILY MEAN	31	Apr 1, 2, 8	---	1980	Jun 4 1968
ANNUAL SEVEN-DAY MINIMUM	---		---	13	Apr 10 1989#
INSTANTANEOUS PEAK FLOW	1260	May 21	---	20	Jan 28 1951
INSTANTANEOUS PEAK STAGE	5.04	May 21	---	3020a	Jun 24 1945#
ANNUAL RUNOFF (AC-FT)	---		---	7.49	Jun 24 1945#
10 PERCENT EXCEEDS	---		---	85900	
50 PERCENT EXCEEDS	---		---	288	
90 PERCENT EXCEEDS	---		---	50	
				33	

* During period of operation.

For period of record through 1992.

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

YELLOWSTONE RIVER BASIN
06279500 BIGHORN RIVER AT KANE, WY

LOCATION.--Lat 44°45'31", long 108°10'51", in NW¼ NE¼ SW¼ sec.9, T.55 N., R.94 W., Big Horn County, Hydrologic Unit 10080010, on right bank 180 ft upstream from Bighorn Canyon National Recreation Area boundary, 0.5 mi upstream from normal high-water line of Bighorn Lake at elevation 3,660 ft, 1.3 mi upstream from Five Springs Creek, and 5.9 mi south of Kane.

DRAINAGE AREA.--15,765 mi². Area at sites used prior to May 17, 1956, 15,846 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1309: 1929(M). WSP 1509: 1929. WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 3,660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Aug. 29, 1928, to Apr. 25, 1932, nonrecording gage, and Apr. 25, 1932, to May 16, 1956, water-stage recorder at site 12.5 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 1-7, Nov. 29 to Mar. 3, Apr. 11-16, and June 4-11. Records good except those for estimated daily discharges, which are poor. Some regulation by Boysen Reservoir (station 06258900) since October 1951. Diversions for irrigation of about 376,000 acres upstream from station. U.S. Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1923, 14.8 ft, Sept. 30, 1923, site and datum in use April 1932 to May 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1950	1700	1800	2100	2000	1480	1020	920	3750	5060	1150	958
2	1800	1700	1850	2100	2000	1480	1040	1130	2890	5090	1080	970
3	1760	1630	1900	2100	2000	1480	1040	1120	2650	4930	1110	980
4	1670	1600	1950	2100	1950	1290	1040	1050	2550	4160	1170	992
5	1680	1600	1900	2100	2000	1260	1030	1100	2400	3810	1360	1040
6	1720	1700	2000	2100	2000	1280	1010	1180	2300	3390	1200	1120
7	1720	1720	2100	2000	2000	1260	973	1520	2230	2880	1110	1210
8	1720	1810	2100	2000	2000	1170	969	1990	2200	2310	993	1260
9	1690	1810	2100	2000	1900	1120	923	2350	2000	2010	914	1270
10	1830	1850	2100	2100	1920	1110	927	2700	1880	1670	889	1200
11	1750	1870	2120	2100	1880	1100	850	2400	1800	1480	853	1130
12	1720	1800	2150	2100	1700	1100	800	1880	1760	1610	787	1120
13	1710	1820	2200	2000	1600	1110	770	1620	1790	3440	804	1130
14	1690	2020	2200	2000	1600	1120	720	1490	1990	3500	811	1160
15	1700	2320	2200	2100	1700	1100	800	1440	2620	2380	827	1150
16	1690	2020	2150	2000	1630	1120	1000	1630	7260	1950	829	1140
17	1670	1780	2150	2000	1600	1130	1220	1840	7110	1660	882	1070
18	1630	1750	2100	2100	1500	1150	1070	1590	4500	1450	970	1060
19	1640	1740	2100	2100	1600	1180	1220	1670	3520	1320	939	1080
20	1640	1700	2070	2100	1800	1220	1050	2250	3210	1460	885	1100
21	1670	1830	2100	2100	1900	1180	1000	3060	3200	2660	844	1100
22	1680	1950	2100	2100	1800	1130	924	4030	3130	5170	868	1090
23	1670	1900	2000	2200	1700	1120	930	3580	3190	3460	909	1060
24	1750	1830	2100	2100	1600	1120	964	2520	3280	2810	974	1060
25	1730	1830	2000	2000	1500	1100	890	2720	3290	2570	1010	1040
26	1750	1950	2000	2000	1500	1090	859	2280	3990	2500	944	1040
27	1720	1980	2000	1980	1500	1080	832	1790	3710	2670	917	1100
28	1750	1970	2000	1900	1500	1050	853	2650	3720	2060	914	1130
29	1780	1900	2100	1930	1500	1040	850	2710	3400	1500	914	1130
30	1710	1800	2000	2000	---	1050	843	2470	4070	1320	906	1120
31	1700	---	2000	2000	---	1040	---	3870	---	1220	919	---
TOTAL	53290	54880	63640	63610	50880	36260	28417	64550	95390	83500	29682	33010
MEAN	1719	1829	2053	2052	1754	1170	947	2082	3180	2694	957	1100
MAX	1950	2320	2200	2200	2000	1480	1220	4030	7260	5170	1360	1270
MIN	1630	1600	1800	1900	1500	1040	720	920	1760	1220	787	958
AC-FT	105700	108900	126200	126200	100900	71920	56370	128000	189200	165600	58870	65480

YELLOWSTONE RIVER BASIN
06279500 BIGHORN RIVER AT KANE, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)*

MEAN	1810	1699	1468	1372	1551	1820	1827	3201	5924	3124	1424	1513
MAX	3994	2871	2506	2871	3164	3171	3454	7505	14680	11650	6388	3673
(WY)	1983	1984	1983	1972	1983	1972	1943	1947	1944	1967	1930	1973
MIN	524	737	627	580	550	740	696	1005	1032	501	305	386
(WY)	1936	1961	1961	1937	1933	1989	1961	1960	1934	1961	1940	1935

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1930 - 1992*		
ANNUAL TOTAL	997770			657109			--		
ANNUAL MEAN	2734			1795			2227		
HIGHEST ANNUAL MEAN	--			--			3524		
LOWEST ANNUAL MEAN	--			--			915		
HIGHEST DAILY MEAN	17000	Jun	8	7260	Jun	16	24800	Jun	15
LOWEST DAILY MEAN	930	Jan	5	720	Apr	14	179	Jul	22
ANNUAL SEVEN-DAY MINIMUM	960	Jan	1	827	Apr	9	184	Jul	18
INSTANTANEOUS PEAK FLOW	--			9060a	Jun	16	25200	Jun	16
INSTANTANEOUS PEAK STAGE	--			9.41b	Dec	8	11.10c	Jun	16
ANNUAL RUNOFF (AC-FT)	1979000			1303000			1614000		
10 PERCENT EXCEEDS	6290			2680			4010		
50 PERCENT EXCEEDS	1700			1710			1650		
90 PERCENT EXCEEDS	1150			954			780		

* Aug. 1928 to Sept. 1929 not used in computations, monthly discharge only for selected months.
a Gage height, 5.70 ft.
b Backwater from ice.
c Site and datum then in use.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 14...	0910	1910	940	2.5	1490	7680
FEB 04...	1200	1950	760	0.0	54	284
MAR 03...	1410	1440	1020	6.5	221	859
18...	1345	1150	1110	5.0	54	168
APR 28...	1045	849	1070	15.0	122	280
JUN 03...	1900	2530	740	17.5	905	6180
JUL 15...	1020	2410	820	19.0	6500	42300
AUG 31...	1350	924	1140	16.5	86	215
SEP 09...	1315	1280	1080	14.0	276	954
18...	1100	1060	1090	12.0	140	401

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLOPYRALID WATER UNFLTRD REC (UG/L)
JUN 03...	1900	2530	17.5	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	--
AUG 31...	1350	924	16.5	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY

LOCATION.--Lat 44°33'31", long 109°59'15", Park County, Hydrologic Unit 10080012, Shoshone National Forest, on left bank 0.3 mi upstream from mouth and 4.0 mi north of Pahaska.
DRAINAGE AREA.--24.8 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Sept. 24-30. Records fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	23	145	120	95	33	19
2	---	---	---	---	---	---	26	152	114	89	32	18
3	---	---	---	---	---	---	33	165	111	90	32	17
4	---	---	---	---	---	---	37	181	106	84	32	26
5	---	---	---	---	---	---	35	203	102	77	31	25
6	---	---	---	---	---	---	29	222	94	73	32	28
7	---	---	---	---	---	---	28	251	89	69	31	26
8	---	---	---	---	---	---	27	265	85	65	30	23
9	---	---	---	---	---	---	25	257	85	62	29	23
10	---	---	---	---	---	---	25	222	93	59	29	21
11	---	---	---	---	---	---	24	193	99	70	31	21
12	---	---	---	---	---	---	31	170	97	69	29	20
13	---	---	---	---	---	16	48	162	97	61	25	20
14	---	---	---	---	---	18	60	163	93	56	24	18
15	---	---	---	---	---	18	63	181	104	54	23	18
16	---	---	---	---	---	18	74	188	110	51	25	18
17	---	---	---	---	---	18	84	181	119	49	24	17
18	---	---	---	---	---	17	72	188	127	48	23	17
19	---	---	---	---	---	17	60	194	135	48	22	17
20	---	---	---	---	---	16	55	190	132	51	22	17
21	---	---	---	---	---	15	57	168	129	64	22	17
22	---	---	---	---	---	14	61	161	125	50	22	16
23	---	---	---	---	---	14	57	158	119	47	21	15
24	---	---	---	---	---	15	53	159	112	44	21	15
25	---	---	---	---	---	16	52	157	120	42	20	15
26	---	---	---	---	---	17	66	162	103	40	20	15
27	---	---	---	---	---	18	95	151	99	39	19	15
28	---	---	---	---	---	18	113	148	92	38	18	15
29	---	---	---	---	---	18	131	145	91	37	18	15
30	---	---	---	---	---	20	148	137	101	35	18	15
31	---	---	---	---	---	21	---	127	---	33	19	---
TOTAL	---	---	---	---	---	---	1692	5546	3203	1789	777	562
MEAN	---	---	---	---	---	---	56.4	179	107	57.7	25.1	18.7
MAX	---	---	---	---	---	---	148	265	135	95	33	28
MIN	---	---	---	---	---	---	23	127	85	33	18	15
AC-FT	---	---	---	---	---	---	3360	11000	6350	3550	1540	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	52.6	138	169	63.0
MAX	65.0	179	213	69.5
(WY)	1990	1992	1989	1990
MIN	9.6	80.0	107	57.7
(WY)	1991	1990	1992	1992

SUMMARY STATISTICS
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*
265 May 8
14 Mar 22, 23
--
303 May 8
4.84 May 8
--
--
--

WATER YEARS 1989 - 1992*
308 May 25 1991
6.9 Apr 5 1989
7.8 Mar 30 1989
777a Jul 27 1989
6.35b Jul 27 1989
178
42
15

* During period of operation.

a From rating curve extended above 300 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1989 to current year (no winter records).

PH: March 1989 to current year (no winter records).

WATER TEMPERATURES: March 1989 to current year (no winter records).

SUSPENDED-SEDIMENT DISCHARGE: March 1989 to current year (no winter records).

INSTRUMENTATION.--Water-quality monitor and sediment pumping sampler.

REMARKS.--Water-temperature records represent water temperature at sensor within 0.1°C.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 144 microsiemens, Aug. 8, 1990; minimum daily mean, 45 microsiemens, June 19, 1989.

PH: Maximum, 10.0, May 31, June 1, 3, 4, 1990; minimum, 6.4, Sept. 7-9, 1989.

WATER TEMPERATURES: Maximum, 20.3°C, Aug. 18, 1992; minimum, 0.0°C, Mar. 20, 1989.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,630 mg/L, July 28, 1989; minimum daily mean, 1 mg/L, Aug. 14-18, 1991.

SEDIMENT LOADS: Maximum daily, 398 tons, Aug. 2, 1989; minimum daily, 0.04 ton, Mar. 31, Apr. 1, 1989.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean during period of operation, 91 microsiemens, Mar. 20; minimum daily mean during period of operation, 52 microsiemens, May 19, 24, 25, 27.

PH: Maximum during period of operation, 8.6, Apr. 26, July 26-30, Sept. 13, 20, 22; minimum during period of operation, 7.1, May 18-20, Aug. 30, Sept. 1.

WATER TEMPERATURES: Maximum during period of operation, 20.3°C, Aug. 18; minimum during period of operation, 0.0°C, Mar. 13-16, 19, Mar. 21 to Apr. 9.

SEDIMENT CONCENTRATIONS: Maximum daily mean during period of operation, 975 mg/L, June 25; minimum daily mean during period of operation, 2 mg/L, Aug. 31, Sept. 19-30.

SEDIMENT LOADS: Maximum daily mean during period of operation, 384 tons, May 20; minimum daily mean during period of operation, 0.08 ton, Sept. 23-30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
MAR											
13...	1240	15	88	8.0	2.0	14	591	10.8	101	0.01	<0.01
APR											
07...	1230	31	80	8.0	1.0	10	593	10.0	91	0.01	<0.01
28...	1300	103	73	8.0	5.0	11	595	10.0	101	<0.01	<0.01
MAY											
08...	1230	241	60	7.7	7.0	12	590	10.6	113	0.01	<0.01
19...	1200	184	55	7.6	6.5	6.8	593	9.0	94	<0.01	<0.01
29...	1100	146	57	8.0	5.5	4.1	590	10.3	106	<0.01	<0.01
JUN											
09...	1100	81	62	8.0	8.5	1.7	593	9.5	105	<0.01	<0.01
19...	1200	128	59	7.9	9.0	3.6	597	9.0	100	<0.01	<0.01
30...	1100	103	62	7.8	7.5	12	585	8.9	97	0.01	<0.01
JUL											
22...	1130	49	71	7.9	9.5	2.0	595	8.7	98	<0.01	<0.01
AUG											
13...	1200	25	81	8.1	10.5	1.2	599	8.1	93	<0.01	<0.01
SEP											
03...	1305	18	87	8.2	8.5	1.0	595	9.0	99	<0.01	<0.01

YELLOWSTONE RIVER BASIN

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WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
MAR 13...	0.40	0.39	0.01	<0.01	<0.2	0.07	0.06	0.07	0.08	4.3	0.2
APR 07...	0.76	0.84	0.02	0.24	<0.2	0.08	0.06	0.07	0.08	--	--
28...	0.94	0.93	0.01	0.04	<0.2	0.10	0.06	0.06	0.06	--	--
MAY 08...	1.20	1.20	0.06	0.06	0.3	0.080	0.05	0.05	0.10	2.9	1.1
19...	1.00	1.00	0.03	0.03	<0.2	0.08	0.06	0.06	0.07	5.9	0.5
29...	0.78	2.60	0.04	0.03	<0.2	0.07	0.07	0.05	0.07	2.9	0.2
JUN 09...	0.55	0.57	<0.01	0.01	<0.2	0.08	0.09	0.11	0.10	4.6	0.2
19...	0.50	0.51	0.03	0.02	<0.2	0.06	0.02	0.05	0.05	--	--
30...	0.47	0.48	0.02	0.03	<0.2	0.16	0.05	0.05	0.06	--	--
JUL 22...	0.30	0.32	0.02	0.03	<0.2	0.04	0.05	0.05	0.05	--	--
AUG 13...	0.30	0.30	0.03	0.01	<0.2	0.07	0.05	0.05	0.05	--	--
SEP 03...	0.22	0.21	0.01	0.03	<0.2	0.06	0.05	0.06	0.06	1.5	--

DATE	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
MAR 13...	23	6.4	1.8	9.8	0.9	1.0	39	4.8	<1.0	0.2	25
APR 07...	26	6.9	2.1	8.1	0.7	--	--	--	--	--	25
28...	23	6.7	1.6	6.7	0.6	--	--	--	--	--	21
MAY 08...	21	5.8	1.5	4.7	0.4	1.0	24	5.2	0.7	<0.1	24
19...	19	5.3	1.4	4.2	0.4	0.9	23	2.8	0.4	0.1	22
29...	18	5.0	1.4	4.6	0.5	0.8	23	3.3	0.6	<0.1	24
JUN 09...	19	5.1	1.4	4.4	0.4	0.9	25	2.5	0.6	<0.1	23
19...	19	5.1	1.5	4.4	0.4	--	--	--	--	--	25
30...	20	5.2	1.6	4.8	0.5	--	--	--	--	--	26
JUL 22...	20	5.5	1.6	5.8	0.6	--	--	--	--	--	25
AUG 13...	22	6.0	1.8	7.5	0.7	--	--	--	--	--	27
SEP 03...	23	6.3	1.7	8.0	0.7	1.0	39	3.5	0.4	0.1	27

YELLOWSTONE RIVER BASIN

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06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	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)	COBALT, DIS- SOLVED (UG/L AS CO)
MAR 13...	E72	E0.10	E2.92	90	1	3	<0.5	30	<1.0	<1	<3
APR 07...	--	--	--	130	--	--	--	20	--	--	--
28...	--	--	--	40	--	--	--	<10	--	--	--
MAY 08...	63	0.09	41.1	150	<1	6	<0.5	10	<1.0	<1	<3
19...	56	0.08	27.7	120	<1	3	<0.5	<10	<1.0	<1	<3
29...	65	0.09	25.8	70	<1	4	<0.5	<10	<1.0	<1	<3
JUN 09...	56	0.08	12.2	30	1	4	<0.5	10	<1.0	<1	<3
19...	--	--	--	90	--	--	--	<10	--	--	--
30...	--	--	--	100	--	--	--	10	--	--	--
JUL 22...	--	--	--	40	--	--	--	30	--	--	--
AUG 13...	--	--	--	<10	--	--	--	20	--	--	--
SEP 03...	73	0.10	3.53	<10	1	4	0.5	30	<1.0	2	<3

E-Estimate.

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 13...	<1	76	<1	<4	2	<0.1	<1	<1.0	37	6
APR 07...	--	110	--	--	2	--	--	--	--	--
28...	--	26	--	--	9	--	--	--	--	--
MAY 08...	2	100	<1	<4	13	<0.1	<1	<1.0	36	16
19...	2	88	<1	<4	4	<0.1	<1	4.0	31	10
29...	2	47	<1	<4	3	<0.1	<1	<1.0	34	10
JUN 09...	<1	21	<1	<4	2	<0.1	<1	4.0	29	5
19...	--	55	--	--	3	--	--	--	--	--
30...	--	84	--	--	4	--	--	--	--	--
JUL 22...	--	22	--	--	3	--	--	--	--	--
AUG 13...	--	33	--	--	4	--	--	--	--	--
SEP 03...	2	12	<1	<4	2	0.2	<1	<1.0	38	5

YELLOWSTONE RIVER BASIN

06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR				
13...	1240	15	133	5.4
APR				
07...	1230	31	60	5.0
28...	1300	103	115	32
MAY				
08...	1230	241	225	146
19...	1200	184	135	67
29...	1100	146	59	23
JUN				
09...	1100	81	18	3.9
19...	1200	128	35	12
30...	1100	103	105	29
JUL				
22...	1130	49	16	2.1
AUG				
13...	1200	25	5	0.36
SEP				
03...	1305	18	4	0.19
23...	0915	48	3	0.39

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	81	---	59	64	81	85
2	---	---	---	---	---	---	78	---	58	66	80	87
3	---	---	---	---	---	---	73	---	57	65	81	87
4	---	---	---	---	---	---	70	---	58	66	78	79
5	---	---	---	---	---	---	73	---	58	67	77	78
6	---	---	---	---	---	---	75	---	61	67	75	79
7	---	---	---	---	---	---	78	---	60	68	68	81
8	---	---	---	---	---	---	75	57	59	69	71	83
9	---	---	---	---	---	---	76	---	59	70	---	83
10	---	---	---	---	---	---	75	58	58	70	---	81
11	---	---	---	---	---	---	79	57	57	67	---	83
12	---	---	---	---	---	---	77	56	58	67	---	83
13	---	---	---	---	---	89	68	---	59	69	83	84
14	---	---	---	---	---	90	68	---	59	70	86	84
15	---	---	---	---	---	90	70	---	58	71	86	84
16	---	---	---	---	---	90	68	---	62	68	85	84
17	---	---	---	---	---	89	64	---	63	66	86	84
18	---	---	---	---	---	89	69	---	60	62	87	84
19	---	---	---	---	---	90	73	52	58	65	87	84
20	---	---	---	---	---	91	74	---	59	65	87	84
21	---	---	---	---	---	90	73	53	59	68	86	84
22	---	---	---	---	---	89	71	55	59	74	86	85
23	---	---	---	---	---	90	72	54	58	76	87	83
24	---	---	---	---	---	88	74	52	59	78	86	---
25	---	---	---	---	---	87	73	52	58	78	86	---
26	---	---	---	---	---	87	71	53	58	78	86	---
27	---	---	---	---	---	86	63	52	60	79	86	---
28	---	---	---	---	---	85	74	55	59	79	87	---
29	---	---	---	---	---	85	---	57	55	79	86	---
30	---	---	---	---	---	84	---	58	59	80	86	---
31	---	---	---	---	---	82	---	58	---	81	86	---
MAX	---	---	---	---	---	---	---	---	63	81	---	---
MIN	---	---	---	---	---	---	---	---	55	62	---	---

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06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	8.0	7.9
14	---	---	---	---	---	---	---	---	---	---	8.1	7.9
15	---	---	---	---	---	---	---	---	---	---	8.1	7.9
16	---	---	---	---	---	---	---	---	---	---	8.1	7.9
17	---	---	---	---	---	---	---	---	---	---	8.1	7.9
18	---	---	---	---	---	---	---	---	---	---	8.1	7.9
19	---	---	---	---	---	---	---	---	---	---	8.1	7.9
20	---	---	---	---	---	---	---	---	---	---	8.1	7.9
21	---	---	---	---	---	---	---	---	---	---	8.1	7.9
22	---	---	---	---	---	---	---	---	---	---	8.0	7.8
23	---	---	---	---	---	---	---	---	---	---	8.0	7.9
24	---	---	---	---	---	---	---	---	---	---	8.1	7.8
25	---	---	---	---	---	---	---	---	---	---	8.1	7.8
26	---	---	---	---	---	---	---	---	---	---	8.1	7.8
27	---	---	---	---	---	---	---	---	---	---	8.1	7.8
28	---	---	---	---	---	---	---	---	---	---	8.1	7.8
29	---	---	---	---	---	---	---	---	---	---	8.1	7.8
30	---	---	---	---	---	---	---	---	---	---	8.2	7.8
31	---	---	---	---	---	---	---	---	---	---	8.2	7.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.2	7.8	8.0	7.8	8.1	7.8	7.8	7.5	8.4	7.9	8.4	7.1
2	8.3	7.7	8.0	7.6	8.1	7.8	7.8	7.6	8.5	7.9	8.4	7.6
3	8.2	7.7	7.9	7.6	8.1	7.8	7.9	7.6	8.3	7.8	8.2	7.3
4	8.1	7.7	7.9	7.6	8.1	7.8	7.9	7.6	8.2	7.8	8.0	7.6
5	8.1	7.7	7.9	7.6	8.2	7.9	8.0	7.6	8.2	7.8	8.0	7.7
6	8.0	7.7	7.9	7.5	8.2	7.9	8.0	7.6	8.1	7.8	8.0	7.8
7	8.1	7.7	7.8	7.5	8.2	7.8	8.1	7.7	8.2	7.8	8.0	7.7
8	8.0	7.7	7.7	7.4	8.2	7.8	8.1	7.7	8.0	7.8	8.0	7.7
9	8.1	7.7	7.6	7.4	8.2	7.8	8.2	7.8	8.0	7.7	8.2	7.8
10	8.1	7.8	7.8	7.5	8.2	7.8	8.1	7.8	8.0	7.8	8.3	8.0
11	8.3	7.9	7.7	7.5	8.1	7.7	8.0	7.8	8.1	7.8	8.4	7.9
12	8.4	7.8	7.7	7.4	8.1	7.7	8.1	7.8	8.1	7.9	8.3	7.9
13	8.1	7.8	7.7	7.4	8.1	7.7	8.1	7.8	8.3	7.9	8.6	7.9
14	8.1	7.8	7.8	7.4	8.1	7.7	8.0	7.8	8.4	8.0	8.4	7.9
15	8.0	7.8	7.7	7.3	7.9	7.7	8.0	7.7	8.4	8.0	8.4	7.9
16	8.0	7.8	7.6	7.2	7.9	7.7	7.9	7.6	8.3	8.0	8.5	7.9
17	8.0	7.8	7.6	7.2	8.1	7.7	7.9	7.7	8.4	8.0	8.5	7.9
18	8.1	7.9	7.6	7.1	8.0	7.7	8.0	7.7	8.3	8.0	8.4	7.9
19	8.1	7.9	7.6	7.1	8.0	7.6	8.0	7.7	8.2	8.0	8.5	7.8
20	8.2	7.9	7.4	7.1	7.9	7.6	8.0	7.7	8.2	7.9	8.6	7.8
21	8.2	7.9	7.4	7.3	7.9	7.6	8.1	7.8	8.1	7.8	8.5	7.8
22	8.2	8.0	7.6	7.4	8.0	7.6	8.5	7.8	8.3	7.9	8.6	7.7
23	8.2	7.9	7.7	7.4	8.0	7.6	8.5	7.9	8.2	7.9	---	---
24	8.4	8.0	7.7	7.5	8.0	7.6	8.5	7.9	8.1	7.9	---	---
25	8.4	8.0	7.9	7.6	8.0	7.5	8.5	7.9	8.2	7.8	---	---
26	8.6	7.9	7.9	7.6	7.8	7.6	8.6	7.9	8.1	7.8	---	---
27	8.3	7.8	7.9	7.7	8.0	7.7	8.6	7.9	8.1	7.8	---	---
28	8.1	7.8	8.1	7.8	7.9	7.7	8.6	7.9	8.0	7.7	---	---
29	8.1	7.7	8.1	7.8	7.9	7.7	8.6	7.9	7.9	7.6	---	---
30	7.8	7.7	8.2	7.9	7.8	7.5	8.6	7.9	7.6	7.1	---	---
31	---	---	8.1	7.9	---	---	8.5	7.9	8.4	7.6	---	---
MONTH	8.6	7.7	8.2	7.1	8.2	7.5	8.6	7.5	8.5	7.1	---	---

YELLOWSTONE RIVER BASIN

06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	3.8	.0
14	---	---	---	---	---	---	---	---	---	---	4.2	.0
15	---	---	---	---	---	---	---	---	---	---	4.4	.0
16	---	---	---	---	---	---	---	---	---	---	2.9	.0
17	---	---	---	---	---	---	---	---	---	---	3.0	.5
18	---	---	---	---	---	---	---	---	---	---	2.3	.3
19	---	---	---	---	---	---	---	---	---	---	3.1	.0
20	---	---	---	---	---	---	---	---	---	---	2.8	.6
21	---	---	---	---	---	---	---	---	---	---	3.5	.0
22	---	---	---	---	---	---	---	---	---	---	2.4	.0
23	---	---	---	---	---	---	---	---	---	---	1.8	.0
24	---	---	---	---	---	---	---	---	---	---	4.1	.0
25	---	---	---	---	---	---	---	---	---	---	5.7	.0
26	---	---	---	---	---	---	---	---	---	---	5.0	.0
27	---	---	---	---	---	---	---	---	---	---	4.6	.0
28	---	---	---	---	---	---	---	---	---	---	5.2	.0
29	---	---	---	---	---	---	---	---	---	---	5.2	.0
30	---	---	---	---	---	---	---	---	---	---	6.8	.0
31	---	---	---	---	---	---	---	---	---	---	7.0	.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	.0	4.5	.0	11.6	3.7	11.2	4.9	13.2	6.9	---	---
2	7.7	.0	5.1	.0	9.9	3.9	10.4	5.4	14.2	5.7	---	---
3	7.9	.0	7.7	.0	9.5	3.9	12.0	5.1	13.2	6.7	---	---
4	6.5	.0	9.3	.0	10.8	3.7	11.6	5.7	14.6	5.5	---	---
5	5.6	.0	9.2	1.7	7.3	4.5	14.4	6.0	14.5	5.5	---	---
6	3.3	.0	8.8	2.4	9.9	4.1	13.7	6.9	14.0	5.0	---	---
7	3.4	.0	8.8	2.2	11.1	4.7	13.6	6.6	14.3	5.3	---	---
8	1.6	.0	5.3	2.5	10.9	4.7	11.2	5.7	14.9	5.7	---	---
9	.4	.0	4.7	1.5	13.5	4.5	12.2	5.6	16.4	7.5	---	---
10	.1	.1	6.7	.6	14.3	6.5	13.4	7.4	16.4	6.7	---	---
11	1.1	.1	4.2	1.3	10.3	5.3	9.6	6.3	15.4	6.5	---	---
12	8.9	.1	5.3	.4	13.3	4.7	9.4	6.8	16.0	5.9	---	---
13	8.7	.1	6.7	1.3	12.3	5.9	12.9	5.9	16.5	6.5	---	---
14	7.2	1.9	9.1	2.1	10.7	5.7	15.9	6.9	18.6	9.0	---	---
15	6.7	3.2	8.2	3.2	7.2	4.6	15.0	6.9	15.1	8.9	---	---
16	7.7	1.7	9.2	2.5	7.4	3.7	15.5	6.0	14.1	10.4	---	---
17	4.0	.6	11.1	2.9	11.1	5.6	15.3	6.6	16.2	8.0	---	---
18	4.7	.3	10.1	3.7	13.3	4.8	16.0	6.3	20.3	9.8	---	---
19	4.7	.3	11.1	2.5	11.8	6.5	11.6	8.6	---	---	---	---
20	8.9	.3	9.7	4.6	12.3	4.8	14.3	7.3	---	---	---	---
21	6.8	.9	7.5	4.5	13.5	5.3	9.6	7.7	---	---	---	---
22	6.3	1.1	8.7	4.4	11.8	6.5	16.6	6.9	---	---	---	---
23	4.0	.4	10.3	4.7	15.1	6.8	15.6	8.5	---	---	---	---
24	8.5	.4	8.6	4.5	13.0	6.3	16.4	7.2	---	---	---	---
25	8.4	1.2	10.8	4.4	11.8	6.8	15.0	6.6	---	---	---	---
26	10.5	2.2	10.3	4.7	12.3	7.1	16.2	6.7	---	---	---	---
27	9.8	3.3	7.5	5.0	15.8	7.3	15.5	7.1	---	---	---	---
28	7.9	2.1	10.0	3.5	15.9	7.5	14.0	7.3	---	---	---	---
29	8.5	1.2	8.4	3.3	12.9	8.6	15.2	6.3	---	---	---	---
30	5.2	.0	9.4	3.7	8.9	6.2	16.3	5.5	---	---	---	---
31	---	---	8.3	3.3	---	---	14.4	6.5	---	---	---	---
MONTH	10.5	.0	11.1	.0	15.9	3.7	16.6	4.9	---	---	---	---

YELLOWSTONE RIVER BASIN
06279790 JONES CREEK AT MOUTH, NEAR PAHASKA, WY--Continued

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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	23	24	1.5	145	184	72	120	19	6.2
2	26	30	2.1	152	144	59	114	16	4.9
3	33	42	3.7	165	132	59	111	13	3.9
4	37	36	3.6	181	177	86	106	17	4.9
5	35	30	2.8	203	300	164	102	16	4.4
6	29	36	2.8	222	498	299	94	14	3.6
7	28	45	3.4	251	527	357	89	13	3.1
8	27	20	1.5	265	385	275	85	13	3.0
9	25	15	1.0	257	184	128	85	16	3.7
10	25	14	.94	222	140	84	93	14	3.5
11	24	11	.71	193	88	46	99	31	9.0
12	31	60	5.0	170	70	32	97	29	7.6
13	48	115	15	162	49	21	97	13	3.4
14	60	106	17	163	72	32	93	10	2.5
15	63	79	13	181	117	57	104	16	4.5
16	74	108	22	188	115	58	110	17	5.0
17	84	93	21	181	130	64	119	20	6.4
18	72	61	12	188	194	98	127	33	11
19	60	42	6.8	194	251	131	135	29	11
20	55	23	3.4	190	749	384	132	23	8.2
21	57	47	7.2	168	639	290	129	39	14
22	61	34	5.6	161	141	61	125	43	15
23	57	8	1.2	158	176	75	119	30	9.6
24	53	9	1.3	159	148	64	112	14	4.2
25	52	14	2.0	157	97	41	120	975	370
26	66	35	6.2	162	76	33	103	504	140
27	95	69	20	151	54	22	99	87	23
28	113	92	28	148	34	14	92	57	14
29	131	200	71	145	35	14	91	72	18
30	148	316	126	137	20	7.4	101	119	32
31	---	---	---	127	21	7.2	---	---	---
TOTAL	1692	---	407.75	5546	---	3134.6	3203	---	749.6
JULY			AUGUST			SEPTEMBER			
1	95	55	14	33	22	2.0	19	6	.31
2	89	40	9.6	32	17	1.5	18	4	.19
3	90	25	6.1	32	13	1.1	17	3	.14
4	84	17	3.9	32	12	1.0	26	14	1.2
5	77	19	4.0	31	19	1.6	25	9	.61
6	73	16	3.2	32	18	1.6	28	6	.45
7	69	12	2.2	31	14	1.2	26	3	.21
8	65	12	2.1	30	24	1.9	23	3	.19
9	62	10	1.7	29	25	2.0	23	3	.19
10	59	9	1.4	29	17	1.3	21	4	.23
11	70	23	4.8	31	20	1.7	21	3	.17
12	69	29	5.5	29	23	1.8	20	4	.22
13	61	19	3.1	25	12	.81	20	4	.22
14	56	11	1.7	24	9	.58	18	3	.15
15	54	10	1.5	23	7	.43	18	4	.19
16	51	10	1.4	25	7	.47	18	3	.15
17	49	8	1.1	24	7	.45	17	3	.14
18	48	7	.91	23	7	.43	17	3	.14
19	48	7	.91	22	6	.36	17	2	.09
20	51	18	3.0	22	6	.36	17	2	.09
21	64	44	8.1	22	5	.30	17	2	.09
22	50	20	2.7	22	4	.24	16	2	.09
23	47	17	2.2	21	3	.17	15	2	.08
24	44	16	1.9	21	3	.17	15	2	.08
25	42	13	1.5	20	4	.22	15	2	.08
26	40	13	1.4	20	4	.22	15	2	.08
27	39	10	1.1	19	3	.15	15	2	.08
28	38	6	.62	18	3	.15	15	2	.08
29	37	12	1.2	18	4	.19	15	2	.08
30	35	23	2.2	18	3	.15	15	2	.08
31	33	27	2.4	19	2	.10	---	---	---
TOTAL	1789	---	97.44	777	---	24.65	562	---	6.10

YELLOWSTONE RIVER BASIN
06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY

LOCATION.--Lat 44°30'48", long 109°58'22", Park County, Hydrologic Unit 10080012, Shoshone National Forest, on right bank 0.3 mi upstream from mouth and 0.8 mi northwest of Pahaska.
DRAINAGE AREA.--19.1 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,760 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 12-31, Apr. 11-25, May 15-18, Aug. 14-25, and Sept. 24-30. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	7.3	44	63	60	23	11
2	---	---	---	---	---	---	7.9	45	62	58	22	10
3	---	---	---	---	---	---	9.3	48	62	57	22	10
4	---	---	---	---	---	---	11	55	62	55	22	11
5	---	---	---	---	---	---	11	62	60	53	21	11
6	---	---	---	---	---	---	9.9	73	56	51	21	12
7	---	---	---	---	---	---	10	82	54	48	20	11
8	---	---	---	---	---	---	9.6	91	53	46	20	10
9	---	---	---	---	---	---	9.6	83	53	45	20	9.6
10	---	---	---	---	---	---	9.9	65	55	42	19	9.6
11	---	---	---	---	---	---	11	58	60	45	19	9.6
12	---	---	---	---	---	5.2	12	53	56	46	19	9.3
13	---	---	---	---	---	5.4	13	47	55	42	19	9.3
14	---	---	---	---	---	5.4	14	50	51	39	17	9.1
15	---	---	---	---	---	5.4	14	54	56	38	16	9.1
16	---	---	---	---	---	5.6	16	61	55	37	17	9.1
17	---	---	---	---	---	5.8	18	74	57	35	16	9.1
18	---	---	---	---	---	5.7	16	76	59	34	15	9.1
19	---	---	---	---	---	5.6	14	81	58	33	14	9.1
20	---	---	---	---	---	5.6	13	81	61	33	14	9.1
21	---	---	---	---	---	5.6	14	79	63	35	14	9.1
22	---	---	---	---	---	5.8	14	70	61	32	14	9.1
23	---	---	---	---	---	6.0	13	71	60	31	13	9.1
24	---	---	---	---	---	6.2	13	73	61	28	13	9.1
25	---	---	---	---	---	6.2	15	78	79	28	12	9.1
26	---	---	---	---	---	6.4	21	81	67	27	12	9.1
27	---	---	---	---	---	6.4	33	83	63	26	12	9.1
28	---	---	---	---	---	6.6	36	75	62	26	11	9.1
29	---	---	---	---	---	6.6	47	74	62	26	11	9.1
30	---	---	---	---	---	6.8	49	69	67	25	11	9.1
31	---	---	---	---	---	7.0	---	64	---	23	11	---
TOTAL	---	---	---	---	---	---	491.5	2100	1793	1204	510	288.1
MEAN	---	---	---	---	---	---	16.4	67.7	59.8	38.8	16.5	9.60
MAX	---	---	---	---	---	---	49	91	79	60	23	12
MIN	---	---	---	---	---	---	7.3	44	51	23	11	9.1
AC-FT	---	---	---	---	---	---	975	4170	3560	2390	1010	571

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	14.4	52.0	119	52.3
MAX	18.5	67.7	155	58.2
(WY)	1990	1992	1991	1991
MIN	6.49	36.0	59.8	38.8
(WY)	1991	1990	1992	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

FOR 1992 WATER YEAR*

91 May 8

5.2 Mar 12

WATER YEARS 1989 - 1992*

259 Jun 12 1991

4.0 Mar 9 1989,

Mar 26 1991

4.2 Mar 14 1989

324 Jun 12 1991

2.74 Jun 12 1991

98

21

6.4

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

201 Jun 25

2.41 Jun 25

* During period of operation.

06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1989 to current year (no winter record).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1989 to current year (no winter record).

PH: June 1989 to current year (no winter record).

WATER TEMPERATURES: July 1989 to current year (no winter record).

SUSPENDED-SEDIMENT DISCHARGE: March 1989 to current year (no winter record).

INSTRUMENTATION.--Water-quality monitor and sediment pumping sampler.

REMARKS.--Water-temperature records represent water temperature at sensor within 0.2°C.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 112 microsiemens, May 5, 1990; minimum daily mean, 38 microsiemens, May 30, 1990.

PH: Maximum, 9.2, July 17, 1991; minimum, 6.5, July 22, 1992.

WATER TEMPERATURE: Maximum, 14.9°C, Aug. 8, 1990; minimum, 0.0°C on many days during March and April most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 204 mg/L, June 25, 1992; minimum daily mean, 0 mg/L, Sept. 27-30, 1989.

SEDIMENT LOAD: Maximum daily, 118 tons, June 12, 1991; minimum daily, 0 ton, Sept. 27-30, 1989.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean during period of operation, 91 microsiemens, Mar. 24, 26, 28; minimum daily mean during period of operation, 48 microsiemens, May 7.

PH: Maximum during period of operation, 9.0, Aug. 8; minimum during period of operation, 6.5, July 22.

WATER TEMPERATURES: Maximum during period of operation, 14.8°C, Aug. 14; minimum, 0.0°C on many days during March and April.

SEDIMENT CONCENTRATIONS: Maximum daily mean during period of operation, 204 mg/L, June 25; minimum daily mean during period of operation, 2 mg/L, Apr. 23.

SEDIMENT LOADS: Maximum daily during period of operation, 63 tons, June 25; minimum daily during period of operation, 0.07 ton, Apr. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
12...	1340	4.1	97	8.1	1.0	2.1	592	10.8	98	<0.01	<0.01
APR											
06...	1530	10	82	8.0	1.0	0.80	594	8.4	76	<0.01	<0.01
27...	1700	52	66	8.2	8.0	2.4	600	9.2	98	<0.01	<0.01
MAY											
07...	1600	92	49	8.3	9.0	25	598	11.6	129	<0.01	0.04
18...	1730	86	52	7.8	9.5	12	596	8.6	97	<0.01	<0.01
28...	1630	90	56	8.0	7.5	1.7	595	9.6	103	<0.01	<0.01
JUN											
08...	1530	53	64	8.0	8.0	2.0	598	9.6	104	<0.01	<0.01
18...	1545	74	56	7.9	9.5	2.2	600	9.6	107	<0.01	<0.01
29...	1730	56	64	7.6	10.0	3.2	592	8.2	94	<0.01	<0.01
JUL											
21...	1800	40	69	7.8	9.5	15	600	8.2	91	0.02	<0.01
AUG											
12...	1700	18	82	8.3	12.5	1.0	602	8.1	97	<0.01	<0.01
SEP											
02...	1020	9.6	84	8.0	5.5	1.1	600	9.7	98	<0.01	<0.01

YELLOWSTONE RIVER BASIN

06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
MAR											
12...	<0.05	<0.05	<0.01	<0.01	<0.2	0.02	0.02	0.05	0.04	1.2	<0.1
APR											
06...	<0.05	0.15	0.01	0.02	<0.2	0.04	0.04	0.05	0.05	--	--
27...	<0.05	<0.05	0.01	0.02	0.4	0.04	0.04	0.02	0.03	--	--
MAY											
07...	0.19	0.47	0.02	0.09	<0.2	0.12	0.03	0.04	0.05	3.6	<0.1
18...	0.07	0.09	0.02	0.02	<0.2	0.08	0.05	0.04	0.04	2.8	0.4
28...	<0.05	0.12	0.03	0.03	<0.2	0.05	0.05	0.03	0.04	2.0	0.1
JUN											
08...	<0.05	<0.05	0.02	<0.01	<0.2	0.07	0.12	0.14	0.09	1.3	0.1
18...	<0.05	<0.05	0.02	0.02	<0.2	0.05	0.01	0.03	0.04	--	--
29...	<0.05	<0.05	0.02	0.04	<0.2	0.08	0.03	0.03	0.02	--	--
JUL											
21...	<0.05	<0.05	0.03	0.02	<0.2	0.04	0.03	0.03	0.05	--	--
AUG											
12...	<0.05	<0.05	0.02	0.01	<0.2	0.04	0.02	0.04	0.04	--	--
SEP											
02...	<0.05	0.06	<0.01	0.02	<0.2	0.04	0.03	0.04	0.04	1.6	0.6
DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
MAR											
12...	29	8.1	2.2	10	0.8	0.8	47	4.5	<1.0	0.2	26
APR											
06...	26	7.2	2.0	9.0	0.8	--	--	--	--	--	24
27...	23	6.5	1.7	5.9	0.5	--	--	--	--	--	22
MAY											
07...	16	4.4	1.3	4.0	0.4	0.8	24	1.9	<0.1	<0.1	20
18...	17	4.7	1.3	4.1	0.4	0.6	23	1.7	0.2	<0.1	17
28...	18	5.0	1.3	5.0	0.5	0.4	24	2.5	<0.1	<0.1	18
JUN											
08...	18	5.2	1.3	4.7	0.5	0.5	27	2.2	<0.1	<0.1	18
18...	18	5.1	1.3	4.3	0.4	--	--	--	--	--	19
29...	18	5.2	1.3	4.9	0.5	--	--	--	--	--	20
JUL											
21...	20	5.6	1.5	5.5	0.5	--	--	--	--	--	20
AUG											
12...	25	6.9	1.9	7.7	0.7	--	--	--	--	--	24
SEP											
02...	28	7.7	2.0	8.1	0.7	0.9	43	4.0	0.3	<0.1	25

YELLOWSTONE RIVER BASIN

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06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	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)	COBALT, DIS- SOLVED (UG/L AS CO)
MAR 12...	E80	E0.11	E0.88	10	1	4	<0.5	30	<1.0	<1	<3
APR 06...	--	--	--	20	--	--	--	40	--	--	--
27...	--	--	--	210	--	--	--	10	--	--	--
MAY 07...	E47	E0.07	E11.7	90	<1	5	<0.5	10	<1.0	1	<3
18...	44	0.06	10.3	110	<1	5	<0.5	--	<1.0	<1	<3
28...	E48	E0.07	E6.9	60	<1	4	0.5	<10	1.0	<1	<3
JUN 08...	--	--	--	20	1	5	<0.5	<10	<1.0	<1	<3
18...	--	--	--	60	--	--	--	<10	--	--	--
29...	--	--	--	30	--	--	--	<10	--	--	--
JUL 21...	--	--	--	90	--	--	--	<10	--	--	--
AUG 12...	--	--	--	<10	--	--	--	20	--	--	--
SEP 02...	74	0.10	1.93	<10	<1	7	<0.5	20	<1.0	<1	<3

E-Estimate.

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 12...	<1	9	<1	<4	<1	<0.1	<1	<1.0	46	<3
APR 06...	--	23	--	--	<1	--	--	--	--	--
27...	--	130	--	--	7	--	--	--	--	--
MAY 07...	2	90	1	<4	4	0.1	<1	<1.0	33	7
18...	3	78	2	<4	3	0.3	<1	1.0	34	9
28...	4	36	1	<4	4	<0.1	<1	<1.0	68	17
JUN 08...	<1	16	<1	<4	2	<0.1	<1	2.0	39	7
18...	--	41	--	--	3	--	--	--	--	--
29...	--	23	--	--	2	--	--	--	--	--
JUL 21...	--	77	--	--	3	--	--	--	--	--
AUG 12...	--	6	--	--	3	--	--	--	--	--
SEP 02...	3	12	<1	<4	2	0.3	<1	<1.0	53	5

YELLOWSTONE RIVER BASIN

06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR				
12...	1340	4.1	2	0.02
APR				
06...	1530	10	4	0.11
27...	1700	52	110	15
MAY				
07...	1600	92	306	76
18...	1730	86	204	47
28...	1630	90	28	6.8
JUN				
08...	1530	53	25	3.6
18...	1545	74	27	5.4
29...	1730	56	42	6.4
JUL				
21...	1800	40	36	3.9
AUG				
12...	1700	18	12	0.58
25...	1600	15	13	0.53
SEP				
02...	1020	9.6	8	0.21
23...	1510	9.7	6	0.16

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	90	58	58	68	80	83
2	---	---	---	---	---	---	87	58	58	68	82	84
3	---	---	---	---	---	---	83	56	58	68	82	84
4	---	---	---	---	---	---	76	54	57	67	80	80
5	---	---	---	---	---	---	77	51	57	67	81	77
6	---	---	---	---	---	---	80	50	59	68	82	74
7	---	---	---	---	---	---	81	48	61	71	82	76
8	---	---	---	---	---	---	80	49	60	70	82	80
9	---	---	---	---	---	---	80	50	58	73	82	81
10	---	---	---	---	---	---	79	55	57	74	83	82
11	---	---	---	---	---	---	82	58	56	73	84	83
12	---	---	---	---	---	---	82	61	57	74	82	83
13	---	---	---	---	---	---	78	62	58	74	82	84
14	---	---	---	---	---	---	72	61	58	75	82	85
15	---	---	---	---	---	---	73	59	57	73	82	86
16	---	---	---	---	---	---	71	57	57	73	82	86
17	---	---	---	---	---	---	66	57	58	74	81	86
18	---	---	---	---	---	90	73	56	56	75	82	86
19	---	---	---	---	---	90	76	54	54	75	82	86
20	---	---	---	---	---	90	77	53	53	75	81	86
21	---	---	---	---	---	90	77	54	53	75	83	87
22	---	---	---	---	---	87	74	56	54	77	84	87
23	---	---	---	---	---	88	76	57	56	77	84	87
24	---	---	---	---	---	91	78	56	57	77	80	---
25	---	---	---	---	---	90	77	55	54	77	80	---
26	---	---	---	---	---	91	71	55	60	79	83	---
27	---	---	---	---	---	90	58	54	61	78	84	---
28	---	---	---	---	---	91	55	56	64	78	84	---
29	---	---	---	---	---	90	53	57	67	78	84	---
30	---	---	---	---	---	90	53	57	62	78	84	---
31	---	---	---	---	---	90	---	58	---	79	83	---
MAX	---	---	---	---	---	---	90	62	67	79	84	---
MIN	---	---	---	---	---	---	53	48	53	67	80	---

YELLOWSTONE RIVER BASIN

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06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	8.3	8.1
19	---	---	---	---	---	---	---	---	---	---	8.3	8.2
20	---	---	---	---	---	---	---	---	---	---	8.4	7.9
21	---	---	---	---	---	---	---	---	---	---	8.0	7.0
22	---	---	---	---	---	---	---	---	---	---	7.8	6.8
23	---	---	---	---	---	---	---	---	---	---	7.2	6.7
24	---	---	---	---	---	---	---	---	---	---	7.6	6.8
25	---	---	---	---	---	---	---	---	---	---	7.6	6.8
26	---	---	---	---	---	---	---	---	---	---	7.6	6.9
27	---	---	---	---	---	---	---	---	---	---	7.3	7.0
28	---	---	---	---	---	---	---	---	---	---	7.2	7.1
29	---	---	---	---	---	---	---	---	---	---	7.3	7.2
30	---	---	---	---	---	---	---	---	---	---	7.4	7.3
31	---	---	---	---	---	---	---	---	---	---	7.5	7.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.6	7.5	8.3	7.7	8.1	7.8	7.6	7.5	6.9	6.8	8.3	7.9
2	7.7	7.6	8.3	7.7	8.3	7.8	7.7	7.6	6.9	6.8	8.1	7.6
3	7.8	7.7	8.2	7.7	8.1	7.8	7.7	7.6	7.1	7.0	8.4	7.5
4	7.9	7.8	8.4	7.7	8.4	7.9	7.7	7.7	8.5	8.3	8.2	7.9
5	8.0	7.9	8.4	7.9	8.1	8.0	7.7	7.6	8.5	8.3	7.9	7.6
6	8.1	7.9	8.3	7.8	8.3	7.9	7.7	7.6	---	8.5	8.3	7.6
7	7.9	7.9	8.5	7.8	8.2	7.9	7.8	7.7	---	8.4	8.0	7.6
8	7.9	7.9	8.4	8.1	8.3	7.8	7.8	7.7	9.0	8.3	7.6	7.5
9	8.0	7.9	8.3	7.9	8.0	7.8	7.8	7.7	8.6	8.3	7.5	7.4
10	8.0	7.9	8.3	7.9	8.2	7.8	7.8	7.7	8.5	8.2	8.3	7.4
11	8.1	7.9	8.2	7.5	8.0	7.8	7.8	7.8	8.7	8.2	8.2	7.9
12	8.2	7.9	8.3	7.5	8.2	7.7	7.9	7.7	8.5	8.2	8.3	7.8
13	8.1	7.9	8.1	7.4	8.5	7.7	8.0	7.8	7.8	7.3	8.2	7.8
14	8.2	7.9	8.0	7.4	8.5	8.0	8.2	7.9	8.0	7.7	7.8	7.6
15	8.1	8.0	8.0	7.3	8.4	7.9	8.0	7.4	8.2	7.7	8.4	7.6
16	8.2	8.0	8.0	7.5	8.4	7.9	7.7	7.4	8.2	7.8	8.2	7.6
17	8.5	8.0	8.0	7.3	8.3	7.8	7.6	7.4	8.2	8.1	8.1	7.6
18	8.1	8.0	8.0	7.3	8.1	7.6	7.8	7.2	8.2	8.1	7.6	7.5
19	8.2	8.0	7.9	7.6	7.7	7.5	7.6	7.3	8.4	8.1	7.6	7.5
20	8.2	8.1	7.9	7.6	7.6	7.5	7.7	7.5	8.4	8.2	7.5	7.4
21	8.4	8.1	7.8	7.7	7.6	7.5	7.8	6.9	8.3	8.2	8.3	7.3
22	8.2	8.1	7.9	7.7	7.7	7.6	7.1	6.5	8.2	8.1	8.3	8.1
23	8.2	8.1	7.9	7.6	7.9	7.7	7.0	6.8	8.2	8.1	---	---
24	8.2	8.1	8.1	7.8	7.7	7.6	6.9	6.7	8.2	8.1	---	---
25	8.2	8.1	8.1	8.0	8.3	7.6	6.9	6.7	8.2	7.9	---	---
26	8.4	8.2	8.1	8.0	7.6	7.4	6.9	6.8	8.0	7.6	---	---
27	8.3	8.0	8.1	8.0	7.6	7.5	6.8	6.8	7.8	7.4	---	---
28	8.2	7.9	8.1	7.9	7.6	7.5	6.8	6.8	8.0	7.4	---	---
29	8.3	7.8	8.0	7.7	7.7	7.5	6.8	6.8	8.2	7.6	---	---
30	8.3	7.9	8.1	7.7	7.6	7.6	6.8	6.8	8.0	7.7	---	---
31	---	---	8.1	7.8	---	---	6.8	6.8	8.3	7.6	---	---
MONTH	8.5	7.5	8.5	7.3	8.5	7.4	8.2	6.5	---	6.8	---	---

YELLOWSTONE RIVER BASIN

06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	.0	.0
19	---	---	---	---	---	---	---	---	---	---	.1	.0
20	---	---	---	---	---	---	---	---	---	---	.1	.1
21	---	---	---	---	---	---	---	---	---	---	.1	.1
22	---	---	---	---	---	---	---	---	---	---	.2	.1
23	---	---	---	---	---	---	---	---	---	---	.2	.2
24	---	---	---	---	---	---	---	---	---	---	.3	.2
25	---	---	---	---	---	---	---	---	---	---	.3	.3
26	---	---	---	---	---	---	---	---	---	---	.4	.3
27	---	---	---	---	---	---	---	---	---	---	.4	.4
28	---	---	---	---	---	---	---	---	---	---	.4	.4
29	---	---	---	---	---	---	---	---	---	---	.8	.4
30	---	---	---	---	---	---	---	---	---	---	.9	.5
31	---	---	---	---	---	---	---	---	---	---	1.0	.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.2	.6	7.1	1.5	11.1	2.8	8.8	4.4	12.1	7.6	9.9	6.4
2	1.7	.6	7.8	.6	9.3	3.6	9.3	5.2	14.3	6.8	10.1	5.3
3	2.2	.7	8.7	1.3	6.3	3.8	10.8	4.7	12.9	8.1	10.0	5.3
4	2.3	.7	9.0	1.6	10.2	3.3	10.7	5.1	14.2	7.0	8.5	6.9
5	1.5	.7	8.0	1.9	6.8	3.7	14.0	5.3	14.0	5.0	7.8	6.0
6	.8	.0	9.7	2.2	8.5	3.7	10.9	5.8	13.1	5.9	6.9	3.6
7	1.1	.0	9.4	2.5	9.1	4.1	11.7	6.4	13.8	6.5	6.0	2.3
8	1.4	.0	7.8	2.9	9.9	3.9	10.2	4.4	14.3	7.3	6.3	3.2
9	2.4	.3	4.9	2.7	11.1	4.0	11.0	3.8	14.1	7.8	8.2	4.5
10	2.0	.0	7.5	1.7	12.2	4.6	11.4	6.4	14.1	7.0	8.5	3.8
11	2.6	.0	5.3	2.7	9.0	5.3	9.1	6.5	13.4	7.1	9.4	4.8
12	4.7	1.8	6.7	.9	11.1	4.5	8.3	6.1	13.3	6.0	8.5	4.6
13	5.4	1.5	7.3	2.4	9.9	4.9	11.3	4.7	13.5	6.8	6.0	2.2
14	5.0	1.2	9.5	2.1	8.8	4.5	13.8	5.8	14.8	8.4	7.1	1.6
15	4.6	2.3	6.4	2.9	6.1	3.1	13.3	5.9	12.0	7.6	7.6	3.3
16	6.0	2.4	8.9	2.2	5.0	2.8	13.0	5.2	11.7	9.5	7.8	3.9
17	3.6	1.4	9.9	1.8	8.6	3.8	13.1	5.5	12.8	7.4	7.9	3.6
18	2.7	.6	10.1	3.0	10.0	3.5	14.3	6.1	12.5	7.8	7.2	3.3
19	3.4	1.0	9.8	2.7	9.7	4.9	10.6	5.0	14.2	7.3	7.9	3.5
20	5.7	.9	8.2	3.9	9.9	4.3	12.7	7.3	12.6	8.0	8.4	4.8
21	5.7	1.5	6.1	4.0	11.5	4.5	9.5	6.7	12.6	8.3	8.2	4.3
22	5.4	2.7	7.3	3.7	10.4	5.6	14.3	6.1	12.7	8.6	8.4	4.8
23	3.2	1.0	10.0	4.3	13.3	5.7	12.5	3.1	9.5	6.9	---	---
24	5.1	.0	8.7	1.8	10.7	5.9	14.1	6.3	8.9	5.5	---	---
25	5.9	.0	10.5	4.5	9.3	6.0	12.1	5.8	8.3	5.0	---	---
26	7.8	1.2	7.6	3.3	10.8	5.7	13.6	5.7	8.3	2.7	---	---
27	8.5	1.8	6.8	4.7	13.8	5.9	13.6	6.2	9.4	3.3	---	---
28	7.4	1.3	8.3	2.9	13.5	6.2	13.1	6.7	10.3	4.5	---	---
29	8.8	1.5	7.4	3.2	10.4	7.3	12.6	6.5	9.5	5.6	---	---
30	5.8	2.1	8.3	3.2	7.7	5.5	14.2	6.3	10.2	4.2	---	---
31	---	---	7.5	3.1	---	---	14.1	7.5	8.3	5.5	---	---
MONTH	8.8	.0	10.5	.6	13.8	2.8	14.3	3.1	14.8	2.7	---	---

YELLOWSTONE RIVER BASIN
06279795 CROW CREEK AT MOUTH, AT PAHASKA, WY--Continued

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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	7.3	7	.14	44	44	5.2	63	24	4.1
2	7.9	7	.15	45	68	8.3	62	16	2.7
3	9.3	8	.20	48	83	11	62	27	4.5
4	11	8	.24	55	104	15	62	24	4.0
5	11	9	.27	62	162	27	60	22	3.6
6	9.9	9	.24	73	199	38	56	25	3.8
7	10	16	.43	82	178	39	54	36	5.2
8	9.6	8	.21	91	143	35	53	24	3.4
9	9.6	6	.16	83	80	18	53	20	2.9
10	9.9	4	.11	65	57	10	55	24	3.6
11	11	3	.09	58	49	7.7	60	51	8.3
12	12	26	.84	53	40	5.7	56	53	8.0
13	13	11	.39	47	29	3.7	55	21	3.1
14	14	6	.23	50	33	4.5	51	26	3.6
15	14	6	.23	54	32	4.7	56	28	4.2
16	16	7	.30	61	35	5.8	55	24	3.6
17	18	9	.44	74	36	7.2	57	22	3.4
18	16	8	.35	76	88	18	59	27	4.3
19	14	6	.23	81	80	17	58	22	3.4
20	13	4	.14	81	105	23	61	22	3.6
21	14	6	.23	79	73	16	63	20	3.4
22	14	8	.30	70	57	11	61	18	3.0
23	13	2	.07	71	49	9.4	60	20	3.2
24	13	4	.14	73	58	11	61	23	3.8
25	15	6	.24	78	65	14	79	204	63
26	21	8	.45	81	72	16	67	186	34
27	33	71	7.9	83	55	12	63	79	13
28	36	103	10	75	33	6.7	62	38	6.4
29	47	116	16	74	20	4.0	62	40	6.7
30	49	33	4.4	69	25	4.7	67	87	17
31	---	---	---	64	25	4.3	---	---	---
TOTAL	491.5	---	45.12	2100	---	412.9	1793	---	236.8
JULY			AUGUST			SEPTEMBER			
1	60	44	7.1	23	29	1.8	11	6	.18
2	58	44	6.9	22	27	1.6	10	7	.19
3	57	32	4.9	22	32	1.9	10	8	.22
4	55	29	4.3	22	24	1.4	11	13	.39
5	53	30	4.3	21	19	1.1	11	20	.59
6	51	26	3.6	21	18	1.0	12	11	.36
7	48	29	3.8	20	17	.92	11	11	.33
8	46	31	3.9	20	16	.86	10	10	.27
9	45	25	3.0	20	15	.81	9.6	9	.23
10	42	21	2.4	19	14	.72	9.6	8	.21
11	45	24	2.9	19	13	.67	9.6	7	.18
12	46	28	3.5	19	13	.67	9.3	8	.20
13	42	18	2.0	19	12	.62	9.3	7	.18
14	39	17	1.8	17	12	.55	9.1	7	.17
15	38	20	2.1	16	14	.60	9.1	7	.17
16	37	24	2.4	17	10	.46	9.1	5	.12
17	35	24	2.3	16	10	.43	9.1	4	.10
18	34	18	1.7	15	9	.36	9.1	7	.17
19	33	14	1.2	14	9	.34	9.1	7	.17
20	33	20	1.8	14	10	.38	9.1	8	.20
21	35	31	2.9	14	12	.45	9.1	7	.17
22	32	34	2.9	14	12	.45	9.1	5	.12
23	31	44	3.7	13	10	.35	9.1	6	.15
24	28	47	3.6	13	12	.42	9.1	6	.15
25	28	38	2.9	12	13	.42	9.1	5	.12
26	27	34	2.5	12	16	.52	9.1	5	.12
27	26	28	2.0	12	14	.45	9.1	5	.12
28	26	35	2.5	11	9	.27	9.1	5	.12
29	26	31	2.2	11	10	.30	9.1	4	.10
30	25	33	2.2	11	6	.18	9.1	4	.10
31	23	36	2.2	11	5	.15	---	---	---
TOTAL	1204	---	95.5	510	---	21.15	288.1	---	5.90

YELLOWSTONE RIVER BASIN
06279940 NORTH FORK SHOSHONE RIVER AT WAPITI, WY

LOCATION.--Lat 44°28'10", long 109°25'49", in SE¼ NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31, Nov. 1, Nov. 27 to Jan. 23, Feb. 1, 10, 11, Mar. 21-30, and July 2, 3. Records good except May to July, which are fair; and those for estimated daily discharges, which are poor. Diversion for irrigation of about 1,500 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 9, 1981, at station 06280000 North Fork Shoshone River near Wapiti, 4.2 mi downstream, reached a discharge of 20,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	180	112	120	120	219	266	1520	2130	1900	594	370
2	298	153	111	122	126	208	309	1410	2280	1870	570	304
3	295	150	123	128	136	199	411	1440	2390	1720	560	269
4	292	207	140	133	154	221	503	1620	2210	1810	560	274
5	272	258	150	136	145	231	431	1920	2160	1540	515	414
6	271	274	160	136	151	208	327	2320	1850	1430	485	506
7	270	238	170	134	149	196	292	2750	1630	1290	462	554
8	268	229	170	124	149	192	293	3210	1690	1340	449	462
9	267	266	165	126	152	179	291	2810	1800	1330	436	358
10	262	279	160	127	150	178	355	2040	1930	1250	420	388
11	259	231	142	127	155	187	390	1720	2080	1450	408	344
12	254	230	154	127	138	214	529	1500	2100	1680	400	312
13	260	247	152	120	136	243	905	1420	2090	1510	384	322
14	250	258	150	120	135	265	980	1400	1940	1310	370	283
15	242	223	142	110	137	253	918	1690	3200	1300	365	272
16	241	194	140	100	130	250	877	1860	2600	1110	416	260
17	243	218	130	110	131	244	1100	1870	2130	1060	416	248
18	240	245	140	105	123	236	930	2310	2190	1010	383	244
19	237	215	150	105	135	219	722	2710	2340	1070	358	237
20	234	211	140	110	135	219	621	2940	2290	1130	344	230
21	228	216	125	110	141	220	661	3130	2260	1800	346	231
22	244	172	130	113	140	210	684	2590	2480	1160	350	230
23	302	143	140	120	129	220	647	2630	2670	1060	331	226
24	262	197	145	126	124	220	533	2990	2830	949	318	223
25	245	232	140	128	131	230	538	3080	2790	866	309	282
26	249	212	138	126	133	220	650	3190	2680	796	305	267
27	269	180	135	122	154	230	1100	3780	2550	752	288	264
28	237	170	135	122	185	230	1470	3260	2250	718	278	239
29	237	170	140	124	210	240	1650	2750	2440	684	267	230
30	199	140	132	124	---	250	2070	2440	2310	644	269	224
31	202	---	130	123	---	262	---	2260	---	617	265	---
TOTAL	7936	6338	4391	3758	4134	6893	21453	72560	68290	38156	12221	9067
MEAN	256	211	142	121	143	222	715	2341	2276	1231	394	302
MAX	307	279	170	136	210	265	2070	3780	3200	1900	594	554
MIN	199	140	111	100	120	178	266	1400	1630	617	265	223
AC-FT	15740	12570	8710	7450	8200	13670	42550	143900	135500	75680	24240	17980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	265	218	149	136	142	188	617	1920	3400	1624	479	341
MAX	297	236	159	149	145	222	792	2341	4740	1870	549	440
(WY)	1991	1991	1990	1990	1991	1992	1990	1992	1991	1991	1990	1991
MIN	240	206	142	121	137	144	345	1221	2276	1231	394	279
(WY)	1990	1990	1992	1992	1990	1991	1991	1990	1992	1992	1992	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	338638	255197	--
ANNUAL MEAN	928	697	791
HIGHEST ANNUAL MEAN	--	--	934
LOWEST ANNUAL MEAN	--	--	697
HIGHEST DAILY MEAN	7550	3780	7550
LOWEST DAILY MEAN	111	100	90
ANNUAL SEVEN-DAY MINIMUM	123	107	107
INSTANTANEOUS PEAK FLOW	--	4700	9460
INSTANTANEOUS PEAK STAGE	--	7.19	9.54
ANNUAL RUNOFF (AC-FT)	671700	506200	572800
10 PERCENT EXCEEDS	3290	2170	2390
50 PERCENT EXCEEDS	268	265	267
90 PERCENT EXCEEDS	135	130	135

YELLOWSTONE RIVER BASIN
06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WY

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LOCATION.--Lat 44°12'30", long 109°33'15", in NE¼ sec.24, T.49 N., R.106 W., Park County, Hydrologic Unit 10080013, Shoshone National Forest, on left bank 75 ft downstream from 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.

REVISED RECORDS.--WRD WY 1974: 1963.

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 22, 1961, at site 75 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 450 acres upstream from 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 25	2100	*1,950	*6.08	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	115	71	84	76	88	97	455	708	879	316	186
2	166	101	71	77	79	87	101	336	829	813	310	163
3	163	84	82	79	80	84	125	355	982	725	306	156
4	159	83	94	83	70	87	162	437	862	713	289	163
5	153	104	103	87	70	92	145	541	793	724	268	183
6	152	125	111	90	69	89	121	679	645	706	255	208
7	152	120	123	92	71	86	110	786	614	634	244	205
8	152	120	111	88	78	87	111	846	685	575	235	181
9	149	128	107	81	83	87	107	729	752	523	229	172
10	148	129	100	83	81	84	113	496	868	491	219	168
11	147	124	90	86	81	85	108	414	908	566	209	165
12	146	124	92	87	78	88	119	351	924	652	207	164
13	143	131	103	77	77	93	205	353	882	578	197	161
14	142	131	93	77	77	98	185	386	784	518	189	157
15	139	127	94	77	74	99	183	485	979	515	188	154
16	138	119	97	69	73	100	180	499	842	468	251	152
17	151	121	95	73	75	99	233	499	808	444	248	149
18	154	126	98	69	67	97	206	664	983	421	251	150
19	146	121	108	68	72	89	167	857	1100	587	209	147
20	141	121	98	72	77	90	150	992	1010	697	196	145
21	141	122	87	73	75	95	171	1090	1030	760	187	151
22	140	113	91	75	72	85	176	840	1200	672	190	146
23	146	103	94	77	71	92	157	827	1330	602	179	144
24	133	103	97	78	69	96	139	1040	1360	534	177	146
25	128	116	98	81	73	94	140	1050	1460	487	176	165
26	130	118	95	83	71	92	165	1190	1380	444	168	165
27	136	117	91	80	76	93	297	1240	1230	413	161	163
28	125	115	89	83	79	92	385	991	1160	389	158	155
29	122	108	92	82	83	92	443	876	1190	366	156	150
30	112	91	90	80	---	94	580	785	1100	347	154	147
31	111	---	86	79	---	97	---	724	---	329	165	---
TOTAL	4436	3460	2951	2470	2177	2831	5581	21813	29398	17572	6687	4861
MEAN	143	115	95.2	79.7	75.1	91.3	186	704	980	567	216	162
MAX	171	131	123	92	83	100	580	1240	1460	879	316	208
MIN	111	83	71	68	67	84	97	336	614	329	154	144
AC-FT	8800	6860	5850	4900	4320	5620	11070	43270	58310	34850	13260	9640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	156	108	83.3	75.9	72.2	77.3	164	739	1760	1123	374	214																									
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	962	308	156	110																									
(WY)	1989	1980	1989	1989	1989	1975	1970	1977	1987	1988	1988	1988																									

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1957 - 1992
ANNUAL TOTAL	169338	104237	--
ANNUAL MEAN	464	285	413
HIGHEST ANNUAL MEAN	--	--	583
LOWEST ANNUAL MEAN	--	--	221
HIGHEST DAILY MEAN	5020	Jun 12	6100 Jun 9 1981
LOWEST DAILY MEAN	60	Jan 29	35 Dec 20 1990
ANNUAL SEVEN-DAY MINIMUM	67	Jan 26	40 Dec 18 1990
INSTANTANEOUS PEAK FLOW	--	1950	10000 Jun 9 1981
INSTANTANEOUS PEAK STAGE	--	6.08	9.24a Jun 9 1981
ANNUAL RUNOFF (AC-FT)	335900	206800	299400
10 PERCENT EXCEEDS	1500	809	1250
50 PERCENT EXCEEDS	130	146	139
90 PERCENT EXCEEDS	72	78	67

a From floodmarks.

YELLOWSTONE RIVER BASIN
06281000 SOUTH FORK SHOSHONE RIVER ABOVE BUFFALO BILL RESERVOIR, WY

LOCATION.--Lat 44°25'09", long 109°15'26", in lot 5, SE¼ NE¼ SE¼ sec. 5, T.51 N., R.103 W., Park County, Hydrologic Unit 10080013, on right bank at old diversion structure 0.2 miles downstream from Cody Canal diversion, 1 mile upstream from normal pool of Buffalo Bill Reservoir at elevation 5,364 ft, and 12.5 miles southwest of Cody.

DRAINAGE AREA.--585 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to November 1903, May 1905 to September 1908, January 1921 to September 1926, October 1973 to current year (gage heights only June to September 1908). No winter records 1906, 1908, 1922. Published as "at Marquette" 1903, 1905-8, and as Shoshone River above Shoshone Reservoir 1921-26.

REVISED RECORDS.--WSP 1309: 1907.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above National Geodetic Vertical Datum of 1929, from topographic map. Apr. 26 to Nov. 30, 1903, and May 1905 to May 30, 1908, nonrecording gages at sites within about 6.0 mi downstream at different datums. Prior to Oct. 3, 1989, recording gage at site 1.1 mile downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 4 and Nov. 29 to Jan. 29. Records good except those less than 100 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	78	103	105	110	112	120	301	528	1010	65	.05
2	91	76	107	98	111	113	122	163	641	965	62	.00
3	85	72	108	100	112	113	132	156	751	847	57	.00
4	80	90	120	105	108	113	165	167	665	809	50	.00
5	76	144	130	110	107	118	172	190	616	800	.31	.02
6	69	146	140	115	104	121	153	279	451	767	.13	.05
7	65	152	140	118	105	116	141	398	347	688	.06	.22
8	58	153	140	113	109	115	136	538	387	554	.07	.09
9	54	160	130	104	112	113	134	461	456	430	.08	.05
10	50	170	124	105	112	110	139	185	572	364	.08	.50
11	42	164	120	110	112	110	144	103	615	429	.05	.09
12	41	160	120	110	112	111	143	28	656	565	.06	.05
13	36	166	124	100	109	113	203	7.9	608	536	.07	.03
14	34	175	116	100	110	114	209	16	538	381	.04	.01
15	26	172	120	105	109	119	177	80	1250	373	.04	.00
16	35	166	126	105	107	119	130	90	1220	310	9.4	.00
17	42	169	130	107	109	121	148	84	1000	239	42	.00
18	62	173	132	105	102	126	159	132	1140	196	7.3	.00
19	58	174	128	105	107	120	127	241	1270	228	.13	.00
20	56	170	126	100	112	116	108	350	1140	588	.07	.00
21	55	173	120	104	110	121	105	732	1150	631	.06	.00
22	55	159	117	107	109	115	112	543	1250	549	.06	.00
23	69	143	120	110	105	118	100	456	1380	443	.04	.00
24	85	157	120	110	102	121	70	658	1430	333	.01	.00
25	79	164	118	115	101	121	64	677	1460	260	.01	.00
26	81	165	115	119	103	118	74	775	1490	219	.02	.00
27	90	164	112	120	105	118	131	1150	1320	180	.01	.00
28	110	157	111	120	107	119	243	938	1230	146	.00	.00
29	100	130	115	120	109	119	254	756	1230	122	.00	.00
30	90	110	110	120	---	119	376	707	1260	105	.00	.00
31	84	---	110	116	---	119	---	595	---	88	.00	---
TOTAL	2056	4452	3752	3381	3130	3621	4491	11956.9	28051	14155	294.10	1.16
MEAN	66.3	148	121	109	108	117	150	386	935	457	9.49	.039
MAX	110	175	140	120	112	126	376	1150	1490	1010	65	.50
MIN	26	72	103	98	101	110	64	7.9	347	88	.00	.00
AC-FT	4080	8830	7440	6710	6210	7180	8910	23720	55640	28080	583	2.3

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

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1992, BY WATER YEAR (WY)												
MEAN	116	152	115	99.1	99.9	110	202	683	1737	1081	204	100
MAX	407	268	166	130	128	174	387	1281	3140	3033	1083	381
(WY)	1924	1924	1926	1982	1986	1986	1925	1991	1974	1907	1907	1907
MIN	18.0	71.2	54.5	62.9	72.9	76.8	93.5	168	768	29.9	3.66	.039
(WY)	1979	1980	1925	1925	1985	1924	1982	1977	1987	1988	1988	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1903 - 1992	
ANNUAL TOTAL	170683.94		79341.16		--	
ANNUAL MEAN	468		217		382	
HIGHEST ANNUAL MEAN	--		--		705	
LOWEST ANNUAL MEAN	--		--		181	
HIGHEST DAILY MEAN	5210	Jun 12	1490	Jun 26	7370	Jun 9 1981
LOWEST DAILY MEAN	.39	Aug 15	.00	Aug 28-31, Sep 2-4, 15-30	.00	Aug 28-31, Sep 2-4, 15-30, 1992
ANNUAL SEVEN-DAY MINIMUM	.53	Aug 10	.00	Sep 15	.00	Sep 15 1992
INSTANTANEOUS PEAK FLOW	--		2050	Jun 15	9960	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--		6.73	Jun 15	9.41a	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	338600		157400		276700	
10 PERCENT EXCEEDS	1440		620		1300	
50 PERCENT EXCEEDS	125		115		125	
90 PERCENT EXCEEDS	58		.05		33	

a Site and datum then in use.

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1981 to September 1992 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1981 to September 1992 (discontinued).

INSTRUMENTATION.--Water-temperature recorder since October 1981. Thermistor temperature probe attached to satellite telemeter since October 1989, graphic recorder since October 1981.

REMARKS.--No record Aug. 3, 12, 21, 31. Water temperature records represent water temperature at sensor within 0.2°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.5°C, July 30, 1988; minimum, 0.0°C on many days each year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 25.0°C, Aug. 19; minimum, 0.0°C on several days during November through February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT								
08...	1100	59	250	9.0	0.01	<0.01	<0.05	<0.05
NOV								
20...	1445	166	--	3.5	<0.01	<0.01	<0.05	0.05
DEC								
18...	1200	133	260	0.0	<0.01	0.01	0.08	<0.05
FEB								
05...	1300	102	254	0.5	<0.01	<0.01	<0.05	<0.05
MAR								
12...	1140	114	260	6.0	<0.01	<0.01	<0.05	<0.05
MAY								
08...	1315	591	148	10.5	0.02	<0.01	0.10	0.17
JUN								
17...	1000	1030	138	8.5	0.02	<0.01	0.08	0.12
JUL								
22...	1310	548	132	13.5	0.03	0.03	0.09	0.21
SEP								
03...	1015	E0.30	372	12.0	<0.01	<0.01	<0.05	0.07
10...	0845	13	315	9.0	<0.01	<0.01	0.06	0.21

E-Estimate.

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT							
08...	0.02	0.03	<0.2	0.03	0.03	0.03	0.02
NOV							
20...	<0.01	0.03	<0.2	0.03	0.06	0.06	0.03
DEC							
18...	0.01	0.14	<0.2	0.03	0.03	0.03	0.02
FEB							
05...	0.01	0.06	<0.2	0.03	0.04	0.03	0.02
MAR							
12...	0.01	0.13	<0.2	0.02	<0.01	0.02	0.02
MAY							
08...	0.04	0.01	0.4	0.27	0.08	0.05	0.07
JUN							
17...	0.04	0.05	<0.2	0.08	0.03	0.05	0.06
JUL							
22...	0.07	0.41	<0.2	0.04	0.05	0.05	0.06
SEP							
03...	0.04	0.05	0.3	0.03	0.03	0.02	<0.01
10...	0.01	0.03	<0.2	0.03	0.04	0.04	0.01

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

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WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.2	10.0	.1	.0	.2	.0	.3	.1	3.0	.0	7.1	2.5
2	14.4	9.5	.2	.0	.3	.0	.3	.1	3.6	.0	8.3	2.7
3	10.9	6.1	.2	.0	.2	.0	.3	.0	3.5	.1	8.2	2.4
4	9.0	4.3	.2	.0	.3	.0	.3	.0	1.9	.0	7.5	2.9
5	9.4	3.6	1.4	.0	.3	.1	.3	.0	1.6	.0	5.1	3.7
6	11.7	4.6	2.6	1.1	.4	.1	.3	.0	.9	.0	7.3	3.0
7	11.6	7.8	4.6	.7	3.2	.3	.3	.1	.4	.0	9.4	3.4
8	12.7	6.9	4.9	2.1	1.4	.0	.3	.0	1.7	.0	6.1	2.7
9	13.0	7.2	5.3	3.7	.3	.0	.2	.1	2.0	.0	7.5	1.6
10	14.1	8.3	4.9	1.5	.3	.0	.3	.1	2.9	.0	7.8	1.6
11	14.3	8.6	4.4	.7	.3	.0	.3	.0	1.7	.0	9.4	2.2
12	13.7	8.7	6.2	2.4	.3	.0	.3	.0	4.3	.0	10.6	3.4
13	11.6	7.3	5.2	3.5	.3	.0	.3	.0	4.0	.0	10.4	3.8
14	12.1	6.0	3.5	1.5	.3	.0	.3	.0	2.9	.4	8.6	3.9
15	13.4	7.9	2.4	.0	.3	.0	.3	.0	3.4	.0	8.8	3.7
16	12.9	8.1	2.3	.0	.4	.1	.3	.0	2.0	.0	8.9	4.2
17	10.1	6.0	4.0	.2	.3	.0	.3	.0	3.1	.0	9.2	4.4
18	8.2	4.3	2.2	.1	.3	.0	.3	.0	1.1	.0	6.1	2.9
19	8.9	5.6	2.1	.0	.4	.0	.3	.0	2.9	.0	8.4	1.6
20	9.7	3.9	3.3	.0	.2	.0	.4	.1	4.8	.2	8.2	2.0
21	9.9	5.9	3.2	.4	.3	.0	.3	.0	5.7	1.5	7.6	1.3
22	7.7	3.9	.6	.0	.3	.1	.2	.0	3.9	1.6	8.2	.4
23	4.7	2.6	.3	.0	.3	.0	.3	.0	4.4	.0	8.5	2.0
24	5.0	1.3	.6	.0	.3	.0	.3	.0	2.8	.0	9.2	4.1
25	5.3	1.4	1.8	.1	.3	.0	.3	.0	5.2	.0	10.6	3.1
26	6.4	1.6	2.8	.3	.3	.0	.3	.0	6.6	.1	10.5	3.8
27	5.5	.0	1.4	.4	.3	.1	.3	.0	7.7	1.4	10.1	4.9
28	.1	.0	1.1	.0	.3	.1	.3	.0	7.9	1.8	9.8	4.8
29	.0	.0	.3	.0	.3	.0	.3	.0	7.7	2.1	12.0	4.8
30	.1	.0	.2	.0	.3	.0	.8	.0	---	---	10.7	5.8
31	.1	.0	---	---	.3	.0	1.9	.0	---	---	11.7	5.8
MONTH	15.2	.0	6.2	.0	3.2	.0	1.9	.0	7.9	.0	12.0	.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.9	4.0	12.0	7.2	12.5	10.8	13.0	11.0	17.5	14.0	21.9	10.2
2	13.3	5.4	13.5	6.4	14.2	10.2	12.0	10.5	19.5	12.5	19.9	10.8
3	13.7	7.1	13.9	7.7	13.6	10.1	11.5	11.0	---	---	18.2	11.8
4	12.0	6.4	14.5	8.4	13.8	9.3	12.0	11.2	19.8	9.7	16.1	13.0
5	11.5	6.0	14.9	8.6	12.9	9.3	12.3	12.0	19.9	13.8	16.5	10.9
6	9.0	4.0	15.0	8.8	13.8	8.9	13.0	12.3	20.1	12.9	17.0	10.0
7	8.4	2.3	14.6	8.4	15.7	10.2	13.3	13.0	23.1	11.9	17.2	8.8
8	8.7	2.5	13.5	8.4	16.6	10.3	13.7	12.3	22.4	13.8	17.6	6.9
9	11.9	4.4	11.5	6.2	15.9	10.4	13.3	12.0	24.3	13.3	18.4	7.8
10	11.0	5.5	13.1	4.6	15.5	10.7	14.0	12.5	24.1	13.3	17.4	8.0
11	7.0	5.2	14.6	8.0	15.3	10.8	14.0	12.5	23.6	12.7	15.4	11.0
12	13.1	3.9	13.3	7.0	16.0	10.3	13.0	13.0	23.3	---	15.9	10.6
13	11.7	7.0	13.0	7.7	15.9	11.1	13.0	11.0	22.9	12.6	15.2	7.7
14	12.1	7.2	15.7	9.6	14.8	10.5	14.2	12.5	24.8	14.5	13.8	5.8
15	10.7	7.8	13.9	10.6	12.8	8.1	14.7	13.5	23.0	13.9	15.3	7.9
16	12.0	7.0	14.3	8.7	8.3	7.3	14.5	13.3	18.5	10.7	14.5	9.0
17	10.0	6.0	15.4	9.9	8.8	8.3	15.0	13.5	18.0	11.4	13.1	9.6
18	6.4	3.8	16.2	10.2	9.8	8.9	15.0	13.5	17.7	12.9	13.2	7.9
19	6.8	3.5	16.1	9.5	13.5	9.8	15.0	13.7	25.0	12.6	13.4	8.8
20	12.4	4.0	14.7	10.4	13.5	11.1	13.5	10.5	22.5	14.4	14.6	10.7
21	12.6	7.3	13.8	9.2	12.1	11.5	14.0	11.0	22.6	---	14.0	10.7
22	9.3	7.0	13.8	7.7	13.0	12.5	18.0	10.5	21.2	12.1	14.9	10.8
23	9.2	4.8	15.7	9.7	12.5	12.5	17.5	13.0	17.0	9.7	16.3	12.2
24	12.1	4.0	13.7	10.2	12.5	12.5	16.7	12.3	14.7	8.9	16.2	12.0
25	12.6	5.4	14.1	9.0	12.5	12.2	16.5	12.7	17.8	8.7	13.0	9.2
26	14.3	7.1	13.2	8.5	12.2	11.6	18.5	11.8	19.4	6.1	12.5	7.0
27	14.6	10.4	11.2	9.0	12.0	11.6	18.5	13.0	19.7	8.0	13.6	8.0
28	12.9	8.3	13.8	7.7	12.5	12.0	18.0	13.0	19.2	10.5	12.4	7.1
29	14.7	8.6	13.0	9.3	13.5	12.5	19.2	12.5	17.3	11.1	12.0	8.5
30	13.9	8.5	13.1	9.5	13.5	12.0	19.5	13.0	16.5	8.7	13.1	9.7
31	---	---	12.8	10.3	---	---	19.5	14.0	---	10.3	---	---
MONTH	14.7	2.3	16.2	4.6	16.6	7.3	19.5	10.5	---	---	21.9	5.8

YELLOWSTONE RIVER BASIN
06281400 DIAMOND CREEK NEAR MOUTH, NEAR CODY, WY

LOCATION.--Lat 44°27'21", long 109°08'17", in SE¼ NE¼ NE¼ sec.29, T.52 N., R.102 W., Park County, Hydrologic Unit 10080013, on left bank 40 ft downstream from Cody Canal crossing, 0.8 mi upstream from bridge on State Highway 291, 3.9 mi southeast of Buffalo Bill Dam, and 6.3 mi southwest of Cody.

DRAINAGE AREA.--7.34 mi².

PERIOD OF RECORD.--December 1980 to September 1992 (discontinued).

GAGE.--Water-stage recorder, crest-stage gage, and wooden control. Elevation of gage is 5,420 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 25, 1985, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 5 and Nov. 28 to Mar. 12. Records fair except those for estimated daily discharges and discharges over 30 cfs, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	.80	.50	.54	.62	.64	.68	3.4	13	15	15	5.8
2	4.4	.78	.52	.54	.62	.62	.68	5.7	14	14	18	7.4
3	4.4	.84	.54	.52	.60	.62	.73	8.6	13	15	17	8.5
4	4.6	.90	.56	.52	.58	.60	.73	8.6	14	15	17	9.6
5	5.1	1.1	.58	.50	.58	.58	.73	8.3	14	14	17	8.5
6	5.6	1.6	.58	.48	.58	.58	.73	9.4	14	14	15	5.8
7	6.8	1.6	.58	.46	.60	.58	.74	8.0	15	14	14	5.6
8	6.6	1.3	.60	.44	.64	.58	.78	7.3	16	16	15	8.3
9	4.3	1.3	.60	.44	.62	.56	.80	9.9	14	20	13	10
10	4.2	1.2	.62	.45	.60	.50	.82	9.9	13	19	11	10
11	4.7	1.1	.64	.45	.58	.48	1.2	9.2	11	18	12	10
12	5.3	1.1	.70	.46	.58	.47	.97	10	15	18	6.8	11
13	4.2	1.1	.72	.46	.58	.45	1.0	12	16	18	7.8	11
14	3.7	1.2	.74	.45	.56	.45	1.0	13	33	16	7.5	10
15	3.5	1.1	.76	.45	.54	.48	1.0	13	97	14	7.4	11
16	2.0	1.1	.70	.44	.54	.48	1.0	17	14	14	4.6	10
17	3.3	.97	.70	.43	.58	.48	1.1	16	3.9	14	5.3	5.9
18	5.0	.94	.67	.42	.56	.48	1.1	14	11	13	7.0	2.9
19	5.3	.80	.66	.43	.54	.49	1.1	12	12	13	6.4	4.1
20	5.0	.93	.66	.45	.52	.52	3.5	10	12	14	7.0	3.6
21	6.2	1.1	.66	.49	.54	.60	9.9	11	13	16	10	3.1
22	7.1	.86	.64	.52	.56	.68	9.4	11	13	16	11	2.6
23	7.4	.83	.64	.52	.58	.64	3.7	9.9	14	15	13	3.7
24	3.1	.83	.62	.54	.60	.66	3.2	8.9	13	14	14	3.8
25	1.2	.83	.62	.54	.64	.68	3.0	10	12	13	12	3.5
26	1.1	.88	.62	.56	.62	.68	3.1	15	11	14	12	3.6
27	1.1	.88	.60	.58	.66	.68	3.1	26	11	13	10	3.5
28	1.0	.82	.58	.58	.66	.68	3.0	17	12	14	9.8	4.2
29	1.0	.74	.58	.58	.66	.67	3.0	14	16	14	12	4.4
30	.94	.60	.58	.60	---	.68	3.2	12	17	13	11	4.3
31	.86	---	.56	.62	---	.68	---	10	---	14	7.3	---
TOTAL	123.50	30.13	19.33	15.46	17.14	17.97	64.99	350.1	496.9	464	345.9	195.7
MEAN	3.98	1.00	.62	.50	.59	.58	2.17	11.3	16.6	15.0	11.2	6.52
MAX	7.4	1.6	.76	.62	.66	.68	9.9	26	97	20	18	11
MIN	.86	.60	.50	.42	.52	.45	.68	3.4	3.9	13	4.6	2.6
AC-FT	245	60	38	31	34	36	129	694	986	920	686	388

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	5.98	2.14	.55	.42	.42	.75	3.02	8.81	13.7	15.3	12.9	9.18
MAX	15.0	10.3	1.20	.91	.73	2.61	7.68	11.7	16.9	19.7	19.1	13.2
(WY)	1982	1982	1981	1986	1986	1989	1989	1981	1987	1986	1990	1991
MIN	.91	.49	.069	.000	.000	.18	.81	4.12	10.6	6.78	3.02	4.87
(WY)	1989	1989	1985	1985	1985	1985	1985	1991	1990	1990	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1981 - 1992
ANNUAL TOTAL	2264.76	2141.12	--
ANNUAL MEAN	6.20	5.85	6.12
HIGHEST ANNUAL MEAN	--	--	7.26
LOWEST ANNUAL MEAN	--	--	4.56
HIGHEST DAILY MEAN	46 Sep 11	97 Jun 15	97 Jun 15 1992
LOWEST DAILY MEAN	.34 Jan 1	.42 Jan 18	.00 Some years
ANNUAL SEVEN-DAY MINIMUM	.35 Jan 1	.44 Jan 14	.00 Some years
INSTANTANEOUS PEAK FLOW	--	169 Jun 15	239a Sep 10 1991
INSTANTANEOUS PEAK STAGE	--	3.63 Jun 15	4.28b Sep 10 1991
ANNUAL RUNOFF (AC-FT)	4490	4250	4430
10 PERCENT EXCEEDS	19	14	16
50 PERCENT EXCEEDS	1.5	3.0	2.9
90 PERCENT EXCEEDS	.52	.54	.30

a From rating curve extended above 26 ft³/s on basis of slope-area measurement of peak flow.

b From floodmark.

06281700 SHOSHONE RIVER ABOVE DEMARIS SPRINGS, NEAR CODY, WY

LOCATION.--Lat 44°30'39", long 109°08'47", in NW¼ NW¼ SE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TUR- BID- ITY (NTU)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT 08...	1630	530	178	7.6	20	14.0	630	9.0	106	58	17
NOV 21...	0915	350	190	7.9	1.5	5.0	622	10.2	98	68	20
DEC 19...	0845	320	240	7.2	1.8	2.0	620	9.2	82	86	26
FEB 04...	1720	250	290	7.5	1.7	3.5	627	9.2	84	110	31
MAR 11...	1550	108	450	7.4	1.2	6.5	624	8.5	85	180	51
MAY 15...	1345	1020	200	7.5	3.0	10.5	630	9.0	98	71	20
JUN 17...	1700	430	186	7.2	10	12.0	636	8.3	93	57	16
JUL 21...	1815	1010	136	7.7	14	13.5	633	8.1	94	47	13
AUG 24...	1340	950	143	7.7	8.0	15.0	637	7.3	87	50	14
SEP 03...	1130	920	165	7.5	4.3	16.0	636	7.9	96	57	16

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 08...	3.8	12	0.7	1.0	66	22	<1.0	<0.1	15	E110	E0.15
NOV 21...	4.3	13	0.7	1.1	73	28	<1.0	0.7	15	E126	E0.18
DEC 19...	5.2	16	0.7	1.7	87	33	1.6	<0.1	14	150	0.20
FEB 04...	7.7	20	0.8	1.9	100	49	1.3	0.2	15	186	0.25
MAR 11...	12	23	0.8	3.3	150	73	3.0	0.3	14	270	0.37
MAY 15...	5.2	15	0.8	1.2	74	32	<1.0	0.2	14	E132	E0.18
JUN 17...	4.1	15	0.9	1.0	62	26	<1.0	0.2	12	E111	E0.16
JUL 21...	3.6	11	0.7	0.80	52	20	<1.0	0.2	14	E94	E0.13
AUG 24...	3.7	10	0.6	1.0	56	20	<1.0	0.2	14	E96	E0.13
SEP 03...	4.1	12	0.7	1.0	60	26	<1.0	0.2	15	E110	E0.15

E-Estimate.

YELLOWSTONE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT 08...	E157	<0.01	0.10	0.03	0.04	<0.2	0.10	0.05	0.05	0.07
NOV 21...	E119	<0.01	<0.05	<0.01	0.01	<0.2	0.05	0.05	0.02	0.04
DEC 19...	130	<0.01	0.09	0.04	0.05	0.2	0.05	0.05	0.03	0.03
FEB 04...	126	<0.01	<0.05	0.01	0.01	0.2	0.04	<0.01	<0.01	0.01
MAR 11...	78.6	<0.01	<0.05	0.02	0.02	<0.2	0.03	<0.01	<0.01	<0.01
MAY 15...	E364	<0.01	<0.05	0.02	0.02	<0.2	0.03	0.03	0.02	0.03
JUN 17...	E129	<0.01	<0.05	0.05	0.05	<0.2	0.06	<0.01	0.02	0.04
JUL 21...	E256	<0.01	0.09	0.04	0.02	<0.2	0.04	0.03	0.04	0.06
AUG 24...	E246	<0.01	0.14	0.02	0.03	<0.2	0.06	0.05	0.05	0.06
SEP 03...	E273	<0.01	0.055	0.03	0.03	<0.2	0.04	0.03	0.03	0.03

E-Estimate.

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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 National Geodetic Vertical Datum of 1929, 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. U.S. Bureau of Reclamation satellite telemeter 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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	712	407	406	398	312	147	145	1150	934	963	1060	952
2	705	407	402	398	312	147	172	1140	892	971	1070	971
3	707	407	402	401	311	147	236	1190	867	970	1070	975
4	704	408	402	402	311	147	242	1170	868	963	1070	977
5	702	410	403	402	313	147	242	1180	874	966	1050	979
6	703	410	397	393	311	147	241	1180	876	964	1040	973
7	661	411	398	381	308	148	240	1190	881	962	1060	912
8	609	410	398	381	308	147	290	1190	869	1020	1050	842
9	611	411	397	381	308	145	399	1190	842	1120	1090	809
10	614	411	396	381	308	145	638	1200	904	1120	1090	815
11	616	411	394	381	308	145	817	1160	930	1120	1070	806
12	616	410	394	381	289	145	820	1140	931	1130	1080	811
13	615	413	393	381	232	145	953	1140	934	1120	1080	802
14	615	411	394	381	187	145	1180	1100	935	1130	1080	798
15	616	411	392	383	156	145	1250	1090	818	1140	1090	799
16	617	411	390	381	154	145	1280	1090	517	1120	1060	799
17	616	411	390	382	154	146	1350	1100	424	1110	1100	798
18	616	413	390	382	153	143	1320	1100	465	1070	1140	799
19	615	411	391	383	154	144	1240	1100	465	1080	1170	797
20	614	411	390	383	152	144	1250	1100	466	1080	1140	813
21	546	412	392	386	151	145	1250	1110	468	1080	1090	795
22	435	411	391	385	152	145	1250	1100	708	1070	1050	806
23	407	409	393	347	152	145	1250	1100	827	1070	1030	807
24	410	410	398	303	151	145	1250	1100	865	1010	1030	814
25	407	411	398	309	150	145	1240	1100	870	1010	1030	810
26	407	411	398	309	150	145	1250	1120	872	961	955	793
27	407	408	398	309	148	145	1260	1090	945	978	919	738
28	407	407	398	309	148	145	1260	1040	994	1010	908	719
29	408	407	398	310	147	145	1260	1010	990	1050	911	727
30	414	408	398	312	---	145	1270	986	971	1050	910	709
31	413	---	398	312	---	145	---	967	---	1060	907	---
TOTAL	17545	12299	12279	11327	6390	4509	26845	34623	24202	32468	32400	24945
MEAN	566	410	396	365	220	145	895	1117	807	1047	1045	831
MAX	712	413	406	402	313	148	1350	1200	994	1140	1170	979
MIN	407	407	390	303	147	143	145	967	424	961	907	709
AC-FT	34800	24400	24360	22470	12670	8940	53250	68670	48000	64400	64270	49480

	MONTHLY MEAN DRAIN FOR WATER YEARS 1943 - 1952, BY WATER YEAR (WY)				MONTHLY MEAN DRAIN FOR WATER YEARS 1953 - 1962, BY WATER YEAR (WY)							
MEAN	711	542	544	511	497	501	778	1420	2519	2668	1333	941
MAX	1198	966	944	894	893	866	1743	2958	6440	6556	3397	2113
(WY)	1953	1952	1951	1952	1973	1973	1976	1951	1943	1943	1958	1958
MIN	187	128	111	115	65.4	72.5	113	833	807	1039	685	582
(WY)	1989	1989	1989	1989	1959	1959	1959	1981	1992	1977	1977	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1943 - 1992*	
ANNUAL TOTAL	381597		239832		--	
ANNUAL MEAN	1045		655		1084 ^a	
HIGHEST ANNUAL MEAN	--		--		1764	1943
LOWEST ANNUAL MEAN	--		--		556	1988
HIGHEST DAILY MEAN	6090	Jun 16	1350	Apr 17	15100	Jun 9 1981
LOWEST DAILY MEAN	144	Feb 9	143	Mar 18	14	Nov 19 1933#
ANNUAL SEVEN-DAY MINIMUM	146	Feb 9	144	Mar 18	64	Jan 21 1959
INSTANTANEOUS PEAK FLOW	--		1390	Aug 19	17300	Jun 9 1981#
INSTANTANEOUS PEAK STAGE	--		5.16	Aug 19	11.57	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	756900		475700		785000	
10 PERCENT EXCEEDS	2920		1120		1870	
50 PERCENT EXCEEDS	615		615		844	
90 PERCENT EXCEEDS	155		150		322	

For period of record through 1992.

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

LOCATION.--Lat 44°43'55", long 108°37'11", in NE $\frac{1}{4}$ sec.23, T.55 N., R.98 W., Park County, Hydrologic Unit 10080014, at upstream end of bridge on county road, 0.4 mi upstream from mouth, 3.9 mi southwest of Garland, and 7.5 mi east of Powell.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUN 11...	1900	E40	21.0	0.23	<0.01	0.70	<0.01	<0.01	<0.01	--
SEP 04...	1200	48	16.0	0.02	<0.01	0.15	<0.01	<0.01	<0.01	<0.01

06284400 SHOSHONE RIVER NEAR GARLAND, WY

LOCATION.--Lat 44°44'20", long 108°35'38", in SE½ SE¼ sec.13, T.55 N., R.98 W., Park County, Hydrologic Unit 10080014, on right bank 50 ft downstream from bridge on county road, 600 ft downstream from Penrose Dam, 1.3 mi upstream from Bitter Creek, 4.3 mi southeast of Garland, and 8.0 mi east of Powell.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

06284450 BITTER CREEK BELOW SEWAGE LAGOON, NEAR POWELL, WY

LOCATION.--Lat 44°47'10", long 108°43'44", in SE¼ NW¼ SW¼ sec.36, T.56 N., R.99 W., Park County, Hydrologic Unit 10080014, 0.7 mi upstream from bridge on County Road 7, 1.9 mi northeast of water tower in Powell, and 3.4 mi northwest of Garland.

PERIOD OF RECORD.--March 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUN 12...	0840	70	14.5	0.01	<0.01	0.23	<0.01	<0.01	<0.01	--
SEP 04...	0915	120	15.0	0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01

06284500 BITTER CREEK NEAR GARLAND, WY

LOCATION.--Lat 44°45'13", long 108°35'29", in SW¼ SW¼ SW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY 14...	1815	278	17.0	0.01	<0.01	0.10	<0.01	<0.01	<0.01	--
JUN 11...	1820	310	18.0	0.02	<0.01	0.21	<0.01	<0.01	<0.01	--
SEP 04...	1100	162	15.0	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
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, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,850 ft above National Geodetic Vertical Datum of 1929, 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: Oct. 28 to Nov. 14, Dec. 1-7, Dec. 22 to Jan. 24 and July 24 to Aug. 31. Records good except those for estimated daily discharges, which are poor. Flow regulated by Buffalo Bill Reservoir. (See station 06281500.) Natural flow of stream affected by storage reservoirs, power development, diversions upstream from station for irrigation of about 143,000 acres, of which about 8,000 acres are downstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	754	620	580	560	478	288	230	354	853	886	580	609
2	774	590	580	560	487	283	149	228	719	578	600	658
3	791	560	560	550	486	288	228	191	788	652	640	638
4	846	560	560	540	476	288	323	295	653	1050	580	623
5	874	570	560	550	478	294	343	256	644	720	560	677
6	869	600	580	540	473	308	232	246	688	637	520	813
7	854	620	580	540	474	302	134	266	800	538	500	945
8	705	640	603	540	477	333	134	318	677	528	500	872
9	676	680	588	540	479	283	219	365	564	536	500	718
10	660	700	590	540	479	277	231	418	491	530	460	638
11	674	720	584	540	468	280	451	450	428	533	490	627
12	688	740	611	540	473	280	548	470	401	622	480	617
13	674	740	577	530	446	283	440	489	418	1480	450	670
14	667	780	565	520	380	273	544	499	466	718	450	703
15	697	761	614	520	315	273	805	462	2290	698	440	649
16	698	698	602	520	276	275	592	496	3450	644	460	589
17	682	679	574	520	276	296	478	520	1420	550	490	566
18	900	697	578	520	264	286	624	532	830	466	460	617
19	705	673	579	540	268	281	554	510	939	509	430	636
20	650	656	573	560	275	276	482	499	846	657	430	588
21	768	668	564	580	277	281	383	473	804	828	460	620
22	852	660	560	600	277	278	313	523	625	927	500	608
23	669	626	560	560	281	275	418	541	850	917	540	650
24	640	639	560	520	272	265	381	574	913	860	520	651
25	636	647	560	517	276	260	410	613	756	800	510	638
26	605	636	560	504	279	256	448	618	701	700	500	668
27	601	638	560	500	282	257	511	747	655	660	520	712
28	670	623	560	503	288	253	463	730	569	640	500	679
29	700	613	560	508	285	249	428	707	586	620	520	619
30	690	605	560	497	---	248	412	760	1030	610	540	576
31	680	---	560	487	---	240	---	925	---	600	570	---
TOTAL	22349	19639	17802	16546	10745	8609	11908	15075	25854	21694	15700	19874
MEAN	721	655	574	534	371	278	397	486	862	700	506	662
MAX	900	780	614	600	487	333	805	925	3450	1480	640	945
MIN	601	560	560	487	264	240	134	191	401	466	430	566
AC-FT	44330	38950	35310	32820	21310	17080	23620	29900	51280	43030	31140	39420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	780	726	673	611	620	640	697	812	1956	1872	765	777														
MAX	1251	1146	1168	1065	1139	1133	1877	1909	4935	4686	1305	1354														
(WY)	1972	1969	1969	1973	1973	1973	1976	1975	1981	1982	1982	1991														
MIN	369	297	330	226	228	249	248	193	203	149	207	245														
(WY)	1989	1986	1989	1991	1989	1989	1981	1977	1977	1977	1977	1977														

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1967 - 1992
ANNUAL TOTAL	340302	205795	--
ANNUAL MEAN	932	562	911
HIGHEST ANNUAL MEAN	--	--	1313
LOWEST ANNUAL MEAN	--	--	359
HIGHEST DAILY MEAN	4640	Jun 18	15200
LOWEST DAILY MEAN	182	Apr 10	27
ANNUAL SEVEN-DAY MINIMUM	220	Jan 1	48
INSTANTANEOUS PEAK FLOW	--	--	16400a
INSTANTANEOUS PEAK STAGE	--	7.66	10.09b
ANNUAL RUNOFF (AC-FT)	675000	408200	660300
10 PERCENT EXCEEDS	2280	763	1490
50 PERCENT EXCEEDS	620	560	681
90 PERCENT EXCEEDS	240	278	326

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

b Backwater from ice, site then in use, at present datum.

YELLOWSTONE RIVER BASIN

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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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 21...	1330	668	<1	79	142
MAR 19...	1500	298	<1	23	19
JUL 14...	1620	717	1	566	1100
AUG 31...	1800	550	<1	100	149

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
OCT 09...	1015	679	10.0	730
NOV 21...	1330	668	4.0	900
DEC 17...	1100	585	1.0	850
FEB 03...	1640	468	4.0	960
MAR 19...	1500	298	9.0	1300
APR 27...	1640	561	16.5	670
JUN 04...	0915	684	13.0	720
JUL 14...	1620	717	22.0	710
AUG 31...	1800	550	15.0	754
SEP 09...	1400	780	14.0	735

YELLOWSTONE RIVER BASIN

06286400 BIGHORN LAKE NEAR ST.XAVIER, MT

LOCATION.--Lat 45°18'27", long 107°57'26", in SW¼ SE¼ sec.18, T.6 S., R.31 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 southeast 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 National Geodetic Vertical Datum of 1929 (levels by U.S. 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, 1,356,000 acre-ft between elevation 3,296.50 ft, river outlet invert, and 3,657.00 ft, top of flood control. Elevation of spillway crest, 3,593.00 ft. Normal maximum operating level, 1,097,000 acre-ft, elevation, 3,640.00 ft. Minimum operating level, 483,400 acre-ft, elevation, 3,547.00 ft. Dead storage, 16,010 acre-ft, below elevation 3,296.50 ft. Figures given herein represent usable contents. Water is used for power production, flood control, irrigation, and recreation.

COOPERATION.--Elevations and capacity table furnished by U.S. 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, 1,079,000 acre-ft, July 27, elevation, 3,641.92 ft; minimum, 803,500 acre-ft, May 6, elevation, 3,612.51 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992			
Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,639.36	1,046,000	---
Oct. 31	3,637.31	1,021,000	-25,000
Nov. 30	3,633.07	974,300	-46,700
Dec. 31	3,627.00	915,600	-58,700
CAL YR 1991			+35,800
Jan. 31	3,621.39	868,400	-47,200
Feb. 29	3,619.25	851,800	-16,600
Mar. 31	3,614.98	820,500	-31,300
Apr. 30	3,612.68	804,700	-15,800
May 31	3,621.48	869,200	+64,500
June 30	3,636.00	1,006,000	+136,800
July 31	3,641.28	1,070,000	+64,000
Aug. 31	3,636.82	1,016,000	-54,000
Sept. 30	3,637.74	1,026,000	+10,000
WTR YR 1992			-20,000

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REMARKS.--No estimated daily discharges during year. Records good. 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. U.S. Bureau of Reclamation satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4490	3450	3700	3290	3260	2330	2180	1960	2500	2390	3460	2080
2	4440	3470	3720	3290	3260	2350	2170	1950	2500	2550	3470	2070
3	4420	3490	3730	3290	3260	2330	2160	1940	2510	2500	3490	2060
4	4370	3500	3730	3290	3260	2320	2160	2030	2510	2400	3460	2290
5	4410	3530	3750	3280	3260	2310	2150	2060	2520	2400	3460	2030
6	4410	3560	3760	3290	3260	2310	2140	2130	2530	2390	3470	2020
7	4420	3560	3510	3290	3260	2320	2130	2190	2530	2400	3480	2010
8	4390	3590	3530	3290	3250	2310	2120	2180	2540	2410	3480	1990
9	4410	3600	3530	3290	3240	2300	2120	2180	2540	2450	3490	1980
10	3670	3630	3540	3300	3240	2310	2110	2170	2550	2490	3520	1970
11	3200	3650	3560	3290	3230	2300	2100	2160	2560	2490	3520	1950
12	3060	3660	3560	3280	2960	2310	2100	2160	2570	2490	3240	1940
13	3070	3690	3590	3270	2700	2310	2090	2200	2570	2490	2970	1930
14	3080	3720	3590	3280	2440	2300	2080	2270	2570	2490	2960	1890
15	3120	3630	3610	3270	2440	2300	2070	2290	2460	2500	2940	1860
16	3130	3540	3630	3270	2430	2290	2060	2290	2400	2500	2910	1850
17	3160	3550	3610	3280	2430	2290	2060	2300	2410	2510	2900	1840
18	3170	3560	3640	3280	2430	2290	2050	2320	2430	2500	2880	1840
19	3190	3580	3630	3280	2410	2280	2040	2390	2440	2510	2870	2100
20	3210	3610	3310	3280	2410	2270	2030	2410	2460	2510	2850	2080
21	3210	3600	3300	3280	2400	2260	2030	2420	2470	2610	2570	2070
22	3270	3600	3300	3270	2400	2250	2020	2430	2490	3030	2320	2060
23	3280	3620	3300	3280	2400	2240	2010	2430	2560	3440	2310	2040
24	3290	3640	3310	3280	2390	2240	2010	2440	2620	3440	2290	2030
25	3320	3630	3300	3270	2380	2230	1990	2440	2630	3450	2280	2010
26	3350	3660	3310	3280	2390	2220	1990	2460	2620	3450	2230	2000
27	3350	3660	3280	3280	2350	2220	1980	2460	2620	3440	2180	1990
28	3380	3670	3280	3270	2360	2210	1980	2460	2560	3400	2330	1980
29	3400	3690	3280	3260	2330	2200	1970	2480	2600	3410	2150	1970
30	3410	3690	3280	3260	---	2190	1960	2480	2490	3460	2130	1950
31	3400	---	3290	3250	---	2190	---	2490	---	3480	2110	---
TOTAL	111480	108030	108460	101660	79830	70580	62060	70570	75760	85980	89720	59880
MEAN	3596	3601	3499	3279	2753	2277	2069	2276	2525	2774	2894	1996
MAX	4490	3720	3760	3300	3260	2350	2180	2490	2630	3480	3520	2290
MIN	3060	3450	3280	3250	2330	2190	1960	1940	2400	2390	2110	1840
AC-FT	221100	214300	215100	201600	158300	140000	123100	140000	150300	170500	178000	118800
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1992, BY WATER YEAR (WY)												
MEAN	2955	2954	2742	2577	2639	2899	2835	3896	7428	5620	2794	2695
MAX	5142	5151	4999	5267	4384	4809	6675	8744	17900	18890	6490	4544
(WY)	1972	1983	1968	1968	1976	1976	1972	1947	1935	1967	1978	1973
MIN	1224	856	1095	1090	888	327	678	900	1078	1144	1260	1074
(WY)	1978	1966	1935	1935	1936	1966	1966	1966	1966	1960	1966	1966

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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1935 - 1992
ANNUAL TOTAL	1405850		1024010		--
ANNUAL MEAN	3852		2798		3504
HIGHEST ANNUAL MEAN	--		--		5059
LOWEST ANNUAL MEAN	--		--		1565
HIGHEST DAILY MEAN	12700	Jun 12	4490	Oct 1	37400
LOWEST DAILY MEAN	1880	May 13	1840	Sep 17, 18	112
ANNUAL SEVEN-DAY MINIMUM	1890	May 7	1880	Sep 12	195
INSTANTANEOUS PEAK FLOW	--		4700	Oct 2	37400
INSTANTANEOUS LOW FLOW	--		--		49a
ANNUAL RUNOFF (AC-FT)	2789000		2031000		2539000
10 PERCENT EXCEEDS	6030		3600		5790
50 PERCENT EXCEEDS	3280		2530		2860
90 PERCENT EXCEEDS	1980		2040		1540
SUMMARY STATISTICS	WATER YEARS 1935 - 1961*		WATER YEARS 1967 - 1992**		
ANNUAL MEAN	3426		3566		
HIGHEST ANNUAL MEAN	5059	1947	4697	1983	
LOWEST ANNUAL MEAN	1706	1961	1868	1989	
HIGHEST DAILY MEAN	37400	Jun 16 1935	24800	Jul 6 1967	
LOWEST DAILY MEAN	300	Dec 20 1951	112	Apr 2 1967	
ANNUAL SEVEN-DAY MINIMUM	656	Dec 25 1934	518	Mar 25 1970	
INSTANTANEOUS PEAK FLOW	37400	Jun 16 1935	25300	Jul 5 1967	
INSTANTANEOUS LOW FLOW	228	Dec 9 1937	112a	Apr 2 1967	
ANNUAL RUNOFF (AC-FT)	2482000		2583000		
10 PERCENT EXCEEDS	6440		5400		
50 PERCENT EXCEEDS	2450		3260		
90 PERCENT EXCEEDS	1370		1920		

* Pryor to construction of Yellowtail Dam.

** After completion of Yellowtail Dam.

a Result of discharge measurement (dam closure).

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

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LOCATION.--Lat 45°00'25", long 107°36'52", in SW¼ NW¼ 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.

PERIOD OF RECORD.--March 1939 to current year. Prior to October 1940, published as Little Horn River at State Line, near Wyola.

REVISED RECORDS.--WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,350 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of 163 acres upstream from station. Several observations of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	58	48	57	55	54	56	186	263	334	167	106
2	80	48	65	61	55	54	58	162	249	357	165	104
3	81	60	73	61	54	54	61	169	256	337	165	103
4	81	83	76	61	53	55	64	194	242	335	159	104
5	78	81	73	60	55	57	65	220	264	324	155	106
6	80	78	72	60	54	56	63	260	261	306	153	110
7	79	74	72	60	53	56	61	306	249	292	150	106
8	78	72	70	58	56	57	63	334	243	274	147	103
9	77	73	68	59	56	54	62	356	240	273	145	103
10	76	70	68	59	56	53	65	292	242	268	143	101
11	75	68	62	59	55	55	64	268	243	260	139	99
12	76	69	67	59	55	54	62	255	246	281	138	99
13	76	72	67	58	55	54	68	245	239	288	136	97
14	76	73	61	57	55	54	72	252	232	248	133	95
15	75	69	65	49	54	55	78	282	327	238	131	93
16	75	69	66	63	54	57	83	302	311	229	144	92
17	76	70	63	54	55	58	92	266	373	221	138	93
18	76	71	64	51	53	58	89	290	341	214	129	93
19	75	68	65	60	54	55	79	333	343	226	125	92
20	73	68	63	59	54	55	80	365	356	216	127	92
21	74	70	63	57	54	54	81	383	336	239	133	92
22	75	69	63	57	54	52	82	322	316	227	129	88
23	75	60	62	57	53	55	79	304	303	207	133	88
24	66	69	62	57	53	56	75	309	293	200	127	88
25	72	69	62	56	53	55	75	284	291	193	125	92
26	72	68	62	56	53	55	79	275	305	188	120	90
27	72	70	62	55	53	57	94	269	282	183	114	88
28	59	67	62	56	53	57	118	259	269	180	112	85
29	60	65	62	55	53	56	143	250	265	178	112	83
30	44	47	61	54	---	57	185	275	362	175	110	83
31	54	---	58	55	---	57	---	282	---	171	106	---
TOTAL	2267	2048	2007	1780	1570	1716	2396	8549	8542	7662	4210	2868
MEAN	73.1	68.3	64.7	57.4	54.1	55.4	79.9	276	285	247	136	95.6
MAX	81	83	76	63	56	58	185	383	373	357	167	110
MIN	44	47	48	49	53	52	56	162	232	171	106	83
AC-FT	4500	4060	3980	3530	3110	3400	4750	16960	16940	15200	8350	5690

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

	MEAN	MAX	(WY)	MIN	(WY)
1940	86.9	120	1976	64.0	1961
1941	75.8	104	1942	55.2	1986
1942	67.9	91.2	1976	48.3	1990
1943	62.8	84.9	1946	43.6	1963
1944	61.8	88.0	1946	47.8	1990
1945	61.6	86.4	1946	48.6	1961
1946	85.3	172	1977	50.7	1961
1947	324	533	1977	127	1953
1948	531	1125	1975	169	1985
1949	224	689	1975	101	1961
1950	124	228	1975	69.8	1961
1951	98.8	151	1975	67.9	1961

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1940 - 1992
ANNUAL TOTAL	55484	45615	--
ANNUAL MEAN	152	125	150
HIGHEST ANNUAL MEAN	--	--	253
LOWEST ANNUAL MEAN	--	--	90.3
HIGHEST DAILY MEAN	1000	383	2340
LOWEST DAILY MEAN	38	44	18
ANNUAL SEVEN-DAY MINIMUM	46	53	27
INSTANTANEOUS PEAK FLOW	--	468	2730a
INSTANTANEOUS PEAK STAGE	--	2.70	5.93b
INSTANTANEOUS LOW FLOW	--	38	--
ANNUAL RUNOFF (AC-FT)	110100	90480	109000
10 PERCENT EXCEEDS	382	282	340
50 PERCENT EXCEEDS	74	76	84
90 PERCENT EXCEEDS	57	54	56

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

YELLOWSTONE RIVER BASIN
06289600 WEST PASS CREEK NEAR PARKMAN, WY

LOCATION.--Lat 44°59'16", long 107°28'56", in NE¼ NE¼ SE¼ 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 National Geodetic Vertical Datum of 1929, 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: Oct. 30 to Nov. 6, Nov. 23, 24, Nov. 30 to Dec. 3, Dec. 6, 11, 14-18, 21, and Jan. 8, 9, 15-19. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	1830	21	0.97	July 1	2000	*118	*2.10
June 5	0900	22	1.01	July 12	1230	59	1.64
June 17	0430	31	1.20				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.0	5.5	6.5	6.5	6.3	6.7	16	14	37	14	9.9
2	7.6	5.7	6.4	6.3	6.3	6.3	6.7	14	13	42	13	9.6
3	7.9	6.1	7.6	6.3	6.2	6.2	6.9	13	13	36	13	9.5
4	8.2	6.6	8.4	6.4	6.0	6.3	7.2	13	13	34	13	9.8
5	7.9	7.4	8.2	6.6	6.3	6.8	7.6	15	17	32	12	9.9
6	7.8	8.0	10	6.6	6.2	6.7	7.5	15	15	30	12	11
7	7.7	8.4	9.5	6.6	5.9	6.6	7.4	16	13	28	12	10
8	7.7	8.7	8.4	6.2	6.1	7.1	7.4	17	13	26	11	9.7
9	7.7	9.4	7.7	6.4	6.1	6.6	7.4	19	13	25	11	10
10	7.5	8.7	7.7	6.4	5.9	6.5	7.7	18	13	25	11	9.9
11	7.6	8.4	7.2	6.5	5.9	6.6	7.8	16	13	23	11	9.7
12	7.6	8.1	7.2	6.4	6.0	6.5	7.5	16	12	31	11	9.9
13	7.5	8.5	7.1	6.6	5.9	6.5	7.8	15	13	25	11	9.9
14	7.4	9.5	6.8	5.6	6.1	6.5	7.7	14	13	21	11	9.7
15	7.4	8.2	6.6	5.6	6.1	6.5	8.1	14	21	20	11	9.6
16	7.3	7.9	6.6	6.6	6.1	6.5	8.6	15	20	19	12	9.5
17	7.7	7.9	6.7	6.1	6.1	6.7	9.3	14	25	19	11	9.8
18	8.0	8.2	7.0	6.5	5.8	7.0	11	13	22	18	11	9.8
19	7.9	7.9	7.3	6.9	6.0	6.8	11	13	21	18	10	9.6
20	7.9	9.0	7.2	6.7	6.1	6.7	11	13	20	18	10	9.2
21	7.9	8.7	7.0	6.6	6.0	6.7	10	18	20	18	11	9.2
22	7.9	7.8	6.9	6.5	6.2	6.2	11	16	20	18	11	9.1
23	8.2	7.6	6.9	6.3	5.9	6.7	10	14	19	17	11	8.7
24	8.1	7.8	6.9	6.4	5.7	6.8	10	14	18	17	11	9.0
25	8.0	7.9	6.8	6.4	5.9	6.8	10	13	18	16	11	9.2
26	7.8	8.2	6.7	6.3	6.0	6.7	9.9	13	17	16	10	9.1
27	7.6	8.0	6.7	6.3	6.3	6.7	10	13	17	15	10	8.9
28	6.7	7.6	6.7	6.4	6.2	6.9	12	12	16	15	9.9	8.9
29	6.0	6.8	6.7	6.3	6.3	6.7	14	12	16	15	9.8	8.8
30	5.7	5.7	6.5	6.1	---	6.7	15	12	21	14	10	8.4
31	6.5	---	6.5	6.7	---	6.7	---	16	---	14	10	---
TOTAL	234.1	234.7	223.4	198.1	176.1	205.3	274.2	452	499	702	345.7	285.3
MEAN	7.55	7.82	7.21	6.39	6.07	6.62	9.14	14.6	16.6	22.6	11.2	9.51
MAX	8.2	9.5	10	6.9	6.5	7.1	15	19	25	42	14	11
MIN	5.7	5.7	5.5	5.6	5.7	6.2	6.7	12	12	14	9.8	8.4
AC-FT	464	466	443	393	349	407	544	897	990	1390	686	566

YELLOWSTONE RIVER BASIN
06289600 WEST PASS CREEK NEAR PARKMAN, WY-Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1992, BY WATER YEAR (WY)												
MEAN	6.96	6.83	5.98	5.93	5.62	6.95	12.4	30.0	21.7	11.8	7.94	7.26
MAX	7.91	7.82	7.21	6.81	6.84	9.97	16.9	71.9	49.3	22.6	12.1	9.82
(WY)	1987	1992	1992	1984	1984	1984	1984	1984	1984	1992	1984	1984
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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1983 - 1992		
ANNUAL TOTAL	4609.7			3829.9			--		
ANNUAL MEAN	12.6			10.5			11.7		
HIGHEST ANNUAL MEAN	--			--			18.7		
LOWEST ANNUAL MEAN	--			--			7.76		
HIGHEST DAILY MEAN	92	May 21		42	Jul 2		176	May 16	
LOWEST DAILY MEAN	3.8	Jan 1		5.5	Dec 1		.02a	Jan 7	
ANNUAL SEVEN-DAY MINIMUM	4.1	Jan 1		6.0	Feb 18		.81	Feb 3	
INSTANTANEOUS PEAK FLOW	--			118	Jul 1		195b	May 16	
INSTANTANEOUS PEAK STAGE	--			2.10	Jul 1		4.76c	Apr 28	
ANNUAL RUNOFF (AC-FT)	9140			7600			8510		
10 PERCENT EXCEEDS	27			18			21		
50 PERCENT EXCEEDS	7.8			8.2			7.5		
90 PERCENT EXCEEDS	5.6			6.2			5.5		

a Result of channel blockage or diversion upstream.
b Gage height, 4.62 ft, site and datum then in use.
c Backwater from ice.

YELLOWSTONE RIVER BASIN
06289820 EAST PASS CREEK NEAR DAYTON, WY

LOCATION.--Lat 44°59'23", long 107°25'20", in SE¼ SE¼ NE¼ sec.24, T.58 N., R.88 W., Sheridan County, Hydrologic Unit 10080016, on left bank 0.3 mi downstream from bridge on county road, 5.0 mi northwest of Parkman, and 11.2 mi northwest of Dayton.

DRAINAGE AREA.--21.7 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 6, Nov. 23, Nov. 29 to Dec. 2, Dec. 11, 14, 15, 17, 18, 21, 27, Dec. 29 to Jan. 1, Jan. 4-9, 13-19, 22, and Feb. 4, 6-8, 10-12, 18, 24. Records good 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 3	1200	ice jam	*2.51	June 18	1630	50	1.90
May 9	1830	32	1.67	July 3	0030	*74	2.15
May 21	1730	26	1.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.1	9.1	8.3	9.4	7.0	7.3	22	18	35	16	10
2	7.4	8.5	9.6	8.1	9.2	6.9	7.3	21	18	65	16	10
3	8.3	8.7	10	8.1	9.0	6.9	7.5	18	19	72	15	8.6
4	8.9	9.0	10	8.0	8.5	6.9	7.5	19	18	64	13	7.4
5	8.7	9.5	9.8	8.0	8.6	7.8	8.0	20	22	54	13	8.4
6	8.6	9.7	11	8.0	8.4	7.5	7.9	22	21	48	12	12
7	8.4	10	11	7.8	8.0	7.9	7.7	24	21	44	12	12
8	8.0	10	11	7.7	7.5	9.8	8.0	25	22	40	11	11
9	7.9	11	10	7.8	7.7	8.9	7.8	28	21	38	11	10
10	7.7	10	10	8.1	7.6	8.9	8.3	26	20	36	12	10
11	7.8	9.8	9.8	8.1	7.4	8.8	8.5	23	19	34	12	9.8
12	7.9	9.7	9.7	8.1	6.7	8.6	7.9	21	18	39	12	9.8
13	7.8	10	9.7	8.0	6.7	8.7	8.0	19	18	37	12	9.9
14	6.9	12	9.4	7.7	6.5	8.6	8.1	18	17	33	12	11
15	7.7	10	9.2	7.2	6.3	8.7	8.5	17	26	32	12	10
16	7.7	10	9.7	7.6	5.8	8.7	9.0	19	31	30	13	9.5
17	8.2	10	9.4	7.8	6.0	8.7	9.7	18	40	29	12	9.8
18	8.9	10	9.2	8.0	6.0	9.4	11	17	48	27	12	9.7
19	8.8	9.7	9.3	8.2	6.1	9.0	11	18	46	27	11	9.6
20	8.7	11	8.9	8.4	6.2	9.0	10	18	41	26	11	9.8
21	8.7	12	8.6	8.1	6.4	8.9	9.9	24	37	27	13	10
22	8.9	11	8.7	7.8	6.8	8.5	10	23	34	26	12	10
23	9.7	10	8.7	7.9	6.8	8.6	10	21	29	24	13	9.9
24	9.5	9.8	8.7	8.4	6.6	8.9	10	20	27	21	12	10
25	9.6	9.8	8.5	8.3	6.7	8.6	10	19	23	19	12	11
26	9.6	10	8.5	8.3	6.8	8.6	10	18	21	18	11	10
27	9.7	10	8.3	8.4	6.8	8.6	10	17	20	16	11	10
28	9.5	9.9	8.5	8.6	6.8	8.6	11	17	19	13	10	10
29	8.9	9.6	8.4	8.7	6.9	8.4	13	16	19	12	10	11
30	8.0	8.8	8.4	8.6	---	8.4	16	16	29	16	10	9.9
31	7.6	---	8.4	9.1	---	7.9	---	19	---	17	9.9	---
TOTAL	261.4	297.6	289.5	251.2	208.2	260.7	278.9	623	762	1019	373.9	300.1
MEAN	8.43	9.92	9.34	8.10	7.18	8.41	9.30	20.1	25.4	32.9	12.1	10.0
MAX	9.7	12	11	9.1	9.4	9.8	16	28	48	72	16	12
MIN	6.9	8.1	8.3	7.2	5.8	6.9	7.3	16	17	12	9.9	7.4
AC-FT	518	590	574	498	413	517	553	1240	1510	2020	742	595

YELLOWSTONE RIVER BASIN
06289820 EAST PASS CREEK NEAR DAYTON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1992, BY WATER YEAR (WY)

MEAN	8.26	8.62	8.09	8.29	8.27	9.32	14.8	38.8	31.7	12.5	6.49	7.04
MAX	10.9	10.8	9.85	10.2	9.94	12.3	25.7	90.3	72.1	32.9	12.1	10.0
(WY)	1985	1985	1983	1983	1983	1984	1984	1984	1984	1992	1992	1992
MIN	5.73	6.90	6.69	6.96	6.78	7.29	9.30	15.2	6.65	5.06	2.73	4.02
(WY)	1991	1986	1988	1988	1989	1990	1992	1985	1985	1985	1988	1989

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1983 - 1992		
ANNUAL TOTAL	5794.6			4925.5			--		
ANNUAL MEAN	15.9			13.5			13.5		
HIGHEST ANNUAL MEAN	--			--			23.6		
LOWEST ANNUAL MEAN	--			--			8.57		
HIGHEST DAILY MEAN	109			72			188		
LOWEST DAILY MEAN	2.7			5.8			1.7		
ANNUAL SEVEN-DAY MINIMUM	3.0			6.1			2.1		
INSTANTANEOUS PEAK FLOW	--			74a			197b		
INSTANTANEOUS PEAK STAGE	--			2.51c			3.47c		
ANNUAL RUNOFF (AC-FT)	11490			9770			9800		
10 PERCENT EXCEEDS	42			24			25		
50 PERCENT EXCEEDS	8.7			9.8			8.8		
90 PERCENT EXCEEDS	5.7			7.6			5.6		

a Gage height, 2.15 ft.

b Gage height, 3.14 ft.

c Backwater from ice.

YELLOWSTONE RIVER BASIN
06298000 TONGUE RIVER NEAR DAYTON, WY

LOCATION.--Lat 44°50'58", long 107°18'14", in NE¼ NE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, 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 satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 980 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	1200	*841	*3.82	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	55	47	52	51	52	54	409	426	532	209	123
2	78	51	63	53	51	53	62	320	372	577	205	118
3	79	58	64	55	51	52	70	339	388	489	212	111
4	82	72	70	55	47	55	84	394	366	465	203	111
5	70	80	69	55	47	58	88	398	384	452	187	118
6	81	80	70	54	47	56	74	432	427	416	170	123
7	81	78	63	55	46	54	66	468	402	397	163	129
8	78	77	65	53	51	56	67	491	368	391	156	115
9	76	80	63	54	53	52	70	569	361	390	152	111
10	73	73	60	54	53	44	76	452	354	380	150	111
11	73	69	57	54	52	54	77	413	342	373	147	110
12	72	72	56	54	53	54	74	389	362	485	144	108
13	73	75	59	53	52	52	101	368	376	500	141	109
14	72	70	59	51	53	49	120	369	328	372	136	107
15	72	63	59	47	51	55	153	379	476	342	130	107
16	70	61	62	57	49	58	172	433	507	327	154	104
17	69	65	60	54	53	58	180	377	604	316	159	103
18	73	69	61	54	50	58	171	386	501	304	131	103
19	74	63	62	55	51	53	118	416	469	341	124	102
20	71	64	60	56	53	52	120	447	475	356	120	100
21	75	69	59	55	53	50	130	707	454	364	143	99
22	74	64	60	54	52	40	140	542	457	366	138	98
23	76	56	58	55	51	52	129	446	477	303	140	97
24	51	60	57	53	45	60	109	464	406	293	134	96
25	65	66	58	52	53	50	114	437	468	273	128	103
26	70	69	56	54	51	51	131	410	472	263	124	106
27	79	68	56	52	52	57	181	398	436	249	117	101
28	51	63	55	53	51	57	266	398	431	237	116	98
29	44	59	55	55	50	55	341	362	406	224	118	96
30	31	41	54	54	---	56	441	403	564	220	118	94
31	48	---	52	54	---	58	---	445	---	214	116	---
TOTAL	2160	1990	1849	1666	1472	1661	3979	13261	12859	11211	4585	3211
MEAN	69.7	66.3	59.6	53.7	50.8	53.6	133	428	429	362	148	107
MAX	82	80	70	57	53	60	441	707	604	577	212	129
MIN	31	41	47	47	45	40	54	320	328	214	116	94
AC-FT	4280	3950	3670	3300	2920	3290	7890	26300	25510	22240	9090	6370
+	124	.00	.00	.00	.00	.00	.00	1240	869	173	1400	250

ADJUSTED FOR DIVERSION BY HIGHLINE DITCH

MEAN	71.7	66.3	59.6	53.7	50.8	53.6	133	448	443	364	171	111
AC-FT	4400	3950	3670	3300	2920	3290	7890	27540	26380	22410	10490	6620

YELLOWSTONE RIVER BASIN
06298000 TONGUE RIVER NEAR DAYTON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1992, BY WATER YEAR (WY)*												
MEAN	81.5	67.9	61.2	55.9	52.5	51.5	109	525	714	248	112	85.4
MAX	284	155	108	88.9	80.8	72.0	354	1048	1482	767	244	163
(WY)	1924	1924	1924	1924	1924	1924	1926	1926	1978	1975	1927	1968
MIN	49.6	41.1	39.6	36.1	34.1	38.1	44.2	266	214	81.1	52.8	42.8
(WY)	1955	1941	1941	1941	1941	1941	1975	1953	1919	1919	1966	1966

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR*			FOR 1992 WATER YEAR*			WATER YEARS 1919 - 1992*		
ANNUAL TOTAL	64202a			59904a			--		
ANNUAL MEAN	176a			164a			182		
HIGHEST ANNUAL MEAN	--			--			316		
LOWEST ANNUAL MEAN	--			--			98.4		
HIGHEST DAILY MEAN	1480	May 21		707	May 21		2590	Jun 5	1968
LOWEST DAILY MEAN	31	Oct 30		31	Oct 30		18	Nov 29	1919
ANNUAL SEVEN-DAY MINIMUM	42	Mar 25		48	Oct 28		31	Nov 9	1940
INSTANTANEOUS PEAK FLOW	--			841	May 21		3400	Jun 3	1944
INSTANTANEOUS PEAK STAGE	--			3.82	May 21		6.45	Jun 3	1944
ANNUAL RUNOFF (AC-FT)	127300a			118800a			131700		
10 PERCENT EXCEEDS	561			426			489		
50 PERCENT EXCEEDS	70			78			73		
90 PERCENT EXCEEDS	48			52			48		

+ Diversion, in acre-ft, upstream from station by Highline Ditch.

* Unadjusted for diversion by Highline Ditch.

a Annual total, mean, and runoff, after adjusting for Highline Ditch:

	Annual Total	Annual Mean	Annual Runoff (ac-ft)
1991 Calendar Year	66,780	183	132,500
1992 Water Year	61,950	169	122,900

YELLOWSTONE RIVER BASIN
06299500 WOLF CREEK AT WOLF, WY

LOCATION.--Lat 44°46'21", long 107°14'01", in NE¼ SW¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 26, 1945, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 28 to June 1. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 5.0 ft, May 18, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 15	1615	*196	*2.51	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	5.6	54	70	85	32	14
2	---	---	---	---	---	---	6.0	48	69	103	32	13
3	---	---	---	---	---	---	6.5	52	70	88	32	12
4	---	---	---	---	---	---	8.1	55	66	83	29	12
5	---	---	---	---	---	---	9.2	60	73	80	28	12
6	---	---	---	---	---	---	8.1	66	85	76	27	13
7	---	---	---	---	---	---	7.0	72	86	72	25	15
8	---	---	---	---	---	---	7.0	76	79	69	24	13
9	---	---	---	---	---	---	7.2	86	77	68	23	12
10	---	---	---	---	---	---	8.3	76	75	64	22	12
11	---	---	---	---	---	---	8.3	73	72	62	21	11
12	---	---	---	---	---	---	8.1	68	75	83	20	11
13	---	---	---	---	---	---	11	65	72	82	19	12
14	---	---	---	---	---	---	13	65	68	61	19	11
15	---	---	---	---	---	---	16	66	138	57	18	10
16	---	---	---	---	---	---	19	69	112	55	23	9.9
17	---	---	---	---	---	---	19	61	117	54	23	9.9
18	---	---	---	---	---	---	20	61	105	51	19	9.9
19	---	---	---	---	---	---	18	62	101	59	18	9.9
20	---	---	---	---	---	---	17	66	98	55	18	9.6
21	---	---	---	---	---	---	17	118	94	55	21	9.6
22	---	---	---	---	---	---	19	90	94	53	19	9.6
23	---	---	---	---	---	---	18	77	86	47	19	9.6
24	---	---	---	---	---	---	16	79	77	45	18	9.6
25	---	---	---	---	---	---	17	75	76	43	17	11
26	---	---	---	---	---	---	20	70	85	41	17	11
27	---	---	---	---	---	---	25	66	76	39	16	10
28	---	---	---	---	---	---	33	68	77	38	15	9.9
29	---	---	---	---	---	---	41	63	75	37	14	9.6
30	---	---	---	---	---	---	52	68	86	36	14	9.6
31	---	---	---	---	---	---	---	74	---	34	13	---
TOTAL	---	---	---	---	---	---	480.4	2149	2534	1875	655	331.7
MEAN	---	---	---	---	---	---	16.0	69.3	84.5	60.5	21.1	11.1
MAX	---	---	---	---	---	---	52	118	138	103	32	15
MIN	---	---	---	---	---	---	5.6	48	66	34	13	9.6
AC-FT	---	---	---	---	---	---	953	4260	5030	3720	1300	658

YELLOWSTONE RIVER BASIN
06299500 WOLF CREEK AT WOLF, WY--Continued

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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

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1946 - 1971
ANNUAL MEAN	--	29.3
HIGHEST ANNUAL MEAN	--	45.0
LOWEST ANNUAL MEAN	--	13.8
HIGHEST DAILY MEAN	138 Jun 15	601 Jun 9 1964
LOWEST DAILY MEAN	5.6 Apr 1	1.8 Feb 26 1947#
ANNUAL SEVEN-DAY MINIMUM	--	2.5 Jan 24 1957
INSTANTANEOUS PEAK FLOW	196 Jun 15	1130a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	2.51 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 1992.

a From rating curve extended above 500 ft³/s.

YELLOWSTONE RIVER BASIN
06300500 EAST FORK BIG GOOSE CREEK NEAR BIG HORN, WY

LOCATION.--Lat 44°32'18", long 107°13'33", in SE¼ SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, 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 1-4. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	65	98	178	26	11
2	---	---	---	---	---	---	---	56	103	162	26	11
3	---	---	---	---	---	---	---	57	134	133	28	11
4	---	---	---	---	---	---	---	58	113	114	26	10
5	---	---	---	---	---	---	---	80	109	105	23	11
6	---	---	---	---	---	---	---	115	103	99	21	14
7	---	---	---	---	---	---	---	146	118	94	20	16
8	---	---	---	---	---	---	---	163	124	83	19	14
9	---	---	---	---	---	---	---	168	127	72	18	13
10	---	---	---	---	---	---	---	101	134	66	17	13
11	---	---	---	---	---	---	---	73	124	61	16	13
12	---	---	---	---	---	---	---	67	142	79	16	13
13	---	---	---	---	---	---	---	62	138	92	15	14
14	---	---	---	---	---	---	---	70	138	70	14	13
15	---	---	---	---	---	---	---	82	134	62	14	11
16	---	---	---	---	---	---	---	101	110	56	16	11
17	---	---	---	---	---	---	---	72	99	50	19	10
18	---	---	---	---	---	---	---	90	102	47	16	10
19	---	---	---	---	---	---	---	152	116	52	15	9.9
20	---	---	---	---	---	---	---	209	120	54	16	9.7
21	---	---	---	---	---	---	---	351	138	56	20	9.5
22	---	---	---	---	---	---	---	178	196	51	17	9.2
23	---	---	---	---	---	---	---	148	210	47	17	9.0
24	---	---	---	---	---	---	---	161	225	48	16	9.5
25	---	---	---	---	---	---	---	131	294	42	15	11
26	---	---	---	---	---	---	---	118	238	38	15	12
27	---	---	---	---	---	---	---	119	207	34	14	11
28	---	---	---	---	---	---	---	108	183	32	13	10
29	---	---	---	---	---	---	---	106	159	31	12	10
30	---	---	---	---	---	---	---	112	175	29	12	9.7
31	---	---	---	---	---	---	---	113	---	27	11	---
TOTAL	---	---	---	---	---	---	---	3632	4411	2164	543	339.5
MEAN	---	---	---	---	---	---	---	117	147	69.8	17.5	11.3
MAX	---	---	---	---	---	---	---	351	294	178	28	16
MIN	---	---	---	---	---	---	---	56	98	27	11	9.0
AC-FT	---	---	---	---	---	---	---	7200	8750	4290	1080	673

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

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
MEAN	8.61	5.47	3.65	3.04	2.60	2.52	4.97	84.4	188	56.9	18.2	12.4								
MAX	16.9	8.43	5.32	4.16	3.30	3.52	18.6	152	260	111	46.5	37.0								
(WY)	1968	1969	1958	1962	1959	1962	1962	1958	1963	1964	1968	1968								
MIN	4.48	2.85	2.23	1.87	1.63	1.15	1.76	28.9	84.6	20.5	7.39	5.22								
(WY)	1971	1963	1963	1971	1971	1971	1971	1968	1966	1961	1961	1954								

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1954 - 1973
ANNUAL MEAN	--	32.6
HIGHEST ANNUAL MEAN	--	41.8
LOWEST ANNUAL MEAN	--	21.4
HIGHEST DAILY MEAN	351 May 21	775 Jun 15 1963
LOWEST DAILY MEAN	9.0 Sep 23	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	528 Jun 24	1230a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	5.57 Jun 24	4.59b Jun 15 1963
ANNUAL RUNOFF (AC-FT)	--	23600
10 PERCENT EXCEEDS	--	102
50 PERCENT EXCEEDS	--	6.0
90 PERCENT EXCEEDS	--	2.4

* During period of operation.

For period of record through 1992.

a From rating curve extended above 250 ft³/s on basis of slope-area measurement of peak flow.

b Site and datum then in use.

YELLOWSTONE RIVER BASIN
06301480 CONEY CREEK ABOVE TWIN LAKES, NEAR BIG HORN, WY

193

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.

GAGE.--Water-stage recorder. Elevation of gage is 8,690 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 23-25, Oct. 27 to Nov. 8, Nov. 14 to Dec. 5, Jan. 14-19, Feb. 4-9, and Apr. 29 to May 3. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	.30	.26	.22	.15	.15	.21	.16	20	32	3.5	1.0
2	.79	.27	.29	.21	.13	.14	.20	.16	17	30	3.7	1.0
3	.75	.32	.32	.20	.14	.14	.23	.11	20	23	4.8	.94
4	.73	.15	.25	.10	.21	.14	.26	.13	21	19	3.8	.90
5	.74	.50	.38	.18	.29	.17	.29	.19	19	17	3.1	.90
6	.71	.46	.41	.16	.35	.20	.34	.28	19	14	2.6	1.0
7	.70	.55	.38	.18	.38	.22	.37	.38	22	12	2.2	1.1
8	.67	.62	.44	.19	.33	.24	.41	.40	22	11	2.0	1.1
9	.64	.68	.45	.20	.28	.24	.48	.43	20	9.5	1.8	1.1
10	.62	.65	.41	.20	.25	.22	.53	.27	20	8.6	1.7	1.1
11	.57	.60	.40	.21	.21	.20	.63	.21	20	9.1	1.6	1.0
12	.56	.51	.40	.21	.18	.19	.65	.18	22	13	1.5	.97
13	.54	.53	.46	.24	.19	.18	.68	.17	22	18	1.5	.92
14	.50	.62	.46	.22	.18	.18	.81	.18	19	14	1.3	.86
15	.52	.60	.42	.24	.16	.16	1.0	.21	22	11	1.2	.78
16	.53	.51	.38	.26	.22	.16	1.3	.28	24	8.9	1.3	.73
17	.37	.44	.37	.25	.22	.17	1.4	.21	23	7.7	1.5	.63
18	.41	.48	.37	.27	.24	.21	1.7	.21	25	6.8	1.5	.58
19	.39	.51	.37	.29	.22	.24	1.7	.32	22	8.1	1.4	.54
20	.40	.54	.38	.31	.20	.25	1.7	.41	20	9.6	1.4	.54
21	.41	.50	.37	.30	.17	.30	1.6	.84	18	9.3	1.6	.58
22	.39	.46	.34	.29	.15	.30	1.6	.48	37	9.5	1.7	.55
23	.32	.39	.33	.30	.15	.28	1.7	.31	58	8.6	1.7	.52
24	.36	.42	.31	.27	.15	.27	1.7	.31	32	7.7	1.7	.66
25	.45	.46	.30	.24	.16	.25	1.7	.28	48	7.0	1.6	.87
26	.54	.50	.30	.22	.16	.24	1.8	.24	34	6.1	1.5	.86
27	.48	.46	.30	.20	.16	.23	2.2	.23	28	5.3	1.3	.80
28	.36	.40	.28	.18	.16	.23	3.6	.22	24	4.8	1.3	.77
29	.27	.33	.28	.17	.15	.23	5.9	.20	21	4.4	1.2	.72
30	.22	.28	.27	.16	---	.22	11	.22	24	4.0	1.1	.66
31	.27	---	.25	.16	---	.22	---	.24	---	3.7	1.0	---
TOTAL	16.07	14.34	11.03	6.94	5.94	6.57	47.69	848	743	352.7	59.1	24.68
MEAN	.52	.48	.36	.22	.20	.21	1.59	27.4	24.8	11.4	1.91	.82
MAX	.86	.68	.46	.31	.38	.30	11	84	58	32	4.8	1.1
MIN	.22	.27	.25	.16	.13	.14	.20	11	17	3.7	1.0	.52
AC-FT	32	28	22	14	12	13	95	1680	1470	700	117	49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
MEAN	.52	.47	.26	.18	.17	.17	.93	22.8	28.5	7.59	1.49	.85
MAX	.52	.48	.36	.22	.20	.21	1.59	27.4	32.2	11.4	1.91	.89
(WY)	1991	1992	1992	1992	1992	1992	1992	1992	1991	1992	1992	1991
MIN	.52	.47	.17	.13	.13	.12	.27	18.2	24.8	3.80	1.08	.82
(WY)	1992	1991	1991	1991	1991	1991	1991	1991	1992	1991	1991	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1991 - 1992
ANNUAL TOTAL	1770.46	2136.06	---
ANNUAL MEAN	4.85	5.84	5.34
HIGHEST ANNUAL MEAN	---	---	5.84
LOWEST ANNUAL MEAN	---	---	4.83
HIGHEST DAILY MEAN	77 Jun 7	84 May 21	84 May 21 1992
LOWEST DAILY MEAN	.09 Apr 1	.13 Feb 2	.08 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.10 Mar 29	.15 Feb 27	.10 Mar 29 1991
INSTANTANEOUS PEAK FLOW	---	104 May 21	104 May 21 1992
INSTANTANEOUS PEAK STAGE	---	4.03 May 21	5.05a May 14 1991
ANNUAL RUNOFF (AC-FT)	3510	4240	3870
10 PERCENT EXCEEDS	17	22	21
50 PERCENT EXCEEDS	.44	.59	.52
90 PERCENT EXCEEDS	.12	.20	.13

a Backwater from ice/snow.

YELLOWSTONE RIVER BASIN
06301485 LOST LAKE CREEK NEAR BIG HORN, WY

LOCATION.--Lat 44°36'13", long 107°19'25", unsurveyed, Sheridan County, Hydrologic Unit 10090101, Bighorn National Forest, 200 ft downstream from Lost Lake, 0.5 mi upstream from Twin Lakes, and 17.4 mi southwest of Big Horn.

DRAINAGE AREA.--2.14 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,770 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 23-25, Oct. 27 to Nov. 4, Nov. 6, 7, 14-19, Nov. 28 to Dec. 7, and Dec. 20 to May 3. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.15	.15	.04	.02	.05	.05	10	10	18	2.8	.99
2	.75	.13	.14	.04	.02	.05	.05	8.7	9.8	16	2.8	.94
3	.72	.17	.15	.04	.02	.05	.06	7.7	13	13	3.4	.85
4	.67	.20	.16	.04	.03	.05	.08	8.6	11	12	2.8	.79
5	.67	.24	.18	.03	.03	.06	.11	13	10	11	2.4	.87
6	.67	.22	.20	.03	.03	.06	.13	16	10	9.3	2.2	1.1
7	.67	.26	.21	.03	.02	.06	.14	21	12	8.3	2.0	1.2
8	.66	.28	.22	.03	.02	.06	.15	21	11	7.6	1.9	1.2
9	.62	.30	.22	.03	.02	.06	.16	20	11	6.8	1.8	1.1
10	.58	.30	.21	.02	.02	.05	.17	12	12	6.1	1.8	1.0
11	.54	.28	.19	.02	.02	.05	.18	9.1	12	6.0	1.6	.89
12	.50	.26	.18	.02	.02	.05	.18	8.4	14	9.5	1.5	.81
13	.50	.26	.19	.02	.02	.05	.20	8.0	13	12	1.5	.77
14	.49	.32	.21	.01	.02	.05	.25	8.1	12	8.1	1.4	.70
15	.45	.30	.21	.01	.02	.05	.33	9.6	14	6.8	1.3	.66
16	.43	.27	.19	.01	.03	.06	.47	12	12	5.8	1.6	.61
17	.36	.23	.18	.01	.03	.06	.59	8.4	13	5.1	2.0	.58
18	.36	.25	.19	.01	.03	.06	.63	9.6	17	4.7	1.7	.57
19	.39	.26	.17	.01	.04	.06	.63	17	15	6.0	1.4	.54
20	.39	.26	.16	.01	.03	.06	.64	23	14	6.3	1.4	.54
21	.41	.26	.14	.01	.03	.06	.68	43	13	5.5	1.8	.54
22	.41	.27	.13	.01	.03	.06	.67	21	24	5.6	1.7	.53
23	.36	.27	.11	.01	.03	.06	.73	16	27	5.3	1.6	.50
24	.33	.27	.10	.01	.03	.06	.79	18	20	5.0	1.5	.60
25	.36	.25	.09	.01	.03	.05	.80	15	23	4.6	1.5	.86
26	.37	.25	.08	.01	.03	.05	.85	14	18	4.3	1.4	.84
27	.33	.25	.07	.01	.04	.05	1.0	13	15	3.8	1.3	.76
28	.26	.23	.06	.01	.04	.05	1.5	11	14	3.6	1.2	.73
29	.18	.20	.06	.01	.04	.05	2.8	11	13	3.3	1.1	.72
30	.15	.17	.05	.01	---	.05	5.9	13	17	3.1	1.1	.67
31	.17	---	.05	.02	---	.05	---	12	---	2.9	1.0	---
TOTAL	14.55	7.36	4.65	0.58	0.79	1.69	20.92	438.2	429.8	225.4	54.5	23.46
MEAN	.47	.25	.15	.019	.027	.055	.70	14.1	14.3	7.27	1.76	.78
MAX	.80	.32	.22	.04	.04	.06	5.9	43	27	18	3.4	1.2
MIN	.15	.13	.05	.01	.02	.05	.05	7.7	9.8	2.9	1.0	.50
AC-FT	29	15	9.2	1.2	1.6	3.4	41	869	853	447	108	47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
MEAN	.47	.30	.13	.030	.038	.055	.43	12.3	17.6	5.36	1.26	.81
MAX	.47	.34	.15	.042	.049	.056	.70	14.1	20.8	7.27	1.76	.83
(WY)	1992	1991	1992	1991	1991	1991	1992	1992	1991	1992	1992	1991
MIN	.46	.25	.11	.019	.027	.055	.16	10.5	14.3	3.45	.76	.78
(WY)	1991	1992	1991	1992	1992	1992	1991	1991	1992	1991	1991	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1991 - 1992
ANNUAL TOTAL	1141.61	1221.90	--
ANNUAL MEAN	3.13	3.34	3.24
HIGHEST ANNUAL MEAN	--	--	3.34 1992
LOWEST ANNUAL MEAN	--	--	3.13 1991
HIGHEST DAILY MEAN	46 Jun 7	43 May 21	46 Jun 7 1991
LOWEST DAILY MEAN	.03 Jan 24	.01 Jan 14-30	.01 Jan 14-30 1992
ANNUAL SEVEN-DAY MINIMUM	.04 Jan 23	.01 Jan 14-30	.01 Jan 14-30 1992
INSTANTANEOUS PEAK FLOW	--	60 May 21	60 May 21 1992
INSTANTANEOUS PEAK STAGE	--	3.26 May 21	3.26 May 21 1992
ANNUAL RUNOFF (AC-FT)	2260	2420	2340
10 PERCENT EXCEEDS	11	12	12
50 PERCENT EXCEEDS	.27	.44	.36
90 PERCENT EXCEEDS	.05	.03	.04

YELLOWSTONE RIVER BASIN
06301490 SNAIL CREEK NEAR BIG HORN, WY

195

LOCATION.--Lat 44°36'32", long 107°18'57", unsurveyed, Sheridan County, Hydrologic Unit 10090101, Bighorn National Forest, 0.2 mi upstream from Twin Lakes and 16.5 mi southwest of Big Horn.

DRAINAGE AREA.--1.36 mi².

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

GAGE.--Water-stage recorder and rock control. Elevation of gage is 8,620 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 17, 18, 23, 24, Oct. 27 to Nov. 7, Nov. 27 to Dec. 5, Mar. 23-26, Apr. 13-20, and Apr. 27 to May 1. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.12	.07	.05	.05	.06	.02	3.0	6.1	8.1	2.0	.78
2	.22	.11	.08	.05	.05	.06	.02	1.6	5.5	7.7	2.4	.68
3	.20	.12	.08	.06	.04	.05	.03	1.9	5.7	6.4	3.5	.59
4	.23	.14	.09	.06	.04	.05	.04	3.0	5.3	6.5	1.9	.70
5	.24	.16	.09	.06	.04	.05	.05	3.9	6.3	5.9	1.6	.77
6	.27	.15	.10	.06	.03	.05	.04	4.7	6.9	5.1	1.4	1.0
7	.26	.16	.10	.06	.04	.05	.03	4.8	6.9	4.9	1.3	.86
8	.22	.17	.10	.05	.04	.04	.03	4.9	5.4	4.6	1.3	.67
9	.20	.16	.10	.05	.05	.04	.03	4.8	5.6	4.4	1.2	.64
10	.19	.16	.10	.06	.06	.04	.03	4.5	5.5	4.2	1.2	.57
11	.18	.16	.09	.06	.06	.03	.03	4.2	5.3	4.9	1.1	.54
12	.18	.15	.08	.06	.07	.03	.03	4.0	6.1	7.5	1.1	.52
13	.18	.16	.07	.06	.07	.03	.06	3.9	5.4	5.6	1.1	.56
14	.18	.18	.07	.07	.07	.03	.10	4.4	5.1	4.0	1.0	.48
15	.18	.18	.07	.07	.07	.03	.17	4.6	9.2	3.6	.99	.47
16	.20	.16	.07	.07	.06	.03	.19	5.6	6.9	3.4	1.7	.46
17	.22	.16	.07	.08	.07	.03	.24	4.7	8.0	3.4	1.2	.41
18	.17	.16	.07	.07	.06	.03	.30	5.2	6.3	3.1	1.0	.46
19	.19	.15	.06	.07	.07	.03	.25	6.2	5.9	5.4	.96	.46
20	.19	.15	.06	.07	.08	.03	.20	8.1	5.6	4.0	1.1	.42
21	.19	.14	.06	.07	.08	.02	.16	19	5.6	4.0	1.5	.50
22	.18	.14	.06	.07	.08	.02	.15	10	11	3.3	1.0	.43
23	.15	.14	.06	.06	.07	.02	.13	9.2	7.7	2.9	1.1	.38
24	.14	.13	.05	.06	.07	.02	.10	9.7	7.0	2.7	1.0	.64
25	.16	.13	.05	.06	.07	.02	.10	8.1	7.1	2.6	1.0	.95
26	.16	.13	.04	.06	.07	.02	.18	7.3	7.6	2.3	.92	.72
27	.15	.12	.04	.06	.07	.03	.32	7.2	6.3	2.2	.82	.64
28	.14	.10	.03	.06	.07	.03	.59	7.1	7.2	2.2	.75	.56
29	.13	.09	.03	.05	.07	.02	1.3	6.2	6.2	2.0	.68	.49
30	.12	.08	.04	.05	---	.02	2.4	7.5	9.9	2.0	.67	.45
31	.13	---	.05	.05	---	.02	---	7.5	---	2.0	.68	---
TOTAL	5.78	4.26	2.13	1.89	1.77	1.03	7.32	186.8	198.6	130.9	39.17	17.80
MEAN	.19	.14	.069	.061	.061	.033	.24	6.03	6.62	4.22	1.26	.59
MAX	.27	.18	.10	.08	.08	.06	2.4	19	11	8.1	3.5	1.0
MIN	.12	.08	.03	.05	.03	.02	.02	1.6	5.1	2.0	.67	.38
AC-FT	11	8.4	4.2	3.7	3.5	2.0	15	371	394	260	78	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1991	1992	1992	1992	1992	1992	1991	1991	1992	1991	1991
MEAN	.24	.15	.066	.046	.045	.025	.16	5.27	9.01	2.85	.90	.51
MAX	.30	.15	.069	.061	.061	.033	.24	6.03	11.4	4.22	1.26	.59
(WY)	1991	1991	1992	1992	1992	1992	1992	1991	1991	1992	1992	1992
MIN	.19	.14	.064	.030	.028	.017	.068	4.52	6.62	1.47	.53	.43
(WY)	1992	1992	1991	1991	1991	1991	1991	1991	1992	1991	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1991 - 1992
ANNUAL TOTAL	573.46	597.45	--
ANNUAL MEAN	1.57	1.63	1.61
HIGHEST ANNUAL MEAN	--	--	1.63
LOWEST ANNUAL MEAN	--	--	1.58
HIGHEST DAILY MEAN	25 Jun 7	19 May 21	25 Jun 7 1991
LOWEST DAILY MEAN	.01 Mar 16	.02 Mar 21-26, Mar 29 to Apr 2	.01 Mar 16, 22, 25-31, 1991
ANNUAL SEVEN-DAY MINIMUM	.01 Mar 25	.02 Mar 20	.01 Mar 25 1991
INSTANTANEOUS PEAK FLOW	--	30 May 21	33a Jun 4 1991
INSTANTANEOUS PEAK STAGE	--	3.13 May 21	3.46b May 12 1991
ANNUAL RUNOFF (AC-FT)	1140	1190	1160
10 PERCENT EXCEEDS	5.3	6.0	5.7
50 PERCENT EXCEEDS	.16	.18	.18
90 PERCENT EXCEEDS	.02	.04	.03

a Gage height, 3.17 ft.

b Backwater from ice.

YELLOWSTONE RIVER BASIN
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.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 8,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 9, 10, Oct. 27 to Nov. 5, Nov. 14-17, 20, Nov. 22 to May 7, and July 2-21. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.42	.32	.21	.32	.45	.51	8.7	44	72	16	7.4
2	.60	.43	.34	.21	.31	.48	.54	6.8	37	65	15	7.4
3	.56	.45	.36	.22	.31	.47	.70	7.5	41	50	15	7.3
4	.62	.46	.38	.23	.30	.46	.85	21	44	43	15	7.3
5	.63	.47	.40	.23	.29	.45	.93	28	44	38	15	7.4
6	.63	.49	.42	.23	.28	.42	.83	39	44	32	14	7.5
7	.63	.49	.43	.23	.28	.40	.72	50	49	29	14	7.5
8	.59	.49	.44	.22	.27	.39	.64	58	46	26	13	7.2
9	.54	.49	.43	.23	.27	.38	.59	67	44	23	12	6.9
10	.50	.49	.42	.25	.27	.37	.52	51	45	21	11	6.6
11	.49	.49	.40	.27	.27	.40	.45	42	43	22	11	6.7
12	.49	.45	.38	.26	.29	.45	.44	37	50	28	9.2	6.9
13	.49	.42	.36	.25	.30	.50	.54	34	50	41	6.2	7.0
14	.49	.47	.35	.23	.31	.56	.89	36	44	31	7.3	6.8
15	.49	.44	.35	.22	.32	.62	1.7	40	55	24	9.9	6.8
16	.45	.42	.36	.25	.34	.67	2.0	52	54	20	9.6	6.8
17	.39	.40	.34	.26	.33	.63	2.2	43	51	18	9.2	6.8
18	.43	.42	.33	.27	.32	.58	2.4	39	56	17	8.6	6.8
19	.42	.42	.31	.27	.35	.56	1.9	56	51	21	8.2	6.6
20	.42	.44	.29	.29	.37	.53	1.4	70	46	22	8.2	6.6
21	.42	.42	.27	.30	.36	.51	.94	151	42	22	8.8	6.6
22	.42	.40	.27	.29	.35	.49	.71	93	72	21	8.3	6.6
23	.51	.39	.26	.29	.33	.55	.64	63	124	19	8.1	6.4
24	.56	.38	.26	.28	.33	.54	.59	63	71	18	8.0	6.6
25	.53	.37	.25	.28	.34	.51	.56	56	93	17	7.9	7.0
26	.49	.37	.24	.28	.36	.53	.63	50	76	17	7.8	6.8
27	.46	.35	.23	.28	.38	.56	1.0	48	62	17	7.6	6.7
28	.44	.34	.23	.29	.41	.59	2.5	47	57	17	7.5	6.6
29	.42	.33	.21	.30	.43	.58	3.8	43	50	17	7.4	6.2
30	.41	.31	.20	.31	---	.59	7.4	47	58	16	7.4	3.4
31	.41	---	.20	.33	---	.55	---	52	---	16	7.4	---
TOTAL	15.63	12.71	10.03	8.06	9.39	15.77	39.52	1499.0	1643	840	313.6	203.2
MEAN	.50	.42	.32	.26	.32	.51	1.32	48.4	54.8	27.1	10.1	6.77
MAX	.70	.49	.44	.33	.43	.67	7.4	151	124	72	16	7.5
MIN	.39	.31	.20	.21	.27	.37	.44	6.8	37	16	6.2	3.4
AC-FT	31	25	20	16	19	31	78	2970	3260	1670	622	403

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1991	2.50	4.50	1991	.50	1992
1992	.41	.42	1992	.40	1991
1993	.26	.32	1993	.19	1992
1994	.22	.26	1994	.18	1993
1995	.26	.32	1995	.20	1994
1996	.35	.51	1996	.19	1995
1997	.84	1.32	1997	.36	1996
1998	40.8	48.4	1998	33.2	1997
1999	63.8	72.8	1999	54.8	1998
2000	18.3	27.1	2000	9.53	1999
2001	8.92	10.1	2001	7.73	2000
2002	5.99	6.77	2002	5.21	2001

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1991 - 1992
ANNUAL TOTAL	3970.79	4609.91	--
ANNUAL MEAN	10.9	12.6	11.9
HIGHEST ANNUAL MEAN	--	--	12.6
LOWEST ANNUAL MEAN	--	--	11.2
HIGHEST DAILY MEAN	158	151	158
LOWEST DAILY MEAN	.14 Jan 1	.20 May 21	.10 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.15 Jan 1	.21 Dec 28	.12 Dec 20 1990
INSTANTANEOUS PEAK FLOW	--	191	191
INSTANTANEOUS PEAK STAGE	--	3.07 May 21	3.07 May 21 1992
ANNUAL RUNOFF (AC-FT)	7880	9140	8620
10 PERCENT EXCEEDS	33	47	45
50 PERCENT EXCEEDS	.45	.60	.58
90 PERCENT EXCEEDS	.18	.28	.19

YELLOWSTONE RIVER BASIN
06301500 WEST FORK BIG GOOSE CREEK NEAR BIG HORN, WY

197

LOCATION.--Lat 44°36'47", long 107°17'49", in NE¼ SE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 1-4. Records good except those for estimated daily discharges, which are poor. Some regulation by Twin Lakes, capacity, 1,200 acre-ft, and Dome Lake, capacity, 1,800 acre-ft. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	31	119	208	41	23
2	---	---	---	---	---	---	---	27	111	196	40	22
3	---	---	---	---	---	---	---	28	132	166	38	22
4	---	---	---	---	---	---	---	28	140	143	36	22
5	---	---	---	---	---	---	---	29	137	124	35	22
6	---	---	---	---	---	---	---	32	127	110	33	22
7	---	---	---	---	---	---	---	76	132	102	32	22
8	---	---	---	---	---	---	---	167	127	93	30	21
9	---	---	---	---	---	---	---	203	129	82	28	21
10	---	---	---	---	---	---	---	149	143	78	26	21
11	---	---	---	---	---	---	---	110	146	80	25	21
12	---	---	---	---	---	---	---	90	171	102	23	21
13	---	---	---	---	---	---	---	82	171	122	20	20
14	---	---	---	---	---	---	---	82	159	101	20	17
15	---	---	---	---	---	---	---	93	171	82	23	13
16	---	---	---	---	---	---	---	119	162	73	31	17
17	---	---	---	---	---	---	---	103	146	67	33	18
18	---	---	---	---	---	---	---	99	139	61	31	18
19	---	---	---	---	---	---	---	157	135	70	30	18
20	---	---	---	---	---	---	---	221	137	74	30	18
21	---	---	---	---	---	---	---	410	132	72	31	18
22	---	---	---	---	---	---	---	289	201	70	30	18
23	---	---	---	---	---	---	---	191	358	62	30	18
24	---	---	---	---	---	---	---	194	248	58	31	25
25	---	---	---	---	---	---	---	174	382	55	31	19
26	---	---	---	---	---	---	---	159	284	51	31	16
27	---	---	---	---	---	---	---	155	214	49	30	10
28	---	---	---	---	---	---	---	143	184	46	29	10
29	---	---	---	---	---	---	---	128	167	44	28	10
30	---	---	---	---	---	---	---	129	181	42	28	7.2
31	---	---	---	---	---	---	---	137	---	40	26	---
TOTAL	---	---	---	---	---	---	---	4035	5185	2723	930	550.2
MEAN	---	---	---	---	---	---	---	130	173	87.8	30.0	18.3
MAX	---	---	---	---	---	---	---	410	382	208	41	25
MIN	---	---	---	---	---	---	---	27	111	40	20	7.2
AC-FT	---	---	---	---	---	---	---	8000	10280	5400	1840	1090

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

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	8.56	6.16	4.82	3.79	3.09	2.98	5.05	65.3	198	60.9	29.7	24.1						
MAX	18.0	10.3	9.61	6.55	5.96	5.40	15.5	139	305	111	57.3	48.9						
(WY)	1963	1969	1969	1965	1963	1963	1962	1956	1965	1965	1968	1968						
MIN	2.67	1.22	1.03	1.05	1.06	1.46	1.71	13.9	101	35.1	19.4	6.32						
(WY)	1964	1964	1964	1964	1964	1964	1957	1957	1966	1966	1969	1956						

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1954 - 1971
ANNUAL MEAN	---	34.3
HIGHEST ANNUAL MEAN	---	45.7
LOWEST ANNUAL MEAN	---	21.7
HIGHEST DAILY MEAN	410 May 21	612 Jun 16 1963
LOWEST DAILY MEAN	7.2 Sep 30	.80 Dec 14, 16 1963, Jan 15, 16, Feb 26 1964#
ANNUAL SEVEN-DAY MINIMUM	---	.89 Dec 20 1963
INSTANTANEOUS PEAK FLOW	470 May 21	1030a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.17 May 21	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 1992.

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

YELLOWSTONE RIVER BASIN
06302000 BIG GOOSE CREEK NEAR SHERIDAN, WY

LOCATION.--Lat 44°42'08", long 107°10'51", in NW¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 12-16. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 20 acres and to Sheridan Filtration plant, and return flow from irrigated areas. PK ditch diverts water 0.6 mi upstream from station for irrigation of lands downstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	18	83	176	530	52	28
2	---	---	---	---	---	---	20	67	165	610	49	26
3	---	---	---	---	---	---	22	71	183	481	49	24
4	---	---	---	---	---	---	25	71	194	397	46	26
5	---	---	---	---	---	---	27	70	201	351	42	34
6	---	---	---	---	---	---	23	65	209	277	35	42
7	---	---	---	---	---	---	21	83	211	257	28	43
8	---	---	---	---	---	---	20	183	199	243	25	37
9	---	---	---	---	---	---	21	234	189	232	23	34
10	---	---	---	---	---	---	24	199	199	209	24	28
11	---	---	---	---	---	---	24	152	197	197	34	30
12	---	---	---	---	---	---	22	123	240	234	29	31
13	---	---	---	---	---	---	30	107	289	265	26	36
14	---	---	---	---	---	---	36	102	309	227	23	33
15	---	---	---	---	---	---	45	105	479	199	25	25
16	---	---	---	---	---	---	56	138	418	178	43	28
17	---	---	---	---	---	---	53	127	348	161	48	30
18	---	---	---	---	---	---	54	102	316	140	42	30
19	---	---	---	---	---	---	43	148	305	161	38	30
20	---	---	---	---	---	---	37	211	298	167	39	28
21	---	---	---	---	---	---	30	439	302	163	54	22
22	---	---	---	---	---	---	43	340	446	155	44	29
23	---	---	---	---	---	---	38	211	742	135	42	26
24	---	---	---	---	---	---	34	209	520	123	41	31
25	---	---	---	---	---	---	35	197	775	113	39	36
26	---	---	---	---	---	---	40	178	742	103	37	36
27	---	---	---	---	---	---	49	172	630	89	35	31
28	---	---	---	---	---	---	62	165	505	74	33	30
29	---	---	---	---	---	---	66	142	418	67	34	30
30	---	---	---	---	---	---	79	157	463	62	32	28
31	---	---	---	---	---	---	---	189	---	58	32	---
TOTAL	---	---	---	---	---	---	1097	4840	10668	6658	1143	922
MEAN	---	---	---	---	---	---	36.6	156	356	215	36.9	30.7
MAX	---	---	---	---	---	---	79	439	775	610	54	43
MIN	---	---	---	---	---	---	18	65	165	58	23	22
AC-FT	---	---	---	---	---	---	2180	9600	21160	13210	2270	1830

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	

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 1992 WATER YEAR*

--
--
--
775 Jun 25
18 Apr 1
--
876 Jun 25
3.78 Jun 25
--
--
--
--

WATER YEARS 1930 - 1971

80.2
137
26.6
2050 Jun 16 1963
1.6 Nov 29 1954#
2.2 Jan 18 1955
3160a Jun 15 1963#
5.83 Jun 15 1963
58100
214
20
8.0

* During period of operation.

For period of record through 1992.

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

YELLOWSTONE RIVER BASIN

199

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 05...	1100	26	2.0	K6	2	0.14
MAR 03...	1000	18	3.0	K2	2	0.10
JUN 13...	1320	300	13.5	K11	7	5.7
JUL 23...	0830	138	12.5	K140	3	1.1

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 SE¼ SW¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Three small reservoirs upstream from station, combined capacity, 860 acre-ft, two of which store some imported water. Water imported into drainage basin upstream from station from East Goose Creek basin is diverted downstream from station for irrigation.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	13	89	132	216	64	104
2	---	---	---	---	---	---	14	77	134	231	64	101
3	---	---	---	---	---	---	17	75	137	208	70	98
4	---	---	---	---	---	---	21	76	129	199	72	99
5	---	---	---	---	---	---	24	78	141	194	70	99
6	---	---	---	---	---	---	21	84	150	184	70	103
7	---	---	---	---	---	---	19	93	162	177	70	102
8	---	---	---	---	---	---	19	101	147	172	70	99
9	---	---	---	---	---	---	19	115	146	162	69	96
10	---	---	---	---	---	---	22	93	142	145	69	95
11	---	---	---	---	---	---	22	90	146	142	71	93
12	---	---	---	---	---	---	21	102	146	158	74	91
13	---	---	---	---	---	---	26	98	136	151	82	91
14	---	---	---	---	---	---	29	102	141	133	87	90
15	---	---	---	---	---	---	35	103	236	129	97	90
16	---	---	---	---	---	---	43	112	244	106	104	88
17	---	---	---	---	---	---	47	84	231	93	103	87
18	---	---	---	---	---	---	48	85	225	88	108	86
19	---	---	---	---	---	---	45	119	220	101	107	78
20	---	---	---	---	---	---	45	125	218	108	110	74
21	---	---	---	---	---	---	45	195	216	112	119	76
22	---	---	---	---	---	---	48	132	282	107	112	73
23	---	---	---	---	---	---	47	121	276	101	111	70
24	---	---	---	---	---	---	45	121	236	98	112	71
25	---	---	---	---	---	---	45	117	238	93	114	66
26	---	---	---	---	---	---	47	110	233	88	113	64
27	---	---	---	---	---	---	51	107	231	81	110	63
28	---	---	---	---	---	---	59	108	218	77	108	63
29	---	---	---	---	---	---	67	102	211	74	107	60
30	---	---	---	---	---	---	80	121	211	72	105	58
31	---	---	---	---	---	---	---	138	---	68	104	---
TOTAL	---	---	---	---	---	---	1084	3273	5715	4068	2846	2528
MEAN	---	---	---	---	---	---	36.1	106	190	131	91.8	84.3
MAX	---	---	---	---	---	---	80	195	282	231	119	104
MIN	---	---	---	---	---	---	13	75	129	68	64	58
AC-FT	---	---	---	---	---	---	2150	6490	11340	8070	5650	5010

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

	MEAN	23.5	13.1	10.4	8.58	8.11	8.48	32.9	183	241	102	79.2	47.4
MAX	46.0	26.5	17.5	12.3	13.9	14.1	106	339	426	140	124	84.4	
(WY)	1959	1962	1942	1942	1962	1962	1943	1944	1970	1967	1968	1958	
MIN	12.7	8.51	6.49	4.99	5.37	5.76	9.46	80.4	106	79.0	44.2	20.4	
(WY)	1954	1955	1950	1950	1950	1950	1970	1950	1966	1958	1960	1960	

SUMMARY STATISTICS
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 1992 WATER YEAR*

---	63.4	
---	83.9	1970
---	40.6	1960
282	Jun 22	837
13	Apr 1	3.0
---	---	4.5
485	Jun 22	1350a
4.31	Jun 22	6.78
---	---	45900
---	---	172
---	---	21
---	---	7.5

* During period of operation.

For period of record through 1992.

a From rating curve extended above 900 ft³/s.

YELLOWSTONE RIVER BASIN

201

06304500 LITTLE GOOSE CREEK AT SHERIDAN, WY

LOCATION.--Lat 44°48'10", long 106°57'10", in NE¼ NW¼ SW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV						
05...	1600	53	1.0	120	109	16
MAR						
03...	1300	28	8.5	K7	30	2.3
JUN						
13...	0930	76	17.0	310	49	10
JUL						
23...	1035	86	18.0	160	1	0.23

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY										
12...	1150	10	16.5	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	--
JUN										
13...	0930	76	17.0	0.03	0.08	<0.01	<0.01	<0.01	<0.01	--
JUL										
23...	1035	86	18.0	0.13	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
AUG										
27...	1710	67	17.5	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN

06305500 GOOSE CREEK BELOW SHERIDAN, WY

LOCATION.--Lat 44°49'25", long 106°57'40", in SE¼ SW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
NOV 05...	1410	121	550	8.2	1.0	660	11.1	90	520	0.66
MAR 03...	1515	62	605	8.0	10.0	650	10.6	110	50	--
JUN 13...	0750	395	214	8.2	14.5	660	8.5	97	820	0.07
JUL 23...	1230	279	335	8.9	19.0	665	10.1	125	250	0.19

DATE	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 05...	0.02	0.68	0.02	0.58	0.6	0.21	0.11	63	21
MAR 03...	<0.01	0.68	<0.01	--	0.3	0.16	0.15	12	2.0
JUN 13...	0.02	0.09	0.03	0.37	0.4	0.07	0.05	77	82
JUL 23...	0.01	0.20	0.02	0.18	0.2	0.08	0.07	14	11

YELLOWSTONE RIVER BASIN
06305700 GOOSE CREEK NEAR ACME, WY

203

LOCATION.--Lat 44°53'11", long 106°59'18", in SE¼ SE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 9, Nov. 30 to Dec. 10, Dec. 12, and Dec. 15 to Feb. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	71	80	72	101	66	64	104	296	831	133	124
2	57	63	86	75	99	63	64	109	261	1060	118	113
3	55	76	91	79	95	63	65	88	251	902	118	103
4	63	80	97	81	88	63	68	88	272	737	120	104
5	72	86	100	80	87	75	74	79	288	679	102	117
6	68	81	104	81	86	81	72	72	354	591	88	125
7	68	87	107	76	79	74	62	56	366	540	78	154
8	66	97	105	70	79	86	61	93	357	493	62	155
9	63	108	102	73	83	79	66	193	333	474	56	150
10	66	110	97	79	81	70	63	244	327	448	51	141
11	64	101	91	85	73	70	78	176	314	424	45	138
12	62	99	104	83	69	72	74	138	324	480	41	140
13	60	105	98	79	80	69	76	122	415	604	41	148
14	68	162	90	74	88	68	85	110	428	494	44	154
15	66	133	93	60	85	67	92	107	914	437	44	152
16	69	105	97	62	80	68	105	130	1240	389	58	136
17	69	105	93	72	77	68	110	169	818	344	76	136
18	77	107	89	72	75	81	126	119	697	303	85	140
19	87	102	94	76	71	80	124	111	641	296	93	147
20	81	96	90	81	67	76	112	180	623	339	77	130
21	80	113	86	81	68	71	105	355	598	339	96	120
22	82	108	87	77	67	68	105	567	618	340	117	109
23	89	95	88	75	68	66	114	339	1070	306	124	100
24	90	98	88	77	63	71	107	288	896	286	130	93
25	89	110	86	81	68	70	100	296	941	266	142	94
26	90	102	83	82	69	67	98	259	1120	247	149	107
27	88	105	81	80	71	65	99	235	975	221	146	112
28	81	102	79	80	70	66	102	232	863	196	129	103
29	84	92	79	84	68	66	103	204	733	184	108	105
30	84	76	76	89	---	65	102	193	758	166	110	98
31	74	---	73	95	---	65	---	288	---	144	113	---
TOTAL	2271	2975	2814	2411	2255	2179	2676	5744	18091	13560	2894	3748
MEAN	73.3	99.2	90.8	77.8	77.8	70.3	89.2	185	603	437	93.4	125
MAX	90	162	107	95	101	86	126	567	1240	1060	149	155
MIN	55	63	73	60	63	63	61	56	251	144	41	93
AC-FT	4500	5900	5580	4780	4470	4320	5310	11390	35880	26900	5740	7430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	98.1	93.4	76.9	66.7	81.4	90.3	134	365	525
MAX	156	111	92.6	109	131	101	187	891	1245
(WY)	1985	1986	1990	1990	1986	1986	1990	1984	1984
MIN	49.9	59.4	54.2	48.4	36.7	70.3	72.0	98.4	136
(WY)	1989	1989	1986	1989	1989	1992	1989	1989	1985

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1984 - 1992
ANNUAL TOTAL	65159	61618	---
ANNUAL MEAN	179	168	135
HIGHEST ANNUAL MEAN	---	---	185
LOWEST ANNUAL MEAN	---	---	71.8
HIGHEST DAILY MEAN	1600	May 22	1240 Jun 16
LOWEST DAILY MEAN	16	Jul 23	41 Aug 12,13
ANNUAL SEVEN-DAY MINIMUM	22	Jul 19	46 Aug 9
INSTANTANEOUS PEAK FLOW	---	---	1470 Jun 16
INSTANTANEOUS PEAK STAGE	---	5.33	Jun 16
ANNUAL RUNOFF (AC-FT)	129200	122200	98020
10 PERCENT EXCEEDS	479	360	297
50 PERCENT EXCEEDS	80	93	88
90 PERCENT EXCEEDS	28	66	41

a Gage height, 6.13 ft.

b From floodmarks, backwater from ice.

YELLOWSTONE RIVER BASIN

06306250 PRAIRIE DOG CREEK NEAR ACME, WY

LOCATION.--Lat 44°59'02", long 106°50'21", in NE¼ SW¼ SW¼ sec.23, T.58 N., R.83 W., Sheridan County, Hydrologic Unit 10090101, on right bank 600 ft upstream from county bridge, 0.9 mi upstream from mouth, 2.8 mi downstream from Coutant Creek, and 7.6 mi northeast of Acme.

DRAINAGE AREA.--358 mi².

PERIOD OF RECORD.--Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 04...	1400	4.2	18.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 28...	1810	11	14.0	<0.01	0.03	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MT

205

LOCATION.--Lat 45°00'32", long 106°50'08", in NW¼ NW¼ NE¼ sec.33, T.9 S., R.40 E., Big Horn County, Hydrologic Unit 10090101, on left bank 1 mi north of Wyoming-Montana State line, 1.4 mi southeast of Decker, 1.6 mi upstream from Badger Creek, and at river mile 200.9.
DRAINAGE AREA.--1,477 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1960 to current year. Records published as "near Decker" May 1928 to September 1938, not equivalent owing to intervening drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,429.14 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Oct. 27 to Feb. 29. Records good except those for estimated daily discharges, which are poor. Flow regulated by many small reservoirs in Wyoming, combined capacity, about 15,000 acre-ft. Diversions for irrigation of about 64,300 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	e120	e120	e180	e240	186	153	561	834	1710	429	280
2	175	e120	e130	e200	e230	180	151	521	726	1880	407	282
3	174	e160	e170	e190	e220	172	152	453	658	1900	393	263
4	179	e210	e210	e190	e210	170	160	469	684	1570	396	249
5	198	e250	e200	e190	e190	181	173	494	678	1440	377	268
6	197	e210	e220	e190	e190	204	188	502	808	1310	334	298
7	195	e240	e220	e170	e180	197	172	535	844	1180	301	322
8	191	e280	e210	e170	e170	202	159	566	862	1100	273	349
9	186	e260	e200	e190	e190	207	148	689	798	1050	242	337
10	181	e240	e200	e200	e180	186	154	860	778	1060	234	323
11	181	e250	e160	e200	e170	171	167	697	757	999	228	314
12	177	e260	e180	e180	e160	173	179	601	735	1030	220	307
13	174	e240	e140	e160	e200	173	171	533	838	1460	211	304
14	174	e210	e130	e150	e210	166	192	501	852	1280	206	310
15	178	e200	e150	e130	e210	163	216	484	1200	1040	198	311
16	178	e190	e170	e120	e210	165	249	498	2700	938	204	297
17	179	e190	e170	e140	e210	169	285	582	1910	856	224	281
18	189	e200	e160	e130	e190	178	302	506	1730	793	248	265
19	200	e200	e180	e150	e200	191	318	443	1460	734	240	271
20	204	e210	e170	e190	e220	182	273	508	1400	829	223	266
21	198	e200	e170	e180	e200	174	266	664	1350	826	215	247
22	202	e180	e180	e170	e210	168	258	1310	1300	897	263	241
23	213	e180	e190	e160	e200	158	274	952	1570	817	281	228
24	218	e190	e190	e190	e190	158	255	755	1700	738	291	220
25	206	e200	e190	e200	e200	168	227	786	1480	688	300	206
26	197	e190	e180	e200	e230	158	226	732	1760	639	309	218
27	e200	e180	e180	e210	e220	156	244	668	1710	604	310	234
28	e190	e170	e180	e210	e210	156	297	647	1530	556	304	228
29	e140	e170	e180	e210	e200	157	380	632	1380	514	273	225
30	e100	e130	e190	e230	---	155	475	580	1390	483	254	223
31	e120	---	e190	e250	---	153	---	691	---	456	265	---
TOTAL	5681	6030	5510	5630	5840	5377	6864	19420	36422	31377	8653	8167
MEAN	183	201	178	182	201	173	229	626	1214	1012	279	272
MAX	218	280	220	250	240	207	475	1310	2700	1900	429	349
MIN	100	120	120	120	160	153	148	443	658	456	198	206
AC-FT	11270	11960	10930	11170	11580	10670	13610	38520	72240	62240	17160	16200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	256	226	181	184	243	313	368	1173	1724	479	176	225																				
MAX	403	324	271	330	672	855	676	3283	3570	1674	475	615																				
(WY)	1969	1974	1976	1974	1971	1972	1977	1978	1978	1975	1968	1968																				
MIN	116	133	102	95.9	84.5	129	124	439	342	87.5	16.5	74.2																				
(WY)	1961	1989	1985	1985	1989	1961	1961	1989	1966	1961	1961	1966																				

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1961 - 1992
ANNUAL TOTAL	163713	144971	--
ANNUAL MEAN	449	396	462
HIGHEST ANNUAL MEAN	--	--	862
LOWEST ANNUAL MEAN	--	--	187
HIGHEST DAILY MEAN	3490	May 22	2700 Jun 16
LOWEST DAILY MEAN	72	Sep 2	100a Oct 30
ANNUAL SEVEN-DAY MINIMUM	78	Aug 30	136 Oct 28
INSTANTANEOUS PEAK FLOW	--	--	3160 Jun 16
INSTANTANEOUS PEAK STAGE	--	--	7.21 Jun 16
INSTANTANEOUS LOW FLOW	--	--	--
ANNUAL RUNOFF (AC-FT)	324700	287500	334700
10 PERCENT EXCEEDS	1270	861	1100
50 PERCENT EXCEEDS	200	214	240
90 PERCENT EXCEEDS	112	160	120

a Backwater from ice.
e Estimated.

YELLOWSTONE RIVER BASIN
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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1966-76, 1981-87): Maximum daily, 1,490 microsiemens, Aug. 12, 1966, Jan. 11, 1972; minimum daily, 192 microsiemens, 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	PH WATER WHOLE LAB (STAND- ARD UNITS)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
NOV 06...	1000	216	--	--	640	-0.5	1.0	--	--	--	--
DEC 18...	1640	176	--	--	718	-1.0	0.5	--	--	--	--
FEB 05...	1625	187	--	--	635	8.0	0.0	--	--	--	--
MAR 26...	1010	167	--	--	702	10.5	6.5	--	--	--	--
MAY 07...	1015	480	0	0	252	19.0	15.5	8.1	120	28	11
11...	1630	671	100	2	245	9.5	14.0	8.1	120	28	11
12...	0930	598	70	1	251	9.0	11.0	8.1	110	27	11
22...	1430	1430	100	2	232	18.5	13.0	8.1	100	25	10
JUN 25...	1540	1370	--	--	247	27.0	20.5	--	--	--	--
AUG 20...	0900	230	50	1	594	19.5	20.5	8.3	290	58	34
SEP 29...	1520	224	--	--	575	30.5	16.0	--	--	--	--

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
MAY											
07...	6.7	0.3	1.2	105	32	0.5	<0.1	8.1	150	0.20	195
11...	7.0	0.3	1.1	97	34	0.5	0.2	8.0	148	0.20	269
12...	6.9	0.3	1.2	97	31	6.2	<0.1	8.1	150	0.20	241
22...	6.9	0.3	1.5	96	33	0.2	<0.1	7.7	142	0.19	549
AUG											
20...	23	0.6	3.2	214	120	5.1	0.2	6.8	379	0.52	235

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
MAY 11...	1630	20	<1	26	<0.5	30	<1.0	<1	<3	<1
22...	1430	30	<1	29	<0.5	20	<1.0	2	<3	2
AUG 20...	0900	<10	<1	55	<0.5	70	<1.0	2	<3	1

DATE	TIME	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 11...	35	<1	5	9	0.2	<1	<1.0	120	<3	
22...	62	<1	5	7	0.2	<1	<1.0	120	6	
AUG 20...	4	<1	15	6	0.4	<1	<1.0	420	<3	

YELLOWSTONE RIVER BASIN
06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WY

207

LOCATION.--Lat 43°34'40", long 107°08'16", in SE¼ SW¼ NE¼ sec.26, T.42 N., R.86 W., Washakie County, Hydrologic Unit 10090201, on left bank 1,100 ft downstream from Rock Creek and 13 mi southwest of Barnum.

DRAINAGE AREA.--45.2 mi².

PERIOD OF RECORD.--September 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1970, at site 1,000 ft upstream at different datum. Oct. 1, 1970 to Aug. 17, 1987, at site 100 ft upstream at datum 6.78 ft higher (gage operated concurrently with present site Sept. 15, 1983 to Aug. 17, 1987).

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 1, Nov. 15-20, 22-25, Nov. 30 to Dec. 2, Dec. 12-17, Dec. 27 to Jan. 25, Feb. 5-16, 29, Mar. 9-12, and June 30 to July 5. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 17	0530	*267	*7.28	July 21	0400	223	7.09

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.2	5.8	5.5	4.7	6.1	9.5	135	32	46	16	9.1
2	6.0	5.5	6.4	5.6	4.8	6.8	11	101	27	60	15	9.2
3	6.0	5.6	6.5	5.5	4.6	7.3	14	90	31	45	21	8.5
4	6.6	6.0	6.3	5.4	5.1	7.3	17	88	26	40	18	8.2
5	6.6	6.0	6.3	5.4	5.0	6.8	18	85	27	37	15	8.2
6	6.6	6.1	5.9	5.5	4.9	6.6	16	82	26	35	14	8.2
7	6.5	6.0	6.3	5.4	4.8	6.7	14	78	23	35	14	8.2
8	6.2	6.1	6.2	5.3	4.8	6.6	14	77	22	32	14	8.1
9	5.8	6.6	6.1	5.4	4.8	6.4	18	97	22	30	13	7.8
10	5.6	6.5	6.1	5.4	4.8	6.0	22	85	20	29	13	7.8
11	5.6	7.0	6.0	5.4	4.5	6.2	23	68	20	28	12	7.8
12	5.6	6.7	6.0	5.3	4.7	6.5	25	61	21	34	12	7.7
13	5.6	6.8	6.0	5.2	4.7	6.9	31	55	20	41	11	7.0
14	5.6	6.6	5.2	5.1	4.7	7.5	41	51	18	27	11	6.6
15	5.6	6.6	5.6	4.8	4.7	7.8	58	49	28	24	11	6.6
16	5.6	6.3	5.6	4.9	4.7	8.1	93	47	46	22	11	6.3
17	5.6	6.4	5.6	4.8	4.7	8.6	89	42	139	21	13	6.3
18	5.6	6.6	5.6	4.9	4.6	8.9	72	38	73	20	11	6.3
19	5.6	6.4	5.6	5.0	4.6	7.7	59	35	64	22	10	6.3
20	5.6	6.1	5.6	5.1	4.8	8.4	55	33	58	27	10	6.3
21	5.6	6.0	5.6	5.0	4.8	7.7	57	38	52	66	10	6.3
22	5.6	5.8	5.6	4.9	4.8	8.3	54	38	47	30	9.9	6.3
23	5.8	5.5	5.6	5.0	4.5	9.5	46	31	42	24	9.9	6.2
24	5.8	6.0	5.4	5.1	5.2	6.9	43	29	54	22	9.9	6.0
25	5.4	7.0	5.3	5.2	4.8	7.3	41	31	48	22	10	7.7
26	5.9	6.6	5.3	5.3	4.7	7.6	47	27	56	22	10	6.5
27	5.4	6.6	5.3	5.3	5.0	8.6	64	25	45	20	9.4	6.2
28	5.0	6.3	5.3	5.3	5.2	9.5	87	27	39	19	9.0	6.0
29	4.7	6.3	5.4	5.3	5.6	9.1	107	23	37	18	8.8	6.0
30	4.4	5.4	5.3	5.3	---	9.8	138	34	37	17	8.8	6.0
31	5.0	---	5.3	5.2	---	11	---	43	---	16	8.7	---
TOTAL	176.4	186.6	178.1	161.8	139.6	238.5	1383.5	1743	1200	931	369.4	213.7
MEAN	5.69	6.22	5.75	5.22	4.81	7.69	46.1	56.2	40.0	30.0	11.9	7.12
MAX	6.6	7.0	6.5	5.6	5.6	11	138	135	139	66	21	9.2
MIN	4.4	5.2	5.2	4.8	4.5	6.0	9.5	23	18	16	8.7	6.0
AC-FT	350	370	353	321	277	473	2740	3460	2380	1850	733	424

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	6.78	6.02	5.45	4.99	5.25	6.36	33.4	157	94.9	18.4	8.48	7.24																			
MAX	15.0	13.2	9.92	7.78	10.1	14.2	106	268	299	39.9	18.3	17.0																			
(WY)	1983	1983	1983	1983	1969	1972	1987	1984	1975	1975	1968	1968																			
MIN	2.45	2.00	2.75	2.48	3.74	4.05	8.00	56.2	18.1	7.26	4.34	4.16																			
(WY)	1963	1963	1962	1962	1989	1965	1970	1992	1985	1974	1966	1969																			

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	10408.1	6921.6	--
ANNUAL MEAN	28.5	18.9	29.7
HIGHEST ANNUAL MEAN	--	--	48.9
LOWEST ANNUAL MEAN	--	--	13.1
HIGHEST DAILY MEAN	766	139	778
LOWEST DAILY MEAN	4.2	4.4	1.0
ANNUAL SEVEN-DAY MINIMUM	4.2	4.7	1.2
INSTANTANEOUS PEAK FLOW	--	267	7110a
INSTANTANEOUS PEAK STAGE	--	7.28	12.60b
ANNUAL RUNOFF (AC-FT)	20640	13730	21500
10 PERCENT EXCEEDS	59	48	76
50 PERCENT EXCEEDS	6.3	7.3	6.9
90 PERCENT EXCEEDS	4.8	5.0	4.5

a On basis of slope-area measurement of peak flow.
b From floodmark, site and datum then in use.

PERIOD OF RECORD.--April 1949 to September 1970, April 1984 to September 1992 (discontinued).

REVISED RECORDS.--WSP 1916: 1955, 1957(P), 1958, 1959(P).

GAGE.--Water-stage recorder. Datum of gage is 4,874.76 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 4, Nov. 7-11, Nov. 23-25, Nov. 29 to Feb. 13, Feb. 18, 19, and Apr. 16. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation upstream from station (for details on adjudication, see Remarks for this station in WSP 1209).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage for undetermined period, about 11.7 ft, date unknown.

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)	Date		Time	Discharge (ft ³ /s)	Gage height (ft)
July 21		0500	*1,130	*6.62	No other peak greater than base discharge.				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	39	40	28	43	43	47	193	74	96	44	31
2	39	40	43	29	41	44	46	158	60	136	40	31
3	40	42	44	31	39	44	48	135	57	99	51	30
4	47	44	45	31	41	46	53	128	52	89	55	29
5	46	46	45	31	43	53	59	123	52	84	49	30
6	45	47	44	31	54	49	58	113	57	78	46	31
7	44	46	42	31	50	46	53	110	51	79	46	33
8	41	46	45	30	58	48	50	107	53	75	40	33
9	40	49	47	31	62	46	51	123	48	67	39	33
10	40	48	45	32	53	43	61	137	44	66	38	32
11	40	50	45	32	43	45	69	113	39	65	35	33
12	44	47	44	31	49	46	68	99	40	70	33	34
13	43	49	43	30	42	46	71	92	41	96	31	34
14	43	50	37	29	40	45	81	86	45	67	26	36
15	42	47	40	27	39	46	96	80	88	59	23	35
16	41	46	42	30	39	46	130	77	95	56	23	31
17	40	47	39	31	39	48	145	70	150	52	26	31
18	42	49	39	30	40	52	143	62	141	51	26	33
19	42	47	38	33	48	52	113	58	134	55	25	34
20	41	45	37	34	40	47	109	63	118	71	24	35
21	41	50	35	33	40	50	110	65	114	270	25	36
22	41	42	34	31	40	46	115	76	103	99	25	38
23	44	38	34	31	40	45	106	67	94	71	27	40
24	45	47	34	32	38	49	92	61	93	63	29	39
25	43	54	33	32	40	47	86	64	119	64	29	40
26	43	51	32	32	39	44	90	61	91	64	31	40
27	42	46	31	33	41	45	100	57	107	57	29	38
28	37	46	31	34	42	46	124	58	96	52	29	37
29	35	42	30	36	42	46	141	56	85	51	28	37
30	33	37	29	38	---	46	168	63	83	50	28	38
31	36	---	29	40	---	47	---	84	---	48	32	---
TOTAL	1281	1377	1196	984	1265	1446	2683	2839	2424	2400	1032	1032
MEAN	41.3	45.9	38.6	31.7	43.6	46.6	89.4	91.6	80.8	77.4	33.3	34.4
MAX	47	54	47	40	62	53	168	193	150	270	55	40
MIN	33	37	29	27	38	43	46	56	39	48	23	29
AC-FT	2540	2730	2370	1950	2510	2870	5320	5630	4810	4760	2050	2050

	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
MEAN	43.7	44.7	41.6	39.6	44.2	45.8	83.7	231	146	53.6	33.9	37.3
MAX	59.5	51.7	52.6	53.2	76.0	65.5	176	488	421	125	57.5	60.0
(WY)	1987	1968	1969	1969	1962	1987	1962	1984	1964	1967	1968	1967
MIN	28.7	34.4	33.4	29.6	32.3	34.6	43.0	91.6	42.2	20.4	20.4	19.1
(WY)	1957	1955	1991	1991	1989	1989	1961	1992	1960	1954	1953	1954

ANNUAL TOTAL	26566		19959		--		
ANNUAL MEAN	72.8		54.5		69.5		
HIGHEST ANNUAL MEAN	--		--		112		1970
LOWEST ANNUAL MEAN	--		--		45.4		1989
HIGHEST DAILY MEAN	1040	May 19	270	Jul 21	1240	May 24	1984
LOWEST DAILY MEAN	25	Jan 26	23	Aug 15	12	Aug 28, 29	1954
ANNUAL SEVEN-DAY MINIMUM	27	Jan 21	25	Aug 15, 16	14	Aug 24	1954
INSTANTANEOUS PEAK FLOW			1130	Jul 21	1750	Jun 8	1968
INSTANTANEOUS PEAK STAGE			6.62	Jul 21	8.74	Jun 8	1968
ANNUAL RUNOFF (AC-FT)	52690		39590		50350		
10 PERCENT EXCEEDS	131		97		138		
50 PERCENT EXCEEDS	43		45		45		
90 PERCENT EXCEEDS	31		31		29		

06309500 MIDDLE FORK POWDER RIVER ABOVE KAYCEE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-54, May 1984 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT											
09...	1515	41	650	8.5	12.0	635	3.8	11.1	124	K3	420
NOV											
12...	1420	47	800	8.4	6.0	630	8.0	10.0	98	K6	420
DEC											
30...	1030	28	820	8.2	0.0	633	4.5	11.4	94	K7	430
FEB											
10...	1350	68	860	8.3	1.0	635	80	12.2	103	K3	450
MAR											
16...	1825	46	830	8.3	10.0	630	12	9.9	107	K4	430
APR											
16...	1515	144	440	8.0	11.5	632	450	8.5	94	260	200
MAY											
01...	0915	202	280	8.4	10.0	635	130	8.6	92	190	120
22...	1340	76	460	7.5	12.0	646	9.5	9.6	105	250	230
JUL											
02...	1700	144	490	8.3	14.0	640	140	8.5	99	2000	230
AUG											
21...	1615	27	725	8.3	22.0	635	2.7	7.6	106	73	370

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

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT										
09...	110	35	23	0.5	2.0	150	280	12	0.4	7.7
NOV										
12...	110	35	19	0.4	2.0	170	280	9.9	0.2	8.5
DEC										
30...	110	37	19	0.4	1.9	180	270	10	0.1	9.8
FEB										
10...	120	37	21	0.4	1.8	180	290	11	0.3	8.5
MAR										
16...	110	37	21	0.4	2.1	160	280	12	0.3	8.2
APR										
16...	50	18	8.9	0.3	1.6	110	110	5.3	0.2	8.6
MAY										
01...	33	9.6	5.9	0.2	1.3	82	57	3.3	0.2	2.6
22...	59	19	11	0.3	1.7	120	130	5.9	0.2	9.9
JUL										
02...	61	20	12	0.3	1.8	110	130	4.7	0.2	10
AUG										
21...	97	31	21	0.5	2.3	150	260	11	0.3	9.1

YELLOWSTONE RIVER BASIN

06309500 MIDDLE FORK POWDER RIVER ABOVE KAYCEE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT										
09...	560	0.76	62.0	0.07	0.1	0.02	--	<0.2	<0.01	<0.01
NOV										
12...	568	0.77	72.1	0.27	0.4	0.02	--	<0.2	0.04	0.02
DEC										
30...	568	0.77	42.9	0.55	0.5	0.02	--	<0.2	0.04	0.02
FEB										
10...	600	0.82	110	0.49	0.5	0.02	0.48	0.5	0.36	0.02
MAR										
16...	568	0.77	70.5	0.23	0.3	0.02	--	<0.2	0.03	0.02
APR										
16...	270	0.37	105	0.33	0.3	0.04	1.6	1.6	0.69	0.02
MAY										
01...	163	0.22	88.9	0.17	0.2	0.03	0.27	0.3	0.07	0.02
22...	309	0.42	63.3	0.11	<0.1	0.01	--	<0.2	0.08	0.04
JUL										
02...	306	0.42	119	0.13	<0.1	0.10	0.50	0.6	0.27	0.15
AUG										
21...	522	0.71	38.0	<0.05	<0.1	0.04	--	<0.2	<0.01	0.01

YELLOWSTONE RIVER BASIN
06311000 NORTH FORK POWDER RIVER NEAR HAZELTON, WY

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LOCATION.--Lat 44°01'40", long 107°04'49", in SW¼ SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, 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. 4-7, Oct. 23 to Nov. 6, Jan. 12 to Feb. 14, Feb. 20 to Mar. 24, and Apr. 3-8, 11. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 190 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 21	0600	*181	*3.74	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.0	3.6	2.8	2.3	2.2	2.0	72	72	63	18	8.6
2	5.0	3.0	3.6	2.8	2.3	2.2	2.0	47	61	69	18	9.5
3	5.0	3.3	3.6	2.8	2.3	2.2	2.3	55	59	49	19	7.6
4	4.9	3.6	3.6	2.8	2.2	2.3	3.0	69	51	42	18	7.6
5	4.7	3.9	3.6	2.8	2.1	2.4	4.5	75	58	39	16	8.9
6	5.6	3.9	3.6	2.8	2.1	2.3	4.0	73	79	34	14	12
7	6.5	4.3	3.6	2.8	2.2	2.2	3.6	74	64	34	14	12
8	5.9	4.4	3.6	2.8	2.1	2.1	3.7	67	48	33	13	8.6
9	5.3	4.6	3.4	2.8	2.0	2.0	4.0	82	43	31	12	7.9
10	4.8	4.8	3.4	2.8	2.0	1.8	4.1	63	50	30	12	7.1
11	4.7	4.6	3.2	2.7	1.9	1.9	4.0	49	55	30	11	6.9
12	4.5	4.4	3.4	2.6	2.0	2.0	4.4	44	74	52	11	6.6
13	4.5	4.4	3.4	2.5	2.1	2.1	6.5	41	43	45	11	6.4
14	4.3	4.3	3.4	2.4	2.1	2.1	10	40	43	31	11	6.1
15	4.4	3.6	3.4	2.1	2.1	2.1	14	39	94	27	10	6.2
16	4.3	4.1	3.4	2.3	2.1	2.2	20	52	110	26	11	6.0
17	4.2	4.2	3.3	2.4	2.1	2.2	22	41	108	24	11	5.8
18	4.2	4.1	3.2	2.3	2.1	2.3	17	34	84	23	10	5.8
19	4.2	4.0	3.1	2.3	2.1	2.2	11	34	73	24	9.7	5.9
20	4.2	3.8	3.1	2.2	2.1	2.2	13	36	74	28	9.2	6.0
21	4.3	3.6	3.1	2.2	2.1	2.1	16	88	64	105	9.3	6.3
22	4.3	3.7	3.2	2.2	2.1	2.0	15	59	60	36	9.0	6.0
23	4.0	3.6	3.2	2.2	2.1	2.2	11	41	55	35	9.6	5.7
24	3.9	3.6	3.1	2.2	2.1	2.0	11	44	53	29	9.3	5.7
25	4.1	3.5	3.1	2.2	2.1	1.9	13	39	69	25	8.8	6.9
26	4.4	3.6	3.1	2.3	2.1	1.9	16	34	87	24	8.4	7.2
27	4.2	3.6	3.1	2.4	2.2	1.9	30	33	76	22	7.9	6.3
28	3.5	3.4	3.0	2.4	2.2	2.0	48	42	52	20	7.7	5.7
29	3.1	3.5	3.0	2.4	2.2	1.9	67	58	50	20	7.3	5.5
30	2.9	3.6	3.0	2.4	---	2.0	93	70	63	19	7.4	5.4
31	3.1	---	2.8	2.4	---	2.1	---	90	---	19	7.4	---
TOTAL	138.0	116.0	102.2	77.1	61.5	65.0	475.1	1685	1972	1088	351.0	212.2
MEAN	4.45	3.87	3.30	2.49	2.12	2.10	15.8	54.4	65.7	35.1	11.3	7.07
MAX	6.5	4.8	3.6	2.8	2.3	2.4	93	90	110	105	19	12
MIN	2.9	3.0	2.8	2.1	1.9	1.8	2.0	33	43	19	7.3	5.4
AC-FT	274	230	203	153	122	129	942	3340	3910	2160	696	421

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1992, BY WATER YEAR (WY)

MEAN	4.27	3.46	2.77	2.25	2.10	2.20	9.03	57.9	63.0	17.1	6.97	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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1946 - 1992	
ANNUAL TOTAL	6558.9		6343.1		--	
ANNUAL MEAN	18.0		17.3		14.7	
HIGHEST ANNUAL MEAN	--		--		26.7	
LOWEST ANNUAL MEAN	--		--		6.91	
HIGHEST DAILY MEAN	231	May 18	110	Jun 16	354	Jun 15 1953
LOWEST DAILY MEAN	1.5	Jan 27	1.8	Mar 10	.60a	Oct 30 1960,
					Apr 9, 12, 15-17	1961
ANNUAL SEVEN-DAY MINIMUM	1.6	Jan 23	1.9	Mar 24	.64	Apr 12 1961
INSTANTANEOUS PEAK FLOW	--		181	Jul 21	886b	Jun 15 1953
INSTANTANEOUS PEAK STAGE	--		3.74	Jul 21	6.21c	May 14 1984
ANNUAL RUNOFF (AC-FT)	13010		12580		10660	
10 PERCENT EXCEEDS	54		58		42	
50 PERCENT EXCEEDS	4.1		4.6		3.8	
90 PERCENT EXCEEDS	1.9		2.1		1.8	

a May have been less during winter months of water years 1947 and 1948.

b Gage height, 4.34 ft, site and datum then in use, from rating curve extended above 110 ft³/s, on basis of slope area measurement of peak flow.

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

YELLOWSTONE RIVER BASIN
06311060 NORTH FORK POWDER RIVER BELOW BULL CREEK, NEAR HAZELTON, WY

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LOCATION.--Lat 44°00'29", long 107°01'08", in NE¼ SE¼ SW¼ sec.25, T.47 N., R.85 W., Johnson County, Hydrologic Unit 10090201, on right bank 60 ft downstream from Bull Creek, 2.1 mi downstream from Dullknife Reservoir, and 6.8 mi southwest of Hazelton.

DRAINAGE AREA.--32.3 mi².

PERIOD OF RECORD.--October 1974 to September 1992 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,840 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 23 to Nov. 6, Nov. 19-26, Nov. 30 to Mar. 26, and Apr. 1, 7. Records good except those for estimated daily discharges, which are poor. Flow regulated by Dullknife Reservoir 2.1 mi upstream, capacity, 4,350 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.4	4.6	4.7	5.4	4.9	4.8	5.8	36	70	20	35
2	5.1	4.6	5.0	5.0	5.3	4.9	5.0	5.0	34	78	18	35
3	5.1	5.0	5.2	5.2	5.1	4.9	6.0	3.9	34	56	21	35
4	5.3	5.2	5.5	5.2	5.0	4.9	6.8	3.7	34	47	20	36
5	5.2	5.0	5.2	5.0	5.2	5.2	6.2	3.6	34	44	18	38
6	5.4	4.8	5.2	5.0	5.2	5.0	5.5	20	36	39	17	38
7	5.2	4.9	5.0	5.0	5.0	4.9	5.2	39	33	37	16	38
8	5.0	4.9	5.0	5.0	5.2	5.0	5.1	39	32	36	15	37
9	5.0	4.8	5.0	5.0	5.1	4.8	6.1	43	32	35	14	37
10	5.0	4.8	5.0	5.0	5.0	4.6	6.4	41	32	27	14	37
11	5.0	4.7	4.7	5.0	5.0	4.9	6.0	40	32	31	13	36
12	5.0	4.8	4.9	5.0	5.0	4.9	7.0	39	42	46	13	35
13	5.0	4.8	5.0	5.0	5.0	4.9	8.8	36	51	53	13	35
14	4.9	4.7	4.6	5.0	5.0	4.9	9.8	33	47	34	23	35
15	4.8	4.8	4.7	4.7	5.0	4.9	12	33	109	29	40	34
16	4.8	4.8	5.0	4.5	5.0	4.9	15	34	127	27	40	34
17	4.8	5.2	5.2	4.9	5.0	4.9	12	33	136	26	40	34
18	4.7	4.8	5.0	5.0	4.8	5.0	8.7	33	98	24	39	34
19	4.7	4.8	5.0	5.0	5.0	4.9	6.9	32	80	25	39	33
20	4.7	4.8	5.0	5.0	5.0	4.9	7.9	31	78	32	39	33
21	4.8	4.8	5.0	5.0	4.9	4.8	8.3	34	70	125	39	33
22	4.8	4.7	5.0	5.0	4.9	4.7	7.8	32	66	49	39	33
23	4.6	4.0	5.0	5.0	4.9	5.6	7.0	32	61	37	39	33
24	4.6	4.4	5.0	5.0	4.9	5.0	7.1	32	57	33	39	33
25	4.6	4.9	5.0	5.0	4.9	4.5	6.6	32	69	29	39	22
26	4.6	4.9	5.0	5.0	4.9	3.8	7.0	31	92	27	39	8.2
27	4.8	4.9	5.0	5.0	4.9	4.1	7.9	32	102	24	39	7.9
28	4.4	4.8	5.0	5.0	4.9	4.2	7.5	34	62	22	37	7.9
29	4.2	4.7	5.0	5.0	4.9	4.3	5.9	34	55	21	35	7.9
30	4.0	4.3	5.0	5.0	---	4.8	5.9	39	63	21	35	7.9
31	4.3	---	4.5	5.4	---	4.7	---	44	---	20	35	---
TOTAL	149.4	143.0	154.3	154.6	145.4	148.7	222.2	924.0	1834	1204	887	902.8
MEAN	4.82	4.77	4.98	4.99	5.01	4.80	7.41	29.8	61.1	38.8	28.6	30.1
MAX	5.4	5.2	5.5	5.4	5.4	5.6	15	44	136	125	40	38
MIN	4.0	4.0	4.5	4.5	4.8	3.8	4.8	3.6	32	20	13	7.9
AC-FT	296	284	306	307	288	295	441	1830	3640	2390	1760	1790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	3.81	2.79	2.53	2.05	2.08	2.28	6.04	50.7	67.8	32.0	24.3	16.9						
MAX	10.2	7.90	6.62	5.41	5.01	5.48	12.8	97.6	151	58.5	33.9	31.9						
(WY)	1980	1977	1977	1980	1992	1980	1988	1991	1978	1975	1991	1982						
MIN	.64	.56	.56	.52	.56	.66	1.61	6.78	24.7	18.4	10.3	6.09						
(WY)	1989	1989	1990	1990	1990	1990	1991	1980	1977	1977	1977	1986						

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1975 - 1992	
ANNUAL TOTAL	8628.3		6869.4		--	
ANNUAL MEAN	23.6		18.8		17.8	
HIGHEST ANNUAL MEAN	--		--		27.3	
LOWEST ANNUAL MEAN	--		--		12.7	
HIGHEST DAILY MEAN	274		136		318	
LOWEST DAILY MEAN	1.1		3.6		.46	
	Jan 27		May 5		Nov 12 1988,	
					Dec 21 1989	
ANNUAL SEVEN-DAY MINIMUM	1.3		4.3		.48	
INSTANTANEOUS PEAK FLOW	--		178		458	
INSTANTANEOUS PEAK STAGE	--		3.56		4.48a	
ANNUAL RUNOFF (AC-FT)	17110		13630		12920	
10 PERCENT EXCEEDS	52		39		43	
50 PERCENT EXCEEDS	5.0		5.2		4.5	
90 PERCENT EXCEEDS	1.4		4.7		.93	

a From floodmarks.

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

LOCATION.--Lat 43°54'41", long 106°53'20", in NW¼ NE¼ SE¼ sec.36, T.46 N., R.84 W., Johnson County, Hydrologic Unit 10090201, on left bank 0.8 mi downstream from Pass Creek, 1.2 mi upstream from Hat Ranch, 7.2 mi northwest of Mayoworth, and 13 mi downstream from Dullknife Reservoir.

DRAINAGE AREA.--100 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 15, 1983, at site 60 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 6, Nov. 30, Dec. 1, and Jan. 14-16. Records good except those for July to September which are fair and those for estimated daily discharges, which are poor. Some regulation for irrigation by Dullknife Reservoir 13 mi upstream, capacity, 4,350 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	18	17	18	17	17	18	49	75	39	42
2	21	14	19	18	18	17	17	17	45	79	37	41
3	21	15	20	17	17	17	16	16	44	75	37	41
4	21	18	21	17	17	17	17	16	44	68	38	41
5	21	19	20	17	18	18	17	16	44	65	35	43
6	21	18	19	17	18	18	17	16	45	61	34	44
7	20	19	19	17	17	17	17	33	43	57	33	44
8	20	19	19	17	18	18	17	39	42	55	31	44
9	20	19	18	17	18	17	17	44	41	52	30	43
10	20	19	18	17	17	17	17	47	41	49	29	43
11	20	19	18	17	17	17	17	46	40	46	28	43
12	20	19	18	17	17	17	17	45	42	50	27	43
13	20	19	18	17	17	17	17	45	51	59	26	42
14	20	19	17	16	17	17	17	41	53	54	26	42
15	20	19	18	13	17	17	18	41	191	48	42	42
16	20	19	18	16	17	17	20	41	128	44	46	42
17	20	19	18	17	17	17	24	41	133	41	47	42
18	20	19	18	17	17	18	22	40	108	39	46	42
19	20	19	18	18	17	17	19	40	92	38	47	42
20	20	19	18	18	17	17	18	38	89	49	47	42
21	20	20	18	18	17	18	19	42	78	119	47	44
22	20	19	18	18	17	18	18	41	73	81	46	43
23	20	17	18	18	17	17	18	40	70	67	46	43
24	20	19	18	18	17	17	17	39	100	65	46	43
25	20	20	18	18	17	17	17	39	73	61	46	43
26	20	19	18	18	17	17	17	38	75	57	45	31
27	20	19	18	17	17	17	17	38	95	50	44	28
28	20	19	18	18	17	17	17	39	75	47	44	27
29	19	19	18	18	17	17	17	42	70	45	42	25
30	17	17	18	18	---	17	17	44	68	43	42	25
31	18	---	16	18	---	17	---	51	---	41	42	---
TOTAL	620	555	566	534	499	533	532	1133	2142	1780	1215	1200
MEAN	20.0	18.5	18.3	17.2	17.2	17.2	17.7	36.5	71.4	57.4	39.2	40.0
MAX	21	20	21	18	18	18	24	51	191	119	47	44
MIN	17	14	16	13	17	17	16	16	40	38	26	25
AC-FT	1230	1100	1120	1060	990	1060	1060	2250	4250	3530	2410	2380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	21.4	18.9	18.6	18.0	17.6	17.5	26.8	74.3	85.7	46.1	37.1	29.9							
MAX	31.5	21.9	23.1	20.2	20.8	21.0	47.9	176	187	80.5	49.9	43.3							
(WY)	1983	1983	1977	1977	1980	1980	1977	1978	1978	1975	1975	1982							
MIN	16.1	15.8	14.9	15.1	14.2	14.6	17.1	25.5	43.0	30.8	26.1	20.0							
(WY)	1990	1990	1991	1991	1991	1991	1975	1980	1977	1977	1985	1974							

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1974 - 1992
ANNUAL TOTAL	14183.2	11309	--
ANNUAL MEAN	38.9	30.9	34.4
HIGHEST ANNUAL MEAN	--	--	51.6
LOWEST ANNUAL MEAN	--	--	25.4
HIGHEST DAILY MEAN	345 May 19	191 Jun 15	356 Jun 10 1978
LOWEST DAILY MEAN	9.5 Feb 6	13 Jan 15	9.5 Feb 6 1991
ANNUAL SEVEN-DAY MINIMUM	11 Feb 5	16 Jan 10	11 Feb 5 1991
INSTANTANEOUS PEAK FLOW	--	1090 Jun 15	1590a Aug 1 1984
INSTANTANEOUS PEAK STAGE	--	7.47 Jun 15	8.89b Aug 1 1984
ANNUAL RUNOFF (AC-FT)	28130	22430	24910
10 PERCENT EXCEEDS	82	50	61
50 PERCENT EXCEEDS	20	19	21
90 PERCENT EXCEEDS	15	17	17

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

06313000 SOUTH FORK POWDER RIVER NEAR KAYCEE, WY

LOCATION.--Lat 43°37'03", long 106°34'39", in NW¼ SE¼ SE¼ sec.9, T.42 N., R.81 W., Johnson County, Hydrologic Unit 10090203, 1,000 ft upstream from bridge on old U.S. Highway 87, 0.8 mi upstream from bridge on Interstate 25, 1.7 mi upstream from Murphy Creek, 6.6 mi southeast of Kaycee, and 7 mi upstream from mouth.

DRAINAGE AREA.--1,150 mi², approximately.

PERIOD OF RECORD.--Water years 1949-53, 1968 to December 1981, April 1983 to September 1985, October 1986 to September 1990, October 1991 to September 1992.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE.--April 1983 to September 1984.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
DEC 30...	1540	3.1	4300	0.0	1400	400	100	600	7	12	220
MAY 01...	1200	1.7	4500	15.5	1400	360	110	700	8	16	130
22...	1015	21	2300	11.5	370	100	29	380	9	9.4	120
JUN 15...	1300	168	2400	14.0	580	160	43	350	6	10	160

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
DEC 30...	2300	190	1.2	8.4	3750	5.10	31.4	1.3	<0.03	10
MAY 01...	2600	220	1.0	4.3	4090	5.56	18.8	<0.1	<0.03	10
22...	840	90	0.9	7.6	1540	2.09	87.1	1.7	0.13	7
JUN 15...	1200	21	0.8	4.8	1890	2.57	859	1.7	0.06	10

YELLOWSTONE RIVER BASIN
06313400 SALT CREEK NEAR SUSSEX, WY

LOCATION.--Lat 43°37'19", long 106°22'04", in NE¼ NE¼ SE¼ 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1976 to September 1981, October 1982 to current year.

REVISED RECORDS.--WDR WY-85-1: 1981.

GAGE.--Water-stage recorder. Elevation of gage is 4,480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 10, Nov. 23 to Feb. 24, Mar. 8-10, and Aug. 5 to Sept. 14. Records good except those for estimated daily discharges, which are poor. Some regulation by Lower Salt Creek Reservoir, capacity, 2,710 acre-ft. Flow affected by water discharge and re-injection from oil field operations.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 15	1400	1,130	4.64	July 2	0730	1,460	5.07
June 19	0500	1,210	4.75	July 26	0830	1,490	5.11
June 27	0800	*1,540	*5.17				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	12	14	16	17	16	14	16	190	19	10
2	11	13	13	14	17	16	16	15	16	813	17	10
3	12	14	14	14	15	17	16	14	14	237	15	17
4	13	14	15	15	14	16	15	14	15	52	87	15
5	13	15	16	15	15	21	16	14	14	29	32	14
6	13	15	16	15	16	20	16	14	14	21	25	13
7	12	15	16	15	16	18	15	15	14	17	16	13
8	12	15	15	14	16	17	16	15	14	17	15	14
9	11	16	15	15	16	17	15	16	14	16	14	15
10	11	15	14	15	15	18	16	19	14	16	13	15
11	11	15	14	15	14	19	16	17	14	15	13	15
12	11	14	14	15	16	20	16	16	86	83	13	14
13	11	13	14	15	19	19	16	15	30	80	12	13
14	12	14	13	14	18	18	16	15	74	33	12	12
15	12	15	12	13	17	17	16	15	602	23	12	11
16	12	14	15	12	17	16	16	15	148	20	11	11
17	11	15	15	13	17	16	16	16	40	15	11	11
18	12	14	15	14	16	18	16	14	24	13	11	11
19	12	14	15	15	16	20	17	12	292	12	10	12
20	13	15	15	16	17	20	17	13	29	13	10	11
21	13	13	15	15	18	20	17	14	24	143	10	11
22	13	15	14	14	19	19	16	16	24	147	10	12
23	13	11	14	13	19	17	16	18	19	64	14	13
24	13	10	14	14	18	17	18	15	16	26	24	10
25	13	13	15	14	18	17	16	13	92	19	17	11
26	13	15	15	14	18	17	16	14	50	444	13	13
27	13	14	15	14	18	17	15	13	377	56	12	13
28	11	13	15	15	18	16	15	14	101	29	11	11
29	10	12	15	15	17	16	15	13	78	23	10	11
30	9.8	11	15	15	---	16	14	14	67	21	10	11
31	11	---	15	15	---	17	---	16	---	19	10	---
TOTAL	369.8	414	450	446	486	549	477	458	2332	2706	509	373
MEAN	11.9	13.8	14.5	14.4	16.8	17.7	15.9	14.8	77.7	87.3	16.4	12.4
MAX	13	16	16	16	19	21	18	19	602	813	87	17
MIN	9.8	10	12	12	14	16	14	12	14	12	10	10
AC-FT	733	821	893	885	964	1090	946	908	4630	5370	1010	740

YELLOWSTONE RIVER BASIN
06313400 SALT CREEK NEAR SUSSEX, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)												
MEAN	36.9	30.5	27.8	30.3	46.5	68.2	49.2	82.2	55.2	47.5	31.1	31.6
MAX	66.2	46.3	38.9	44.2	112	153	88.4	426	139	105	53.6	74.8
(WY)	1987	1983	1987	1983	1980	1978	1987	1978	1987	1978	1983	1986
MIN	11.9	13.8	11.5	11.6	16.8	17.7	15.9	14.8	19.5	17.7	10.7	9.78
(WY)	1992	1992	1991	1991	1992	1992	1992	1992	1990	1990	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1976 - 1992		
ANNUAL TOTAL	10954.8			9569.8			--		
ANNUAL MEAN	30.0			26.1			44.7		
HIGHEST ANNUAL MEAN	--			--			84.1		
LOWEST ANNUAL MEAN	--			--			26.0		
HIGHEST DAILY MEAN	528	Jun	2	813	Jul	2	7610	May	18 1978
LOWEST DAILY MEAN	5.4	Aug	24	9.8	Oct	30	4.3	Dec	21 1990
ANNUAL SEVEN-DAY MINIMUM	6.0	Aug	23	10	Aug	16	6.0	Aug	23 1991
INSTANTANEOUS PEAK FLOW	--			1540	Jun	27	10200a	May	18 1978
INSTANTANEOUS PEAK STAGE	--			5.17	Jun	27	9.88b	May	18 1978
ANNUAL RUNOFF (AC-FT)	21730			18980			32390		
10 PERCENT EXCEEDS	48			23			61		
50 PERCENT EXCEEDS	15			15			32		
90 PERCENT EXCEEDS	9.6			11			17		

a From rating curve extended above 2,300 ft³/s on basis of slope-area measurement of peak flow.
b From floodmark.

YELLOWSTONE RIVER BASIN

06313400 SALT CREEK NEAR SUSSEX, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1952, 1968 to 1981, October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 09...	0855	11	5150	9.0	830	220	66	910	14	32
DEC 31...	1000	15	6000	0.5	1000	290	78	930	13	35
FEB 10...	0850	14	5800	0.0	900	250	65	830	12	31
JUN 16...	1130	156	2230	14.0	410	110	33	310	7	11

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 09...	200	1300	830	2.4	29	3520	4.78	104	<0.10	0.07
DEC 31...	270	1500	890	2.4	39	3930	5.34	159	<0.10	<0.03
FEB 10...	240	1400	810	3.0	30	3570	4.85	135	<0.10	0.09
JUN 16...	180	810	110	0.6	7.3	1510	2.05	635	1.20	<0.03

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)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 09...	0855	20	1	78	<2	1000	<3.0	<1	<9	3
FEB 10...	0850	<10	2	46	<2	900	<3.0	<1	<9	1
APR 16...	0905	<10	2	46	<2	1000	<3.0	<1	<9	5
JUN 16...	1130	20	<1	70	<1	270	<2.0	<1	<6	1

DATE	TIME	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 09...		19	<1	450	63	0.2	<1	<3.0	4600	<9
FEB 10...		<9	<1	380	150	0.2	<1	<3.0	4600	16
APR 16...		9	<1	400	130	0.2	<1	<3.0	4700	13
JUN 16...		20	<1	78	59	<0.1	2	<2.0	1400	<6

YELLOWSTONE RIVER BASIN
06313500 POWDER RIVER AT SUSSEX, WY

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LOCATION.--Lat 43°41'44", long 106°18'24", in SW¼ SW¼ NW¼ sec.13, T.43 N., R.79 W., Johnson County, Hydrologic Unit 10090202, on left bank 0.5 mi upstream from bridge on State Highway 192, 0.6 mi west of Sussex, and 2.7 mi downstream from Salt Creek.

DRAINAGE AREA.--3,090 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to June 1940, February 1950 to September 1957, October 1977 to September 1984, October 1985 to current year.

REVISED RECORDS.--WDR WY-80-1: 1979(M), 1979.

GAGE.--Water-stage recorder. Datum of gage is 4,365.28 ft above National Geodetic Vertical datum of 1929. Prior to June 30, 1940, nonrecording gage about 500 ft downstream from State Highway 192 at datum 4,363.23 ft, National Geodetic Vertical Datum of 1929. 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. 29 to Nov. 11 and Nov. 27 to Feb. 16. Records good except those for estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation of about 17,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 30, 1923, reached an elevation of 4,375.75 ft at site about 600 ft downstream from State Highway 192, from information by local resident.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 2	1530	*3,470	*6.64	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	85	78	92	145	154	130	186	104	443	64	26
2	75	88	69	95	152	152	132	209	107	2110	75	27
3	76	94	80	97	148	149	130	182	71	1160	57	50
4	79	98	92	100	143	146	132	151	58	389	334	45
5	88	113	106	101	139	178	135	129	46	258	146	38
6	88	130	118	100	136	187	140	113	46	200	85	35
7	89	150	137	97	134	165	140	96	50	168	55	38
8	86	162	152	94	132	160	138	76	46	139	47	46
9	84	160	137	91	130	155	133	64	37	122	42	49
10	84	158	122	91	130	160	134	87	55	108	35	49
11	84	153	106	94	132	172	143	132	44	101	32	48
12	85	149	95	95	133	178	152	95	122	124	27	46
13	85	141	85	93	135	172	154	67	73	209	26	40
14	87	140	77	87	139	162	157	56	95	195	26	38
15	89	139	70	81	143	151	167	47	1130	132	26	37
16	94	135	75	79	147	143	185	41	1070	99	25	38
17	95	129	81	78	150	139	231	37	502	82	23	39
18	96	132	86	82	148	147	226	33	470	74	23	39
19	99	128	90	86	144	170	218	30	654	65	22	43
20	103	121	89	90	160	190	188	28	366	72	21	47
21	104	137	91	95	170	165	178	29	367	619	21	47
22	104	138	90	96	183	161	182	37	464	847	21	49
23	106	109	93	93	170	147	194	45	281	416	26	57
24	111	95	94	89	149	138	184	38	210	203	81	52
25	114	119	95	93	147	137	164	34	259	151	51	50
26	115	145	96	97	144	134	151	32	349	468	40	49
27	114	122	94	103	153	129	136	31	542	225	39	52
28	108	116	93	112	154	129	140	31	475	175	35	45
29	97	106	93	118	153	129	163	30	385	108	31	46
30	88	90	92	126	---	129	174	29	325	87	29	49
31	82	---	91	136	---	129	---	38	---	71	27	---
TOTAL	2884	3782	2967	2981	4243	4757	4831	2233	8803	9620	1592	1314
MEAN	93.0	126	95.7	96.2	146	153	161	72.0	293	310	51.4	43.8
MAX	115	162	152	136	183	190	231	209	1130	2110	334	57
MIN	75	85	69	78	130	129	130	28	37	65	21	26
AC-FT	5720	7500	5890	5910	8420	9440	9580	4430	17460	19080	3160	2610

YELLOWSTONE RIVER BASIN
06313500 POWDER RIVER AT SUSSEX, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

MEAN	113	125	110	111	167	274	272	544	315	119	55.7	74.3
MAX	390	202	158	177	335	701	553	2553	1142	374	125	448
(WY)	1987	1987	1956	1983	1980	1987	1987	1978	1978	1978	1983	1982
MIN	24.2	77.7	79.5	58.6	69.4	110	136	72.0	22.2	29.2	3.54	4.90
(WY)	1957	1953	1991	1940	1939	1940	1953	1992	1954	1980	1939	1939

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1938 - 1992		
ANNUAL TOTAL	75807.9			50007			--		
ANNUAL MEAN	208			137			191		
HIGHEST ANNUAL MEAN	--			--			486		
LOWEST ANNUAL MEAN	--			--			115		
HIGHEST DAILY MEAN	1970	Jun 3		2110	Jul 2		14100	May 23	1952
LOWEST DAILY MEAN	9.9	Sep 7		21	Aug 20-22		1.5	Aug 25	1939
ANNUAL SEVEN-DAY MINIMUM	10	Sep 1		22	Aug 16		2.6	Aug 23	1939
INSTANTANEOUS PEAK FLOW	--			3470	Jul 2		32500a	May 23	1952
INSTANTANEOUS PEAK STAGE	--			6.64	Jul 2		4374.76b	May 23	1952
ANNUAL RUHOFF (AC-FT)	150400			99190			138700		
10 PERCENT EXCEEDS	454			191			404		
50 PERCENT EXCEEDS	114			104			120		
90 PERCENT EXCEEDS	23			38			26		

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

b From floodmarks, site then in use.

YELLOWSTONE RIVER BASIN

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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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 09...	1145	89	2100	11.0	560	140	50	240	4	7.5
NOV 13...	1210	142	1850	5.5	570	150	47	210	4	6.6
DEC 31...	1415	85	2080	0.0	550	140	47	210	4	7.5
FEB 10...	1305	155	2380	0.0	570	150	47	220	4	7.1
MAR 16...	1415	138	2150	14.0	590	150	53	260	5	7.7
APR 16...	1300	196	1390	14.0	410	98	40	160	3	5.4
MAY 18...	1145	33	3990	20.0	890	220	82	590	9	20
JUN 15...	1700	1530	2300	14.5	450	120	35	320	7	11
AUG 04...	1455	352	1630	22.0	400	110	30	180	4	7.0
SEP 15...	1635	36	2800	25.5	740	190	65	360	6	15

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 09...	180	620	170	0.8	9.2	1350	1.83	324	<0.1	<0.03
NOV 13...	200	550	150	0.5	10	1250	1.69	477	0.3	<0.03
DEC 31...	200	520	160	0.9	12	1220	1.66	280	0.4	<0.03
FEB 10...	210	620	160	0.7	11	1350	1.83	563	0.4	0.04
MAR 16...	190	690	150	0.7	8.4	1440	1.95	535	0.3	0.04
APR 16...	160	390	100	0.5	8.2	898	1.22	475	<0.1	0.04
MAY 18...	200	1300	480	1.6	13	2830	3.84	252	<0.1	<0.03
JUN 15...	210	920	92	0.7	5.8	1640	2.23	6760	1.0	<0.03
AUG 04...	140	530	55	0.5	5.7	1000	1.36	952	<0.1	0.06
SEP 15...	190	860	300	1.3	17	1920	2.61	187	<0.1	<0.03

YELLOWSTONE RIVER BASIN

06313500 POWDER RIVER AT SUSSEX, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 09...	1145	10	<1	39	<0.5	270	1.0	<1	<3	4
DEC 31...	1415	10	<1	35	<0.5	230	<1.0	1	<3	1
FEB 10...	1305	<10	1	34	<2	230	<3.0	<1	<9	<1
JUN 15...	1700	<10	<1	59	<1	260	<2.0	<1	<6	1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 09...	11	1	110	7	0.2	1	<1.0	1900	6
DEC 31...	4	<1	95	23	0.1	1	<1.0	1800	4
FEB 10...	<9	<1	95	12	0.1	2	<3.0	1900	<9
JUN 15...	12	<1	81	150	<0.1	4	<2.0	1500	<6

06316400 CRAZY WOMAN CREEK AT UPPER STATION, NEAR ARVADA, WY

LOCATION.--Lat 44°29'28", long 106°10'38", in NE¼ SW¼ SW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 03...	1815	16	1950	19.0	1	78	3.4
22...	1215	11	2390	13.5	1	49	1.5
JUN 03...	1845	80	1900	20.0	2	472	102

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 03...	1845	80	20.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 14...	0810	31	12.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

LOCATION.--Lat 44°39'00", long 106°07'37", in SW¼ SE¼ sec.16, T.54 N., R.77 W., Sheridan County, Hydrologic Unit 10090202, on right bank 0.1 mi downstream from bridge on county road, 0.2 mi southeast of Arvada, and 0.2 mi upstream from Wild Horse Creek.

DRAINAGE AREA.--6,050 mi², approximately.

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 National Geodetic Vertical Datum of 1929, 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. 24, Oct. 28 to Nov. 12, Nov. 24 to Mar. 15, and Apr. 18-27. Records fair except those for estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation of about 29,000 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 11	1430	a2,300	*5.38	No peak greater than base discharge.			
July 3	2100	*2,600	4.58				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	72	64	78	117	165	127	143	39	445	157	59
2	61	74	75	78	119	170	126	151	36	454	135	54
3	62	81	87	78	122	170	123	163	41	1320	135	50
4	68	88	102	82	130	165	120	165	67	1830	133	47
5	72	97	117	82	140	160	121	183	84	943	135	47
6	79	97	128	82	130	157	113	178	96	512	184	49
7	81	109	136	82	120	155	113	155	92	385	265	51
8	85	128	126	82	123	178	111	136	81	321	185	59
9	88	142	117	83	125	182	111	126	77	277	159	63
10	89	160	111	85	123	172	117	126	82	259	141	63
11	93	330	102	86	123	167	127	108	87	229	124	64
12	95	250	97	88	125	158	136	91	94	217	108	66
13	92	201	92	84	126	155	131	84	94	209	104	66
14	92	177	86	82	127	163	124	92	100	196	94	66
15	92	139	88	77	129	172	129	108	563	216	88	69
16	85	123	93	70	130	164	139	94	1340	284	87	66
17	81	123	97	72	132	160	161	81	2270	237	77	65
18	86	125	100	80	133	156	182	75	1540	190	71	64
19	86	122	98	78	140	156	202	67	795	173	71	64
20	95	109	97	83	146	153	243	60	1110	156	129	62
21	95	113	96	90	143	157	252	58	775	150	90	61
22	95	120	90	84	152	162	245	55	500	261	68	64
23	100	124	90	76	170	181	223	49	573	998	61	64
24	100	91	90	77	170	174	207	43	507	1380	57	66
25	105	111	88	80	160	161	194	40	363	554	53	68
26	106	150	83	82	160	153	185	39	288	314	53	70
27	122	117	82	84	160	144	176	40	294	256	56	74
28	135	110	80	85	160	132	162	40	403	417	62	77
29	112	80	79	87	160	133	158	39	669	291	68	76
30	90	76	79	93	---	131	147	40	516	224	65	76
31	76	---	78	110	---	127	---	40	---	185	59	---
TOTAL	2779	3839	2948	2560	3995	4933	4705	2869	13576	13883	3274	1890
MEAN	89.6	128	95.1	82.6	138	159	157	92.5	453	448	106	63.0
MAX	135	330	136	110	170	182	252	183	2270	1830	265	77
MIN	61	72	64	70	117	127	111	39	36	150	53	47
AC-FT	5510	7610	5850	5080	7920	9780	9330	5690	26930	27540	6490	3750

YELLOWSTONE RIVER BASIN
06317000 POWDER RIVER AT ARVADA, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)												
MEAN	121	122	95.2	85.6	163	397	358	718	744	260	96.3	75.6
MAX	430	303	290	242	567	953	1107	4025	3319	1703	861	451
(WY)	1987	1974	1974	1974	1972	1978	1941	1978	1962	1937	1941	1982
MIN	.000	11.4	23.0	15.0	10.0	144	99.0	51.3	30.6	15.8	.000	.000
(WY)	1961	1936	1950	1933	1933	1961	1961	1936	1954	1974	1932	1932

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1931 - 1992		
ANNUAL TOTAL	89267.3				61251				--		
ANNUAL MEAN	245				167				271		
HIGHEST ANNUAL MEAN	--				--				735		1978
LOWEST ANNUAL MEAN	--				--				70.3		1961
HIGHEST DAILY MEAN	2650	Jun	4		2270	Jun	17		22600	May	20 1978
LOWEST DAILY MEAN	1.5	Sep	8		36	Jun	2		.00	Many	years
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep	5		39	May	27		.00	Many	years
INSTANTANEOUS PEAK FLOW	--				2600b	Jul	3		100000c	Sep	29 1923
INSTANTANEOUS PEAK STAGE	--				5.38a	Nov	11		23.70d	Sep	29 1923
ANNUAL RUNOFF (AC-FT)	177100				121500				196600		
10 PERCENT EXCEEDS	657				257				579		
50 PERCENT EXCEEDS	102				111				125		
90 PERCENT EXCEEDS	23				63				14		

a Ice flow, discharge estimated, from velocity study based on travel time study between stations 06317000 and 06324500.

b Gage height, 4.58 ft.

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

d From floodmarks, site and datum then in use.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT										
25...	0910	107	2050	1.5	660	160	64	250	4	7.2
JAN										
27...	1630	84	1910	0.5	610	150	57	210	4	6.1
MAY										
22...	0845	59	2930	11.0	800	180	84	380	6	10
AUG										
28...	1230	62	2000	20.5	670	150	71	200	3	6.7

DATE	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT										
25...	190	720	170	0.4	7.2	1490	2.03	431	<0.1	<0.03
JAN										
27...	220	600	140	0.5	8.3	1310	1.77	296	0.3	0.04
MAY										
22...	190	1000	240	0.7	7.9	2020	2.74	321	<0.1	0.07
AUG										
28...	180	760	94	0.4	11	1400	1.91	235	<0.1	0.05

LOCATION.--Lat 44°19'58", long 106°46'36", in SE¼ SW¼ NW¼ sec.6, T.50 N., R.82 W., Johnson County, Hydrologic Unit 10090206, on left bank 500 ft upstream from abandoned Pacific Power & Light Company powerplant, 2.0 mi downstream from Mosier Gulch, and 4.0 mi west of Buffalo.

DRAINAGE AREA.--120 mi².

PERIOD OF RECORD.--April to September 1894, May to September 1896, May 1897 to December 1899, June 1917 to October 1927, April 1938 to September 1992 (discontinued). Published as "at Buffalo" 1897-98. Monthly discharge only for some periods, published in WSP 1309. Records after October 1987 are not considered equivalent due to installation of diversion for water-supply pipeline for city of Buffalo.

REVISED RECORDS.--WSP 1309: 1896, 1898, 1938, 1939(M), 1945(M). WSP 1729: 1921.

GAGE.--Water-stage recorder. Elevation of gage is 5,184.83 ft above National Geodetic Vertical Datum of 1929. See WSP 1916 for history of changes prior to 1961.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 8, Nov. 23 to Dec. 5, Dec. 14-16, Jan. 8, 14-16, Feb. 4-12, 18, 19, Mar. 9-11, and May 8-20. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 330 acres, of which about 320 acres are downstream from station; and for water-supply pipeline for city of Buffalo, capacity 12 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 380 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	1200	512	3.53	June 25	0230	537	3.55
June 15	1430	*691	*3.93	July 21	1230	542	3.57

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	18	19	16	13	14	18	175	168	362	113	62
2	37	19	20	15	13	14	19	123	148	412	109	54
3	37	21	23	15	13	14	24	110	179	322	114	48
4	39	24	23	16	12	15	33	114	195	265	106	47
5	37	28	22	15	11	16	40	137	181	237	96	47
6	39	26	21	15	11	15	31	164	199	217	88	59
7	39	28	20	15	12	14	24	219	225	210	82	71
8	37	29	20	14	11	15	22	260	201	195	78	59
9	35	29	20	15	11	13	21	340	195	175	75	54
10	34	26	20	14	10	12	33	290	196	163	73	51
11	32	25	19	15	9.6	13	30	240	189	154	72	49
12	32	25	20	15	11	14	27	220	224	196	71	48
13	31	26	19	14	12	14	51	200	307	213	69	50
14	30	26	18	13	12	15	61	195	263	162	65	48
15	30	25	19	12	12	15	63	190	497	146	63	47
16	29	25	19	13	12	16	72	250	399	136	66	46
17	27	25	18	14	12	16	71	210	286	123	83	45
18	28	25	18	13	12	17	74	170	238	116	71	43
19	28	23	18	13	12	15	49	170	250	140	68	43
20	27	24	18	13	12	14	46	180	282	223	64	42
21	27	24	18	13	12	15	49	440	273	412	65	42
22	27	23	18	13	12	13	55	313	343	324	62	42
23	31	21	17	13	12	17	50	221	378	250	64	40
24	31	20	17	13	12	15	42	210	363	219	64	39
25	30	24	17	13	12	14	41	223	454	193	66	43
26	29	23	17	13	12	15	46	163	430	177	66	42
27	30	21	17	13	13	15	61	139	416	154	60	39
28	24	20	17	13	13	18	77	125	394	137	55	38
29	22	19	17	13	14	17	91	123	345	128	52	37
30	19	17	16	13	---	18	129	134	358	122	50	36
31	21	---	15	13	---	19	---	194	---	116	49	---
TOTAL	957	709	580	428	345.6	467	1450	6242	8576	6399	2279	1411
MEAN	30.9	23.6	18.7	13.8	11.9	15.1	48.3	201	286	206	73.5	47.0
MAX	39	29	23	16	14	19	129	440	497	412	114	71
MIN	19	17	15	12	9.6	12	18	110	148	116	49	36
AC-FT	1900	1410	1150	849	685	926	2880	12380	17010	12690	4520	2800

YELLOWSTONE RIVER BASIN
06318500 CLEAR CREEK NEAR BUFFALO, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1992, BY WATER YEAR (WY)

MEAN	28.2	17.7	11.6	8.29	7.25	9.36	34.7	169	258	119	48.5	33.3
MAX	258	93.4	51.5	40.0	29.8	27.0	88.2	367	565	326	148	107
(WY)	1924	1924	1924	1924	1924	1924	1946	1926	1924	1975	1927	1923
MIN	1.15	1.04	.35	.26	.55	.99	5.80	62.3	61.3	27.3	3.65	.47
(WY)	1954	1954	1954	1955	1955	1944	1957	1960	1954	1954	1954	1954

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1917 - 1992		
ANNUAL TOTAL	29750			29843.6			--		
ANNUAL MEAN	81.5			81.5			61.9a		
HIGHEST ANNUAL MEAN	--			--			148		
LOWEST ANNUAL MEAN	--			--			18.1		
HIGHEST DAILY MEAN	722	Jun 7		497	Jun 15		1660	Jun 15	1963
LOWEST DAILY MEAN	10	Jan 27		9.6	Feb 11		.00	Feb 14-16, 1939,	
								Nov 12, 13, 1940	
ANNUAL SEVEN-DAY MINIMUM	11	Jan 25		11	Feb 5		.14	Jan 26	1955
INSTANTANEOUS PEAK FLOW	--			691	Jun 15		3420b	Jun 15	1963
INSTANTANEOUS PEAK STAGE	--			3.93	Jun 15		6.19	Jun 15	1963
ANNUAL RUNOFF (AC-FT)	59010			59190			44880a		
10 PERCENT EXCEEDS	277			223			179		
50 PERCENT EXCEEDS	29			33			22		
90 PERCENT EXCEEDS	12			13			3.0		

a Unadjusted for water-supply diversion for City of Buffalo started in 1988. Average discharge prior to water-supply diversion (water years 1898-99, 1918-27, 1939-87), 63.5 ft³/s.

b From rating curve extended above 900 ft³/s on basis of velocity-area study.

YELLOWSTONE RIVER BASIN
06320000 ROCK CREEK NEAR BUFFALO, WY

227

LOCATION.--Lat 44°27'22", long 106°52'42", in NW¼ NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 8, 1944, nonrecording gages 600 ft upstream on North and South Forks at different datums. Jan. 8, 1944, to Sept. 30, 1952, water-stage recorder at present site at datum 0.72 ft lower.

REMARKS.--No estimated daily discharges. Records good. Water is imported into drainage basin upstream from station from South Piney Creek. Diversions for irrigation of about 250 acres upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1941, about 8.05 ft, probably during 1944.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	2.9	48	59	168	57	38
2	---	---	---	---	---	---	3.0	30	52	187	60	40
3	---	---	---	---	---	---	3.7	26	52	162	76	38
4	---	---	---	---	---	---	5.0	28	50	142	63	39
5	---	---	---	---	---	---	6.6	34	48	129	56	40
6	---	---	---	---	---	---	4.4	45	57	121	52	44
7	---	---	---	---	---	---	3.5	56	75	115	48	47
8	---	---	---	---	---	---	3.0	63	72	106	42	42
9	---	---	---	---	---	---	2.9	66	78	98	41	40
10	---	---	---	---	---	---	3.3	46	70	93	37	38
11	---	---	---	---	---	---	3.6	37	65	92	34	37
12	---	---	---	---	---	---	3.2	33	72	116	34	36
13	---	---	---	---	---	---	4.4	34	92	129	37	38
14	---	---	---	---	---	---	8.0	39	89	90	36	34
15	---	---	---	---	---	---	10	41	271	81	32	33
16	---	---	---	---	---	---	14	49	220	76	34	32
17	---	---	---	---	---	---	13	41	181	73	39	32
18	---	---	---	---	---	---	12	40	164	70	34	32
19	---	---	---	---	---	---	7.8	51	166	73	33	28
20	---	---	---	---	---	---	7.8	64	176	86	32	16
21	---	---	---	---	---	---	8.3	109	153	125	39	14
22	---	---	---	---	---	---	9.0	70	176	99	36	15
23	---	---	---	---	---	---	9.0	51	187	82	37	14
24	---	---	---	---	---	---	9.0	52	157	77	37	13
25	---	---	---	---	---	---	11	61	238	76	37	15
26	---	---	---	---	---	---	12	46	189	73	36	13
27	---	---	---	---	---	---	13	42	177	66	33	10
28	---	---	---	---	---	---	21	40	194	64	32	9.7
29	---	---	---	---	---	---	29	42	177	61	31	9.2
30	---	---	---	---	---	---	41	49	166	57	31	9.0
31	---	---	---	---	---	---	---	70	---	57	31	---
TOTAL	---	---	---	---	---	---	284.4	1503	3923	3044	1257	845.9
MEAN	---	---	---	---	---	---	9.48	48.5	131	98.2	40.5	28.2
MAX	---	---	---	---	---	---	41	109	271	187	76	47
MIN	---	---	---	---	---	---	2.9	26	48	57	31	9.0
AC-FT	---	---	---	---	---	---	564	2980	7780	6040	2490	1680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1971, BY WATER YEAR (WY)

	MEAN	7.11	5.57	4.58	4.43	4.81	13.6	90.1	155	68.1	42.9	15.6
MAX	20.1	12.7	8.75	6.40	6.57	7.13	37.3	189	309	99.5	69.2	43.4
(WY)	1969	1969	1969	1965	1969	1960	1962	1947	1967	1947	1968	1968
MIN	3.44	2.74	3.08	1.88	2.27	2.22	4.63	27.1	37.8	28.3	4.22	1.57
(WY)	1955	1955	1967	1950	1957	1966	1966	1960	1954	1958	1954	1954

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1945 - 1971**
ANNUAL MEAN	---	34.7
HIGHEST ANNUAL MEAN	---	54.7
LOWEST ANNUAL MEAN	---	16.1
HIGHEST DAILY MEAN	271 Jun 15	945 Jun 9 1968
LOWEST DAILY MEAN	2.9 Apr 1,9	.50 Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	---	.59 Sep 17 1954
INSTANTANEOUS PEAK FLOW	433 Jun 15	1860a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	5.84 Jun 15	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.

** April 1941 to November 1944, not used in computations.

For period of record through 1992.

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

YELLOWSTONE RIVER BASIN

06320400 CLEAR CREEK AT UCROSS, WY

LOCATION.--Lat 44°33'09", long 106°32'06", in NE¼ SW¼ NE¼ sec.19, T.53 N., R.80 W., Johnson County, Hydrologic Unit 10090206, at former gaging station, 0.5 mi upstream from Sheridan-Johnson County line, 0.7 mi south of Ucross, and 1.6 mi upstream from Piney Creek.

DRAINAGE AREA.--409 mi².

PERIOD OF RECORD.--Water years 1976-81, October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUL 11...	1840	250	17.0	0.01	0.03	<0.01	<0.01	<0.01	<0.01
SEP 14...	1310	58	13.5	<0.01	0.07	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06320500 SOUTH PINEY CREEK AT WILLOW PARK, WY

229

LOCATION.--Lat 44°27'59", long 107°02'03", in NW¼ sec.24, T.52 N., R.85 W., Johnson County, Hydrologic Unit 10090206, Bighorn National Forest, on left bank about 300 ft downstream from Willow Park Dam, 1.4 mi upstream from Kearny Creek, and 10 mi southwest of Story.

DRAINAGE AREA.--33.6 mi².

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

REVISED RECORDS.--WSP 1309: 1949(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,540 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1957, at site about 600 ft upstream at different datum. Oct. 1, 1959, to Sept. 30, 1965, at present site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: May 1-5. Records good except those for May 1-18, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft, and Willow Park Reservoir, capacity, 4,457 acre-ft. Storage began in Willow Park Reservoir in April 1959. Cloud Peak Reservoir enlarged December 1958. Water released from storage in Cloud Peak Reservoir is diverted just downstream from station into Rock Creek basin.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	19	36	227	68	83
2	---	---	---	---	---	---	---	18	37	216	68	83
3	---	---	---	---	---	---	---	18	38	180	73	83
4	---	---	---	---	---	---	---	17	39	144	71	83
5	---	---	---	---	---	---	---	17	40	122	68	82
6	---	---	---	---	---	---	---	14	41	114	65	82
7	---	---	---	---	---	---	---	3.5	57	109	62	81
8	---	---	---	---	---	---	---	2.8	68	112	59	80
9	---	---	---	---	---	---	---	2.5	68	111	64	80
10	---	---	---	---	---	---	---	2.4	69	102	70	73
11	---	---	---	---	---	---	---	2.3	65	93	74	68
12	---	---	---	---	---	---	---	2.0	78	103	72	68
13	---	---	---	---	---	---	---	1.9	119	121	72	64
14	---	---	---	---	---	---	---	1.7	156	112	72	59
15	---	---	---	---	---	---	---	1.6	238	100	72	58
16	---	---	---	---	---	---	---	1.5	218	90	70	58
17	---	---	---	---	---	---	---	1.7	164	84	69	56
18	---	---	---	---	---	---	---	9.7	136	79	70	55
19	---	---	---	---	---	---	---	25	140	82	77	45
20	---	---	---	---	---	---	---	25	159	95	86	31
21	---	---	---	---	---	---	---	20	157	121	87	31
22	---	---	---	---	---	---	---	8.5	197	134	87	31
23	---	---	---	---	---	---	---	20	245	124	88	31
24	---	---	---	---	---	---	---	24	245	118	90	29
25	---	---	---	---	---	---	---	25	484	116	90	28
26	---	---	---	---	---	---	---	25	340	108	89	28
27	---	---	---	---	---	---	---	25	279	98	89	28
28	---	---	---	---	---	---	---	25	275	88	87	28
29	---	---	---	---	---	---	---	30	253	81	85	17
30	---	---	---	---	---	---	---	35	231	74	85	7.6
31	---	---	---	---	---	---	---	36	---	70	85	---
TOTAL	---	---	---	---	---	---	---	460.1	4672	3528	2364	1630.6
MEAN	---	---	---	---	---	---	---	14.8	156	114	76.3	54.4
MAX	---	---	---	---	---	---	---	36	484	227	90	83
MIN	---	---	---	---	---	---	---	1.5	36	70	59	7.6
AC-FT	---	---	---	---	---	---	---	913	9270	7000	4690	3230

YELLOWSTONE RIVER BASIN
06320500 SOUTH PINEY CREEK AT WILLOW PARK, WY--Continued

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

SUMMARY STATISTICS

	FOR 1992 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	484	Jun 25	1080	Jun 16 1963
LOWEST DAILY MEAN	1.5	May 16	.13 ^b	May 1-6 1969 [#]
ANNUAL SEVEN-DAY MINIMUM	--		.33	Nov 19 1966
INSTANTANEOUS PEAK FLOW	543	Jun 25	1620 ^c	Jun 15 1963 [#]
INSTANTANEOUS PEAK STAGE	4.33	Jun 25	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 1992.

^a Unadjusted.^b Minimum daily determined prior to construction of Willow Park Reservoir, 4.5 ft³/s, Mar. 1 to Apr. 5, 1955.^c From rating curve extended above 360 ft³/s on basis of slope-area measurement of peak flow.

YELLOWSTONE RIVER BASIN
06323000 PINEY CREEK AT KEARNY, WY

231

LOCATION.--Lat 44°32'08", long 106°49'18", in NE¼ NE¼ SW¼ 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.

DRAINAGE AREA.--118 mi².

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.

REVISED RECORDS.--WSP 1176: 1944. WSP 1309: 1913(M). WSP 1509: 1906, 1920(M), 1941(M), 1942, 1943(M). WSP 1916: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,655.11 ft above National Geodetic Vertical Datum of 1929.

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.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 9, Nov. 16, 17, 23-26, 29, Dec. 1, 2, Dec. 9 to Jan. 31, and Feb. 11-13, 18, 19. Records good except those for estimated daily discharges, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft, Willow Park Reservoir, capacity, 4,457 acre-ft, and Kearny Lake, capacity, 1,860 acre-ft. Diversion upstream from station from South Piney Creek into Rock Creek basin for irrigation. Diversions upstream from station for irrigation of about 240 acres, of which about 90 acres are downstream from station. Record includes flow in bypass channel (Spring Creek), 300 ft left of main channel.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	22	53	40	49	37	35	127	56	360	43	50
2	7.7	22	51	42	48	35	38	104	49	376	41	46
3	9.1	22	51	43	48	35	41	97	48	293	50	27
4	12	22	53	44	50	37	45	90	46	192	42	26
5	13	28	53	44	50	42	50	74	53	158	33	25
6	13	29	51	44	48	44	46	58	58	141	27	27
7	16	29	47	43	49	41	41	56	68	129	18	34
8	20	29	44	41	53	42	38	57	64	117	13	30
9	20	30	43	40	49	38	37	70	58	121	11	29
10	20	30	42	40	46	36	40	60	53	114	12	26
11	19	27	42	40	46	38	42	47	45	106	11	21
12	19	27	42	41	42	37	40	41	45	132	11	19
13	19	29	43	42	40	35	48	34	78	152	11	18
14	20	33	42	43	37	34	55	14	161	129	10	14
15	20	28	42	41	35	35	61	27	468	112	8.8	38
16	21	29	41	39	33	38	77	44	454	102	10	57
17	20	30	41	38	34	37	80	39	356	97	11	57
18	16	32	42	37	31	39	82	27	293	90	9.1	55
19	15	30	42	38	31	38	72	45	246	95	8.7	41
20	14	40	43	39	32	37	71	44	259	102	13	31
21	14	45	42	41	30	37	71	133	252	125	26	29
22	13	44	40	42	30	36	74	73	299	138	22	28
23	20	43	41	43	30	37	70	47	425	123	22	28
24	25	43	42	43	30	38	53	53	392	119	25	30
25	25	43	43	44	31	35	46	54	783	112	28	30
26	24	44	42	44	32	36	48	40	647	104	31	31
27	26	45	41	45	36	37	53	34	465	92	31	31
28	24	46	40	45	37	36	71	28	532	83	27	30
29	23	48	41	46	35	36	86	28	420	75	23	27
30	22	53	41	46	---	36	110	47	364	66	20	19
31	23	---	39	47	---	37	---	75	---	55	30	---
TOTAL	559.5	1022	1360	1305	1142	1156	1721	1767	7537	4210	678.6	954
MEAN	18.0	34.1	43.9	42.1	39.4	37.3	57.4	57.0	251	136	21.9	31.8
MAX	26	53	53	47	53	44	110	133	783	376	50	57
MIN	6.7	22	39	37	30	34	35	14	45	55	8.7	14
AC-FT	1110	2030	2700	2590	2270	2290	3410	3500	14950	8350	1350	1890

YELLOWSTONE RIVER BASIN
06323000 PINEY CREEK AT KEARNY, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1992, BY WATER YEAR (WY)

MEAN	29.1	34.6	30.5	26.4	25.8	30.2	69.4	271	374	92.5	27.8	26.1
MAX	85.4	67.7	53.6	42.7	54.4	72.8	204	683	910	413	130	185
(WY)	1913	1952	1977	1973	1962	1972	1943	1944	1944	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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1903 - 1992		
ANNUAL TOTAL	36558.6		23412.1		--		
ANNUAL MEAN	100		64.0		84.2		
HIGHEST ANNUAL MEAN	--		--		168		1944
LOWEST ANNUAL MEAN	--		--		27.8		1985
HIGHEST DAILY MEAN	1230	Jun 7	783	Jun 25	1780	Jun 15	1963
LOWEST DAILY MEAN	4.5	Aug 31	6.7	Oct 1	1.9	Oct 3	1981,
						Sep 14-18	1985
ANNUAL SEVEN-DAY MINIMUM	5.2	Aug 26	9.8	Aug 13	2.1	Sep 13	1985
INSTANTANEOUS PEAK FLOW	--		869	Jun 25	3410a	Jun 15	1963
INSTANTANEOUS PEAK STAGE	--		4.03	Jun 25	6.05	Jun 15	1963
ANNUAL RUNOFF (AC-FT)	72510		46440		61010		
10 PERCENT EXCEEDS	267		113		250		
50 PERCENT EXCEEDS	27		41		33		
90 PERCENT EXCEEDS	9.0		20		13		

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

YELLOWSTONE RIVER BASIN

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06323500 PINEY CREEK AT UCROSS, WY

LOCATION.--Lat 44°33'45", long 106°32'25", in SW¼ NW¼ SE¼ sec.18, T.53 N., R.80 W., Sheridan County, Hydrologic Unit 10090206, at Ucross, 140 ft upstream from bridge on U.S. Highways 14 and 16, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 04...	1650	33	22.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 14...	1205	59	12.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

06324000 CLEAR CREEK NEAR ARVADA, WY

LOCATION.--Lat 44°52'18", long 106°04'56", in SE¼ sec.36, T.57 N., R.77 W., Sheridan County, Hydrologic Unit 10090206, 600 ft downstream from Cabin Creek, 1.8 mi upstream from mouth, and 16 mi north of Arvada.

DRAINAGE AREA.--1,110 mi², approximately.

PERIOD OF RECORD.--Water years 1949-54, 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 05...	1440	34	19.0	<0.01	0.11	<0.01	<0.01	<0.01	<0.01
SEP 14...	1010	90	12.5	<0.01	0.06	<0.01	<0.01	<0.01	<0.01

YELLOWSTONE RIVER BASIN
06324500 POWDER RIVER AT MOORHEAD, MT

LOCATION.--Lat 45°04'04", long 105°52'10", in NW¼ SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929 (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.--Estimated daily discharges: Oct. 28 to Nov. 12 and Nov. 29 to Feb. 28. Records good except those for period of estimated daily discharges, which are poor. Some regulation by three reservoirs in Wyoming with combined usable capacity of 36,800 acre-ft. Diversions for irrigation of about 66,300 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 30, 1923, reached a stage of 19 ft, site and datum used 1931-56, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	e95	e80	e200	e320	311	219	321	54	1210	526	112
2	138	e90	e150	e220	e290	319	219	347	50	1210	466	98
3	149	e85	e200	e210	e280	313	218	376	47	1300	406	93
4	152	e100	e280	e210	e280	301	218	371	80	2540	367	88
5	157	e130	e350	e210	e280	317	212	360	124	1740	352	106
6	173	e120	e320	e210	e270	342	217	361	139	1230	348	120
7	178	e140	e300	e190	e260	344	226	341	158	997	414	137
8	181	e160	e280	e190	e250	338	226	272	158	893	440	142
9	181	e180	e270	e230	e270	352	230	229	161	820	339	161
10	187	e200	e260	e300	e260	360	235	202	201	762	277	178
11	192	e220	e250	e300	e240	334	257	184	203	751	238	173
12	188	e700	e240	e270	e270	306	271	196	188	694	195	177
13	186	538	e220	e230	e300	288	274	162	180	674	165	170
14	174	465	e200	e180	e300	282	253	129	166	760	156	160
15	174	374	e190	e140	e310	277	242	112	391	735	139	151
16	168	328	e190	e180	e280	283	255	157	1860	693	135	155
17	170	300	e170	e160	e270	292	286	147	2900	712	163	152
18	174	298	e180	e200	e270	295	371	121	2560	609	124	171
19	174	263	e180	e240	e300	297	419	100	1610	517	96	184
20	167	277	e170	e300	e320	300	447	87	1290	471	89	189
21	169	291	e180	e300	e300	278	486	75	1740	448	156	176
22	169	323	e180	e280	e320	269	445	71	1220	641	163	160
23	182	390	e170	e260	e320	270	434	69	1100	1180	132	155
24	185	354	e170	e280	e350	294	394	149	1390	1750	112	146
25	194	170	e190	e280	e400	280	367	134	1210	1450	111	144
26	202	255	e190	e270	e480	263	351	88	1330	953	122	140
27	227	353	e200	e270	e580	259	335	97	1410	805	142	143
28	e150	316	e190	e280	e580	245	324	95	1260	747	146	166
29	e120	e280	e200	e280	493	238	313	74	1340	895	137	180
30	e90	e250	e200	e280	---	235	314	63	1460	708	142	174
31	e100	---	e190	e330	---	227	---	62	---	619	133	---
TOTAL	5192	8045	6540	7480	9443	9109	9058	5552	25980	29514	6931	4501
MEAN	167	268	211	241	326	294	302	179	866	952	224	150
MAX	227	700	350	330	580	360	486	376	2900	2540	526	189
MIN	90	85	80	140	240	227	212	62	47	448	89	88
AC-FT	10300	15960	12970	14840	18730	18070	17970	11010	51530	58540	13750	8930

YELLOWSTONE RIVER BASIN
06324500 POWDER RIVER AT MOORHEAD, MT--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)*												
MEAN	208	215	156	148	278	632	511	1045	1376	474	169	145
MAX	700	491	326	445	1200	2290	1313	5553	4131	2500	1219	686
(WY)	1941	1930	1981	1981	1930	1947	1965	1978	1967	1937	1941	1982
MIN	16.1	80.0	56.2	27.2	20.9	210	117	82.6	39.5	33.9	.60	1.28
(WY)	1955	1936	1933	1950	1933	1935	1961	1934	1954	1961	1966	1960
SUMMARY STATISTICS												
				FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1930 - 1992*		
ANNUAL TOTAL					181386.3			127345				
ANNUAL MEAN					497			348			447	
HIGHEST ANNUAL MEAN					--			--			1091	
LOWEST ANNUAL MEAN					--			--			109	
HIGHEST DAILY MEAN					3880			2900			27500	
LOWEST DAILY MEAN					8.3			47			.00	
ANNUAL SEVEN-DAY MINIMUM					11			61			.00	
INSTANTANEOUS PEAK FLOW					--			6410			33000a	
INSTANTANEOUS PEAK STAGE					--			6.94			17.70b	
INSTANTANEOUS LOW FLOW					--			42				
ANNUAL RUNOFF (AC-FT)					359800			252600			323500	
10 PERCENT EXCEEDS					1520			709			1030	
50 PERCENT EXCEEDS					233			240			212	
90 PERCENT EXCEEDS					67			122			44	

* During period of operation (1930-72, 1975-92).

a Gage height, 15.24 ft.

b Ice jam, site and datum then in use.

e Estimated.

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 are available in files of District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1986-90): Maximum daily, 4,150 microsiemens, July 17, 1988; minimum daily, 642 microsiemens, May 20, 1988.

WATER TEMPERATURE (water years 1951-53, 1956-57, 1975-81): Maximum daily, 33.0°C, July 13, 1981; minimum daily, 0.0°C on many days during winter.

SEDIMENT CONCENTRATION: Maximum daily mean, 53,500 mg/L, May 27, 1980; minimum daily mean, 5 mg/L, Sept. 15, 1975.

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

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 27,800 mg/L, July 4; minimum daily mean, 30 mg/L, June 1.

SEDIMENT LOAD: Maximum daily, 191,000 tons, July 4; minimum daily, 4.4 tons, June 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	CLOUD COVER (PER- CENT)	WEATHER (WMO CODE NUMBER)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
22...	1500	176	--	--	1900	5.0	6.0	--	--	--
MAR										
03...	1530	307	0	0	1650	11.0	9.0	1020	845	91
APR										
16...	1530	260	--	1	1610	16.0	14.5	439	308	93
JUN										
03...	1500	42	100	63	2190	15.5	21.5	50	5.7	41
17...	1615	3120	60	1	1370	22.0	17.0	21600	182000	87
JUL										
29...	1500	821	25	1	1060	24.5	23.0	6860	15200	91
SEP										
17...	1415	155	75	1	1610	16.0	15.5	126	53	98

DATE	TIME	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
JUN							
03...	1500	<0.01	<0.01	0.01	<0.01	<0.01	0.03
SEP							
17...	1415	<0.01	0.06	<0.01	<0.01	<0.01	<0.01

DAY	MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)	
	LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)		LOADS (T/DAY)	
OCTOBER												
NOVEMBER												
DECEMBER												
JANUARY												
FEBRUARY												
MARCH												
1											1090	915
2											1060	913
3											1030	870
4											970	788
5											1000	856
6											1140	1050
7											1130	1050
8											1020	931
9											1070	1020
10											1400	1360
11											1350	1220
12											1290	1070
13											1160	902
14											890	678
15											840	628
16											950	726
17											1030	812
18											950	757
19											980	786
20											990	802
21											900	676
22											820	596
23											870	634
24											1030	818
25											980	741
26											870	618
27											950	664
28											960	635
29											760	488
30											667	423
31											610	374
TOTAL											---	24801
APRIL												
MAY												
JUNE												
JULY												
AUGUST												
SEPTEMBER												
1	570	337	495	429	30	4.4	8500	27800	3500	4970	226	68
2	540	319	490	459	53	7.2	7350	24000	2730	3430	200	53
3	492	290	535	543	50	6.3	7400	26000	1990	2180	187	47
4	422	248	550	551	35	7.6	27800	191000	1400	1390	187	44
5	389	223	532	517	105	35	21800	102000	1100	1050	178	51
6	398	233	620	604	151	57	15600	51800	1050	987	163	53
7	450	275	723	666	226	96	10800	29100	2000	2240	157	58
8	385	235	656	482	262	112	6700	16200	4150	4930	178	68
9	380	236	560	346	241	105	4000	8860	3600	3300	203	88
10	425	270	470	256	274	149	2800	5760	3440	2570	178	86
11	567	393	465	231	226	124	2100	4260	2960	1900	149	70
12	538	394	475	251	166	84	1550	2900	2050	1080	149	71
13	495	366	315	138	140	68	1180	2150	1260	561	162	74
14	470	321	225	78	155							

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

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.
DRAINAGE AREA.--1,235 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR WY-77-1: Drainage area. WDR WY-78-1: 1976(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31, Nov. 29 to Dec. 3, Jan. 14-17, 24, 25, June 20, 22-30, and July 2-14. Records fair except those for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of about 80 acres downstream from station. Flow occasionally affected by contributions from mine dewatering.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 17	0530	*123	*4.51	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.86	.81	.19	1.8	2.6	1.1	.86	.50	6.3	1.5	.00
2	.00	.87	.81	.19	2.0	2.5	1.1	.74	.49	4.8	.82	.00
3	.00	.86	.82	.19	2.0	2.7	1.1	.83	.42	3.5	.64	.00
4	.00	.42	.87	.16	1.9	2.7	.98	1.0	.39	2.4	.28	.00
5	.00	.26	.98	.21	1.9	2.8	.97	1.0	.43	1.6	.09	.00
6	.00	.33	1.1	.35	1.6	2.9	.86	.98	.46	.95	.05	.01
7	.00	.47	1.2	.40	1.6	2.6	.88	.97	.44	.59	.03	.01
8	.00	.50	1.2	.42	1.7	2.5	.83	.79	.36	.44	.02	.01
9	.00	.70	1.1	.15	1.7	3.1	.83	.80	.36	.38	.01	.01
10	.00	1.0	1.1	.20	1.7	2.5	.91	1.5	.30	.37	.01	.00
11	.00	1.1	1.2	.30	1.6	2.0	1.0	1.5	.14	.35	.00	.00
12	.00	1.0	1.0	.40	1.5	1.6	1.1	1.5	.08	1.8	.00	.00
13	.01	.91	.98	.39	1.5	1.5	1.0	1.6	.09	3.8	.00	.00
14	.01	1.3	.98	.26	1.8	1.3	.94	1.6	.09	1.8	.00	.00
15	.01	1.0	.98	.15	2.1	1.1	.77	1.6	.12	.78	.00	.01
16	.00	1.6	.98	.07	2.2	.99	.73	1.5	3.3	.32	.00	.01
17	.01	2.1	.93	.12	1.9	1.2	.76	1.6	83	.19	.00	.01
18	.01	2.1	.64	.09	2.0	1.2	1.1	1.5	36	.09	.00	.01
19	.01	1.7	.69	.06	1.8	1.1	1.3	1.1	18	.14	.00	.01
20	.01	.98	.81	.07	2.4	1.0	1.4	.86	9.0	.08	.00	.01
21	.01	.91	.82	.11	2.2	.99	1.3	.65	6.5	.16	.00	.01
22	.01	.86	.78	.16	2.5	1.0	1.0	1.0	5.2	.13	.00	.00
23	.01	.70	.78	.13	2.6	1.0	1.0	1.0	4.3	.15	.00	.00
24	.01	.67	.69	.33	2.0	.80	.90	.99	3.5	.78	.00	.00
25	.01	.87	.60	.38	2.3	.74	.84	.97	2.7	22	.00	.00
26	.01	1.0	.51	.63	2.9	.76	.74	.76	2.3	33	.00	.00
27	.01	1.1	.61	.67	2.9	.78	.64	.66	2.3	11	.00	.01
28	.01	1.1	.53	.70	2.9	.99	.59	.72	2.1	5.7	.00	.01
29	.01	1.0	.44	1.0	2.3	1.1	.73	.60	2.0	7.6	.00	.01
30	.02	.86	.39	1.2	---	1.3	.83	.46	2.1	4.7	.00	.01
31	.10	---	.32	1.4	---	1.3	---	.47	---	2.8	.00	---
TOTAL	0.28	29.13	25.65	11.08	59.8	50.65	28.23	32.11	186.97	118.70	3.45	0.15
MEAN	.009	.97	.83	.36	2.06	1.63	.94	1.04	6.23	3.83	.11	.005
MAX	.10	2.1	1.2	1.4	2.9	3.1	1.4	1.6	83	33	1.5	.01
MIN	.00	.26	.32	.06	1.5	.74	.59	.46	.08	.08	.00	.00
AC-FT	.6	58	51	22	119	100	56	64	371	235	6.8	.3

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

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

MEAN	5.75	2.34	1.79	7.54	16.7	51.7	18.3	64.8	27.6	10.0	4.67	4.82
MAX	36.4	20.4	5.63	89.0	97.2	613	58.5	703	187	68.8	28.3	60.8
(WY)	1987	1987	1987	1974	1983	1978	1977	1978	1984	1982	1982	1986
MIN	.009	.015	.21	.10	.46	1.34	.75	1.04	2.11	.044	.000	.002
(WY)	1992	1982	1982	1991	1989	1981	1981	1992	1988	1980	1991	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1973 - 1992			
ANNUAL TOTAL	1498.28				546.20				--			
ANNUAL MEAN	4.10				1.49				18.1			
HIGHEST ANNUAL MEAN	--				--				127			1978
LOWEST ANNUAL MEAN	--				--				1.49			1992
HIGHEST DAILY MEAN	185	May 13			83	Jun 17			5000	May 19 1978		
LOWEST DAILY MEAN	.00	Jul 29			.00	Several days			.00	Several days,		
										some years		
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 29			.00	Several days			.00	Several days,		
										some years		
INSTANTANEOUS PEAK FLOW	--				123	Jun 17			5300a	May 19 1978		
INSTANTANEOUS PEAK STAGE	--				4.51	Jun 17			11.63b	Mar 20 1978		
ANNUAL RUNOFF (AC-FT)	2970				1080				13090			
10 PERCENT EXCEEDS	7.8				2.5				28			
50 PERCENT EXCEEDS	.81				.78				2.1			
90 PERCENT EXCEEDS	.00				.00				.02			

a Gage height, 11.62 ft.

b Backwater from ice.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV 07...	1100	0.50	5200	3.5	1100	200	140	950	13	30
JAN 24...	0925	0.25	5500	0.5	1400	280	160	830	10	30
MAY 04...	1500	1.1	4700	23.0	870	150	120	650	10	24
SEP 21...	1130	0.01	2500	15.5	430	65	66	430	9	16

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
NOV 07...	540	2700	43	0.9	6.6	4400	5.98	5.93	0.3	<0.03
JAN 24...	660	2500	120	1.0	12	4330	5.89	2.92	<0.1	<0.03
MAY 04...	340	1700	64	0.8	4.8	2920	3.97	8.66	<1.0	<0.03
SEP 21...	410	900	14	1.2	3.8	1740	2.37	0.05	0.4	<0.03

Reservoirs in Yellowstone River basin in Wyoming

06224500 BULL LAKE.--Lat 43°12'35", long 109°02'30", in E½ NW¼ 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 National Geodetic Vertical Datum of 1929 (Bureau of Reclamation datum).

REMARKS, reservoir is formed by rockfill dam completed by Bureau of Reclamation July 22, 1938. Capacity, 152,500 acre-ft below elevation 5,805.00 ft, top of spillway gates. Dead storage, 722 acre-ft. Figures given herein represent total contents. Water is used for irrigation near Riverton. COOPERATION, records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 154,200 acre-ft, Aug. 10, 1965, elevation, 5,805.70 ft; minimum daily contents (since appreciable storage was attained), 5,540 acre-ft, Mar. 15, 1950, elevation, 5,742.56 ft.

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 126,600 acre-ft, Aug. 1, elevation, 5,796.54 ft; minimum daily contents, 52,200 acre-ft, Sept. 30, elevation, 5,767.56 ft.

06258900 BOYSEN RESERVOIR.--Lat 43°25'00", long 108°10'37", in NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929 (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, 705,900 acre-ft, Oct. 1, elevation, 4,719.86 ft; minimum daily contents, 535,100 acre-ft, May. 25, elevation, 4,709.35 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 National Geodetic Vertical Datum of 1929 (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, 7,830 acre-ft, July 23, elevation, 6,413.80 ft; minimum daily contents, 106 acre-ft, Feb. 21, elevation, 6,347.00 ft.

06281500 BUFFALO BILL RESERVOIR.--Lat 44°30'05", long 109°11'00", in NE¼ 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 National Geodetic Vertical Datum of 1929 (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, 507,000 acre-ft, June 15, 1918, elevation, 5,367.3 ft; maximum elevation, 5,370.00 ft, July 8, 1991; minimum daily contents, 19,000 acre-ft, Jan 23-25, 1941, elevation, 5,225.3 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 423,200 acre-ft, July 8, elevation, 5,364.16 ft; minimum daily contents, 245,000 acre-ft, Jan. 24, elevation, 5,333.76 ft.

YELLOWSTONE RIVER BASIN

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Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06224500 BULL LAKE			
Sept. 30	5,781.69	85,700	-
Oct. 31	5,780.47	82,600	-3,100
Nov. 30	5,781.38	84,900	+2,300
Dec. 31	5,781.84	86,000	+1,100
CAL YR 1991	-	-	-6,100
Jan. 31	5,781.95	86,300	+300
Feb. 29	5,781.87	86,100	-200
Mar. 31	5,781.98	86,400	+300
Apr. 30	5,781.38	84,900	-1,500
May 31	5,780.14	81,700	-3,200
June 30	5,791.16	111,100	+29,400
July 31	5,796.51	126,500	+15,400
Aug. 31	5,784.45	92,800	-33,700
Sept. 30	5,767.56	52,200	-40,600
WTR YR 1992	-	-	-33,500
06258900 BOYSEN RESERVOIR			
Sept. 30	4,719.91	706,700	-
Oct. 31	4,718.50	681,800	-24,900
Nov. 30	4,717.96	672,400	-9,400
Dec. 31	4,715.23	626,300	-46,100
CAL YR 1991	-	-	+32,600
Jan. 31	4,711.64	569,500	-56,800
Feb. 29	4,710.39	550,600	-18,900
Mar. 31	4,711.28	564,000	+13,400
Apr. 30	4,710.79	556,600	-7,400
May 31	4,709.87	542,800	-13,800
June 30	4,712.76	586,800	+44,000
July 31	4,714.98	662,200	+75,400
Aug. 31	4,713.49	598,300	-63,900
Sept. 30	4,712.67	585,400	-12,900
WTR YR 1992	-	-	-121,300

YELLOWSTONE RIVER BASIN

Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992			
Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06260300 ANCHOR RESERVOIR			
Sept. 30	6,464.60	609	-
Oct. 31	6,360.00	414	-195
Nov. 30	6,362.00	492	+78
Dec. 31	6,351.00	170	-322
CAL YR 1991	-	-	-125
Jan. 31	6,347.80	117	-53
Feb. 29	6,347.00	106	-11
Mar. 31	6,350.00	148	+42
Apr. 30	6,359.60	400	+252
May 31	6,366.40	701	+301
June 30	6,405.00	5,420	+4,719
July 31	6,411.80	7,240	+1,820
Aug. 31	6,392.70	3,270	-3,970
Sept. 30	6,367.90	784	-2,486
WTR YR 1992	-	-	+175
06281500 BUFFALO BILL RESERVOIR			
Sept. 30	5,339.70	275,000	-
Oct. 31	5,335.19	252,000	-23,000
Nov. 30	5,335.33	252,700	+700
Dec. 31	5,334.55	248,800	-3,900
CAL YR 1991	-	-	+85,300
Jan. 31	5,333.82	245,300	-3,500
Feb. 29	5,334.72	249,700	+4,400
Mar. 31	5,337.78	265,000	+15,300
Apr. 30	5,335.80	255,000	-10,000
May 31	5,344.43	300,900	+45,900
June 30	5,362.18	410,200	+109,300
July 31	5,362.27	410,700	+500
Aug. 31	5,349.64	331,100	-79,600
Sept. 30	5,338.82	270,400	-60,700
WTR YR 1992	-	-	-4,600

CHEYENNE RIVER BASIN
06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY

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LOCATION.--Lat 43°39'20", long 104°54'20", in SW¼ SE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 14-23, 25, Dec. 27 to Jan. 3, Jan. 8, 13-24, Feb. 11, 12, July 25-28, and Aug. 1-16. Records good except those less than 1 ft³/s, which are fair and December to March, July, and August, which are poor. Numerous small stock water reservoirs upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 2	1300	* 43	*3.59	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.01	.04	.01	.01	.01	.01	.00	.01	.27	.00
2	.00	.01	.01	.01	.01	.02	.01	.01	.00	11	.05	.00
3	.00	.01	.01	.02	.01	.05	.01	.01	.00	4.5	.03	.00
4	.00	.01	.01	.03	.01	.05	.01	.01	.00	1.7	.50	.00
5	.00	.01	.01	.01	.01	.11	.01	.01	.00	.77	.27	.00
6	.00	.01	.01	.02	.01	.13	.01	.01	.00	.38	.05	.00
7	.00	.01	.01	.03	.01	.13	.01	.01	.00	.17	.03	.00
8	.00	.01	.01	.02	.01	.19	.01	.01	.00	.07	.02	.00
9	.00	.01	.01	.01	.01	.25	.01	.01	.00	.01	.01	.00
10	.00	.01	.01	.01	.01	.17	.01	.01	.00	.00	.00	.00
11	.00	.01	.01	.01	.01	.18	.01	.01	.00	.02	.00	.00
12	.00	.01	.01	.01	.01	.20	.01	.01	.00	.17	.00	.00
13	.00	.01	.01	.00	.01	.20	.01	.01	.00	.27	.00	.00
14	.00	.01	.00	.00	.01	.16	.01	.01	.00	1.7	.00	.00
15	.00	.01	.00	.00	.01	.16	.01	.01	.00	1.5	.00	.00
16	.00	.01	.00	.00	.01	.15	.01	.01	.00	.61	.00	.00
17	.00	.01	.00	.00	.01	.09	.01	.01	.00	.28	.00	.00
18	.00	.01	.01	.00	.01	.05	.01	.01	.00	.16	.00	.00
19	.00	.01	.02	.01	.01	.05	.01	.01	.00	.06	.00	.00
20	.00	.01	.03	.03	.01	.05	.01	.01	.00	.05	.00	.00
21	.00	.01	.05	.05	.01	.03	.01	.01	.00	.05	.00	.00
22	.00	.01	.05	.02	.01	.02	.01	.00	.00	.03	.00	.00
23	.00	.01	.03	.04	.01	.02	.02	.00	.00	.02	.00	.00
24	.00	.01	.01	.05	.01	.01	.02	.00	.00	.01	.00	.00
25	.00	.01	.02	.01	.01	.01	.02	.00	.00	.98	.00	.00
26	.00	.01	.01	.01	.01	.01	.02	.00	.00	.58	.00	.00
27	.01	.01	.01	.01	.01	.01	.02	.00	.00	.25	.00	.00
28	.01	.01	.03	.02	.01	.01	.02	.00	.00	.08	.00	.00
29	.01	.01	.04	.01	.01	.01	.01	.00	.00	.92	.00	.00
30	.01	.01	.03	.01	---	.01	.01	.00	.00	2.5	.00	.00
31	.01	---	.02	.01	---	.01	---	.00	---	1.2	.00	---
TOTAL	0.05	0.30	0.49	0.50	0.29	2.55	0.36	0.21	0.00	30.05	1.23	0.00
MEAN	.002	.010	.016	.016	.010	.082	.012	.007	.000	.97	.040	.000
MAX	.01	.01	.05	.05	.01	.25	.02	.01	.00	11	.50	.00
MIN	.00	.01	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00
AC-FT	.1	.6	1.0	1.0	.6	5.1	.7	.4	.00	60	2.4	.00

CHEYENNE RIVER BASIN
06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

MEAN	.035	.017	.027	.011	.25	1.72	.079	19.0	2.19	2.25	2.01	.010
MAX	.24	.090	.11	.050	1.96	10.8	.44	114	8.07	8.18	6.82	.064
(WY)	1978	1979	1979	1981	1990	1978	1990	1978	1991	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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1977 - 1992
ANNUAL TOTAL	1763.43	36.03	--
ANNUAL MEAN	4.83	.098	2.33
HIGHEST ANNUAL MEAN	--	--	11.8
LOWEST ANNUAL MEAN	--	--	.003
HIGHEST DAILY MEAN	343 May 12	11 Jul 2	1570 May 18
LOWEST 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	--	43 Jul 2	3030a May 18
INSTANTANEOUS PEAK STAGE	--	3.59 Jul 2	9.02 May 18
ANNUAL RUNOFF (AC-FT)	3500	71	1690
10 PERCENT EXCEEDS	.86	.07	.50
50 PERCENT EXCEEDS	.01	.01	.00
90 PERCENT EXCEEDS	.00	.00	.00

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

WATER-QUALITY RECORDS

REMARKS.--No flow observed Jan. 11, Aug. 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible][illegible][illegible][illegible][illegible]

CHEYENNE RIVER BASIN

06386400 CHEYENNE RIVER AT RIVERVIEW, WY

LOCATION.--Lat 43°25'41", long 104°11'45", in NW¼ NE¼ SW¼ sec.21, T.40 N., R.61 W., Niobrara County, Hydrologic Unit 10120106, at bridge on U.S. Highway 85, 0.5 mi north of Riverview, 0.9 mi upstream from Bobcat Creek, 4.7 mi upstream from former gaging station, and 30 mi south of Newcastle.

DRAINAGE AREA.--5,160 mi², approximately.

PERIOD OF RECORD.--Water years 1951-54, 1969-70, 1972 to current year. Published as South Fork Cheyenne River near Spencer prior to October 1951, as Cheyenne River near Spencer 1952-76, and as Cheyenne River near Riverview 1977-79.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 11...	1000	0.50	19.5	<0.01	0.30	<0.01	<0.01	<0.01	<0.01
SEP 21...	1730	0.06	17.5	<0.01	0.08	<0.01	<0.01	<0.01	<0.01

CHEYENNE RIVER BASIN
06392900 BEAVER CREEK AT MALLO CAMP, NEAR FOUR CORNERS, WY

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LOCATION.--Lat 44°05'06", long 104°03'36", in SE¼ NE¼ NE¼ sec.4, T.47 N., R.60 W., Weston County, Hydrologic Unit 10120107, on right bank in Mallo Campgrounds, 250 ft upstream from mouth, 750 ft upstream from dam on Stockade Beaver Creek, and 3.8 mi east of Four Corners.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--October 1974 to September 1982 and April 1991 to current year.

REVISED RECORD.--WDR-85-1: 1981, 1982.

GAGE.--Water-stage recorder. Elevation of gage is 6,030 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1974 to September 1982 at site 50 ft upstream and datum 3.11 ft lower.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 8, Nov. 24, 25, Dec. 2-7, Dec. 12 to Jan. 22, and Feb. 5-8.

Records good except those for estimated daily discharges, which are poor. No diversions upstream from station. EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*) during period of operation:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0700	ice jam	*a1.15	No peak greater than base discharge.			
Sept. 10	1400	*4.1	1.10				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.1	1.4	1.4	1.5	1.6	1.3	1.6	1.4	1.4	1.2	1.5
2	1.7	.97	1.5	1.5	1.6	1.6	1.3	1.5	1.4	1.5	1.3	1.4
3	1.8	1.2	1.5	1.6	1.6	1.6	1.3	1.5	1.3	1.4	1.4	1.4
4	1.8	1.4	1.7	1.6	1.5	1.7	1.3	1.5	1.3	1.4	1.3	1.4
5	1.7	1.6	1.7	1.6	1.5	1.7	1.3	1.5	1.4	1.4	1.3	1.3
6	1.8	1.5	1.8	1.6	1.5	1.7	1.3	1.5	1.4	1.4	1.4	1.4
7	1.8	1.5	1.9	1.5	1.4	1.7	1.2	1.5	1.4	1.4	1.3	1.4
8	1.7	1.6	1.8	1.4	1.5	1.6	1.2	1.5	1.3	1.3	1.3	1.3
9	1.7	1.8	1.7	1.5	1.6	1.4	1.2	1.6	1.3	1.3	1.3	1.3
10	1.7	1.7	1.7	1.6	1.6	1.4	1.3	1.7	1.3	1.4	1.3	1.4
11	1.7	1.7	1.5	1.5	1.6	1.5	1.4	1.5	1.4	1.4	1.3	1.3
12	1.8	1.7	1.4	1.4	1.6	1.5	1.3	1.5	1.3	1.7	1.3	1.3
13	1.7	1.7	1.4	1.2	1.6	1.4	1.3	1.5	1.3	1.6	1.3	1.3
14	1.7	1.7	1.2	1.3	1.6	1.4	1.3	1.5	1.4	1.5	1.3	1.2
15	1.7	1.7	1.3	1.4	1.6	1.4	1.3	1.5	1.8	1.4	1.3	1.2
16	1.7	1.7	1.4	1.6	1.6	1.5	1.3	1.5	1.5	1.4	1.4	1.1
17	1.7	1.7	1.4	1.4	1.6	1.5	1.3	1.5	1.6	1.4	1.3	1.1
18	1.7	1.7	1.4	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.3	1.1
19	1.7	1.7	1.4	1.7	1.4	1.4	1.5	1.5	1.5	1.4	1.4	1.1
20	1.8	1.7	1.4	1.6	1.6	1.4	1.5	1.4	1.6	1.4	1.3	1.1
21	1.8	1.8	1.5	1.5	1.6	1.4	1.9	1.4	1.6	1.5	1.3	1.0
22	1.8	1.7	1.5	1.6	1.6	1.2	1.6	1.6	1.5	1.4	1.4	1.0
23	1.8	1.7	1.5	1.7	1.6	1.4	1.6	1.5	1.4	1.4	1.8	1.1
24	1.8	1.4	1.5	1.7	1.5	1.3	1.5	1.3	1.4	1.3	1.4	1.1
25	1.8	1.7	1.5	1.7	1.6	1.3	1.5	1.3	1.4	1.3	1.3	1.1
26	1.8	1.8	1.5	1.6	1.7	1.2	1.6	1.4	1.5	1.3	1.4	1.0
27	1.8	1.7	1.5	1.6	1.6	1.3	1.7	1.4	1.4	1.3	1.2	1.0
28	1.8	1.7	1.5	1.6	1.6	1.2	1.7	1.4	1.4	1.3	1.1	1.0
29	1.7	1.7	1.5	1.6	1.7	1.2	1.6	1.3	1.4	1.2	1.1	1.2
30	1.5	1.3	1.4	1.6	---	1.2	1.6	1.5	1.3	1.2	1.3	1.0
31	1.1	---	1.3	1.6	---	1.2	---	1.4	---	1.2	1.4	---
TOTAL	53.3	47.87	46.7	47.8	45.6	44.4	42.7	45.8	42.7	42.9	41.0	36.1
MEAN	1.72	1.60	1.51	1.54	1.57	1.43	1.42	1.48	1.42	1.38	1.32	1.20
MAX	1.8	1.8	1.9	1.7	1.7	1.7	1.9	1.7	1.8	1.7	1.8	1.5
MIN	1.1	.97	1.2	1.2	1.4	1.2	1.2	1.3	1.3	1.2	1.1	1.0
AC-FT	106	95	93	95	90	88	85	91	85	85	81	72

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

MEAN	1.78	1.63	1.58	1.50	1.69	1.79	2.13	2.23	2.30	2.08	1.92	1.82
MAX	2.32	2.35	2.23	2.17	2.51	2.70	3.41	3.44	4.05	3.09	2.89	2.78
(WY)	1979	1981	1980	1979	1979	1979	1979	1978	1980	1979	1978	1978
MIN	.31	.47	.44	.49	.46	.71	1.25	1.23	1.38	1.38	.75	.62
(WY)	1977	1977	1977	1977	1977	1977	1977	1977	1977	1992	1976	1976

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1975 - 1992

ANNUAL TOTAL	536.87	--	
ANNUAL MEAN	1.47	1.89	
HIGHEST ANNUAL MEAN	--	2.59	1979
LOWEST ANNUAL MEAN	--	.94	1977
HIGHEST DAILY MEAN	1.9	Dec 7, Apr 21	6.9 Apr 26 1975
LOWEST DAILY MEAN	.97	Nov 2	.23 Oct 14 1976
ANNUAL SEVEN-DAY MINIMUM	1.0	Sep 21	.25 Oct 10 1976
INSTANTANEOUS PEAK FLOW	4.1	Sep 10	21 Apr 26 1975
INSTANTANEOUS PEAK STAGE	1.15a	Nov 6	5.40b Apr 26 1975
ANNUAL RUNOFF (AC-FT)	1060		1370
10 PERCENT EXCEEDS	1.7		2.7
50 PERCENT EXCEEDS	1.5		1.9
90 PERCENT EXCEEDS	1.2		1.1

a Maximum recorded, backwater from ice, may have been exceeded during periods of estimated daily discharge.

b Site and datum then in use.

CHEYENNE RIVER BASIN
06392950 STOCKADE BEAVER CREEK NEAR NEWCASTLE, WY

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LOCATION.--Lat 43°51'32", long 104°06'24", in SW¼ SE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. October 1974 to September 1982, at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 2, 3 and Jan. 15, 16. Records good. A few small diversions upstream from station for irrigation.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 5	0430	*51	*7.76	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	12	12	11	12	11	11	5.7	8.0	6.2	12
2	11	11	12	12	11	12	11	10	6.0	11	4.1	11
3	12	12	12	12	11	12	11	10	5.0	8.9	4.2	10
4	13	12	12	12	11	12	11	10	6.9	7.4	4.8	10
5	12	12	12	12	11	12	11	8.3	8.5	16	4.6	11
6	12	12	12	12	11	12	11	7.2	7.6	8.6	4.8	11
7	12	11	12	12	11	12	11	10	6.8	8.8	4.8	11
8	12	11	12	12	11	12	11	7.5	7.0	8.8	4.6	11
9	12	12	12	12	11	12	11	5.5	5.9	8.6	4.8	11
10	12	12	12	12	11	12	11	6.4	5.4	8.6	4.8	11
11	12	12	12	12	11	11	12	6.3	5.5	8.4	4.8	11
12	12	11	12	12	11	12	11	9.9	5.2	9.2	4.7	11
13	12	12	12	12	11	11	11	8.2	4.7	9.6	5.0	11
14	12	11	11	12	12	11	11	6.0	4.9	8.1	5.9	11
15	12	12	12	10	11	11	11	5.9	8.0	8.1	6.0	11
16	11	12	12	12	11	11	11	5.1	6.5	8.7	6.3	9.9
17	11	12	12	12	11	11	11	4.5	6.0	8.1	6.8	10
18	11	12	12	12	11	12	11	4.4	5.5	7.1	6.7	9.6
19	11	11	12	12	11	12	14	4.7	5.7	6.7	6.7	9.5
20	11	12	12	12	11	12	12	4.0	5.3	7.3	6.8	8.8
21	11	12	12	12	11	12	12	3.9	5.1	8.2	7.1	6.0
22	11	12	12	12	11	12	12	5.8	5.4	8.9	7.3	6.5
23	11	12	12	11	13	12	12	4.7	5.6	9.0	9.0	6.2
24	11	11	12	12	11	12	12	5.4	6.0	8.8	8.0	6.3
25	11	12	12	12	11	11	12	5.4	5.9	8.8	8.3	6.6
26	11	12	12	12	11	11	11	4.5	6.1	8.5	8.8	7.1
27	11	12	12	12	11	11	11	4.3	5.5	8.2	8.2	7.3
28	11	12	12	12	11	11	11	4.4	5.1	8.0	7.8	7.1
29	11	12	12	11	11	11	11	3.9	5.5	7.6	7.3	8.3
30	11	12	12	11	---	11	11	5.4	5.4	6.9	7.4	9.4
31	11	---	11	11	---	11	---	7.2	---	6.7	9.5	---
TOTAL	355	353	370	366	322	359	340	199.8	177.7	265.6	196.1	282.6
MEAN	11.5	11.8	11.9	11.8	11.1	11.6	11.3	6.45	5.92	8.57	6.33	9.42
MAX	13	12	12	12	13	12	14	11	8.5	16	9.5	12
MIN	11	11	11	10	11	11	11	3.9	4.7	6.7	4.1	6.0
AC-FT	704	700	734	726	639	712	674	396	352	527	389	561

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	12.1	12.7	12.7	12.3	12.7	13.5	12.4	9.20	10.7	10.2	10.5	11.3						
MAX	14.1	14.8	14.4	14.8	14.4	15.7	16.5	12.3	12.5	13.2	13.8	13.5						
(WY)	1975	1977	1976	1977	1977	1979	1975	1978	1991	1975	1979	1979						
MIN	9.40	10.1	10.4	9.52	11.0	11.2	9.53	6.45	5.92	8.24	6.33	8.89						
(WY)	1982	1982	1982	1980	1981	1982	1981	1992	1992	1981	1992	1991						

SUMMARY STATISTICS

	FOR 1992 WATER YEAR	WATER YEARS 1975 - 1992
ANNUAL TOTAL	3586.8	---
ANNUAL MEAN	9.80	11.7
HIGHEST ANNUAL MEAN	---	13.0
LOWEST ANNUAL MEAN	---	9.80
HIGHEST DAILY MEAN	16	58
LOWEST DAILY MEAN	3.9	3.9
ANNUAL SEVEN-DAY MINIMUM	4.6	4.6
INSTANTANEOUS PEAK FLOW	51	361a
INSTANTANEOUS PEAK STAGE	7.76	9.87b
ANNUAL RUNOFF (AC-FT)	7110	8480
10 PERCENT EXCEEDS	12	14
50 PERCENT EXCEEDS	11	12
90 PERCENT EXCEEDS	5.5	8.4

a From rating curve extended above 18 ft³/s on basis of culvert-backwater computations, gage height, 9.35 ft.
b Backwater from ice.

DRAINAGE AREA.--1,320 mi², approximately.

PERIOD OF RECORD.--February to September 1943, October 1944 to current year.

REVISED RECORDS.--WSP 1209: 1943, 1946, 1948-49.

GAGE.--Water-stage recorder. Elevation of gage is 3,660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1945, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 12, Nov. 18-20, and Nov. 22 to Mar. 2. Records good except those for estimated daily discharges, which are poor. There are many small reservoirs upstream from station used for storage of stock and irrigation water, total capacity, about 11,000 acre-ft. Diversions for irrigation of about 4,900 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 29	0900	*180	*4.23	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.8	8.6	12	16	17	6.7	2.1	2.3	5.5	8.9	3.7
2	11	6.4	9.6	11	17	18	6.9	2.1	2.0	7.4	5.9	11
3	8.2	6.8	11	12	18	18	4.3	2.1	1.7	6.8	4.8	8.4
4	6.1	7.6	12	13	17	18	1.4	2.1	1.7	6.7	3.3	5.0
5	9.9	9.0	14	13	16	20	2.7	2.1	2.3	7.5	3.0	2.7
6	13	8.6	16	13	15	19	2.3	2.2	4.6	12	3.2	2.0
7	13	10	19	12	14	19	2.0	2.4	2.2	75	3.2	1.7
8	12	13	20	13	13	22	1.6	2.6	2.2	59	2.5	1.5
9	12	15	19	11	13	25	1.3	2.9	3.9	17	1.8	1.2
10	12	18	18	9.4	12	21	1.9	3.9	3.7	12	1.4	1.1
11	12	20	17	11	12	19	3.1	3.8	3.8	9.5	1.6	1.2
12	12	20	16	12	11	19	2.8	3.7	3.0	9.6	1.2	1.1
13	11	20	13	13	12	19	3.4	3.9	9.6	13	.92	1.0
14	11	19	11	12	13	19	3.7	3.0	3.3	9.1	.68	.98
15	12	18	13	11	14	17	3.0	3.7	10	32	.54	.95
16	12	18	14	10	15	17	2.2	3.2	17	23	.51	1.0
17	12	18	14	8.6	16	17	2.3	3.4	9.3	18	.48	.99
18	12	16	15	10	16	15	2.4	2.2	7.4	12	.46	.93
19	12	16	15	11	16	15	5.8	2.2	10	12	.45	.99
20	12	20	14	12	15	16	11	2.1	8.4	10	.44	1.1
21	12	16	13	13	14	13	12	1.9	7.4	22	.51	1.1
22	12	14	12	14	13	12	9.9	4.0	6.4	13	.51	1.2
23	12	12	13	14	14	11	6.3	4.2	5.8	6.9	1.6	1.3
24	12	10	14	13	16	11	2.7	3.4	5.0	5.2	3.1	1.5
25	9.9	8.6	13	13	15	10	2.3	3.7	4.8	8.2	2.2	1.5
26	7.8	10	12	13	14	10	2.3	3.7	4.9	7.8	4.8	1.3
27	13	11	12	14	15	9.8	2.2	2.4	14	6.9	5.3	1.3
28	12	9.8	13	14	15	8.3	2.2	2.2	5.4	11	3.4	1.9
29	10	9.0	13	14	16	7.8	2.3	2.0	5.6	61	2.6	2.1
30	8.7	7.8	12	15	---	7.7	2.2	1.9	4.7	9.3	2.3	2.2
31	7.4	---	12	14	---	7.0	---	2.2	---	8.0	2.8	---
TOTAL	342.0	394.4	428.2	381.0	423	477.6	115.2	87.3	172.4	516.4	74.40	63.94
MEAN	11.0	13.1	13.8	12.3	14.6	15.4	3.84	2.82	5.75	16.7	2.40	2.13
MAX	13	20	20	15	18	25	12	4.2	17	75	8.9	11
MIN	6.1	6.4	8.6	8.6	11	7.0	1.3	1.9	1.7	5.2	.44	.93
AC-FT	678	782	849	756	839	947	228	173	342	1020	148	123

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1992, BY WATER YEAR (WY)

	1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300	
MEAN	11.2	10.2	9.82	10.3	29.5	75.7	31.8	50.8	70.6	33.2	16.3	9.09																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1945 - 1992	
ANNUAL TOTAL	19161.6		3475.84		--	
ANNUAL MEAN	52.5		9.50		29.9	
HIGHEST ANNUAL MEAN	--		--		130	
LOWEST ANNUAL MEAN	--		--		5.13	
HIGHEST DAILY MEAN	2800	Jun 1	75	Jul 7	6550	Jun 16 1962
LOWEST DAILY MEAN	2.3	Sep 6	.44	Aug 20	.00	Several years
ANNUAL SEVEN-DAY MINIMUM	2.6	Jul 20	.48	Aug 16	.00	Several years
INSTANTANEOUS PEAK FLOW	--	--	180	Jul 29	11900a	Jun 16 1962
INSTANTANEOUS PEAK STAGE	--	--	4.23	Jul 29	19.98	Jun 16 1962
ANNUAL RUNOFF (AC-FT)	38010	--	6890	--	21640	--
10 PERCENT EXCEEDS	45	--	17	--	49	--
50 PERCENT EXCEEDS	12	--	9.8	--	8.6	--
90 PERCENT EXCEEDS	3.5	--	1.6	--	.50	--

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

CHEYENNE RIVER BASIN
06395000 CHEYENNE RIVER AT EDMONT, SD

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LOCATION.--Lat 43°18'20", long 103°49'14", in SW¼ SE¼ SE¼ 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. 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. U.S. Bureau of Reclamation satellite data-collection platform at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 12, 1920, reached a stage of 13.0 ft and May 1, 1922, 14.0 ft, present datum, from floodmarks at railroad bridge.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	e6.0	e9.0	e8.0	e17	e60	e9.0	7.1	16	19	25	1.5
2	9.2	e5.8	e9.0	e9.0	e16	e60	e9.5	7.1	15	21	20	1.3
3	10	e5.8	e8.0	e10	e16	e60	e10	6.6	10	18	20	1.2
4	11	e6.0	e9.0	e10	e15	e50	e10	5.9	9.3	16	18	1.9
5	9.3	e8.0	e10	e10	e15	e50	e9.5	5.5	9.3	e16	15	3.4
6	7.3	e8.0	e10	e10	e15	e60	e9.5	4.3	7.5	e16	12	3.1
7	9.0	e7.3	e12	e10	e14	e50	8.2	4.2	6.9	e17	9.6	2.7
8	12	e7.0	e15	e10	e13	e50	10	3.3	5.9	e17	8.0	2.5
9	12	e8.0	e14	e10	e13	e48	9.2	4.8	5.0	e17	6.3	2.2
10	11	e8.0	e14	e10	e11	e40	8.5	9.1	3.9	e17	5.0	1.9
11	11	e8.0	e10	e10	e9.0	e40	14	6.5	2.6	e17	8.5	1.7
12	11	e9.0	e10	e10	e10	e45	13	6.5	2.4	e17	4.7	1.5
13	11	e10	e9.0	e10	e14	e44	11	6.4	1.9	e17	3.5	1.4
14	11	e10	e8.0	e10	e16	e40	10	4.9	2.0	e16	2.7	1.2
15	12	e10	e8.0	e10	e18	e35	8.8	4.6	7.6	15	2.1	1.0
16	11	e12	e8.0	e9.8	e19	e35	9.3	5.5	12	17	1.6	.91
17	12	e13	e7.0	e9.0	e18	e30	8.1	4.6	19	26	1.7	.80
18	11	e15	e6.0	e9.0	e18	e25	8.7	3.2	16	19	2.3	.70
19	12	e15	e6.0	e10	e19	e22	9.6	3.3	17	16	2.2	.61
20	12	e16	e6.0	e10	e19	e22	9.2	3.1	19	14	1.5	.52
21	13	e16	e6.0	e10	e20	e20	8.5	4.4	19	15	.44	.45
22	14	e17	e7.0	e9.0	e22	e19	e7.6	14	14	40	.44	.39
23	14	e15	e6.0	e8.0	e28	e18	e7.5	9.0	11	46	1.0	.34
24	14	e14	e6.0	e9.0	e28	e16	e7.2	6.6	11	25	1.0	.30
25	15	e14	e6.0	e9.0	e30	e15	e7.1	7.5	10	34	.89	.25
26	14	e15	e6.0	e10	e33	e13	e7.0	8.0	8.9	25	1.6	.21
27	13	e15	e7.0	e10	e40	13	e7.0	7.1	14	18	1.5	.18
28	9.7	e13	e7.0	e13	e50	15	e6.9	5.1	26	18	1.4	.16
29	6.6	e10	e7.0	e6.0	e50	15	e6.8	3.8	28	124	1.7	.14
30	e7.0	e10	e8.0	e16	---	e9.2	e6.6	3.5	24	115	1.9	.16
31	e6.0	---	e8.0	e17	---	e9.0	---	6.4	---	37	1.7	---
TOTAL	340.2	326.9	262.0	311.8	606.0	1028.2	267.3	181.9	354.2	845	183.27	34.62
MEAN	11.0	10.9	8.45	10.1	20.9	33.2	8.91	5.87	11.8	27.3	5.91	1.15
MAX	15	17	15	17	50	60	14	14	28	124	25	3.4
MIN	6.0	5.8	6.0	6.0	9.0	9.0	6.6	3.1	1.9	14	.44	.14
AC-FT	675	648	520	618	1200	2040	530	361	703	1680	364	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1929	16.3	202	1987	.000	1961
1930	11.4	51.0	1983	.023	1962
1931	7.33	32.3	1984	.000	1960
1932	6.61	34.0	1974	.000	1950
1933	32.5	156	1984	.000	1960
1934	110	379	1987	3.39	1961
1935	61.7	558	1955	.22	1961
1936	232	2192	1978	.27	1960
1937	269	2084	1962	1.76	1966
1938	134	806	1958	.15	1985
1939	70.5	388	1955	.000	1960
1940	29.0	275	1973	.000	1956

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1929-1932, 1947-1992
ANNUAL TOTAL	67043.50	4741.39	---
ANNUAL MEAN	184	13.0	92a
HIGHEST ANNUAL MEAN	---	---	434
LOWEST ANNUAL MEAN	---	---	12.0
HIGHEST DAILY MEAN	6110	Jun 2	24000
LOWEST DAILY MEAN	.00	Jan 21	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 21	.00
INSTANTANEOUS PEAK FLOW	---	341	28000
INSTANTANEOUS PEAK STAGE	---	2.58	13.65
ANNUAL RUNOFF (AC-FT)	133000	9400	66650
10 PERCENT EXCEEDS	296	25	150c
50 PERCENT EXCEEDS	12	10	10c
90 PERCENT EXCEEDS	.60	1.8	.10c

e Estimated.

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

b No flow at times most years.

c Data based on period 1947-92.

CHEYENNE RIVER BASIN
06426100 STONEPILE CREEK AT GILLETTE, WY

LOCATION.--Lat 44°17'18", long 105°28'35", in SW¼ NW¼ NE¼ sec.26, T.50 N., R.72 W., Campbell County, Hydrologic Unit 10120201, city of Gillette, on left bank 15 ft downstream from bridge on El Camino Road, 0.2 mi upstream from Interstate Highway 90, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--11.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1988 to September 1992 (discontinued). No winter records.

GAGE.--Water-stage recorder. Elevation of gage is 4,510 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Diversion to Burlington Lake upstream from the station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	---	---	---	---	---	.07	.05	.02	2.2	.01	.00
2	.02	---	---	---	---	---	.01	.04	.02	.19	.01	.00
3	1.8	---	---	---	---	---	.01	.03	.01	.06	.03	.50
4	.10	---	---	---	---	---	.02	.03	.04	.92	.02	.00
5	.01	---	---	---	---	---	.03	.19	1.1	.12	.02	.00
6	.01	---	---	---	---	---	.03	.03	.04	.07	.01	.19
7	.01	---	---	---	---	---	.03	.08	.08	.09	.01	.01
8	.01	---	---	---	---	---	.03	.07	2.1	.11	.01	.02
9	.02	---	---	---	---	---	.04	2.4	.13	.08	.01	.00
10	.01	---	---	---	---	---	1.8	.09	.07	.08	.01	.00
11	.01	---	---	---	---	---	1.0	.02	.65	.11	.02	.00
12	.01	---	---	---	---	---	.06	.01	.27	1.3	.00	.00
13	.01	---	---	---	---	---	.03	.01	.19	.06	.00	.00
14	.01	---	---	---	---	---	.03	.02	6.6	.06	.00	.00
15	.01	---	---	---	---	---	.03	.02	17	.02	.00	.00
16	.01	---	---	---	---	---	.12	1.1	.15	.01	.02	.00
17	.01	---	---	---	---	---	.31	.02	.19	.02	.00	.00
18	.01	---	---	---	---	---	3.0	.01	.15	.03	.02	.00
19	.01	---	---	---	---	---	1.1	.02	.15	.03	.04	.00
20	.02	---	---	---	---	---	.24	.04	.19	.02	.00	.00
21	.03	---	---	---	---	---	.05	.38	.34	23	.00	.00
22	.03	---	---	---	---	---	.05	1.3	.29	.07	.01	.00
23	.03	---	---	---	---	---	.26	.01	.26	.99	.64	.00
24	.04	---	---	---	---	---	.04	.01	.23	.76	.00	.15
25	.03	---	---	---	---	---	.03	.01	.29	.02	.00	1.5
26	.04	---	---	---	---	---	.05	.01	1.7	.01	.00	.00
27	.05	---	---	---	---	---	.05	.02	.23	.01	.00	.00
28	.14	---	---	---	---	---	.05	.01	.17	.09	.00	.00
29	.08	---	---	---	---	---	.22	.03	.17	.02	.00	.00
30	.05	---	---	---	---	---	.05	1.0	.37	.03	.00	.00
31	.07	---	---	---	---	---	---	.63	---	.02	.00	---
TOTAL	2.71	---	---	---	---	---	8.84	7.69	33.20	30.60	0.89	2.37
MEAN	.087	---	---	---	---	---	.29	.25	1.11	.99	.029	.079
MAX	1.8	---	---	---	---	---	3.0	2.4	17	23	.64	1.5
MIN	.01	---	---	---	---	---	.01	.01	.01	.01	.00	.00
AC-FT	5.4	---	---	---	---	---	18	15	66	61	1.8	4.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	.26	---	---	---	1.05
MAX	.54	---	---	---	2.35
(WY)	1990	---	---	---	1990
MIN	.087	---	---	---	.29
(WY)	1992	---	---	---	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

WATER YEAR 1992*

23 Jul 21

.00 Several days

.00 Several days

398a Jul 21

5.09 Jul 21

--

--

--

WATER YEARS 1988 - 1992*

26 Apr 27 1990

.00 Several days

.00 Several days

398a Jul 21 1992

5.11 Aug 7 1991

1.1

.08

.01

* During period of operation.

a Gage height, 5.09 ft, from rating curve extended above 40 ft³/s on basis of slope-conveyance study.

CHEYENNE RIVER BASIN

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06426100 STONEPILE CREEK AT GILLETTE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1988 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 07...	0730	0.09	1650	7.5	8.0	--	--	K10
MAY 04...	1745	E0.03	2190	7.7	21.5	--	--	--
JUN 08...	1415	0.01	1940	8.4	31.0	--	--	98
JUL 02...	1220	0.23	1060	7.7	17.5	11.3	140	K110

E-Estimate.

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

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
NOV 07...	0.20	0.01	0.21	0.30	0.40	0.7	0.03	<0.01
MAY 04...	--	0.44	--	0.61	2.0	2.6	<0.01	<0.01
JUN 08...	--	<0.01	<0.05	0.08	1.2	1.3	0.07	0.03
JUL 02...	0.52	0.06	0.58	0.17	0.73	0.9	0.12	0.07

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
NOV 07...	0730	0.09	62	0.02
MAR 04...	1530	0.02	144	0.01
MAR 30...	1505	0.02	139	0.01
MAY 04...	1745	E0.03	121	--
JUN 08...	1415	0.01	25	0.00
JUN 08...	1710	37	877	88
JUN 15...	1030	280	7890	5970
JUN 16...	0940	0.10	166	0.05
JUL 02...	1220	0.23	27	0.02
JUL 14...	1420	0.13	15	0.01
JUL 21...	1800	403	802	873

E-Estimate.

CHEYENNE RIVER BASIN
06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY

LOCATION.--Lat 44°17'44", long 104°58'35", in SE¼ SW¼ sec.24, T.50 N., R.68 W., Crook County, Hydrologic Unit 10120201, on left bank 150 ft upstream from Trail Creek, 1.9 mi downstream from Donkey Creek, and 2.6 mi northwest of Moorcroft.
DRAINAGE AREA.--1,643 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 4,119.2 ft above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Mar. 28, 1947, nonrecording gage, and Mar. 28, 1947, to Jan. 16, 1951, water-stage recorder at site 12 mi downstream at different datum. Jan. 17, 1951, to September 1970, at site 50 ft downstream at datum 0.8 ft lower.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 8, Nov. 19, Nov. 23 to Mar. 5, and Mar. 7, 9, 10. Records fair except those for estimated daily discharges, which are poor. Numerous small stockwater and soil conservation reservoirs upstream from station. Diversions for irrigation of about 660 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 360 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 6	1200	*1,170	*10.35	July 25	0130	364	6.40

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.67	4.0	.55	3.9	7.0	2.6	1.2	.72	.80	2.9	.10
2	.75	.54	3.5	.60	4.3	4.7	2.7	.81	.59	1.1	1.5	.10
3	.99	.25	2.0	.62	3.7	8.0	2.4	.70	.48	1.4	1.2	.07
4	1.4	.43	2.2	.70	3.2	15	2.4	.77	.42	1.5	.87	.11
5	.97	.80	2.4	.83	2.7	13	2.2	.88	.41	14	.67	.09
6	3.4	1.3	2.5	.99	2.4	11	2.2	.85	.29	847	1.8	.04
7	7.7	2.0	2.6	.90	2.2	8.6	2.0	.89	.23	130	1.3	.07
8	4.9	2.6	2.7	.80	2.0	7.8	1.9	.80	.18	33	1.0	.06
9	2.8	3.0	3.1	.84	2.1	6.9	1.6	.61	.13	14	.63	.07
10	2.6	3.2	3.8	.95	2.4	6.0	1.6	2.2	.09	8.6	.47	.07
11	2.1	3.5	4.1	.82	2.2	7.2	2.1	3.6	.40	5.8	.35	.04
12	2.1	3.9	4.1	.68	2.4	6.1	2.1	2.3	10	4.9	.23	.03
13	1.6	5.0	3.8	.56	2.9	5.6	1.8	1.3	21	5.2	.17	.03
14	1.6	6.5	3.0	.43	3.5	4.5	1.6	1.1	22	4.7	.13	.03
15	1.4	5.6	3.2	.34	4.2	4.2	1.4	.85	22	4.1	.09	.03
16	1.1	5.2	3.6	.38	4.1	4.0	1.2	.85	107	2.3	.06	.03
17	.80	5.0	1.7	.36	3.7	5.1	1.1	.86	67	2.2	.09	.03
18	1.7	5.1	.92	.39	3.4	3.7	1.3	.98	37	1.7	.14	.03
19	2.8	4.7	.79	.43	3.2	2.9	2.4	1.5	27	1.6	.10	.05
20	1.4	4.3	.68	.51	3.3	2.3	2.7	2.7	13	1.5	.10	.04
21	2.8	4.2	.64	.59	3.7	5.3	2.2	1.5	8.9	1.7	.10	.04
22	4.5	3.3	.67	.53	4.3	6.4	2.2	1.9	8.2	26	.10	.03
23	2.2	3.0	.64	.46	3.2	5.0	6.8	2.0	7.2	132	.20	.04
24	1.0	2.6	.61	.49	1.9	5.1	6.5	1.8	4.9	50	.25	.05
25	.63	2.7	.65	.53	1.5	4.9	5.4	1.5	3.3	133	.25	.22
26	2.6	2.9	.62	.62	1.3	5.3	4.6	1.1	2.5	20	.30	.15
27	6.4	3.1	.60	.69	1.7	4.5	4.4	1.1	2.4	18	.29	.13
28	2.3	2.9	.59	.81	2.2	3.5	4.1	1.4	1.5	8.5	.19	.10
29	1.0	3.3	.57	1.2	3.2	2.8	3.3	1.7	1.0	6.4	.11	.10
30	.71	4.4	.54	1.8	---	2.8	1.9	1.2	.88	5.3	.10	.10
31	.60	---	.51	2.9	---	2.6	---	.78	---	4.0	.10	---
TOTAL	67.80	95.99	61.33	23.30	84.8	181.8	80.7	41.73	370.72	1490.30	15.79	2.08
MEAN	2.19	3.20	1.98	.75	2.92	5.86	2.69	1.35	12.4	48.1	.51	.069
MAX	7.7	6.5	4.1	2.9	4.3	15	6.8	3.6	107	847	2.9	.22
MIN	.60	.25	.51	.34	1.3	2.3	1.1	.61	.09	.80	.06	.03
AC-FT	134	190	122	46	168	361	160	83	735	2960	31	4.1

CHEYENNE RIVER BASIN
06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)												
MEAN	2.39	.97	1.35	1.71	16.6	56.7	22.7	67.9	65.2	20.1	9.67	5.49
MAX	33.1	9.92	22.3	27.7	260	374	190	1057	509	72.5	49.8	63.5
(WY)	1987	1987	1956	1983	1962	1978	1944	1978	1964	1948	1953	1951
MIN	.000	.000	.000	.000	.000	.10	.000	.045	.097	.000	.000	.000
(WY)	1944	1944	1944	1944	1944	1951	1961	1958	1966	1954	1944	1944
SUMMARY STATISTICS												
	FOR 1991 CALENDAR YEAR					FOR 1992 WATER YEAR				WATER YEARS 1944 - 1992		
ANNUAL TOTAL	6301.87					2516.34				--		
ANNUAL MEAN	17.3					6.88				22.6		
HIGHEST ANNUAL MEAN	--					--				136		1978
LOWEST ANNUAL MEAN	--					--				1.14		1961
HIGHEST DAILY MEAN	972 May 21					847 Jul 6				10300 May 19 1978		
LOWEST DAILY MEAN	.00 Jan 1					.03 Sep 12-18,22				.00 Several days,		
										most years		
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 23					.03 Sep 12				.00 Several days,		
										most years		
INSTANTANEOUS PEAK FLOW	--					1170 Jul 6				15300a May 19 1978		
INSTANTANEOUS PEAK STAGE	--					10.35 Jul 6				14.60b May 19 1978		
ANNUAL RUNOFF (AC-FT)	12500					4990				16370		
10 PERCENT EXCEEDS	21					6.6				30		
50 PERCENT EXCEEDS	2.2					1.8				.60		
90 PERCENT EXCEEDS	.05					.11				.00		

a From rating curve extended above 11,000 ft³/s.
b From floodmark in gage shelter.

CHEYENNE RIVER BASIN

06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY--Continued
(National stream-quality accounting network station)

LOCATION.--Lat 44°17'44", long 104°58'35", in SE¼ SW¼ sec.24, T.50 N., R.68 W., Crook County, Hydrologic Unit 10120201, 150 ft upstream from Trail Creek, 1.9 mi downstream from Donkey Creek, and 2.6 mi northwest of Moorcroft.

DRAINAGE AREA.--1,643 mi².

PERIOD OF RECORD.--Water years 1947-57, 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 06...	1300	1.4	--	8.2	1.0	650	10	12.0	--	K24	650
DEC 10...	1040	4.1	2860	8.0	0.0	642	9.0	12.2	100	K16	410
MAR 30...	1600	2.8	2520	8.9	14.0	660	12	19.4	220	K5	65
MAY 05...	0945	0.82	2660	8.4	19.5	661	19	6.3	80	490	--
JUN 09...	0845	0.15	2960	8.2	15.5	655	15	4.4	52	680	1400
AUG 18...	0825	0.11	2440	8.2	16.0	662	46	6.0	71	83	160

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 06...	870	150	120	540	8	20	0	649	532	549	1200
DEC 10...	830	150	110	500	8	16	24	613	542	530	990
MAR 30...	620	91	94	340	6	11	54	222	272	251	950
MAY 05...	780	130	110	420	7	13	0	439	360	376	930
JUN 09...	700	100	110	430	7	14	0	537	440	408	980
AUG 18...	550	86	82	360	7	13	24	433	395	397	810

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 06...	180	1.7	3.1	2640	2550	3.59	9.98	0.09	0.08	3.40	3.40
DEC 10...	280	2.1	6.6	2290	2420	3.11	25.4	0.08	0.08	8.40	8.20
MAR 30...	140	1.0	0.8	1840	1790	2.50	13.9	0.01	<0.01	<0.05	<0.05
MAY 05...	150	1.1	1.5	2060	1970	2.80	4.56	--	--	--	--
JUN 09...	150	1.1	3.0	2090	2050	2.84	0.85	0.02	<0.01	<0.05	<0.05
AUG 18...	91	0.8	2.6	1650	1680	2.24	0.49	0.02	<0.01	<0.05	<0.05

CHEYENNE RIVER BASIN

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06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 06...	0.22	0.23	1.7	0.20	0.13	0.11	0.09	27	0.10	95
DEC 10...	0.58	0.59	2.0	1.20	1.10	1.00	1.00	16	0.18	96
MAR 30...	0.02	0.03	1.1	0.30	0.17	0.18	0.15	96	0.73	88
MAY 05...	--	--	--	--	--	--	--	263	0.58	90
JUN 09...	0.03	0.02	1.1	0.20	0.05	0.10	0.03	81	0.03	88
AUG 18...	0.06	0.04	0.80	0.06	<0.01	0.03	<0.01	289	0.09	98

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BAR- IUM, DIS- SOLVED (UG/L AS BA)	COBAL- T, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHI- UM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 06...	1300	10	<100	<1	20	60	140
MAR 30...	1600	10	<100	2	<10	70	90
MAY 05...	0945	<10	<100	2	20	60	470
AUG 18...	0825	<10	100	<1	<10	50	90

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 06...	11	5	1	<1.0	2400	7
MAR 30...	6	5	<1	<1.0	1900	6
MAY 05...	5	4	<1	<1.0	1900	6
AUG 18...	6	4	<1	<1.0	1600	5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUN 09...	0845	0.15	15.5	<0.01	<0.01	<0.01	0.26	<0.01	<0.01	--
AUG 18...	0825	0.11	16.0	0.04	0.08	<0.01	<0.01	<0.01	<0.01	0.03

06427000 KEYHOLE RESERVOIR NEAR MOORCROFT, WY

LOCATION.--Lat 44°22'55", long 104°46'45", in NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929 (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, 30,710 acre-ft, Mar. 15, elevation, 4,066.90 ft; minimum daily contents, 18,990 acre-ft, Sept. 30, elevation, 4,060.58 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,066.74	30,380	-
Oct. 31	4,066.46	29,790	-590
Nov. 30	4,066.58	30,040	+250
Dec. 31	4,066.57	30,020	-20
CAL YR 1991	-	-	-880
Jan. 31	4,066.59	30,060	+40
Feb. 29	4,066.68	30,250	+190
Mar. 31	4,066.89	30,690	+440
Apr. 30	4,066.79	30,480	-210
May 31	4,065.10	27,040	-3,440
June 30	4,064.41	25,700	-1,340
July 31	4,064.04	25,000	-700
Aug. 31	4,060.97	19,620	-5,380
Sept. 30	4,060.58	18,990	-630
WTR YR 1992	-	-	-11,390

CHEYENNE RIVER BASIN
06427500 BELLE FOURCHE RIVER BELOW KEYHOLE RESERVOIR, WY

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LOCATION.--Lat 44°23'18", long 104°46'12", in SE¼ NE¼ SW¼ sec.22, T.51 N., R.66 W., Crook County, Hydrologic Unit 10120201, on right bank 0.9 mi downstream from Keyhole Dam, 1.7 mi downstream from Mule Creek, 2.9 mi upstream from Spring Creek, and 12 mi northeast of Moorcroft.

DRAINAGE AREA.--1,954 mi².

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

REVISED RECORDS.--WDR WY-89-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,020 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 30, 1979, at site 0.7 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 26 to Mar. 4, and Aug. 24 to Sept. 1. Records fair except those for estimated daily discharges and those below 10 ft³/s, which are poor. Flow completely regulated by Keyhole Reservoir, 0.9 mi upstream, since February 1952. (See sta 06427000.)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.93	1.1	1.0	1.0	.95	1.1	.92	1.1	74	22	43
2	1.1	.94	1.2	1.0	1.0	.95	1.1	.93	1.1	74	22	1.6
3	1.1	1.2	1.2	1.0	1.0	.95	1.1	.94	1.1	73	22	1.6
4	1.1	1.2	1.2	1.0	1.0	.94	1.0	.95	1.2	73	25	1.7
5	1.1	1.1	1.1	1.0	1.0	1.0	1.1	.93	1.2	73	28	1.6
6	1.1	1.1	1.1	1.0	1.0	1.0	1.1	.96	1.2	74	28	1.7
7	1.0	1.1	1.2	1.0	1.0	.97	1.1	.91	1.2	74	29	1.5
8	1.0	.91	1.1	1.0	1.0	.97	1.0	.79	1.3	74	29	1.5
9	1.0	1.0	1.1	1.0	1.0	.96	1.0	.90	44	74	29	1.4
10	1.0	1.0	1.1	1.0	1.0	.96	1.0	.97	116	74	69	1.4
11	1.0	1.0	1.1	1.0	1.0	1.0	1.0	47	87	74	100	1.4
12	1.1	1.0	1.1	1.0	1.0	1.0	1.0	109	53	74	99	1.4
13	1.2	1.0	1.0	1.0	1.0	.96	1.0	109	53	75	99	1.4
14	1.2	1.0	1.0	1.0	1.0	.98	1.0	99	53	75	99	1.4
15	1.1	.97	1.0	1.0	1.0	.99	1.0	87	54	46	98	1.4
16	1.1	.93	1.0	1.0	1.0	1.0	1.0	86	46	27	98	1.4
17	1.1	.96	1.0	1.0	1.0	1.1	1.0	85	38	27	98	1.4
18	1.0	1.0	1.1	1.0	1.0	.99	1.0	85	38	28	106	1.4
19	1.0	1.0	1.1	1.0	1.0	.99	1.0	87	38	28	115	1.4
20	1.0	1.0	1.1	1.0	1.0	1.0	1.0	86	38	28	116	1.4
21	1.0	1.1	1.1	1.0	1.0	1.0	1.0	83	38	28	116	1.4
22	1.1	1.1	1.1	1.0	1.0	.98	.95	79	39	28	116	1.4
23	1.1	.98	1.1	1.0	1.0	.95	.93	79	39	29	115	1.4
24	1.1	.99	1.1	1.0	1.0	.95	.93	79	39	30	115	1.3
25	1.1	1.0	1.1	1.0	1.0	.96	.92	79	39	30	98	1.6
26	1.1	1.0	1.1	1.0	1.0	1.0	.92	76	41	30	80	1.3
27	1.1	1.1	1.1	1.0	1.0	1.1	.94	1.5	40	30	80	1.2
28	1.1	1.1	1.1	1.0	1.0	1.1	.93	1.0	40	29	80	1.2
29	1.0	1.1	1.1	1.0	1.0	1.1	.92	1.0	40	29	80	1.2
30	.93	1.0	1.0	1.0	---	1.1	.92	1.0	55	26	80	1.4
31	.93	---	1.0	1.0	---	1.1	---	1.1	---	22	80	---
TOTAL	33.06	30.81	33.8	31.0	29.0	31.00	29.96	1369.80	1077.4	1530	2371	84.4
MEAN	1.07	1.03	1.09	1.00	1.00	1.00	1.00	44.2	35.9	49.4	76.5	2.81
MAX	1.2	1.2	1.2	1.0	1.0	1.1	1.1	109	116	75	116	43
MIN	.93	.91	1.0	1.0	1.0	.94	.92	.79	1.1	22	22	1.2
AC-FT	66	61	67	61	58	61	59	2720	2140	3030	4700	167

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	MEAN	2.40	1.61	1.52	1.48	4.38	18.5	14.9	35.2	36.8	68.4	68.6	17.6
MAX	20.8	8.70	5.56	3.65	120	423	154	459	317	195	307	126	
(WY)	1973	1955	1955	1955	1962	1972	1962	1978	1978	1981	1980	1955	
MIN	.50	.12	.10	.000	.000	.33	.34	.45	.54	.62	.70	.45	
(WY)	1962	1952	1952	1952	1952	1952	1952	1952	1959	1961	1961	1959	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1951 - 1992
ANNUAL TOTAL	7954.37	6651.23	--
ANNUAL MEAN	21.8	18.2	23.0
HIGHEST ANNUAL MEAN	--	--	80.6
LOWEST ANNUAL MEAN	--	--	1.75
HIGHEST DAILY MEAN	137 Jul 29	116 Jun 10, Aug 20-22	1350 May 24 1978
LOWEST DAILY MEAN	.91 Nov 8	.79 May 8	.00 Several days, 1951-52
ANNUAL SEVEN-DAY MINIMUM	.98 Nov 11	.91 May 3	.00 Several days, 1951-52
INSTANTANEOUS PEAK FLOW	--	116 Jun 10	1410 May 23 1978
INSTANTANEOUS PEAK STAGE	--	6.21 Jun 10	10.65a May 23 1978
ANNUAL RUNOFF (AC-FT)	15780	13190	16670
10 PERCENT EXCEEDS	114	79	95
50 PERCENT EXCEEDS	1.2	1.1	1.7
90 PERCENT EXCEEDS	1.0	.97	.60

a Present site and datum.

CHEYENNE RIVER BASIN

06427850 BELLE FOURCHE RIVER AT DEVILS TOWER, WY

LOCATION.--Lat 44°35'22", long 104°42'12", in NW¼ SE¼ SE¼ sec.7, T.53 N., R.65 W., Crook County, Hydrologic Unit 10120201, at bridge 0.2 mi west of entrance to Devils Tower National Monument.

PERIOD OF RECORD.--Water years 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY 05...	1820	4.1	22.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 09...	1430	4.2	24.0	0.06	0.39	<0.01	0.08	<0.01	<0.01
JUL 15...	0825	68	21.0	0.06	0.06	0.10	<0.01	<0.01	<0.01

06428050 BELLE FOURCHE RIVER BELOW HULETT, WY

LOCATION.--Lat 44°42'04", long 104°35'07", in SW¼ NE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY 06...	0750	4.1	13.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
JUN 09...	1525	7.7	27.5	0.10	0.41	<0.01	0.14	<0.01	<0.01	--
JUL 15...	1005	65	20.0	0.04	0.08	0.08	<0.01	<0.01	<0.01	--
SEP 22...	1025	6.2	13.0	<0.01	0.42	<0.01	<0.01	<0.01	<0.01	<0.01

CHEYENNE RIVER BASIN
06428200 BELLE FOURCHE RIVER NEAR ALVA, WY

261

LOCATION.--Lat 44°47'22", long 104°28'51" in NE¼ NE¼ sec.1, T.55 N., R.64 W., Crook County, Hydrologic Unit 10120201, on right bank 0.3 mi downstream from Beaver Creek and 6.7 miles north of Alva.

DRAINAGE AREA.--2,948 mi².

PERIOD OF RECORD.--October 1988 to current year (no winter record).

GAGE.--Graphic water-stage recorder. Elevation of gage is 3,600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Major regulation by Keyhole Reservoir. Streamflow also affected by diversions for irrigation and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation are given below:

Oct. 2 . . . 11.0
Mar. 31 . . . 5.12

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	5.5	13	14	43	27	61
2	---	---	---	---	---	---	5.7	15	11	47	24	61
3	---	---	---	---	---	---	5.5	15	8.8	54	22	49
4	---	---	---	---	---	---	4.5	13	10	58	22	28
5	---	---	---	---	---	---	5.2	11	8.3	59	22	21
6	---	---	---	---	---	---	5.3	8.3	8.8	59	19	16
7	---	---	---	---	---	---	5.2	5.9	8.3	59	18	16
8	---	---	---	---	---	---	5.5	5.2	9.2	59	18	15
9	---	---	---	---	---	---	5.2	4.8	8.8	59	17	13
10	---	---	---	---	---	---	5.3	5.5	6.3	59	17	12
11	---	---	---	---	---	---	5.9	5.9	3.1	63	15	11
12	---	---	---	---	---	---	6.2	7.0	53	62	15	11
13	---	---	---	---	---	---	6.2	11	48	62	57	9.7
14	---	---	---	---	---	---	5.9	70	80	65	61	9.7
15	---	---	---	---	---	---	5.3	74	65	63	61	8.8
16	---	---	---	---	---	---	5.5	67	54	63	65	8.8
17	---	---	---	---	---	---	4.8	66	58	45	76	7.9
18	---	---	---	---	---	---	7.9	66	53	31	77	7.5
19	---	---	---	---	---	---	18	63	45	30	74	7.5
20	---	---	---	---	---	---	21	59	38	30	76	7.5
21	---	---	---	---	---	---	17	61	32	29	80	7.5
22	---	---	---	---	---	---	13	66	39	28	86	7.5
23	---	---	---	---	---	---	13	65	41	27	82	7.0
24	---	---	---	---	---	---	13	63	37	29	85	5.9
25	---	---	---	---	---	---	13	63	37	35	85	7.0
26	---	---	---	---	---	---	12	66	38	37	80	7.5
27	---	---	---	---	---	---	11	66	39	34	67	6.3
28	---	---	---	---	---	---	10	57	44	27	61	6.6
29	---	---	---	---	---	---	12	30	44	24	61	6.6
30	---	---	---	---	---	---	11	18	41	24	61	6.2
31	---	---	---	---	---	---	---	15	---	26	61	---
TOTAL	---	---	---	---	---	---	264.6	1155.6	982.6	1390	1592	449.5
MEAN	---	---	---	---	---	---	8.82	37.3	32.8	44.8	51.4	15.0
MAX	---	---	---	---	---	---	21	74	80	65	86	61
MIN	---	---	---	---	---	---	4.5	4.8	3.1	24	15	5.9
AC-FT	---	---	---	---	---	---	525	2290	1950	2760	3160	892

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)*

	1989	1990	1991	1992
MEAN	21.8	68.0	48.8	83.1
MAX	35.7	139	60.1	109
(WY)	1989	1991	1991	1989
MIN	8.82	37.3	32.8	44.8
(WY)	1992	1992	1992	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

86 Aug 22
3.1 Jun 11
--
117 Jun 14
2.22 Jun 14
--
--
--

WATER YEARS 1989 - 1992*

444 May 13 1991
3.1 Jun 11 1992
5.2 Apr 4 1992
1140a May 13 1991
6.15b Mar 10 1989
106
37
9.7

* During period of operation.

a Gage height, 4.77 ft.

b From floodmarks, backwater from ice.

CHEYENNE RIVER BASIN
06428500 BELLE FOURCHE RIVER AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°44'59", long 104°02'49", in NE¼ NW¼ NW¼ 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.

DRAINAGE AREA.--3,280 mi², approximately.

PERIOD OF RECORD.--December 1946 to current year. Records for water year 1947 incomplete, yearly estimate published in WSP 1729.

GAGE.--Water-stage recorder. Datum of gage is 3,095.7 ft above sea level.

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. U.S. Bureau of Reclamation satellite data-collection platform at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	e6.0	e14	e8.0	e8.0	e19	11	15	29	45	21	63
2	15	e6.0	e14	e5.5	e9.0	e19	11	15	22	44	20	61
3	14	e7.0	e13	e8.0	e10	e20	11	15	16	43	21	62
4	14	e10	e13	e5.5	e12	20	11	16	15	49	20	62
5	14	e16	e16	e4.0	e16	21	10	16	13	55	18	51
6	14	e18	e18	e4.0	e16	22	10	17	10	55	17	37
7	14	e12	e20	e4.0	e16	21	10	15	9.6	55	16	30
8	15	e18	e22	e3.5	e16	21	10	14	11	55	15	24
9	13	e23	e22	e5.0	e14	22	10	13	12	54	13	20
10	13	e22	e22	e5.0	e12	21	11	13	12	54	12	18
11	13	e22	e20	e5.0	e10	22	11	12	11	61	11	17
12	13	e22	e20	e5.0	e9.0	21	11	11	11	67	11	15
13	12	e22	e18	e6.0	e9.5	19	11	11	12	65	9.9	13
14	11	e30	e18	e4.0	e10	18	13	10	56	59	9.7	12
15	11	e28	e16	e2.5	e10	17	12	10	62	61	43	11
16	12	e26	e16	e2.5	e14	17	11	51	77	58	53	11
17	12	e28	e18	e3.0	e17	17	11	67	64	54	62	9.2
18	11	e30	e16	e4.0	e19	17	12	61	56	52	69	8.7
19	11	e28	e16	e5.0	e18	17	26	62	58	40	72	8.5
20	11	e20	e18	e8.0	e16	17	29	60	47	32	71	8.2
21	11	e18	e16	e7.5	e18	17	26	57	42	29	64	8.0
22	11	15	e16	e7.5	e14	16	26	57	42	30	75	7.7
23	11	15	e14	e7.5	e24	16	25	60	37	27	83	7.6
24	11	14	e14	e7.5	e18	15	22	64	45	27	83	7.1
25	11	e16	e14	e8.0	e22	14	20	59	39	53	83	7.4
26	12	e18	e14	e8.0	e26	13	18	58	37	35	86	7.1
27	12	16	e12	e9.0	e22	13	17	59	34	36	85	7.2
28	9.1	16	e8.0	e10	e20	12	17	57	35	35	81	6.9
29	e4.5	e16	e9.0	e10	e19	12	16	54	42	44	67	7.0
30	e4.5	e14	e10	e10	---	11	15	48	48	35	63	6.8
31	e6.0	---	e12	e9.0	---	11	---	38	---	23	62	---
TOTAL	361.1	552.0	489.0	191.5	444.5	538	454	1115	1004.6	1432	1416.6	614.4
MEAN	11.6	18.4	15.8	6.18	15.3	17.4	15.1	36.0	33.5	46.2	45.7	20.5
MAX	15	30	22	10	26	22	29	67	77	67	86	63
MIN	4.5	6.0	8.0	2.5	8.0	11	10	10	9.6	23	9.7	6.8
AC-FT	716	1090	970	380	882	1070	901	2210	1990	2840	2810	1220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

	MEAN	24.6	20.1	15.6	14.0	27.7	137	151	210	180	93.0	75.4	33.6
MAX	118	65.9	41.0	59.4	117	931	823	1104	812	303	271	109	
(WY)	1972	1972	1974	1974	1962	1972	1971	1978	1984	1981	1980	1955	
MIN	.000	.000	.000	.000	.20	15.7	15.1	3.10	11.9	2.94	.10	.000	
(WY)	1955	1961	1961	1961	1959	1981	1992	1961	1961	1960	1961	1954	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1954 - 1992*
ANNUAL TOTAL	17537.60	8612.7	--
ANNUAL MEAN	48.0	23.5	82.2
HIGHEST ANNUAL MEAN	--	--	229
LOWEST ANNUAL MEAN	--	--	7.69
HIGHEST DAILY MEAN	623	86	3760
LOWEST DAILY MEAN	.60 Jan 1	2.5 Jan 15	.00 Jul 30 1954a
ANNUAL SEVEN-DAY MINIMUM	.71 Jan 1	3.9 Jan 12	.00 Jul 30 1954
INSTANTANEOUS PEAK FLOW	--	107 Jul 25b	4400 Jun 18 1962
INSTANTANEOUS PEAK STAGE	--	4.22 Feb 24c	15.59 Jun 18 1962
ANNUAL RUNOFF (AC-FT)	34790	17080	59550
10 PERCENT EXCEEDS	100	58	175
50 PERCENT EXCEEDS	22	16	32
90 PERCENT EXCEEDS	6.0	7.9	4.0

* Regulated period only (1954-92). See REMARKS.

a No flow at times some years.

b Gage height, 4.17 ft.

c Backwater from ice.

e Estimated.

CHEYENNE RIVER BASIN
06429500 COLD SPRINGS CREEK AT BUCKHORN, WY

263

LOCATION.--Lat 44°09'15", long 104°04'37", in NW¼ NW¼ SW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. October 1974 to September 1982, 200 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 9, Nov. 12, 20, 22-25, 27, Nov. 29 to Dec. 3, Dec. 11 to Feb. 20, Mar. 9, 10, 22, 23, and Apr. 1, 2. Records excellent except those for estimated daily discharges which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	.90	2.6	3.3	3.7	3.5	3.5	3.6	3.5	3.3	3.1	3.1
2	3.5	.80	2.8	3.5	3.5	3.5	3.6	3.6	3.5	3.3	3.0	3.1
3	3.5	1.0	2.9	3.5	3.4	3.5	3.7	3.5	3.5	3.3	3.0	3.1
4	3.5	1.2	3.0	3.5	3.5	3.6	3.7	3.5	3.5	3.3	3.0	3.1
5	3.5	1.4	3.4	3.5	3.5	3.6	3.8	3.5	3.5	3.4	3.0	3.2
6	3.5	1.7	3.5	3.5	3.4	3.5	3.7	3.5	3.5	3.2	3.1	3.3
7	3.5	2.2	3.5	3.4	3.4	3.6	3.6	3.5	3.5	3.1	3.0	3.4
8	3.5	2.6	3.5	3.3	3.3	3.5	3.6	3.5	3.4	3.1	3.0	3.3
9	3.5	3.5	3.5	3.4	3.4	3.3	3.6	3.5	3.4	3.2	3.0	3.3
10	3.5	3.8	3.5	3.5	3.5	3.4	3.6	3.6	3.5	3.1	3.0	3.1
11	3.5	3.8	3.2	3.5	3.4	3.5	3.7	3.5	3.5	3.1	3.0	3.1
12	3.5	3.8	3.4	3.4	3.4	3.5	3.6	3.5	3.5	3.3	3.0	3.1
13	3.5	3.7	3.2	3.3	3.4	3.5	3.6	3.5	3.5	3.2	3.0	3.1
14	3.5	3.6	3.1	3.2	3.5	3.5	3.6	3.5	3.5	3.1	3.1	3.1
15	3.5	3.6	3.3	3.0	3.6	3.5	3.6	3.5	3.6	3.1	3.1	3.1
16	3.5	3.6	3.5	3.1	3.5	3.6	3.6	3.5	3.5	3.1	3.1	3.1
17	3.5	3.6	3.3	3.1	3.3	3.6	3.6	3.5	3.6	3.1	3.1	3.1
18	3.5	3.6	3.5	3.1	3.2	3.5	3.3	3.4	3.5	3.1	3.1	3.1
19	3.5	3.6	3.4	3.1	3.3	3.5	1.2	3.4	3.5	3.1	3.1	3.1
20	3.5	3.9	3.3	3.2	3.4	3.5	1.3	3.4	3.5	3.1	3.1	3.1
21	3.5	3.5	3.4	3.2	3.5	3.5	2.9	3.5	3.5	3.2	3.1	3.1
22	3.5	3.4	3.4	3.3	3.5	3.5	3.6	3.6	3.5	3.1	3.1	3.1
23	3.5	3.1	3.4	3.3	3.5	3.5	3.5	3.5	3.5	3.1	3.3	3.0
24	3.5	3.4	3.4	3.4	3.0	3.6	3.5	3.5	3.5	3.1	3.1	3.0
25	3.5	3.6	3.4	3.5	3.5	3.6	3.5	3.5	3.5	3.1	3.1	3.0
26	3.5	3.5	3.4	3.5	3.5	3.6	3.5	3.5	3.5	3.1	3.3	3.0
27	3.5	3.3	3.4	3.5	3.5	3.7	3.5	3.5	3.5	3.1	3.2	3.0
28	1.8	3.5	3.4	3.6	3.5	3.7	3.5	3.5	3.3	3.1	3.1	3.0
29	3.6	3.3	3.4	3.7	3.5	3.6	3.5	3.5	3.3	3.1	3.1	3.0
30	3.0	2.8	3.3	3.8	---	3.6	3.5	3.5	3.3	3.1	3.1	3.0
31	1.8	---	3.2	3.8	---	3.6	---	3.5	---	3.1	3.1	---
TOTAL	104.7	89.30	102.5	105.0	99.6	109.7	102.0	108.6	104.4	97.8	95.5	93.2
MEAN	3.38	2.98	3.31	3.39	3.43	3.54	3.40	3.50	3.48	3.15	3.08	3.11
MAX	3.6	3.9	3.5	3.8	3.7	3.7	3.8	3.6	3.6	3.4	3.3	3.4
MIN	1.8	.80	2.6	3.0	3.0	3.3	1.2	3.4	3.3	3.1	3.0	3.0
AC-FT	208	177	203	208	198	218	202	215	207	194	189	185

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	4.48	4.39	4.41	4.19	4.33	4.49	4.78	4.50	4.67	4.57	4.76	4.58						
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	2.48	2.94	2.93	3.43	3.18	3.40	3.50	3.48	3.15	3.08	3.11						
(WY)	1975	1975	1975	1979	1992	1975	1992	1992	1992	1992	1992	1992						

SUMMARY STATISTICS

	FOR 1992 WATER YEAR	WATER YEARS 1975 - 1992
ANNUAL TOTAL	1212.30	---
ANNUAL MEAN	3.31	4.56
HIGHEST ANNUAL MEAN	---	5.37
LOWEST ANNUAL MEAN	---	3.31
HIGHEST DAILY MEAN	3.9 Nov 20	9.5 Apr 22 1980
LOWEST DAILY MEAN	.80 Nov 2	.80 Nov 2 1991
ANNUAL SEVEN-DAY MINIMUM	1.3 Oct 31	1.3 Oct 31 1991
INSTANTANEOUS PEAK FLOW	6.3a Apr 1	13b Apr 1 1981
INSTANTANEOUS PEAK STAGE	3.24c Nov 3	8.61c Jan 12 1978
ANNUAL RUNOFF (AC-FT)	2400	3300
10 PERCENT EXCEEDS	3.6	5.6
50 PERCENT EXCEEDS	3.5	4.6
90 PERCENT EXCEEDS	3.0	3.4

a Gage height, 2.29 ft, release of anchor ice.

b Gage height, 4.98 ft, site and datum then in use.

c Backwater from ice.

CHEYENNE RIVER BASIN
06429905 SAND CREEK NEAR RANCH A, NEAR BEULAH, WY

LOCATION.--Lat 44°31'07", Long 104°04'57", in SE¼ SE¼ SW¼ sec.5, T.52 N., R.60 W., Crook County, Hydrologic Unit 10120303, on right bank 1.0 mi upstream from Bear Gulch and 1.8 mi south of Beulah.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--October 1976 to September 1983, April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,580 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1976 to September 1983, at site 500 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 2, 3 and Dec. 22 to Jan. 15. Records good except those for estimated daily discharges and those for March, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 700 ft³/s, June 15, 1976, gage height, 7.77 ft, site and datum then in use, from slope-area measurement of peak flow at site 3 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	17	16	18	15	15	16	16	15	15	15
2	16	17	16	17	18	15	15	15	16	16	14	15
3	17	17	16	17	18	14	15	15	16	15	14	15
4	17	17	17	17	18	15	15	15	16	15	14	15
5	16	18	16	17	18	15	15	15	16	15	14	15
6	16	18	16	17	17	15	15	15	16	15	14	15
7	17	18	17	16	17	15	15	15	16	15	14	16
8	16	18	17	15	17	14	15	15	15	15	14	15
9	17	18	17	16	17	13	15	16	15	15	14	15
10	17	17	17	17	17	12	15	16	15	15	14	15
11	16	17	18	16	17	14	16	16	15	15	14	15
12	17	17	18	15	17	14	15	15	16	15	14	15
13	16	17	17	15	17	13	15	15	16	15	14	15
14	16	17	17	14	17	13	15	15	16	15	14	15
15	17	17	17	14	17	14	15	15	16	15	14	15
16	17	17	17	15	17	15	15	15	16	15	14	15
17	17	17	17	15	17	15	15	15	16	15	14	15
18	17	17	17	15	16	14	16	15	15	15	14	15
19	17	16	16	16	16	16	16	15	15	15	14	15
20	17	15	17	16	16	16	16	15	15	16	14	15
21	17	15	17	16	16	15	16	15	16	16	15	15
22	17	16	17	16	16	15	16	16	16	16	15	15
23	17	16	16	17	15	15	16	16	15	16	15	15
24	17	16	16	18	14	16	16	16	15	15	15	15
25	17	16	16	18	15	16	16	16	15	15	15	16
26	17	16	17	18	15	16	15	16	15	15	15	15
27	17	15	16	18	15	16	15	16	15	15	15	15
28	17	17	16	18	15	16	15	16	15	15	15	15
29	17	17	16	18	15	15	15	16	15	15	15	15
30	17	16	16	18	---	15	15	16	15	15	15	15
31	17	---	15	18	---	15	---	16	---	15	15	---
TOTAL	520	502	515	509	478	457	459	479	465	470	446	452
MEAN	16.8	16.7	16.6	16.4	16.5	14.7	15.3	15.5	15.5	15.2	14.4	15.1
MAX	17	18	18	18	18	16	16	16	16	16	15	16
MIN	16	15	15	14	14	12	15	15	15	15	14	15
AC-FT	1030	996	1020	1010	948	906	910	950	922	932	885	897

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	22.5	22.4	21.8	21.2	20.0	20.5	21.6	30.0	25.5	23.7	21.5	21.1				
MAX	28.5	28.2	26.3	25.9	25.0	27.0	30.8	53.9	36.3	31.2	28.5	28.3				
(WY)	1978	1978	1979	1979	1977	1978	1978	1982	1978	1978	1978	1978				
MIN	15.7	16.7	16.6	16.3	15.2	14.7	15.3	15.5	15.5	15.2	14.4	15.1				
(WY)	1982	1982	1992	1982	1982	1992	1992	1992	1992	1992	1992	1992				

SUMMARY STATISTICS

	FOR 1992 WATER YEAR	WATER YEARS 1977 - 1992
ANNUAL TOTAL	5752	--
ANNUAL MEAN	15.7	23.1
HIGHEST ANNUAL MEAN	--	29.5
LOWEST ANNUAL MEAN	--	15.7
HIGHEST DAILY MEAN	18	322
LOWEST DAILY MEAN	12	12
ANNUAL SEVEN-DAY MINIMUM	13	13
INSTANTANEOUS PEAK FLOW	22a	514
INSTANTANEOUS PEAK STAGE	1.59b	7.35c
ANNUAL RUNOFF (AC-FT)	11410	16720
10 PERCENT EXCEEDS	17	29
50 PERCENT EXCEEDS	16	22
90 PERCENT EXCEEDS	15	16

a Gage height, 1.35 ft.

b Backwater from ice.

c Site and datum then in use.

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

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LOCATION.--Lat 44°34'35", long 104°03'20", in SW¼ SW¼ sec.7, T.7 N., R.1 E., Butte County, Hydrologic Unit 10120203, on right bank at State line and 12 mi southwest of Belle Fourche, SD.

PERIOD OF RECORD.--April 1987 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,440 ft above sea level, from topographic map. Prior to Apr. 23, 1987, published as 06430000 (below diversion at site 15 ft downstream).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Ditch diverts water from left bank of Redwater Creek, 2.0 mi upstream, for irrigation of about 700 acres. Flow maintained during irrigation season only.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	1.2	.00	e.00	e.00	e.00	e.00	.00	18	8.6	.00	6.9
2	10	1.2	.00	e.00	e.00	e.00	e.00	.00	17	8.5	.00	6.8
3	18	1.2	.00	e.00	e.00	e.00	e.00	.00	16	12	.00	6.7
4	16	.87	.00	e.00	e.00	e.00	.00	.00	16	19	.00	6.8
5	15	.00	.00	e.00	e.00	e.00	.00	.00	15	16	.00	8.6
6	29	.00	.00	e.00	e.00	e.00	.00	.00	19	10	3.1	7.0
7	21	.00	.00	e.00	e.00	e.00	.00	3.8	20	11	6.8	8.1
8	11	.00	.00	e.00	e.00	e.00	.00	6.2	16	12	6.9	2.6
9	7.8	.00	.00	e.00	e.00	e.00	.00	5.1	14	11	7.4	.26
10	7.2	.00	e.00	e.00	e.00	e.00	.00	.91	12	9.5	8.2	.00
11	6.6	.00	e.00	e.00	e.00	e.00	.00	2.1	9.1	8.5	8.4	4.5
12	9.4	.00	e.00	e.00	e.00	e.00	.00	3.4	10	8.6	8.6	6.9
13	19	.00	e.00	e.00	e.00	e.00	.00	6.6	9.8	8.6	8.5	6.4
14	25	.00	e.00	e.00	e.00	e.00	.00	7.5	8.0	8.2	8.4	6.9
15	20	.00	e.00	e.00	e.00	e.00	.00	7.4	8.1	8.0	8.7	6.7
16	6.4	.00	e.00	e.00	e.00	e.00	.00	8.3	7.2	6.9	8.7	6.7
17	6.2	.00	e.00	e.00	e.00	e.00	.00	7.6	6.3	6.6	8.6	6.7
18	6.6	.00	e.00	e.00	e.00	e.00	.00	7.0	5.8	7.3	8.4	6.4
19	8.7	.00	e.00	e.00	e.00	e.00	.00	7.0	5.9	7.6	8.7	6.7
20	9.4	.00	e.00	e.00	e.00	e.00	.00	8.7	6.1	7.0	8.7	6.7
21	9.8	.00	e.00	e.00	e.00	e.00	.00	7.5	7.7	6.6	7.6	6.2
22	8.0	.00	e.00	e.00	e.00	e.00	.00	7.3	9.6	6.3	6.9	6.1
23	5.7	.00	e.00	e.00	e.00	e.00	.00	7.7	11	6.2	7.7	6.1
24	5.7	.00	e.00	e.00	e.00	e.00	.00	8.2	11	7.5	8.7	6.0
25	5.6	.00	e.00	e.00	e.00	e.00	.00	9.1	11	4.9	8.6	6.8
26	5.5	.00	e.00	e.00	e.00	e.00	.00	10	11	4.2	8.7	8.5
27	5.5	.00	e.00	e.00	e.00	e.00	.00	10	11	4.3	8.7	8.7
28	5.3	.00	e.00	e.00	e.00	e.00	.00	10	11	4.1	8.7	8.3
29	5.5	.00	e.00	e.00	e.00	e.00	.00	13	11	.14	8.0	7.3
30	5.5	.00	e.00	e.00	---	e.00	.00	16	9.6	.05	6.7	7.0
31	3.6	---	e.00	e.00	---	e.00	---	15	---	.00	6.7	---
TOTAL	327.5	4.47	0.00	0.00	0.00	0.00	0.00	195.41	343.2	239.19	205.10	189.36
MEAN	10.6	.15	.000	.000	.000	.000	.000	6.30	11.4	7.72	6.62	6.31
MAX	29	1.2	.00	.00	.00	.00	.00	16	20	19	8.7	8.7
MIN	3.6	.00	.00	.00	.00	.00	.00	.00	5.8	.00	.00	.00
AC-FT	650	8.9	.00	.00	.00	.00	.00	388	681	474	407	376

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1991	1988	1988	1988	1988	1988	1988	1987	1991	1992	1990	1991
MEAN	7.95	.15	.000	.000	.000	.000	.011	1.86	8.48	11.6	11.1	8.63
MAX	20.6	.58	.000	.000	.000	.000	.054	6.30	13.9	16.4	18.2	16.4
(WY)	1991	1988	1988	1988	1988	1988	1988	1992	1988	1991	1991	1989
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.72	5.92	1.85
(WY)	1988	1988	1988	1988	1988	1988	1988	1987	1991	1992	1990	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1987 - 1992
ANNUAL TOTAL	1458.87	1504.23	---
ANNUAL MEAN	4.00	4.11	4.24
HIGHEST ANNUAL MEAN	---	---	4.83
LOWEST ANNUAL MEAN	---	---	3.18
HIGHEST DAILY MEAN	37 Aug 11	29 Oct 6	46 Oct 8 1990
LOWEST DAILY MEAN	.00 Jan 1	.00 Nov 5	.00 Apr 23 1987a
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Nov 5	.00 Apr 23 1987
ANNUAL RUNOFF (AC-FT)	2890	2980	3070
10 PERCENT EXCEEDS	15	10	15
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated.

a No flow for long periods each year.

CHEYENNE RIVER BASIN
06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°34'26", long 104°02'54", in NW¼ NW¼ 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 except those for estimated daily discharges, which are poor. Large diversions for irrigation upstream from station. Total flow passing State line may be obtained by adding flow of Murray ditch (see station 06429997).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	25	e25	26	26	25	24	23	4.8	11	20	15
2	5.4	e25	26	27	26	25	24	23	4.8	11	21	14
3	5.3	e25	25	27	25	25	25	23	4.7	12	23	12
4	5.3	28	26	26	26	25	25	22	4.9	11	21	13
5	5.3	26	26	26	25	25	24	18	5.1	10	21	13
6	8.8	26	26	27	26	25	23	16	5.4	10	14	19
7	10	25	26	26	25	25	23	11	5.8	11	9.7	18
8	11	25	25	26	25	25	23	6.9	5.9	11	9.6	24
9	13	25	25	26	25	25	23	9.3	6.5	11	9.4	23
10	15	25	25	27	25	24	24	16	7.2	13	10	23
11	18	25	25	27	25	24	25	13	11	16	9.9	17
12	17	25	26	26	25	25	25	10	10	14	8.2	12
13	17	25	26	26	25	24	24	9.9	11	14	8.5	14
14	17	26	25	26	25	24	24	10	14	10	12	14
15	18	25	25	e25	25	23	23	10	17	11	13	14
16	18	25	25	e25	25	23	23	11	22	15	14	13
17	18	25	25	26	25	24	23	10	23	13	15	14
18	17	25	26	26	25	24	21	10	21	13	15	13
19	18	25	26	26	25	24	24	9.1	21	13	13	13
20	18	25	26	26	25	24	24	8.9	21	13	11	13
21	18	25	26	27	25	24	24	7.8	20	13	10	13
22	18	26	26	26	25	24	23	9.3	17	9.7	9.4	13
23	18	25	26	26	26	24	24	8.5	13	11	11	13
24	18	25	26	26	25	24	24	9.1	13	15	13	13
25	17	25	26	26	25	24	24	9.7	13	17	13	14
26	17	25	26	26	25	24	23	9.0	13	16	14	14
27	17	25	26	26	25	24	23	11	13	17	16	14
28	22	26	26	26	25	24	22	11	13	18	17	14
29	26	26	26	26	25	24	23	9.9	13	26	16	14
30	e25	27	26	26	---	24	21	5.0	13	25	16	14
31	e25	---	26	26	---	24	---	4.8	---	24	16	---
TOTAL	482.2	761	796	810	730	752	705	365.2	367.1	434.7	429.7	447
MEAN	15.6	25.4	25.7	26.1	25.2	24.3	23.5	11.8	12.2	14.0	13.9	14.9
MAX	26	28	26	27	26	25	25	23	23	26	23	24
MIN	5.3	25	25	25	25	23	21	4.8	4.7	9.7	8.2	12
AC-FT	956	1510	1580	1610	1450	1490	1400	724	728	862	852	887

CHEYENNE RIVER BASIN
06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1992, BY WATER YEAR (WY)

MEAN	28.2	32.4	32.2	31.5	32.5	33.7	36.5	51.5	46.3	22.2	21.3	24.8
MAX	45.0	47.9	47.1	46.1	57.8	58.9	60.9	132	128	54.9	58.9	50.4
(WY)	1973	1974	1974	1974	1971	1978	1971	1965	1976	1976	1973	1973
MIN	14.2	20.8	22.8	21.6	23.7	22.1	18.8	7.44	6.29	7.62	6.78	11.8
(WY)	1991	1961	1991	1984	1962	1962	1981	1985	1961	1990	1985	1985

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1955 - 1992*	
ANNUAL TOTAL	8281.5		7079.9		--	
ANNUAL MEAN	22.7		19.3		32.7	
HIGHEST ANNUAL MEAN	--		--		56.0	
LOWEST ANNUAL MEAN	--		--		17.9	
HIGHEST DAILY MEAN	35	May 25	28	Nov 4	732	Jun 15 1976
LOWEST DAILY MEAN	3.1	Jul 15	4.7	Jun 3	1.3	May 22 1985a
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 14	4.9	May 30	1.9	May 21 1985
INSTANTANEOUS PEAK FLOW	--		32	Jul 29b	2440	Aug 22 1973c
INSTANTANEOUS PEAK STAGE	--		3.19	Jul 29d	12.19	Aug 22 1973
ANNUAL RUNOFF (AC-FT)	16430		14040		23700	
10 PERCENT EXCEEDS	31		26		45	
50 PERCENT EXCEEDS	26		23		30	
90 PERCENT EXCEEDS	7.3		9.9		14	

* Period using present site and datum only (1955-92). See GAGE.

a No flow Aug. 13-15, 1929, during partial year.

b Gage height, 3.14 ft.

c From rating curve extended above 1,000 ft³/s, based on a slope-area measurement at gage height, 11.95 ft.

d Backwater from ice.

e Estimated.

NIOBRARA RIVER BASIN
06454000 NIOBRARA RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 42°39'33", long 104°03'54", in SE¼SW¼ sec.15, T.31 N., R.60 W., Niobrara County, Wyoming, Hydrologic Unit 10150002, on left bank 0.2 mi downstream from Van Tassel Creek, 0.3 mi upstream from Wyoming-Nebraska State line, 3 mi east of Van Tassel, WY, and at mile 358.1.

DRAINAGE AREA.--450 mi², approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,687.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diversions for irrigation of about 4,700 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.7	2.1	2.0	2.3	3.4	3.3	2.6	2.7	2.6	1.7	1.9
2	2.1	2.1	2.2	2.1	2.3	3.5	3.3	2.6	2.6	2.9	1.7	1.9
3	2.1	1.8	2.3	2.1	2.3	3.6	3.2	2.5	2.6	2.7	1.7	1.8
4	2.1	1.8	2.3	2.1	2.3	3.5	3.1	2.6	2.7	2.6	1.7	1.8
5	2.1	1.9	2.3	2.1	2.3	3.6	3.1	2.5	2.9	2.5	1.7	1.8
6	2.2	1.9	2.3	2.1	2.4	3.6	2.9	2.4	2.7	2.6	1.7	1.8
7	2.2	1.9	2.3	e2.1	2.4	3.4	2.8	2.3	2.4	2.5	1.7	1.8
8	2.1	1.9	2.4	e2.1	2.4	e3.4	2.8	2.3	2.3	2.5	1.6	1.8
9	2.1	2.0	2.3	2.0	2.3	e3.7	2.8	2.3	2.2	2.5	1.6	1.9
10	2.0	2.1	2.3	2.0	2.3	3.8	2.8	2.5	2.1	2.5	1.7	1.8
11	2.0	2.1	2.3	2.0	2.3	4.0	2.7	2.4	2.1	2.5	1.7	1.8
12	2.0	2.2	2.3	2.1	2.4	4.3	2.8	2.3	2.1	2.6	1.7	1.8
13	1.9	2.4	2.3	2.0	2.4	4.2	2.8	2.3	2.1	2.6	1.7	1.8
14	1.9	2.6	2.2	e2.1	2.5	4.4	2.8	2.3	2.2	2.5	1.7	1.9
15	2.0	2.6	2.2	e2.2	2.5	4.2	2.7	2.4	2.7	2.3	1.7	1.8
16	1.9	2.1	2.2	2.3	2.5	4.2	2.7	2.4	2.5	2.2	1.8	1.8
17	1.8	2.1	2.2	2.2	2.5	4.1	2.7	2.3	2.4	2.2	1.7	1.8
18	1.9	2.1	2.2	2.2	3.0	4.2	2.7	2.2	2.5	2.2	1.7	1.8
19	1.9	2.1	2.2	2.2	2.9	4.3	2.9	2.1	2.5	2.1	1.7	1.8
20	1.9	2.1	2.1	2.2	2.8	4.1	2.8	2.1	2.5	2.2	1.7	1.8
21	1.8	2.1	2.1	2.1	2.8	4.0	2.7	2.6	2.4	2.4	1.7	1.8
22	1.8	2.2	2.1	2.2	2.9	3.9	2.8	3.2	2.3	2.3	1.6	1.8
23	1.9	2.1	2.0	2.3	3.1	3.9	2.9	2.6	2.2	2.2	1.8	1.7
24	1.8	2.1	2.0	2.3	3.1	3.9	2.8	2.7	2.2	2.2	1.9	1.7
25	1.8	2.2	2.0	2.3	3.2	3.7	2.8	2.8	2.7	2.2	2.0	1.8
26	1.8	2.5	2.0	2.3	3.2	3.6	2.8	2.6	2.6	2.1	2.2	1.8
27	1.8	2.4	1.9	2.3	3.4	3.6	2.8	2.5	2.6	2.0	2.0	1.8
28	e1.8	2.3	1.9	2.3	3.4	3.5	2.7	2.5	2.6	1.9	1.9	1.8
29	e1.8	e2.3	2.0	2.3	3.5	3.5	2.7	2.5	2.6	1.8	1.9	1.8
30	1.7	e2.2	2.0	2.2	---	3.4	2.7	2.4	2.7	1.8	1.9	1.8
31	1.6	---	2.0	2.3	---	3.4	---	2.5	---	1.7	1.9	---
TOTAL	59.9	63.9	67.0	67.1	77.7	117.9	85.4	76.3	73.7	71.9	54.7	54.2
MEAN	1.93	2.13	2.16	2.16	2.68	3.80	2.85	2.46	2.46	2.32	1.76	1.81
MAX	2.2	2.6	2.4	2.3	3.5	4.4	3.3	3.2	2.9	2.9	2.2	1.9
MIN	1.6	1.7	1.9	2.0	2.3	3.4	2.7	2.1	2.1	1.7	1.6	1.7
AC-FT	119	127	133	133	154	234	169	151	146	143	108	108

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1992, BY WATER YEAR (WY)

		STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956-1992, BY WATER YEAR (WY)											
MEAN	2.70	2.94	2.96	3.14	4.43	5.54	5.40	4.58	3.99	3.36	2.59	2.24	
MAX	4.24	4.95	4.66	12.6	18.1	19.3	16.3	10.2	12.6	22.2	15.6	3.68	
(WY)	1987	1958	1958	1974	1963	1960	1974	1957	1962	1969	1977	1965	
MIN	1.71	1.98	1.56	1.58	2.17	2.23	2.74	2.46	1.55	1.22	.94	1.01	
(WY)	1982	1984	1984	1986	1985	1982	1981	1992	1977	1977	1975	1975	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1956 - 1992
ANNUAL TOTAL	1259.1	869.7	--
ANNUAL MEAN	3.45	2.38	3.65
HIGHEST ANNUAL MEAN	--	--	5.77
LOWEST ANNUAL MEAN	--	--	2.14
HIGHEST DAILY MEAN	17 May 28	4.4 Mar 14	352 Jul 18 1969
LOWEST DAILY MEAN	1.6 Oct 31	1.6 Oct 31	.54 Aug 9 1975
ANNUAL SEVEN-DAY MINIMUM	1.7 Oct 26	1.7 Aug 3	.58 Aug 8 1975
INSTANTANEOUS PEAK FLOW	--	5.9 Mar 14	2120 Aug 16 1977
INSTANTANEOUS PEAK STAGE	--	*2.79 Jan 8	8.28 Aug 16 1977
ANNUAL RUNOFF (AC-FT)	2500	1730	2640
10 PERCENT EXCEEDS	5.9	3.2	5.5
50 PERCENT EXCEEDS	2.5	2.3	3.0
90 PERCENT EXCEEDS	1.9	1.8	1.8

* Backwater from ice.

PLATTE RIVER BASIN
06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

269

LOCATION.--Lat 40°56'15", long 106°20'16", in NE¼ SW¼ SE¼ 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 National Geodetic Vertical Datum of 1929. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918, to Aug. 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. Aug. 22, 1961, to Sept. 18, 1984, at site 650 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Apr. 9. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River basin. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	41	56	54	48	112	224	202	1330	292	213	87
2	59	38	62	52	48	118	221	163	1220	289	198	93
3	57	42	67	50	48	125	228	165	953	300	186	97
4	53	48	71	50	46	131	242	174	691	292	194	97
5	50	55	79	52	45	138	262	167	625	277	194	87
6	51	62	84	53	46	142	290	158	611	240	181	85
7	53	69	89	54	47	149	318	131	612	200	189	82
8	55	78	95	55	50	156	345	123	733	232	195	73
9	56	89	100	52	53	157	367	117	859	272	179	75
10	57	96	106	50	55	153	376	162	820	276	157	64
11	57	104	100	47	58	145	336	185	720	291	150	58
12	56	111	95	48	61	143	300	176	785	311	144	51
13	56	116	90	47	64	152	281	161	653	413	149	49
14	53	118	84	46	68	160	274	162	549	449	128	48
15	58	101	81	44	71	172	282	163	481	358	117	46
16	58	102	84	44	74	182	308	163	407	319	113	48
17	52	97	86	45	76	190	320	169	434	399	125	51
18	48	90	89	43	77	198	340	164	461	429	133	52
19	48	84	87	41	77	196	339	166	397	373	129	61
20	49	79	83	39	79	189	325	169	321	356	113	67
21	51	84	78	37	83	184	274	220	274	399	101	71
22	52	78	74	37	87	181	244	381	252	411	98	79
23	52	71	69	38	90	179	243	467	247	356	92	74
24	52	65	65	39	87	178	234	518	235	337	102	65
25	56	70	62	40	87	179	222	483	270	333	119	62
26	61	77	59	41	87	183	195	464	359	353	120	68
27	69	84	56	42	92	190	178	836	415	359	120	79
28	56	79	57	43	97	202	160	1240	478	310	117	81
29	53	71	58	45	102	218	158	1340	446	270	105	78
30	49	63	59	46	---	223	183	1210	356	251	88	77
31	45	---	57	48	---	237	---	1150	---	238	87	---
TOTAL	1679	2362	2382	1422	2003	5262	8069	11549	16994	9985	4336	2105
MEAN	54.2	78.7	76.8	45.9	69.1	170	269	373	566	322	140	70.2
MAX	69	118	106	55	102	237	376	1340	1330	449	213	97
MIN	45	38	56	37	45	112	158	117	235	200	87	46
AC-FT	3330	4690	4720	2820	3970	10440	16000	22910	33710	19810	8600	4180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1992, BY WATER YEAR (WY)

	MEAN	163	150	101	81.3	86.0	168	763	1138	1480	635	268	146
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	1933	1933	1964	1981	1981	1934	1934	1934	1934	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1904 - 1992
ANNUAL TOTAL	99632	68148	--
ANNUAL MEAN	273	186	433
HIGHEST ANNUAL MEAN	--	--	878
LOWEST ANNUAL MEAN	--	--	117
HIGHEST DAILY MEAN	2220	1340	6450
LOWEST DAILY MEAN	38	37	19
ANNUAL SEVEN-DAY MINIMUM	45	39	20
INSTANTANEOUS PEAK FLOW	--	1400a	6720b
INSTANTANEOUS PEAK STAGE	--	4.84c	9.65c
ANNUAL RUNOFF (AC-FT)	197600	135200	313700
10 PERCENT EXCEEDS	625	398	1220
50 PERCENT EXCEEDS	105	103	160
90 PERCENT EXCEEDS	57	48	68

a Gage height, 4.26 ft.

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

c Backwater from ice jam.

PLATTE RIVER BASIN
06622700 NORTH BRUSH CREEK NEAR SARATOGA, WY

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.

DRAINAGE AREA.--37.4 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,020 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 17, 1971, at site 0.22 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. 29 to Nov. 7, Nov. 20, Dec. 1-4, Feb. 5-9, Feb. 28 to Mar. 1, Mar. 3, 7, 11, 13-16, 20-24, 26, and Mar. 29 to Apr. 1. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	2300	447	3.58	May 27	1130	*456	*3.65

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.0	8.0	7.9	8.4	9.4	9.4	113	142	40	11	10
2	9.5	6.0	8.3	6.4	9.2	9.5	10	113	123	64	10	14
3	8.9	7.0	8.7	7.1	9.0	9.4	11	107	130	55	12	9.6
4	8.8	8.0	9.0	8.2	8.6	9.1	15	122	136	39	14	8.8
5	9.7	9.0	9.2	7.4	8.3	8.8	17	148	136	34	11	12
6	9.6	10	9.3	8.3	7.9	8.6	16	179	117	28	9.8	9.8
7	9.6	11	9.3	8.0	7.6	8.7	14	210	106	35	11	13
8	9.4	12	9.2	8.4	8.6	8.6	14	207	105	40	9.3	13
9	9.1	12	8.4	9.4	9.2	8.7	15	225	110	33	8.8	9.0
10	8.9	12	8.9	6.9	9.6	8.9	18	219	113	28	8.6	8.3
11	8.7	11	9.2	8.5	8.9	8.9	17	181	103	28	9.0	8.1
12	8.8	11	8.3	8.6	8.7	8.8	22	215	91	46	8.6	8.0
13	8.9	10	8.9	8.6	8.3	9.4	29	251	89	63	8.2	7.7
14	8.9	9.5	8.7	8.5	8.3	9.8	31	263	78	36	7.8	7.4
15	9.0	9.6	8.4	7.0	8.3	10	34	255	65	28	7.7	7.6
16	8.9	9.4	7.6	8.6	8.4	9.8	33	246	56	25	8.7	7.6
17	8.6	9.5	7.9	8.5	7.9	9.4	31	242	78	27	16	8.8
18	8.4	9.4	9.1	8.6	8.2	9.3	30	245	77	22	11	10
19	8.4	9.4	9.3	8.6	8.3	8.9	25	238	62	20	9.2	8.3
20	8.7	8.9	9.2	8.3	8.2	8.6	21	261	60	29	8.3	8.0
21	8.8	9.8	8.4	6.4	8.4	8.3	21	380	60	36	8.0	7.9
22	8.8	9.6	8.0	8.6	8.2	7.8	22	310	53	22	8.3	7.7
23	9.2	9.3	8.9	8.5	8.1	8.2	21	230	50	20	12	7.5
24	9.7	9.4	7.0	8.6	8.0	8.4	20	209	53	19	13	7.4
25	10	9.6	7.8	8.5	8.4	8.6	22	198	112	17	11	13
26	11	9.6	7.8	8.6	8.3	9.1	27	192	128	19	11	14
27	12	9.6	7.8	7.7	8.2	9.5	36	369	68	14	9.3	15
28	11	9.8	7.8	8.7	8.6	9.8	48	237	67	13	8.6	14
29	9.3	9.5	7.1	8.0	9.2	9.5	63	161	51	13	8.2	12
30	8.6	8.7	6.4	8.2	---	10	91	132	43	12	8.1	10
31	8.0	---	6.8	8.9	---	9.9	---	151	---	11	8.1	---
TOTAL	289.2	286.6	258.7	252.5	245.3	281.7	783.4	6609	2662	916	305.6	297.5
MEAN	9.33	9.55	8.35	8.15	8.46	9.09	26.1	213	88.7	29.5	9.86	9.92
MAX	12	12	9.3	9.4	9.6	10	91	380	142	64	16	15
MIN	8.0	6.0	6.4	6.4	7.6	7.8	9.4	107	43	11	7.7	7.4
AC-FT	574	568	513	501	487	559	1550	13110	5280	1820	606	590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	14.2	11.7	10.0	9.17	9.23	10.6	24.3	161	255	57.0	13.7	12.7																				
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	12.5	60.0	57.4	13.7	7.75	7.22																				
(WY)	1990	1977	1991	1970	1970	1970	1976	1975	1987	1989	1989	1989																				

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1961 - 1992
ANNUAL TOTAL	13010.5	13187.5	--
ANNUAL MEAN	35.6	36.0	49.1
HIGHEST ANNUAL MEAN	--	--	82.0
LOWEST ANNUAL MEAN	--	--	27.3
HIGHEST DAILY MEAN	470	380	955
LOWEST DAILY MEAN	6.0	6.0	4.3
ANNUAL SEVEN-DAY MINIMUM	6.8	7.1	5.1
INSTANTANEOUS PEAK FLOW	--	456	1360
INSTANTANEOUS PEAK STAGE	--	3.65	4.23a
ANNUAL RUNOFF (AC-FT)	25810	26160	35550
10 PERCENT EXCEEDS	91	113	155
50 PERCENT EXCEEDS	9.6	9.5	12
90 PERCENT EXCEEDS	7.8	8.0	8.1

a Site and datum then in use.

PLATTE RIVER BASIN
06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY

271

LOCATION.--Lat 41°20'38", long 106°31'33", in NE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 5-21. 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 Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	69	35	43	13	6.3
2	---	---	---	---	---	---	---	69	34	71	11	8.6
3	---	---	---	---	---	---	---	67	44	65	13	6.6
4	---	---	---	---	---	---	---	74	56	49	14	5.9
5	---	---	---	---	---	---	---	66	57	42	11	8.0
6	---	---	---	---	---	---	---	67	45	36	9.9	6.6
7	---	---	---	---	---	---	---	70	37	48	9.6	8.6
8	---	---	---	---	---	---	---	90	40	53	8.6	7.7
9	---	---	---	---	---	---	---	110	43	48	8.3	6.1
10	---	---	---	---	---	---	---	90	42	40	7.7	5.7
11	---	---	---	---	---	---	---	66	37	39	7.4	5.3
12	---	---	---	---	---	---	---	52	35	63	7.2	5.0
13	---	---	---	---	---	---	---	64	38	70	6.8	5.1
14	---	---	---	---	---	---	---	74	34	42	6.4	5.1
15	---	---	---	---	---	---	---	70	26	36	5.9	5.1
16	---	---	---	---	---	---	---	72	17	34	6.6	5.1
17	---	---	---	---	---	---	---	74	19	38	11	6.6
18	---	---	---	---	---	---	---	76	19	31	7.4	7.2
19	---	---	---	---	---	---	---	82	17	28	6.6	6.1
20	---	---	---	---	---	---	---	94	20	35	5.9	5.9
21	---	---	---	---	---	---	---	110	16	40	5.7	5.7
22	---	---	---	---	---	---	---	113	29	28	5.9	5.7
23	---	---	---	---	---	---	---	79	67	26	8.3	5.3
24	---	---	---	---	---	---	11	70	62	24	8.0	5.1
25	---	---	---	---	---	---	11	73	97	22	7.2	8.0
26	---	---	---	---	---	---	13	75	103	25	7.0	9.6
27	---	---	---	---	---	---	21	178	67	19	6.6	12
28	---	---	---	---	---	---	35	102	65	18	5.9	12
29	---	---	---	---	---	---	47	48	49	17	5.7	8.0
30	---	---	---	---	---	---	62	39	39	14	5.5	7.0
31	---	---	---	---	---	---	---	38	---	13	5.6	---
TOTAL	---	---	---	---	---	---	---	2421	1289	1157	248.7	205.0
MEAN	---	---	---	---	---	---	---	78.1	43.0	37.3	8.02	6.83
MAX	---	---	---	---	---	---	---	178	103	71	14	12
MIN	---	---	---	---	---	---	---	38	16	13	5.5	5.0
AC-FT	---	---	---	---	---	---	---	4800	2560	2290	493	407

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1972, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
MEAN	11.7	9.02	7.14	5.83	6.01	6.63	15.0	85.9	172	43.6	10.6	9.16
MAX	33.8	25.9	17.2	9.61	9.46	11.3	54.2	119	295	81.2	20.0	24.8
(WY)	1962	1962	1962	1962	1962	1966	1962	1962	1968	1964	1968	1961
MIN	3.59	5.41	4.04	2.40	3.71	4.61	7.53	53.0	64.6	15.5	2.70	2.74
(WY)	1965	1964	1965	1965	1965	1963	1968	1972	1966	1963	1963	1969

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1961 - 1972
ANNUAL MEAN	---	31.8
HIGHEST ANNUAL MEAN	---	45.9
LOWEST ANNUAL MEAN	---	18.6
HIGHEST DAILY MEAN	178 May 27	501 Jun 10 1965
LOWEST DAILY MEAN	5.0 Sep 12	.80 Aug 15-20, 28,29 1963#
ANNUAL SEVEN-DAY MINIMUM	---	.84 Aug 14 1963
INSTANTANEOUS PEAK FLOW	222 May 27	559 Jun 10 1965#
INSTANTANEOUS PEAK STAGE	3.13 May 27	4.09 Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	---	23070
10 PERCENT EXCEEDS	---	91
50 PERCENT EXCEEDS	---	8.2
90 PERCENT EXCEEDS	---	4.6

* During period of operation.

For period of record through 1992.

PLATTE RIVER BASIN

06623750 ENCAMPMENT RIVER ABOVE EAST FORK, NEAR ENCAMPMENT, WY

LOCATION.--Lat 41°00'53", long 106°48'45", in SE¼ NW¼ NW¼ sec.14, T.12 N., R.84 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, 0.3 mi upstream from East Fork, 1.0 mi downstream from bridge on forest service road, and 14 mi south of Encampment.

PERIOD OF RECORD.--July 1991 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAY											
08...	1430	114	38	7.6	6.0	603	1.0	9.8	100	K2	K2
JUN											
10...	1020	144	36	7.7	7.0	565	0.50	9.0	100	K3	K1
JUL											
10...	1035	52	50	7.8	11.0	565	0.50	8.2	101	16	K3
AUG											
12...	1245	19	71	8.1	17.0	567	1.0	7.2	101	69	K6
SEP											
09...	1045	14	75	8.2	10.0	565	0.80	8.4	101	K2	K2

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAY											
08...	16	4.8	0.95	1.3	0.1	0.7	0	18	15	17	2.2
JUN											
10...	16	4.9	0.86	1.3	0.1	0.5	0	21	17	17	2.1
JUL											
10...	21	6.3	1.2	1.8	0.2	0.8	0	27	22	23	2.2
AUG											
12...	30	9.2	1.8	2.2	0.2	1.0	0	39	32	34	2.8
SEP											
09...	32	9.5	1.9	2.6	0.2	1.0	0	41	34	35	3.0

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
MAY											
08...	0.4	<0.1	7.7	33	27	0.05	10.2	<0.01	<0.01	<0.05	0.07
JUN											
10...	<0.1	<0.1	6.7	27	27	0.04	10.5	<0.01	<0.01	<0.05	<0.05
JUL											
10...	0.8	<0.1	7.9	32	34	0.04	4.49	--	--	--	--
AUG											
12...	0.9	<0.1	10	40	47	0.05	2.05	<0.01	<0.01	<0.05	<0.05
SEP											
09...	0.4	<0.1	10	50	49	0.07	1.89	<0.01	<0.01	<0.05	<0.05

06623750 ENCAMPMENT RIVER ABOVE EAST FORK, NEAR ENCAMPMENT, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 08...	0.03	0.04	<0.2	<0.01	0.04	0.01	<0.01	5	1.5	56
JUN 10...	0.01	0.02	<0.2	<0.01	<0.01	<0.01	<0.01	2	0.78	57
JUL 10...	--	--	--	--	--	--	--	3	0.42	67
AUG 12...	0.01	0.02	<0.2	<0.01	<0.01	<0.01	<0.01	8	0.41	67
SEP 09...	<0.01	0.02	<0.2	0.01	<0.01	<0.01	<0.01	3	0.11	51

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAY 08...	1430	70	10	<3	84	<4	3
JUN 10...	1020	40	10	<3	50	<4	2
JUL 10...	1035	20	11	<3	62	<4	2
AUG 12...	1245	<10	19	<3	58	<4	2
SEP 09...	1045	20	17	<3	61	<4	1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
MAY 08...	<10	<1	<1	<1.0	24	<6
JUN 10...	<10	<1	<1	<1.0	24	<6
JUL 10...	<10	<1	<1	<1.0	32	<6
AUG 12...	<10	<1	<1	<1.0	43	<6
SEP 09...	<10	<1	<1	<1.0	45	<6

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 08...	1430	0.7	<0.6	1.2	0.8	1.1	0.8	0.02	0.29

PLATTE RIVER BASIN

06623750 ENCAMPMENT RIVER ABOVE EAST FORK, NEAR ENCAMPMENT, WY--Continued

SPECIAL STUDY - LOW LEVEL NUTRIENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
JUN 10...	1025	144	7.0	<0.005	0.002
JUL 10...	1040	52	11.0	<0.005	0.005
AUG 12...	1250	19	17.0	<0.005	0.005
SEP 09...	1050	14	10.0	<0.005	0.001

PLATTE RIVER BASIN

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06623790 EAST FORK ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY

LOCATION.--Lat 41°01'05", long 106°48'47", in SE½ SE½ SE½ sec.11, T.12 N., R.84 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, 200 ft upstream from mouth, and 14 mi south of Encampment.

PERIOD OF RECORD.--July 1991 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAY 08...	1215	63	31	7.7	5.0	563	1.4	9.6	102	K2	K3
JUN 10...	0920	51	36	7.6	6.0	565	0.5	9.1	99	13	K2
JUL 10...	0930	20	46	7.9	8.5	565	0.9	8.6	99	K73	7
AUG 12...	1150	10	52	7.8	15.5	570	0.7	7.6	102	12	8
SEP 09...	0935	6.2	53	7.8	6.0	565	0.8	9.3	101	K1	K2

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAY 08...	14	4.1	0.96	1.9	0.2	0.5	0	17	13	16	1.9
JUN 10...	14	4.3	0.89	2.0	0.2	0.4	0	22	18	18	1.6
JUL 10...	18	5.2	1.2	2.3	0.2	0.5	0	27	22	22	1.4
AUG 12...	20	6.0	1.3	2.9	0.3	0.5	0	30	24	29	1.5
SEP 09...	21	6.2	1.4	2.7	0.3	0.6	0	32	26	26	1.6

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
MAY 08...	0.3	<0.1	10	42	28	0.06	7.14	<0.01	<0.01	<0.05	<0.05
JUN 10...	<0.1	<0.1	9.6	29	30	0.04	4.00	<0.01	<0.01	<0.05	<0.05
JUL 10...	0.8	<0.1	11	35	36	0.05	1.89	--	--	--	--
AUG 12...	0.7	<0.1	11	29	39	0.04	0.78	<0.01	<0.01	<0.05	<0.05
SEP 09...	<0.1	<0.1	11	36	39	0.05	0.60	<0.01	<0.01	<0.05	<0.05

PLATTE RIVER BASIN

06623790 EAST FORK ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 08...	0.04	0.03	<0.2	<0.01	<0.01	0.01	<0.01	4	0.68	75
JUN 10...	0.01	0.01	<0.2	<0.01	<0.01	<0.01	<0.01	2	0.28	71
JUL 10...	--	--	--	--	--	--	--	4	0.22	76
AUG 12...	0.02	0.02	<0.2	<0.01	<0.01	<0.01	<0.01	3	0.08	58
SEP 09...	<0.01	0.02	<0.2	0.01	<0.01	<0.01	0.01	2	0.03	83

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAY 08...	1215	60	10	<3	100	<4	3
JUN 10...	0920	10	12	<3	54	<4	2
JUL 10...	0930	<10	14	<3	82	<4	1
AUG 12...	1150	10	15	<3	64	<4	2
SEP 09...	0935	20	15	<3	44	<4	1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
MAY 08...	<10	<1	<1	<1.0	28	<6
JUN 10...	<10	<1	<1	<1.0	28	<6
JUL 10...	<10	<1	<1	<1.0	36	<6
AUG 12...	<10	<1	<1	<1.0	40	<6
SEP 09...	<10	<1	<1	<1.0	39	<6

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 08...	1215	<0.6	0.6	<0.6	<0.6	<0.6	<0.6	0.02	0.03

PLATTE RIVER BASIN

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06623790 EAST FORK ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY--Continued

SPECIAL STUDY - LOW LEVEL NUTRIENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
JUN 10...	0925	51	6.0	<0.005	<0.001
JUL 10...	0935	20	8.5	<0.005	0.006
AUG 12...	1155	10	15.5	<0.005	0.004
SEP 09...	0940	6.2	6.0	<0.005	0.002

PLATTE RIVER BASIN
06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 41°01'25", long 106°49'27", in NE¼ SW¼ sec.10, T.12 N., R.84 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on left bank 0.6 mi upstream from Hog Park Creek and 13 mi south of Encampment.

DRAINAGE AREA.--72.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,270 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct 28 to Nov. 8, Nov. 12, 13, 16, 18-21, 23-25, Feb. 29 to Mar. 3, Mar. 7, 13-15, 17, 21-23, 26, Mar. 29 to Apr. 2, Apr. 5, June 12 to July 2, and July 14-18. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	2300	*565	*3.52	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	18	18	15	18	13	169	257	103	35	27
2	20	10	19	18	15	17	15	153	234	95	35	26
3	19	12	19	18	15	16	17	141	236	90	35	23
4	18	14	19	18	15	16	20	152	237	89	37	22
5	18	16	19	18	14	17	22	162	251	88	33	29
6	18	18	18	18	14	17	25	171	226	75	34	25
7	19	19	18	18	15	16	24	187	231	73	35	24
8	19	21	17	18	15	15	26	187	236	105	33	21
9	18	21	17	17	15	15	32	268	209	75	33	20
10	18	21	17	17	15	16	39	227	198	72	30	19
11	18	20	17	17	15	17	48	187	244	64	29	19
12	18	20	17	17	15	17	62	199	199	73	28	19
13	17	19	17	16	15	17	74	207	182	95	27	19
14	17	19	18	16	16	18	67	234	166	80	26	18
15	17	18	18	16	15	19	66	258	153	68	25	18
16	17	18	18	16	15	19	58	264	140	60	26	19
17	16	18	19	16	16	18	59	258	168	69	32	26
18	16	18	19	15	15	17	59	266	177	65	26	28
19	16	16	20	15	15	15	44	291	152	64	24	22
20	16	17	19	15	16	15	38	310	128	70	23	21
21	16	18	18	15	16	15	38	358	122	67	22	20
22	16	17	19	15	16	14	44	327	113	56	24	19
23	16	16	19	15	15	14	42	293	101	52	30	19
24	18	15	17	16	13	15	36	272	94	52	34	18
25	18	16	17	16	15	15	41	272	117	54	28	29
26	20	17	17	16	14	15	54	301	138	82	27	29
27	20	18	18	16	16	16	73	467	113	51	24	30
28	17	19	17	16	16	16	98	373	103	45	22	26
29	15	18	18	15	17	15	121	287	98	41	21	23
30	15	18	18	15	---	15	151	272	95	39	21	21
31	14	---	18	15	---	14	---	293	---	37	21	---
TOTAL	543	519	559	507	439	499	1506	7806	5118	2149	880	679
MEAN	17.5	17.3	18.0	16.4	15.1	16.1	50.2	252	171	69.3	28.4	22.6
MAX	23	21	20	18	17	19	151	467	257	105	37	30
MIN	14	10	17	15	13	14	13	141	94	37	21	18
AC-FT	1080	1030	1110	1010	871	990	2990	15480	10150	4260	1750	1350

PLATTE RIVER BASIN
06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)												
MEAN	30.3	24.5	21.8	19.4	18.3	18.9	40.1	266	596	208	46.3	31.9
MAX	60.5	38.7	32.1	28.9	28.1	30.5	76.5	468	914	475	75.3	63.4
(WY)	1966	1985	1984	1971	1971	1986	1989	1974	1978	1982	1983	1984
MIN	17.5	15.6	11.7	10.9	10.8	10.9	19.3	135	171	47.5	25.2	18.6
(WY)	1992	1978	1969	1969	1969	1969	1975	1983	1992	1977	1977	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1965 - 1992		
ANNUAL TOTAL	29400			21204			--		
ANNUAL MEAN	80.5			57.9			110		
HIGHEST ANNUAL MEAN	--			--			159		
LOWEST ANNUAL MEAN	--			--			51.2		
HIGHEST DAILY MEAN	665	Jun 2		467	May 27		1360	Jun 25	1983
LOWEST DAILY MEAN	10	Nov 2		10	Nov 2		9.5	Dec 31	1968
ANNUAL SEVEN-DAY MINIMUM	13	Oct 29		13	Oct 29		10	Mar 8	1969
INSTANTANEOUS PEAK FLOW	--			565	May 26		1680a	Jun 13	1965
INSTANTANEOUS PEAK STAGE	--			3.52	May 26				
ANNUAL RUNOFF (AC-FT)	58310			42060			79740		
10 PERCENT EXCEEDS	278			187			365		
50 PERCENT EXCEEDS	20			19			27		
90 PERCENT EXCEEDS	15			15			16		

a About June 13, 1965, from slope-area measurement of peak flow, gage height not determined.

PLATTE RIVER BASIN

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 17...	1005	16	68	7.6	4.0	560	1.0	9.2	96	K4	K5
JAN 31...	0850	14	65	7.7	0.0	565	0.60	10.8	100	K2	K3
MAY 08...	1020	176	36	7.6	4.5	563	1.5	9.4	99	K1	K2
JUN 10...	0825	194	34	7.7	5.0	565	0.70	9.5	101	K4	7
JUL 10...	0830	74	50	7.8	8.0	565	0.50	8.6	98	49	9
AUG 12...	1050	28	65	8.2	14.5	570	0.70	8.7	115	25	K7
SEP 09...	0830	20	69	8.2	6.0	565	0.70	9.0	98	K2	K2

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 17...	30	9.1	1.8	2.6	0.2	0.9	0	65	53	34	3.6
JAN 31...	31	9.1	1.9	3.6	0.3	0.9	0	47	38	35	4.2
MAY 08...	17	5.2	0.99	2.4	0.3	1.0	0	19	15	16	2.8
JUN 10...	15	4.7	0.86	1.4	0.2	0.5	0	20	16	17	2.0
JUL 10...	20	6.1	1.2	2.0	0.2	0.7	0	27	22	24	1.9
AUG 12...	28	8.3	1.7	2.5	0.2	0.8	0	38	31	33	2.5
SEP 09...	30	8.9	1.8	2.4	0.2	0.9	0	38	31	32	2.8

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT 17...	0.3	<0.1	12	52	62	0.07	2.25	0.01	<0.01	<0.05	0.08
JAN 31...	0.1	<0.1	13	43	56	0.06	1.63	<0.01	<0.01	0.05	0.08
MAY 08...	0.9	<0.1	8.8	34	32	0.05	16.2	<0.01	<0.01	<0.05	<0.05
JUN 10...	<0.1	<0.1	7.1	31	E26	0.04	16.2	<0.01	<0.01	<0.05	<0.05
JUL 10...	0.8	<0.1	8.6	31	35	0.04	6.19	--	--	--	--
AUG 12...	<0.1	<0.1	11	48	E45	0.07	3.63	<0.01	<0.01	<0.05	<0.05
SEP 09...	<0.1	<0.1	11	40	E46	0.06	2.16	<0.01	<0.01	<0.05	<0.05

E-Estimate.

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. 7 FINER THAN .062 MM
OCT 17...	0.02	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	2	0.09	67
JAN 31...	0.02	<0.01	<0.2	0.02	<0.01	0.01	<0.01	1	0.04	59
MAY 08...	0.03	0.05	0.2	0.02	0.03	<0.01	0.01	5	2.4	48
JUN 10...	0.01	0.02	<0.2	0.01	<0.01	<0.01	<0.01	2	1.0	68
JUL 10...	--	--	--	--	--	--	--	4	0.80	61
AUG 12...	0.01	0.02	<0.2	<0.01	<0.01	<0.01	<0.01	4	0.30	73
SEP 09...	<0.010	0.030	<0.20	0.020	<0.010	<0.010	<0.010	2	0.11	7

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 17...	1005	<10	15	<3	47	<4	1
JAN 31...	0850	<10	12	<3	36	<4	15
MAY 08...	1020	90	11	<3	120	<4	4
JUN 10...	0825	30	10	<3	48	<4	2
JUL 10...	0830	30	12	<3	79	<4	2
AUG 12...	1050	<10	17	<3	61	<4	2
SEP 09...	0830	30	16	<3	55	<4	1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
OCT 17...	<10	<1	<1	<1.0	46	<6
JAN 31...	<10	<1	2	<1.0	46	<6
MAY 08...	<10	2	<1	<1.0	28	<6
JUN 10...	<10	<1	<1	<1.0	24	<6
JUL 10...	<10	<1	<1	<1.0	33	<6
AUG 12...	<10	<1	<1	<1.0	42	<6
SEP 09...	<10	<1	<1	<1.0	45	<6

PLATTE RIVER BASIN

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 17...	1005	<0.6	<0.6	1.4	<0.6	1.3	<0.6	0.04	0.13
MAY 08...	1020	<0.6	<0.6	0.9	<0.6	0.8	<0.6	0.03	0.21

SPECIAL STUDY - LOW LEVEL NUTRIENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAY 08...	1025	176	4.5	0.269	0.029
JUN 10...	0830	194	5.0	<0.005	0.002
JUL 10...	0835	74	8.0	<0.005	0.027
AUG 12...	1055	28	14.5	<0.005	0.006
SEP 09...	0835	20	6.0	<0.005	0.005

PLATTE RIVER BASIN
06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY

283

LOCATION.--Lat 41°18'12", long 106°42'53", in NE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, 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: Oct. 30 to Nov. 7, Nov. 18-26, Nov. 29 to Mar. 1, Mar. 9-12, 23, 24, 27, and Mar. 30 to Apr. 2. Records good except those for estimated daily discharges, which are poor. Five small reservoirs upstream from station for irrigation, total capacity, about 400 acre-ft. Slight regulation by Hog Park Creek Reservoir, capacity, about 2,970 acre-ft. Diversions for irrigation of about 8,800 acres upstream from station. Transbasin diversion upstream from station into Hog Park Creek (tributary to Encampment River) from North Fork Little Snake River for municipal, industrial, and irrigation uses began September 1964.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 27	0330	*1,040	*4.24	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	55	70	68	61	69	64	424	410	99	50	56
2	79	51	76	68	59	73	69	440	324	111	48	61
3	74	47	82	70	56	74	73	401	290	131	54	57
4	72	54	89	72	54	71	79	403	289	119	54	54
5	74	61	93	74	56	71	89	386	275	111	49	57
6	76	67	99	74	60	72	95	363	266	101	47	63
7	79	74	101	72	64	73	92	332	259	96	37	62
8	74	79	98	67	65	74	88	343	287	115	33	59
9	71	82	93	63	69	65	98	445	299	105	32	52
10	75	92	94	63	71	63	115	457	287	85	35	50
11	76	88	90	63	69	66	141	365	287	78	34	50
12	76	75	89	61	67	70	151	345	353	103	40	49
13	78	82	86	58	70	73	200	322	273	156	45	51
14	79	83	84	59	64	74	215	339	245	104	45	49
15	78	88	87	54	68	77	209	379	213	78	45	43
16	76	81	91	56	64	78	206	390	195	73	48	43
17	72	79	89	56	62	77	194	384	237	115	69	46
18	68	77	87	51	65	77	212	384	243	113	59	56
19	68	76	87	50	69	76	171	406	210	94	53	56
20	70	78	84	51	71	71	150	450	177	109	49	54
21	70	81	78	51	69	70	122	569	166	119	46	62
22	70	72	75	53	66	69	146	530	151	92	46	62
23	71	67	75	54	64	66	147	397	134	82	54	60
24	74	73	75	55	57	67	125	345	127	78	65	59
25	74	80	72	57	61	69	117	331	167	66	61	71
26	76	84	70	59	59	67	129	310	192	73	56	82
27	75	87	72	59	61	71	157	809	149	71	52	77
28	72	87	74	59	63	74	211	688	147	59	53	75
29	67	83	74	58	67	72	259	483	122	56	51	69
30	63	77	72	58	---	70	334	369	106	52	52	66
31	61	---	70	59	---	68	---	404	---	51	54	---
TOTAL	2274	2260	2576	1872	1851	2207	4458	12993	6880	2895	1516	1751
MEAN	73.4	75.3	83.1	60.4	63.8	71.2	149	419	229	93.4	48.9	58.4
MAX	86	92	101	74	71	78	334	809	410	156	69	82
MIN	61	47	70	50	54	63	64	310	106	51	32	43
AC-FT	4510	4480	5110	3710	3670	4380	8840	25770	13650	5740	3010	3470

PLATTE RIVER BASIN
06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	74.8	74.7	66.2	58.4	58.6	65.6	147	750	1178	279	63.4	52.6
MAX	165	147	92.8	83.4	115	117	352	1258	2029	902	178	141
(WY)	1966	1966	1985	1985	1962	1989	1962	1952	1971	1982	1982	1965
MIN	29.4	42.6	49.2	34.2	35.7	44.5	71.3	340	193	38.4	21.5	14.2
(WY)	1980	1977	1964	1963	1955	1964	1944	1977	1987	1954	1948	1954

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1941 - 1992			
ANNUAL TOTAL	64423				43533				--			
ANNUAL MEAN	177				119				239			
HIGHEST ANNUAL MEAN	--				--				370			1984
LOWEST ANNUAL MEAN	--				--				102			1977
HIGHEST DAILY MEAN	1510		Jun 2		809		May 27		3640		Jun 4	1952
LOWEST DAILY MEAN	15		Sep 4		32		Aug 9		8.0a		Sep 1	1954
ANNUAL SEVEN-DAY MINIMUM	18		Sep 2		37		Aug 7		8.9		Aug 28	1954
INSTANTANEOUS PEAK FLOW	--				1040		May 27		4510b		Jun 1	1943
INSTANTANEOUS PEAK STAGE	--				4.24		May 27		10.33c		Jun 4	1952
ANNUAL RUNOFF (AC-FT)	127800				86350				173200			
10 PERCENT EXCEEDS	480				293				775			
50 PERCENT EXCEEDS	76				74				70			
90 PERCENT EXCEEDS	60				52				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.

PLATTE RIVER BASIN
06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY

285

LOCATION.--Lat 41°26'21", long 106°58'16", in NW¼ NE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 2,000 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	11	55	86	13	3.7	2.4
2	---	---	---	---	---	---	11	46	59	15	3.7	2.6
3	---	---	---	---	---	---	11	42	48	18	4.6	2.8
4	---	---	---	---	---	---	12	40	42	15	6.0	2.7
5	---	---	---	---	---	---	12	40	39	13	5.3	2.9
6	---	---	---	---	---	---	12	43	39	10	4.9	2.9
7	---	---	---	---	---	---	11	43	41	9.6	4.6	3.7
8	---	---	---	---	---	---	11	52	41	13	3.7	3.4
9	---	---	---	---	---	---	10	59	45	13	3.2	3.7
10	---	---	---	---	---	---	12	79	41	12	2.8	3.2
11	---	---	---	---	---	---	13	62	46	9.6	3.2	3.2
12	---	---	---	---	---	---	14	46	41	9.6	2.9	2.9
13	---	---	---	---	---	---	19	44	34	15	2.4	1.9
14	---	---	---	---	---	---	27	48	29	13	1.9	1.9
15	---	---	---	---	---	---	24	46	26	9.2	1.7	1.9
16	---	---	---	---	---	---	21	44	26	7.5	1.6	1.8
17	---	---	---	---	---	---	26	43	33	7.9	3.4	1.6
18	---	---	---	---	---	---	47	42	30	8.3	4.3	2.2
19	---	---	---	---	---	---	32	45	23	7.9	3.7	3.7
20	---	---	---	---	---	---	21	54	21	9.6	2.7	4.3
21	---	---	---	---	---	---	18	71	21	12	1.6	4.3
22	---	---	---	---	---	---	18	79	18	9.2	1.1	3.7
23	---	---	---	---	---	---	24	59	18	7.5	1.1	3.2
24	---	---	---	---	---	---	19	50	19	4.9	1.7	2.9
25	---	---	---	---	---	---	17	52	24	5.6	2.6	4.3
26	---	---	---	---	---	---	18	53	27	6.0	2.9	5.6
27	---	---	---	---	---	---	24	161	22	5.3	2.6	6.3
28	---	---	---	---	---	---	34	147	18	5.3	2.2	5.1
29	---	---	---	---	---	---	43	94	16	5.6	1.9	5.3
30	---	---	---	---	---	---	48	79	13	4.3	1.9	4.9
31	---	---	---	---	---	---	---	81	---	4.3	2.2	---
TOTAL	---	---	---	---	---	---	620	1899	986	299.2	92.1	101.3
MEAN	---	---	---	---	---	---	20.7	61.3	32.9	9.65	2.97	3.38
MAX	---	---	---	---	---	---	48	161	86	18	6.0	6.3
MIN	---	---	---	---	---	---	10	40	13	4.3	1.1	1.6
AC-FT	---	---	---	---	---	---	1230	3770	1960	593	183	201

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	21.5	56.3	56.8	12.0	3.26	3.18
MAX	---	---	---	---	---	---	28.1	68.0	77.0	13.2	3.70	3.40
(WY)	---	---	---	---	---	---	1990	1991	1991	1990	1991	1991
MIN	---	---	---	---	---	---	15.6	39.7	32.9	9.65	2.97	2.76
(WY)	---	---	---	---	---	---	1991	1990	1992	1992	1992	1990

SUMMARY STATISTICS

HIGHEST DAILY MEAN	161	May 27	WATER YEARS 1990 - 1992
LOWEST DAILY MEAN	1.1	Aug 22,23	181 Jun 2 1991
ANNUAL SEVEN-DAY MINIMUM	--	--	.92 Aug 24 1991
INSTANTANEOUS PEAK FLOW	228	May 27	1.4 Sep 10 1990
INSTANTANEOUS PEAK STAGE	5.82	May 27	228 May 27 1992
10 PERCENT EXCEEDS	--	--	5.82 May 27 1992
50 PERCENT EXCEEDS	--	--	64
90 PERCENT EXCEEDS	--	--	13
			2.3

* During period of operation.

PLATTE RIVER BASIN
06628900 PASS CREEK NEAR ELK MOUNTAIN, WY

LOCATION.--Lat 41°35'12", Long 106°36'40", in NE¼ SE¼ SE¼ 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.

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above National Geodetic Vertical Datum of 1929, 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.--Estimated daily discharges: Oct. 29 to Nov. 11, Nov. 15-25, Nov. 29 to Dec. 6, Dec. 10 to Feb. 20, Feb. 24-27, Mar. 7-11, 20-23, and Mar. 29 to Apr. 2. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 6,300 acres upstream from station. Diversion to Kerr ditch 7.5 mi upstream.

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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 12	2030	368	6.71	May 27	1730	*381	*6.75
Apr. 18	0130	331	6.57				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	5.2	6.9	8.3	11	12	27	94	151	43	5.8	4.5
2	6.7	4.5	7.4	8.5	10	13	33	80	100	51	5.7	5.2
3	5.4	5.0	8.0	8.7	10	14	47	65	76	56	11	4.7
4	5.2	6.1	8.6	9.0	9.4	15	75	58	58	51	21	4.3
5	6.2	8.2	9.1	9.3	8.9	15	111	61	58	48	8.4	4.9
6	6.2	11	9.8	9.3	9.2	14	101	68	58	45	6.8	5.1
7	5.8	12	11	9.1	9.5	13	73	86	50	30	6.6	7.6
8	5.6	14	11	8.7	9.7	13	64	96	47	24	6.0	7.3
9	5.4	17	10	8.3	10	12	105	104	43	19	4.9	6.1
10	5.4	18	9.5	8.1	10	12	133	122	47	18	4.8	5.7
11	5.5	17	9.2	8.3	10	13	151	78	42	17	4.8	5.9
12	5.5	15	8.9	8.0	11	14	205	65	39	23	4.8	5.6
13	5.3	13	8.9	7.9	11	19	172	82	33	27	4.5	5.5
14	5.1	11	9.1	8.3	11	21	119	113	30	19	4.1	5.4
15	5.1	10	9.3	7.6	11	23	125	79	31	13	3.9	5.4
16	5.1	9.3	9.5	7.6	11	24	132	82	27	11	4.0	5.4
17	4.5	8.7	9.5	7.4	10	24	121	84	36	12	7.2	5.5
18	4.3	8.3	9.5	7.4	9.7	23	175	81	38	11	7.6	6.0
19	4.5	7.9	9.5	7.4	10	21	82	83	31	9.8	6.2	6.3
20	4.9	8.6	9.4	7.5	11	18	61	86	35	15	5.2	6.1
21	5.0	9.6	8.4	7.7	12	15	53	164	32	27	4.7	5.8
22	5.1	8.8	8.0	8.1	12	13	64	171	30	15	4.9	6.0
23	5.2	8.1	8.3	8.5	13	14	65	122	38	12	5.7	5.9
24	5.7	8.5	8.5	8.9	11	15	45	99	50	12	7.0	5.6
25	6.6	9.5	8.5	9.3	11	14	49	89	56	11	6.4	13
26	8.7	11	8.3	9.2	10	15	56	91	68	11	6.4	11
27	9.6	11	8.5	9.3	10	19	73	247	55	8.9	5.7	8.5
28	8.1	11	8.6	9.4	11	26	92	170	53	7.6	4.6	7.2
29	8.0	9.3	8.8	9.7	11	30	99	115	50	7.5	3.8	7.1
30	6.6	7.8	9.5	9.9	---	33	107	103	48	6.4	3.8	7.0
31	5.6	---	8.9	10	---	30	---	160	---	6.4	4.1	---
TOTAL	185.1	304.4	278.4	264.7	304.4	557	2815	3198	1510	667.6	190.4	189.6
MEAN	5.97	10.1	8.98	8.54	10.5	18.0	93.8	103	50.3	21.5	6.14	6.32
MAX	9.6	18	11	10	13	33	205	247	151	56	21	13
MIN	4.3	4.5	6.9	7.4	8.9	12	27	58	27	6.4	3.8	4.3
AC-FT	367	604	552	525	604	1100	5580	6340	3000	1320	378	376

PLATTE RIVER BASIN
06628900 PASS CREEK NEAR ELK MOUNTAIN, WY--Continued

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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	31.8	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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1957 - 1992			
ANNUAL TOTAL	11136.8				10464.6				--			
ANNUAL MEAN	30.5				28.6				41.1			
HIGHEST ANNUAL MEAN	--				--				86.4			1984
LOWEST ANNUAL MEAN	--				--				20.2			1959
HIGHEST DAILY MEAN	427	Jun 2			247	May 27			1780	May 12		
LOWEST DAILY MEAN	3.5	Sep 5			3.8	Aug 29, 30			.93	Sep 7		
ANNUAL SEVEN-DAY MINIMUM	3.9	Aug 31			4.3	Aug 29			1.0	Sep 1		
INSTANTANEOUS PEAK FLOW	--				381	May 27			4660a	May 12		
INSTANTANEOUS PEAK STAGE	--				6.75	May 27			9.12b	May 12		
ANNUAL RUNOFF (AC-FT)	22090				20760				29790			
10 PERCENT EXCEEDS	85				83				117			
50 PERCENT EXCEEDS	11				10				13			
90 PERCENT EXCEEDS	5.1				5.4				6.4			

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.

PLATTE RIVER BASIN
06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY

LOCATION.--Lat 41°52'20", long 107°03'25", in SW¼ SW¼ sec.13, T.22 N., R.86 W., Carbon County, Hydrologic Unit 10180002, on left bank 6.5 mi northeast of Sinclair and 14 mi upstream from high-water line of Seminole Reservoir at elevation 6,357 ft

DRAINAGE AREA.--4,175 mi², of which 114 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year. Prior to October 1943, published as "near Parco."

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

GAGE.--Water-stage recorder. Datum of gage is 6,400.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 12 and Nov. 15 to Mar. 16. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 215,000 acres upstream from station. Transbasin diversions upstream from station.

COOPERATION.--Nine discharge measurements provided by the Bureau of Reclamation and eleven discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	133	198	237	288	455	674	984	2640	754	415	214
2	284	120	210	250	293	485	662	1140	2680	657	392	220
3	260	137	225	256	298	520	705	1110	2440	678	367	236
4	249	165	255	257	297	520	706	1010	2060	782	366	239
5	241	190	280	258	280	530	751	941	1740	674	399	225
6	241	220	303	270	290	540	845	927	1520	588	370	188
7	243	265	310	273	302	545	910	846	1440	538	373	191
8	246	313	290	262	313	505	919	822	1440	519	336	199
9	248	360	285	252	323	475	889	809	1490	533	309	196
10	238	395	282	260	338	435	882	902	1630	535	297	192
11	240	420	265	248	347	420	880	926	1620	550	290	182
12	245	435	273	242	360	440	875	806	1570	576	268	176
13	245	448	280	233	368	480	847	762	1600	697	250	163
14	242	476	295	228	377	515	940	765	1400	867	249	150
15	241	455	310	228	374	550	960	805	1200	823	235	148
16	240	430	297	240	371	575	957	842	1060	740	249	137
17	237	385	285	235	361	597	985	886	933	637	331	131
18	235	395	295	227	352	617	998	872	954	694	314	141
19	231	380	277	228	352	648	1070	872	1010	799	294	167
20	228	390	252	227	357	619	1000	918	926	789	258	189
21	222	350	233	226	373	575	894	1000	797	870	242	178
22	217	303	230	225	390	557	774	1680	712	918	218	183
23	220	267	222	233	402	535	742	1700	619	812	206	170
24	233	205	223	240	400	541	719	1480	688	732	214	162
25	243	225	232	247	395	564	661	1390	658	655	245	181
26	253	260	237	254	392	526	615	1340	783	629	248	185
27	255	300	238	263	400	520	609	1680	1080	610	236	224
28	258	273	233	253	415	555	637	3540	991	606	241	221
29	220	230	239	266	435	585	732	3170	933	560	228	219
30	185	198	237	275	---	628	866	2710	876	507	220	250
31	155	---	230	284	---	671	---	2500	---	452	222	---
TOTAL	7393	9123	8021	7677	10243	16728	24704	40135	39490	20781	8882	5657
MEAN	238	304	259	248	353	540	823	1295	1316	670	287	189
MAX	298	476	310	284	435	671	1070	3540	2680	918	415	250
MIN	155	120	198	225	280	420	609	762	619	452	206	131
AC-FT	14660	18100	15910	15230	20320	33180	49000	79610	78330	41220	17620	11220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1939	404	1036	1966	157	1957
1940	414	745	1966	240	1953
1941	341	499	1983	226	1953
1942	305	449	1980	181	1963
1943	334	643	1962	193	1964
1944	517	1190	1986	205	1964
1945	1433	4390	1962	508	1981
1946	3121	8568	1984	1149	1990
1947	4355	9999	1983	830	1954
1948	1396	5256	1983	204	1939
1949	495	1484	1983	135	1940
1950	298	821	1965	93.3	1944

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1939 - 1992
ANNUAL TOTAL	280698	198834	--
ANNUAL MEAN	769	543	1121
HIGHEST ANNUAL MEAN	--	--	2169
LOWEST ANNUAL MEAN	--	--	467
HIGHEST DAILY MEAN	5600	3540	14800
LOWEST DAILY MEAN	120	120	70
ANNUAL SEVEN-DAY MINIMUM	155	148	77
INSTANTANEOUS PEAK FLOW	--	3800	16200
INSTANTANEOUS PEAK STAGE	--	5.17	11.30
ANNUAL RUNOFF (AC-FT)	556800	394400	811900
10 PERCENT EXCEEDS	1760	987	3140
50 PERCENT EXCEEDS	366	366	430
90 PERCENT EXCEEDS	219	218	225

06630000 NORTH PLATTE RIVER ABOVE SEMINOLE RESERVOIR, NEAR SINCLAIR, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1978 to October 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
16...	1145	242	441	8.3	11.0	598	7.4	8.7	101	K5	K3
DEC											
03...	1130	223	600	8.0	0.0	600	3.1	11.0	96	K1	34
FEB											
26...	1110	392	565	7.8	0.0	606	1.9	11.6	100	K1	240
APR											
20...	1045	980	360	8.3	6.0	600	23	9.8	100	K12	17
MAY											
28...	1100	3660	290	7.7	12.0	605	96	7.4	87	600	470
SEP											
08...	0945	196	402	8.7	12.0	605	8.8	8.3	97	20	110

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT											
16...	170	47	13	29	1	2.9	0	153	125	133	100
DEC											
03...	210	59	15	30	0.9	2.2	0	171	140	164	120
FEB											
26...	190	51	14	35	1	2.2	0	148	121	132	110
APR											
20...	140	38	10	20	0.7	2.5	0	127	104	96	74
MAY											
28...	110	30	8.3	16	0.7	2.2	0	125	102	97	48
SEP											
08...	150	40	12	27	1	2.6	10	134	126	127	67

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT											
16...	12	0.4	14	290	293	0.39	189	0.02	<0.01	<0.05	<0.05
DEC											
03...	12	0.4	18	296	341	0.40	178	<0.01	<0.01	<0.05	<0.05
FEB											
26...	20	0.4	15	328	321	0.45	347	<0.01	<0.01	<0.05	<0.05
APR											
20...	7.1	0.4	11	212	226	0.29	561	0.01	<0.01	<0.05	<0.05
MAY											
28...	5.3	0.2	13	192	184	0.26	1900	<0.01	<0.01	<0.05	<0.05
SEP											
08...	4.7	0.4	9.7	244	240	0.33	129	--	--	--	--

PLATTE RIVER BASIN

06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 16...	0.02	0.03	0.3	<0.01	<0.01	<0.01	<0.01	14	9.1	92
DEC 03...	0.02	<0.01	0.3	0.03	<0.01	0.01	<0.01	19	11	91
FEB 26...	0.01	0.02	0.3	0.03	0.03	<0.01	<0.01	18	19	48
APR 20...	0.03	0.03	0.4	0.05	0.02	0.03	0.01	67	177	94
MAY 28...	0.02	0.02	0.7	0.07	0.04	0.02	<0.01	358	3540	72
SEP 08...	--	--	--	--	--	--	--	38	20	86

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
DEC 03...	1130	223	<10	56	<3	25	31
FEB 26...	1110	392	<10	42	<3	21	40
APR 20...	1045	980	<10	39	<3	80	20
SEP 08...	0945	196	220	47	<3	250	28

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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)
DEC 03...	12	<10	<1	<1	<1.0	400	<6
FEB 26...	13	<10	<1	<1	<1.0	340	<6
APR 20...	16	<10	<1	<1	<1.0	260	<6
SEP 08...	20	<10	<1	<1	<1.0	320	<6

PLATTE RIVER BASIN
06632050 CARLSON CREEK DITCH NEAR ARLINGTON, WY

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LOCATION.--Lat 41°29'45", long 106°16'42", unsurveyed, T.18 N., R.79 W., Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, on left bank 250 ft downstream from diversion on Carlson Creek (diversion 3.0 mi upstream from mouth of Carlson Creek) and 7.8 mi south of Arlington.

PERIOD OF RECORD.--April to September 1992 (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 9,500 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 1 to May 3. Records good except those Apr. 27 to May 3 and those less than 0.50 ft³/s, which are poor. Results of discharge measurements, in cubic feet per second, for Carlson Creek upstream from the diversion are given below:

Apr. 24 . . .	0.73	July 9 . . .	1.58
June 9 . . .	6.74	Aug. 10 . . .	0.68
June 9 . . .	6.61	Sept. 8 . . .	1.24

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	1.3	.01	.01	.01	.02
2	---	---	---	---	---	---	.00	5.0	.01	.01	.01	.02
3	---	---	---	---	---	---	.00	10	.01	.01	.02	.01
4	---	---	---	---	---	---	.00	13	.01	.00	.02	.01
5	---	---	---	---	---	---	.00	16	.01	.00	.02	.01
6	---	---	---	---	---	---	.00	19	.01	.00	.02	.02
7	---	---	---	---	---	---	.00	20	.00	.00	.02	.03
8	---	---	---	---	---	---	.00	11	.01	.00	.02	.02
9	---	---	---	---	---	---	.00	.45	.01	.00	.02	.01
10	---	---	---	---	---	---	.00	.11	.00	.00	.02	.01
11	---	---	---	---	---	---	.00	.06	.00	.00	.01	.01
12	---	---	---	---	---	---	.00	.02	.00	.00	.01	.01
13	---	---	---	---	---	---	.00	.02	.00	.00	.01	.01
14	---	---	---	---	---	---	.00	.02	.00	.00	.01	.01
15	---	---	---	---	---	---	.00	.02	.01	.00	.02	.01
16	---	---	---	---	---	---	.00	.02	.01	.00	.02	.01
17	---	---	---	---	---	---	.00	.02	.01	.00	.02	.01
18	---	---	---	---	---	---	.00	.02	.01	.01	.02	.01
19	---	---	---	---	---	---	.00	.02	.00	.01	.01	.01
20	---	---	---	---	---	---	.00	.03	.00	.01	.01	.01
21	---	---	---	---	---	---	.00	.06	.01	.01	.01	.01
22	---	---	---	---	---	---	.00	.03	.01	.00	.01	.01
23	---	---	---	---	---	---	.00	.02	.01	.01	.02	.01
24	---	---	---	---	---	---	.00	.01	.01	.01	.02	.01
25	---	---	---	---	---	---	.00	.01	.01	.01	.01	.03
26	---	---	---	---	---	---	.00	.01	.01	.00	.01	.02
27	---	---	---	---	---	---	.02	.04	.01	.00	.01	.02
28	---	---	---	---	---	---	.05	.02	.01	.01	.01	.02
29	---	---	---	---	---	---	.10	.01	.01	.01	.01	.02
30	---	---	---	---	---	---	.30	.01	.01	.01	.01	.02
31	---	---	---	---	---	---	---	.01	---	.01	.01	---
TOTAL	---	---	---	---	---	---	0.47	96.34	0.22	0.14	0.45	0.43
MEAN	---	---	---	---	---	---	.016	3.11	.007	.005	.015	.014
MAX	---	---	---	---	---	---	.30	20	.01	.01	.02	.03
MIN	---	---	---	---	---	---	.00	.01	.00	.00	.01	.01
AC-FT	---	---	---	---	---	---	.9	191	.4	.3	.9	.9

SUMMARY STATISTICS FOR 1992 WATER YEAR*
HIGHEST DAILY MEAN 20 May 7
LOWEST DAILY MEAN .00 Several days
INSTANTANEOUS PEAK FLOW 23a May 6
INSTANTANEOUS PEAK STAGE 3.76b Apr. 29

* During period of operation.
a Gage height, 2.37 ft.
b Backwater from snow in canal.

PLATTE RIVER BASIN
06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY

LOCATION.--Lat 41°35'07", long 106°13'20", in SE¼ SW¼ sec. 25, T.19 N., R.79 W., Carbon County, Hydrologic Unit 10180004, on left bank 200 ft upstream from point of diversion to King Canyon Canal, 0.4 mi downstream from Overland Creek, 1.0 mi southwest of Arlington, and 6.9 mi southwest of McFadden.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR WY-86: 1985(m). WDR WY-87: 1985.

GAGE.--Water-stage recorder. Elevation of gage is 7,790 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 6, Nov. 11, 12, Nov. 15 to Dec. 7, Dec. 12-19, Dec. 22 to Jan. 11, Feb. 5-10, Mar. 7, 9-26, Mar. 29 to Apr. 1, and Sept. 7. Records good except those for estimated daily discharges, which are poor. Minor regulation by Sand Lake, capacity, 1,100 acre-ft, on Deep Creek, 12 mi upstream. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	1700	*1,120	*4.39	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	5.6	7.6	8.3	7.8	8.3	9.9	123	252	68	21	17
2	13	4.8	8.1	8.8	7.8	8.2	12	130	227	82	20	18
3	12	5.5	8.5	9.3	7.6	8.1	14	137	227	90	21	15
4	12	7.0	9.0	9.7	7.3	8.1	16	155	235	67	63	13
5	12	8.3	9.4	10	7.0	8.5	17	184	229	58	97	14
6	14	9.7	9.7	11	6.9	9.0	17	228	211	53	93	13
7	14	11	10	11	7.1	9.1	16	271	207	53	87	20
8	12	12	11	10	7.4	8.8	18	262	189	58	81	17
9	12	12	11	9.4	7.6	8.1	21	266	181	52	73	14
10	12	13	11	10	7.7	7.9	21	252	193	47	64	12
11	12	12	10	10	7.8	8.5	24	239	199	45	44	11
12	12	11	9.3	10	7.9	9.1	32	265	184	57	32	10
13	11	12	8.6	9.7	7.9	9.8	34	297	175	68	26	10
14	11	11	8.2	9.7	7.8	10	34	312	162	48	23	9.9
15	11	10	8.6	9.7	7.9	11	35	299	149	41	20	9.8
16	11	9.5	9.0	9.9	7.9	12	32	305	121	40	18	9.7
17	9.7	9.2	9.3	9.6	7.8	11	38	315	142	43	27	9.8
18	9.1	9.0	9.6	9.4	7.8	11	34	349	154	39	23	10
19	8.9	8.6	9.7	9.3	8.2	11	29	357	129	36	19	9.8
20	8.9	8.3	9.8	9.4	8.1	10	27	435	130	54	17	9.5
21	9.0	8.7	9.0	9.6	8.0	9.4	29	764	137	60	16	9.3
22	8.8	8.5	8.8	9.6	7.7	9.4	28	499	110	42	16	9.4
23	9.0	6.8	9.2	10	7.6	9.8	27	345	97	36	16	9.1
24	9.0	7.6	9.3	10	7.9	10	25	324	95	34	19	9.0
25	8.9	8.6	9.2	9.6	8.4	10	25	314	128	32	16	14
26	11	9.6	9.2	9.3	7.9	10	29	291	199	38	17	15
27	11	11	9.4	9.2	8.3	11	39	493	108	29	15	15
28	9.0	10	9.7	9.2	8.3	11	55	326	92	26	14	15
29	5.1	9.4	9.7	8.8	8.1	10	74	251	84	24	13	14
30	7.4	8.5	9.3	8.3	---	11	103	216	74	23	13	13
31	6.6	---	8.7	8.1	---	10	---	235	---	22	16	---
TOTAL	327.4	278.2	288.9	295.9	225.5	299.1	914.9	9239	4820	1465	1040	375.3
MEAN	10.6	9.27	9.32	9.55	7.78	9.65	30.5	298	161	47.3	33.5	12.5
MAX	15	13	11	11	8.4	12	103	764	252	90	97	20
MIN	5.1	4.8	7.6	8.1	6.9	7.9	9.9	123	74	22	13	9.0
AC-FT	649	552	573	587	447	593	1810	18330	9560	2910	2060	744

PLATTE RIVER BASIN
06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)												
MEAN	17.0	13.6	11.7	10.8	10.7	10.5	22.9	215	513	135	32.6	21.9
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	11.3	59.3	158	30.9	14.8	10.4
(WY)	1990	1977	1968	1969	1969	1969	1991	1968	1987	1977	1987	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1966 - 1992		
ANNUAL TOTAL	23902.4			19569.2			--		
ANNUAL MEAN	65.5			53.5			84.5a		
HIGHEST ANNUAL MEAN	--			--			142		
LOWEST ANNUAL MEAN	--			--			48.9		
HIGHEST DAILY MEAN	1030	Jun	2	764	May	21	1690	Jun	19 1971
LOWEST DAILY MEAN	4.8	Nov	2	4.8	Nov	2	4.8	Nov	2 1991
ANNUAL SEVEN-DAY MINIMUM	6.0	Oct	29	6.0	Oct	29	6.0	Oct	29 1991
INSTANTANEOUS PEAK FLOW	--			1120	May	21	2590b	Jun	19 1971
INSTANTANEOUS PEAK STAGE	--			4.39	May	21	5.92	Jun	24 1983
ANNUAL RUNOFF (AC-FT)	47410			38820			61200		
10 PERCENT EXCEEDS	206			190			268		
50 PERCENT EXCEEDS	11			12			16		
90 PERCENT EXCEEDS	8.3			8.1			9.0		

a Annual mean, water years 1955-92, 81.0 ft³/s, includes records for station 06632500 Rock Creek at Arlington for water years 1955-65, adjusted for diversions by King Canyon Canal.
b Gage height, 5.83 ft.

PLATTE RIVER BASIN
06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY

LOCATION.--Lat 41°57'40", long 106°12'31", in NW¼ SW¼ SW¼ sec.17, T.23 N., R.78 W., Carbon County, Hydrologic Unit 10180005, on right bank 50 ft downstream from Boles Spring, 3.8 mi downstream from State Highway 487, 4.3 mi north of Medicine Bgw, 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. Miscellaneous discharge measurements of Boles Spring are made periodically and are tabulated in this report for water years 1985, 1988-92.

GAGE.--Water-stage recorder. Elevation of gage is 6,570 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 29 to Dec. 3. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 5,200 acres 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 27	0900	*122	*2.37	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	1.9	3.3	.76	1.4	12	31	26	24	42	11	4.2
2	7.8	1.5	2.8	.93	1.4	15	37	26	18	37	9.3	4.4
3	6.9	1.3	2.4	.88	1.4	16	35	28	16	37	7.8	4.0
4	8.5	1.2	2.2	.88	1.3	21	32	27	15	34	7.8	4.8
5	8.9	1.6	2.3	.94	1.3	20	34	26	14	29	7.4	6.5
6	7.9	3.1	2.4	.95	1.2	22	35	25	13	24	6.4	6.0
7	8.1	3.4	2.4	.93	1.3	17	35	24	11	21	5.2	5.7
8	8.4	4.6	2.2	1.0	1.4	17	33	23	8.7	17	4.3	5.0
9	8.3	12	2.1	1.0	1.5	12	29	23	7.4	15	3.7	3.9
10	8.2	22	2.2	1.0	1.4	16	24	23	7.0	12	3.2	3.4
11	8.4	16	2.2	1.1	1.5	27	22	22	7.2	12	2.6	3.2
12	8.1	12	2.0	1.1	1.6	25	21	21	28	21	2.3	2.8
13	8.0	15	1.8	1.0	1.7	23	21	18	20	16	2.3	2.6
14	8.5	14	1.5	1.0	1.8	26	21	16	14	13	2.2	2.3
15	8.8	5.5	1.3	1.0	1.9	33	22	14	12	11	2.2	2.2
16	8.2	7.6	1.3	1.1	1.9	36	27	13	8.5	11	2.1	2.1
17	7.6	9.2	1.1	.96	1.9	45	32	12	8.7	9.9	2.5	1.9
18	7.1	11	.97	.96	1.7	44	32	11	7.2	9.0	2.7	1.7
19	7.4	8.8	1.0	.96	2.0	37	32	9.2	5.5	22	2.7	1.7
20	8.4	6.3	1.3	.88	2.2	32	32	7.8	4.6	46	2.0	1.7
21	8.2	7.4	1.4	.90	2.3	38	31	11	4.4	74	1.7	1.6
22	8.0	7.3	1.3	.99	2.2	35	29	16	3.9	57	2.4	1.7
23	7.3	9.0	1.2	.99	2.3	37	29	13	3.8	28	3.3	1.6
24	8.1	7.7	1.0	1.1	3.0	42	29	12	3.8	22	3.1	1.6
25	8.3	7.7	.97	1.2	3.5	38	26	22	12	35	4.1	1.9
26	9.6	8.0	.91	1.3	4.8	34	25	20	59	44	6.1	1.8
27	9.2	7.7	.82	1.4	5.8	35	23	58	91	49	6.1	1.7
28	4.3	6.0	.73	1.4	6.9	38	24	47	51	35	5.2	2.0
29	3.9	4.6	.71	1.4	10	35	25	23	45	22	4.0	2.0
30	2.7	4.0	.67	1.4	---	37	26	20	42	15	3.7	2.2
31	2.1	---	.71	1.4	---	38	---	21	---	13	3.3	---
TOTAL	234.6	227.4	49.19	32.81	72.6	903	854	658.0	565.7	832.9	132.7	88.2
MEAN	7.57	7.58	1.59	1.06	2.50	29.1	28.5	21.2	18.9	26.9	4.28	2.94
MAX	9.6	22	3.3	1.4	10	45	37	58	91	74	11	6.5
MIN	2.1	1.2	.67	.76	1.2	12	21	7.8	3.8	9.0	1.7	1.6
AC-FT	465	451	98	65	144	1790	1690	1310	1120	1650	263	175

PLATTE RIVER BASIN

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06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

MEAN	9.94	9.47	4.29	1.98	15.9	50.2	122	112	45.1	17.0	8.15	9.01
MAX	18.0	17.3	11.5	4.92	110	114	246	235	143	40.0	22.1	19.5
(WY)	1985	1985	1987	1985	1986	1986	1988	1991	1991	1991	1990	1985
MIN	4.48	5.38	1.59	1.06	1.05	20.3	28.5	21.2	12.1	6.72	2.36	2.94
(WY)	1990	1989	1992	1992	1990	1988	1992	1992	1990	1990	1988	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1985 - 1992			
ANNUAL TOTAL	17087.22				4651.10				--			
ANNUAL MEAN	46.8				12.7				33.8a			
HIGHEST ANNUAL MEAN	--				--				65.3			1986
LOWEST ANNUAL MEAN	--				--				12.7			1992
HIGHEST DAILY MEAN	679			Jun 4	91			Jun 27	691		Feb 26	1986
LOWEST DAILY MEAN	.67			Dec 30	.67			Dec 30	.51b		Jan 23	1987
ANNUAL SEVEN-DAY MINIMUM	.79			Dec 25	.76			Dec 26	.64		Jan 19	1987
INSTANTANEOUS PEAK FLOW	--				122			Jun 27	9500c		May 17	1978
INSTANTANEOUS PEAK STAGE	--				2.37			Jun 27	14.10d		May 17	1978
ANNUAL RUNOFF (AC-FT)	33890				9230				24460			
10 PERCENT EXCEEDS	155				34				92			
50 PERCENT EXCEEDS	9.5				7.7				8.3			
90 PERCENT EXCEEDS	1.3				1.2				1.4			

a Average discharge, water years 1974-92, unadjusted for flow from Boles Spring, 51.9 ft³/s.

b No flow at times, water years 1974-84, site then in use.

c From slope-area measurement of peak flow.

d From floodmark in gage well, site and datum then in use.

PLATTE RIVER BASIN
06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY

LOCATION.--Lat 42°00'35", long 106°30'45", in SE¼ NW¼ 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 Seminoe Reservoir at elevation 6,357 ft, and 10 mi north of Hanna.

DRAINAGE AREA.--2,338 mi², of which 396 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

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 and concrete control. Datum of gage is 6,415.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 7, Nov. 16-21, 23-26, Nov. 29 to Jan. 27, and Feb. 4 to Mar. 2. Records good except those for estimated daily discharges, which are poor. Many small reservoirs upstream from station, total capacity, about 6,000 acre-ft, for irrigation. Diversions for irrigation of about 43,000 acres upstream from station.

COOPERATION.--Ten discharge measurements provided by the Bureau of Reclamation and eleven discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	5.7	27	21	26	87	128	145	444	84	47	8.0
2	14	5.4	30	22	27	97	125	168	467	78	44	7.2
3	13	6.0	33	22	27	104	123	179	422	75	41	6.2
4	13	7.3	36	22	26	114	120	185	299	173	40	6.8
5	14	9.1	42	21	24	128	117	178	215	80	38	6.8
6	16	12	52	22	23	125	129	159	159	61	35	6.7
7	14	16	59	22	23	140	152	162	130	57	32	9.7
8	13	21	54	21	24	131	157	153	128	53	26	8.0
9	12	36	48	19	26	102	141	138	119	49	25	7.4
10	12	55	45	19	28	93	128	139	115	44	25	7.2
11	13	61	36	20	30	123	126	138	113	39	24	7.1
12	13	80	32	19	33	135	139	154	148	46	22	6.7
13	13	83	33	19	35	150	138	126	147	49	19	6.2
14	13	90	30	20	38	160	150	106	120	40	18	5.9
15	14	53	27	18	40	150	173	105	110	35	18	6.0
16	14	35	24	20	38	148	175	121	101	35	18	5.0
17	13	45	21	21	36	158	184	115	95	40	20	5.2
18	12	54	23	22	35	167	201	95	91	45	20	5.3
19	12	46	19	21	37	163	203	77	81	107	21	5.0
20	12	33	25	22	42	144	230	71	93	210	29	4.8
21	12	42	20	22	46	131	202	91	130	480	24	5.0
22	13	46	17	21	46	117	173	120	68	148	20	5.3
23	13	27	20	21	45	115	153	269	49	107	16	5.1
24	13	33	20	21	43	109	146	400	52	95	13	3.9
25	14	47	20	23	47	113	141	350	55	163	16	39
26	16	56	19	22	53	109	132	441	58	122	37	12
27	16	57	18	22	60	110	115	445	109	139	14	8.9
28	10	52	19	21	68	110	100	509	105	107	10	8.0
29	8.6	41	21	22	77	115	104	723	112	83	8.1	7.9
30	7.3	33	19	23	---	126	116	570	99	65	8.3	8.1
31	6.5	---	20	24	---	128	---	514	---	54	7.9	---
TOTAL	393.4	1187.5	909	655	1103	3902	4421	7146	4434	2963	736.3	234.4
MEAN	12.7	39.6	29.3	21.1	38.0	126	147	231	148	95.6	23.8	7.81
MAX	16	90	59	24	77	167	230	723	467	480	47	39
MIN	6.5	5.4	17	18	23	87	100	71	49	35	7.9	3.9
AC-FT	780	2360	1800	1300	2190	7740	8770	14170	8790	5880	1460	465

PLATTE RIVER BASIN
06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	42.8	49.9	37.9	30.3	47.4	138	341	568	661	178	57.3	30.0
MAX	132	114	72.9	55.1	397	616	950	3059	2076	1030	246	235
(WY)	1963	1974	1974	1985	1962	1943	1983	1973	1983	1983	1983	1973
MIN	9.65	16.3	8.70	7.76	10.0	20.4	77.3	81.5	58.6	5.71	5.70	3.78
(WY)	1957	1940	1979	1979	1949	1944	1981	1954	1954	1939	1954	1956

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1939 - 1992			
ANNUAL TOTAL	60178.5				28084.6				--			
ANNUAL MEAN	165				76.7				182			
HIGHEST ANNUAL MEAN	--				--				531			
LOWEST ANNUAL MEAN	--				--				43.7			
HIGHEST DAILY MEAN	2150				723				5330			
LOWEST DAILY MEAN	5.4				3.9				1.1			
	Jun 5				May 29				May 11			
	Nov 2				Sep 24				Sep 7-14			
ANNUAL SEVEN-DAY MINIMUM	6.7				4.9				1.1			
INSTANTANEOUS PEAK FLOW	Oct 29				Sep 18				6010a			
INSTANTANEOUS PEAK STAGE					3.79				8.20b			
									or 27			
ANNUAL RUNOFF (AC-FT)	119400				55710				132000			
10 PERCENT EXCEEDS	434				158				534			
50 PERCENT EXCEEDS	45				40				51			
90 PERCENT EXCEEDS	13				8.8				15			

a Gage height, 6.74 ft.

b From floodmarks, backwater from ice.

06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)
OCT 18...	0855	11	5.0	1500	56	1.1	16
APR 30...	1400	125	23.5	1050	14	10	6.6
MAY 19...	1220	72	20.5	820	12	1.7	6.2
28...	1620	543	14.0	760	9.6	160	9.1

DATE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT 18...	11	12	11	0.32	43	2
APR 30...	7.1	4.9	6.5	0.21	13	3
MAY 19...	3.2	4.7	3.0	0.19	7.7	1
28...	76	6.9	69	0.12	7.2	<1

PLATTE RIVER BASIN

06635500 SEMINOE RESERVOIR NEAR LEO, WY

LOCATION.--Lat 42°09'21", long 106°54'29", in NW¼ NE¼ sec.8, T.25 N., R.84 W., Carbon County, Hydrologic Unit 10180003, on upstream side near center of dam on North Platte River, 6.0 mi upstream from high-water line of Pathfinder Reservoir at elevation 5,850.1 ft, and 9.0 mi southwest of Leo.

DRAINAGE AREA.--7,230 mi², of which 589 mi² is probably noncontributing.

PERIOD OF RECORD.--February 1939 to current year. Monthend figures only for February, March 1939, October 1940 to September 1950, published in WSP 1310.

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

GAGE.--Water-stage recorder. Datum of gage is 6,190.00 ft above National Geodetic Vertical Datum of 1929 (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, 458,000 acre-ft, June 4-7, elevation, 6,320.07 ft, June 4; minimum daily contents, 276,000 acre-ft, Sep. 30, elevation, 6,299.88 ft.

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

6,295	241,000	6,310	359,000	6,325	514,000
6,300	277,000	6,320	458,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440000	418000	413000	405000	388000	381000	395000	413000	452000	423000	348000	299000
2	439000	418000	412000	404000	387000	381000	396000	414000	455000	421000	344000	298000
3	438000	417000	411000	403000	387000	381000	397000	415000	457000	419000	339000	297000
4	437000	416000	411000	403000	387000	382000	397000	416000	458000	417000	335000	297000
5	436000	418000	411000	402000	386000	383000	398000	417000	458000	416000	331000	296000
6	436000	418000	410000	401000	386000	383000	399000	418000	458000	413000	328000	295000
7	435000	418000	410000	400000	386000	384000	400000	418000	458000	411000	327000	294000
8	435000	418000	410000	399000	385000	384000	401000	419000	457000	408000	326000	293000
9	434000	417000	410000	398000	385000	384000	401000	419000	457000	406000	325000	293000
10	433000	418000	410000	398000	384000	385000	402000	419000	457000	403000	324000	292000
11	433000	418000	410000	397000	384000	385000	402000	422000	457000	401000	323000	291000
12	432000	418000	410000	397000	384000	385000	403000	420000	457000	399000	322000	291000
13	431000	418000	409000	397000	383000	386000	402000	420000	456000	397000	321000	290000
14	431000	418000	409000	396000	383000	387000	403000	420000	457000	396000	320000	289000
15	430000	418000	409000	396000	383000	387000	404000	420000	455000	393000	318000	288000
16	430000	418000	408000	395000	383000	388000	405000	419000	453000	391000	317000	287000
17	429000	419000	408000	395000	382000	389000	406000	420000	451000	389000	316000	286000
18	428000	418000	408000	394000	382000	389000	407000	420000	450000	386000	315000	285000
19	428000	417000	407000	394000	382000	390000	408000	420000	447000	385000	314000	284000
20	427000	416000	407000	393000	381000	390000	409000	420000	449000	385000	313000	283000
21	426000	415000	407000	393000	381000	391000	410000	420000	449000	383000	311000	283000
22	425000	414000	406000	392000	381000	391000	410000	422000	447000	382000	311000	282000
23	424000	414000	406000	392000	381000	391000	411000	425000	444000	379000	309000	281000
24	424000	413000	406000	391000	381000	392000	411000	426000	442000	377000	308000	281000
25	423000	414000	406000	391000	381000	392000	411000	428000	439000	374000	307000	280000
26	423000	414000	406000	390000	381000	393000	411000	429000	435000	372000	305000	279000
27	422000	413000	406000	390000	381000	393000	411000	431000	432000	369000	304000	278000
28	421000	414000	406000	390000	381000	393000	411000	436000	429000	364000	302000	277000
29	420000	413000	406000	389000	381000	394000	412000	441000	426000	360000	301000	277000
30	420000	413000	405000	389000	---	394000	412000	446000	425000	357000	301000	276000
31	419000	---	405000	388000	---	395000	---	449000	---	352000	300000	---
MAX	440000	419000	413000	405000	388000	395000	412000	449000	458000	423000	348000	299000
MIN	419000	413000	405000	388000	381000	381000	395000	413000	425000	352000	300000	276000
(#)	6,316.30	6,315.68	6,314.88	6,313.13	6,312.35	6,313.83	6,315.56	6,319.21	6,316.84	6,309.14	6,302.94	6,299.88
(*)	-21,000	-6,000	-8,000	-17,000	-7,000	+14,000	+17,000	+37,000	-24,000	-73,000	-52,000	-24,000

CAL YR 1991 MAX 646000 MIN 326000 (*) +8,000

WTR YR 1992 MAX 458000 MIN 276000 (*) -164,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN
06637750 ROCK CREEK ABOVE ROCK CREEK RESERVOIR, WY

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LOCATION.--Lat 42°32'59", long 108°46'26", in NW¼ NW¼ sec.27, T.30 N., R.100 W., Fremont County, Hydrologic Unit 10180006, Shoshone National Forest, on left bank 200 ft upstream from high-water line of Rock Creek Reservoir, 2.7 mi downstream from Little Rock Creek, and 4.3 mi northwest of Atlantic City.

DRAINAGE AREA.--9.2 mi², approximately.

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 8,330 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 11 and Nov. 19 to Mar. 8. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 26	1500	*27	*5.73	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.1	.90	1.0	1.1	1.6	1.2	2.8	15	8.9	4.0	2.7
2	2.3	1.7	1.0	1.0	1.1	1.8	1.2	3.0	12	13	4.1	2.5
3	2.2	1.5	1.2	1.0	1.1	1.7	1.3	3.4	11	9.6	4.0	2.3
4	2.2	1.4	1.4	1.1	1.2	1.5	1.4	3.5	11	8.0	3.9	3.0
5	2.3	1.5	1.6	1.0	1.2	1.4	1.5	3.8	11	7.3	3.7	2.7
6	2.3	1.6	1.7	.90	1.2	1.4	1.6	4.0	11	6.8	3.7	2.7
7	2.3	1.8	1.7	.90	1.3	1.4	1.8	4.2	9.7	8.6	3.4	2.3
8	2.2	1.8	1.7	.90	1.3	1.4	1.1	4.5	9.3	7.4	3.3	2.3
9	2.2	1.9	1.7	.86	1.3	1.4	1.2	4.8	9.2	6.9	3.1	2.3
10	2.2	1.9	1.8	.80	1.4	1.4	1.3	5.1	8.7	6.4	3.0	2.3
11	2.1	1.9	1.7	.74	1.4	1.4	1.4	5.5	8.3	6.2	2.9	2.2
12	2.1	1.9	1.7	.74	1.4	1.4	1.5	6.0	8.1	9.0	2.9	2.8
13	2.0	2.0	1.7	.74	1.4	1.4	1.6	6.4	7.4	7.8	2.9	3.0
14	2.0	2.0	1.6	.74	1.4	1.5	1.8	6.9	7.3	6.2	2.8	2.4
15	2.1	1.9	1.6	.70	1.4	1.5	2.0	7.5	10	5.7	2.8	2.3
16	2.0	2.1	1.6	.74	1.4	1.5	2.1	7.9	8.8	5.6	3.2	2.2
17	2.0	2.1	1.6	.74	1.5	1.5	2.3	8.3	7.7	5.8	3.4	2.1
18	2.0	2.1	1.6	.74	1.5	1.4	2.5	8.1	7.1	5.3	3.0	2.1
19	2.0	1.9	1.6	.76	1.5	1.4	2.0	7.8	6.4	6.7	2.7	2.1
20	1.9	1.7	1.5	.76	1.5	1.4	1.7	8.0	6.4	15	2.6	2.1
21	2.0	1.6	1.4	.76	1.4	1.4	1.7	8.4	6.0	9.6	2.6	2.0
22	2.1	1.4	1.2	.82	1.4	1.4	1.8	10	5.7	7.0	2.8	2.1
23	2.2	1.3	.90	.82	1.4	1.4	2.0	7.8	5.4	6.0	3.3	2.1
24	2.5	1.4	1.0	.90	1.4	1.4	1.7	8.9	5.1	5.4	2.7	2.4
25	2.3	1.4	1.0	.82	1.5	1.4	1.8	12	15	5.5	2.6	2.3
26	2.2	1.4	1.0	.84	1.6	1.4	2.0	8.9	15	5.3	2.7	2.2
27	2.1	1.5	1.0	.84	1.7	1.3	2.1	13	12	4.7	2.5	2.2
28	1.7	1.3	1.0	.84	1.7	1.4	2.3	11	11	4.6	2.4	2.1
29	2.0	1.1	1.0	.90	1.8	1.3	2.4	11	10	4.5	2.3	2.2
30	2.1	1.0	1.0	1.0	---	1.4	2.6	14	9.1	4.3	2.4	2.1
31	2.2	---	1.0	1.1	---	1.4	---	16	---	4.2	2.4	---
TOTAL	66.3	50.2	42.40	26.50	40.5	44.6	52.9	232.5	279.7	217.3	94.1	70.1
MEAN	2.14	1.67	1.37	.85	1.40	1.44	1.76	7.50	9.32	7.01	3.04	2.34
MAX	2.5	2.1	1.8	1.1	1.8	1.8	2.6	16	15	15	4.1	3.0
MIN	1.7	1.0	.90	.70	1.1	1.3	1.1	2.8	5.1	4.2	2.3	2.0
AC-FT	132	100	84	53	80	88	105	461	555	431	187	139

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.27	1.85	1.57	1.36	1.29	1.32	4.09	32.6	39.5	7.88	3.04	2.41																			
MAX	3.84	3.05	2.61	2.31	1.92	2.35	10.6	61.7	95.8	19.8	5.13	5.69																			
(WY)	1983	1974	1974	1974	1974	1972	1987	1980	1965	1983	1979	1973																			
MIN	1.03	.94	.79	.62	.60	.65	1.20	7.50	3.76	2.42	1.22	.88																			
(WY)	1963	1963	1963	1963	1963	1963	1964	1992	1977	1977	1962	1962																			

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	3198.22	1217.10	--
ANNUAL MEAN	8.76	3.33	8.31
HIGHEST ANNUAL MEAN	--	--	15.6
LOWEST ANNUAL MEAN	--	--	2.63
HIGHEST DAILY MEAN	115 Jun 2	16 May 31	190 Jun 10 1965
LOWEST DAILY MEAN	.70 Jan 10	.70 Jan 15	.50 Jan 12-14 1963, Feb 1 1985
ANNUAL SEVEN-DAY MINIMUM	.71 Jan 10	.73 Jan 11	.55 Jan 28 1985
INSTANTANEOUS PEAK FLOW	--	27 Jun 26	218a Jun 1 1986
INSTANTANEOUS PEAK STAGE	--	5.73 Jun 26	8.54b Apr 22 1965
ANNUAL RUNOFF (AC-FT)	6340	2410	6020
10 PERCENT EXCEEDS	24	8.3	24
50 PERCENT EXCEEDS	2.2	2.1	2.1
90 PERCENT EXCEEDS	.95	1.0	1.0
a Gage height, 7.17 ft.			
b Backwater from ice.			

PLATTE RIVER BASIN
06638090 SWEETWATER RIVER NEAR SWEETWATER STATION, WY

LOCATION.--Lat 42°30'17", long 108°14'59", in SW¼ SE¼ NE¼ sec.12, T.29 N., R.96 W., Fremont County, Hydrologic Unit 10180006, on left bank 1.4 mi downstream from Alkali Creek and 4.4 mi southwest of Sweetwater Station.

DRAINAGE AREA.--849 mi².

PERIOD OF RECORD.--October 1973 to September 1992 (discontinued).

REVISED RECORDS.--WDR WY-85-1: 1984(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,590 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 13 and Nov. 16 to Mar. 26. Records good except those for estimated daily discharges and times of beaver dam construction, which are poor. Transbasin diversion by Continental Divide ditch diverts water from Little Sandy Creek to land along Lander Creek (tributary to Sweetwater River). A transbasin diversion diverts water from Sweetwater River into Pacific Creek (tributary to Big Sandy River in Green River basin).

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 5	2400	*231	2.71	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	20	18	20	21	38	98	86	115	68	32	15
2	21	19	19	19	20	40	103	94	118	71	32	16
3	21	18	20	18	21	40	111	91	101	73	32	15
4	22	18	21	17	20	40	126	75	86	76	31	15
5	21	24	23	18	20	42	154	68	79	68	28	16
6	21	30	24	19	19	45	175	63	76	59	27	17
7	20	31	25	20	21	45	140	68	72	52	22	18
8	20	35	25	20	23	45	111	68	68	50	17	20
9	21	40	24	18	24	45	100	77	71	54	17	19
10	20	43	23	17	25	42	101	94	68	53	16	19
11	22	43	22	16	27	45	115	104	61	52	15	17
12	22	55	21	17	30	50	115	90	56	53	13	17
13	21	54	22	18	29	55	105	76	56	57	14	17
14	21	34	21	18	30	60	104	76	56	61	13	17
15	21	27	20	17	32	65	102	73	55	60	12	17
16	21	30	21	19	32	65	109	68	60	52	12	19
17	20	32	20	19	30	70	111	66	69	49	14	16
18	21	33	20	20	30	70	121	66	73	45	14	15
19	21	31	20	19	28	75	115	59	65	41	15	14
20	21	31	20	18	27	75	102	60	64	50	16	14
21	22	29	19	18	30	70	88	67	78	55	13	14
22	23	25	19	19	32	66	83	93	66	68	12	14
23	26	23	20	20	34	62	78	89	59	65	13	13
24	30	23	20	21	32	65	73	90	54	57	14	14
25	32	24	20	23	30	75	70	85	51	50	15	13
26	33	25	19	23	32	77	65	83	61	45	16	14
27	32	26	19	22	34	75	64	104	87	40	16	14
28	19	27	19	22	36	81	66	113	106	39	14	15
29	15	26	20	22	38	85	70	138	91	38	13	15
30	17	22	20	22	---	88	79	127	75	37	13	15
31	16	---	19	22	---	93	---	114	---	35	13	---
TOTAL	685	898	643	601	807	1889	3054	2625	2197	1673	544	474
MEAN	22.1	29.9	20.7	19.4	27.8	60.9	102	84.7	73.2	54.0	17.5	15.8
MAX	33	55	25	23	38	93	175	138	118	76	32	20
MIN	15	18	18	16	19	38	64	59	51	35	12	13
AC-FT	1360	1780	1280	1190	1600	3750	6060	5210	4360	3320	1080	940

PLATTE RIVER BASIN
06638090 SWEETWATER RIVER NEAR SWEETWATER STATION, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

MEAN	37.4	33.4	22.7	18.5	25.3	52.5	265	463	405	120	37.5	25.6
MAX	65.8	56.0	41.8	39.8	47.8	104	612	1160	970	319	73.9	59.0
(WY)	1983	1974	1984	1984	1986	1987	1974	1980	1986	1975	1979	1984
MIN	15.0	13.7	8.31	5.59	8.33	25.3	102	80.7	45.5	13.1	4.69	6.22
(WY)	1989	1978	1989	1991	1989	1975	1992	1977	1977	1977	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1974 - 1992	
ANNUAL TOTAL	38031.1		16090		--	
ANNUAL MEAN	104		44.0		126	
HIGHEST ANNUAL MEAN	--		--		241	
LOWEST ANNUAL MEAN	--		--		44.0	
HIGHEST DAILY MEAN	912	Jun 4	175	Apr 6	3340	Apr 25 1983
LOWEST DAILY MEAN	4.9	Jan 9	12	Aug 15, 16, 22	1.9	Sep 8, 10 1988
ANNUAL SEVEN-DAY MINIMUM	5.1	Jan 5	13	Aug 12	2.1	Sep 4 1988
INSTANTANEOUS PEAK FLOW	--	--	231a	Apr 5	5750	Apr 24 1980
INSTANTANEOUS PEAK STAGE	--	--	3.73b	Mar 22	12.40c	Apr 24 1980
ANNUAL RUNOFF (AC-FT)	75430		31910		91020	
10 PERCENT EXCEEDS	376		90		372	
50 PERCENT EXCEEDS	26		30		38	
90 PERCENT EXCEEDS	7.4		16		13	

a Gage height, 2.71 ft.

b Backwater from ice.

c From floodmark.

upstream from high water line of Ratcliff Reservoir at elevation 5,200 ft, and 22 mi southwest of Alcoa.
DRAINAGE AREA.--2,338 mi². Area at site prior to Apr. 1, 1992, 2,327 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 National Geodetic Vertical Datum of 1929, 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.--Estimated daily discharges: Apr. 1, 2 and July 8-11. Records good except those for estimated daily discharges, which are poor. Several small reservoirs upstream from station, combined capacity, about 5,000 acre-ft, for irrigation. Diversions for irrigation of about 24,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	105	96	53	16	35	33
2	---	---	---	---	---	---	110	92	56	24	33	32
3	---	---	---	---	---	---	117	86	60	30	32	31
4	---	---	---	---	---	---	120	88	59	27	33	31
5	---	---	---	---	---	---	122	85	53	30	32	29
6	---	---	---	---	---	---	125	79	46	27	31	29
7	---	---	---	---	---	---	127	71	37	27	30	30
8	---	---	---	---	---	---	145	51	32	34	27	31
9	---	---	---	---	---	---	159	48	32	34	25	29
10	---	---	---	---	---	---	153	48	35	32	24	29
11	---	---	---	---	---	---	134	46	39	30	23	29
12	---	---	---	---	---	---	120	44	35	31	23	29
13	---	---	---	---	---	---	117	42	33	50	20	31
14	---	---	---	---	---	---	122	45	31	46	7.4	29
15	---	---	---	---	---	---	127	42	30	42	5.9	28
16	---	---	---	---	---	---	127	39	30	35	5.9	27
17	---	---	---	---	---	---	132	32	30	34	6.7	25
18	---	---	---	---	---	---	137	28	29	33	7.4	24
19	---	---	---	---	---	---	134	26	27	33	7.0	25
20	---	---	---	---	---	---	137	24	25	37	6.3	26
21	---	---	---	---	---	---	139	21	22	41	5.9	27
22	---	---	---	---	---	---	137	20	21	42	20	29
23	---	---	---	---	---	---	129	18	20	41	25	31
24	---	---	---	---	---	---	122	18	20	40	27	31
25	---	---	---	---	---	---	115	18	19	39	31	32
26	---	---	---	---	---	---	111	16	16	39	33	32
27	---	---	---	---	---	---	106	18	18	37	32	31
28	---	---	---	---	---	---	104	41	18	37	31	31
29	---	---	---	---	---	---	104	81	19	37	30	31
30	---	---	---	---	---	---	98	59	18	37	30	31
31	---	---	---	---	---	---	---	53	---	37	30	---
TOTAL	---	---	---	---	---	---	3735	1475	963	1079	709.5	883
MEAN	---	---	---	---	---	---	124	47.6	32.1	34.8	22.9	29.4
MAX	---	---	---	---	---	---	159	96	60	50	35	33
MIN	---	---	---	---	---	---	98	16	16	16	5.9	24
AC-FT	---	---	---	---	---	---	7410	2930	1910	2140	1410	1750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1983, BY WATER YEAR (WY)

STATISTICS OF RAINFALL DATA FOR WATER YEARS 1917												
	1980, 81 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

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

WATER YEARS 1914 - 1983

DESCRIPTION	UNIT	DATE	VALUE	DATE	VALUE
ANNUAL MEAN	--		126		1924
HIGHEST ANNUAL MEAN	--		312		1940
LOWEST ANNUAL MEAN	--		25.8		1940
HIGHEST DAILY MEAN	159	Apr 9	4290	Apr 13	1924
LOWEST DAILY MEAN	5.9	Aug 15,16,21	.50	Jul 30	1940
ANNUAL SEVEN-DAY MINIMUM	--		.50	Jul 30 to	
INSTANTANEOUS PEAK FLOW	164	Apr 9	4290a	Aug 12	1940#
INSTANTANEOUS PEAK STAGE	2.51	Apr 9	9.90	Apr 13	1924#
ANNUAL RUNOFF (AC-FT)	--		91260	Apr 27	1983#
10 PERCENT EXCEEDS	121		376		
50 PERCENT EXCEEDS	32		50		
90 PERCENT EXCEEDS	18		18		

* During period of operation.

For period of record through 1992.

a Maximum observed.

06640500 PATHFINDER RESERVOIR NEAR ALCOVA, WY

LOCATION.--Lat 42°28'06", long 106°51'12", in NW¼ SW¼ sec.24, T.29 N., R.84 W., Natrona County, Hydrologic Unit 10180003, in gatehouse near left end of dam on North Platte River and 9.0 mi southwest of Alcova.

DRAINAGE AREA.--10,711 mi², of which 700 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1909 to current year. Monthend figures only for some periods, published in WSP 1310.

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

GAGE.--Water-stage recorder. Datum of gage is 5,678.1 ft above National Geodetic Vertical Datum of 1929. 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, 320,000 acre-ft, Mar. 25-30, elevation, 5,802.75 ft, Mar. 29; minimum daily contents, 183,000 acre-ft, Sept. 29-30, elevation, 5,783.38 ft, Sept. 30.

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

5,780	163,000	5,790	224,000	5,800	297,000
5,785	192,000	5,795	259,000	5,805	340,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282000	306000	300000	302000	305000	312000	318000	312000	293000	277000	252000	235000
2	283000	306000	299000	302000	305000	312000	316000	312000	292000	275000	252000	231000
3	284000	306000	299000	301000	305000	312000	315000	313000	291000	273000	255000	228000
4	285000	306000	299000	301000	305000	312000	315000	313000	290000	272000	258000	225000
5	286000	305000	299000	301000	305000	313000	315000	313000	288000	271000	259000	221000
6	287000	304000	298000	301000	306000	313000	314000	313000	289000	270000	259000	218000
7	288000	303000	298000	302000	306000	313000	313000	313000	288000	271000	257000	214000
8	289000	303000	298000	302000	306000	315000	312000	313000	288000	270000	255000	209000
9	290000	304000	299000	302000	307000	315000	311000	314000	288000	269000	255000	204000
10	291000	305000	299000	302000	307000	314000	309000	314000	288000	268000	254000	200000
11	292000	305000	299000	302000	307000	316000	308000	313000	287000	267000	252000	196000
12	293000	305000	300000	303000	307000	316000	308000	313000	286000	265000	250000	194000
13	294000	305000	299000	303000	308000	316000	308000	312000	285000	263000	249000	191000
14	295000	305000	299000	303000	308000	316000	308000	312000	283000	262000	249000	188000
15	296000	305000	299000	303000	309000	318000	307000	311000	282000	260000	249000	186000
16	297000	305000	299000	303000	310000	317000	307000	311000	282000	259000	250000	186000
17	298000	305000	300000	303000	310000	317000	306000	310000	281000	258000	250000	186000
18	299000	305000	300000	304000	310000	317000	307000	308000	281000	256000	249000	186000
19	300000	305000	300000	303000	309000	318000	308000	306000	280000	255000	248000	186000
20	301000	305000	300000	303000	309000	318000	308000	305000	279000	254000	246000	187000
21	302000	305000	301000	303000	309000	318000	307000	304000	277000	253000	245000	185000
22	303000	304000	302000	304000	309000	319000	307000	302000	275000	251000	243000	184000
23	304000	304000	302000	304000	310000	319000	308000	301000	275000	250000	243000	184000
24	305000	305000	302000	303000	310000	319000	308000	298000	275000	249000	243000	183000
25	306000	303000	302000	304000	311000	320000	309000	296000	275000	248000	242000	184000
26	306000	304000	302000	305000	310000	320000	311000	295000	275000	249000	241000	184000
27	308000	303000	301000	305000	310000	320000	311000	295000	276000	249000	241000	184000
28	308000	303000	301000	304000	311000	320000	311000	295000	277000	250000	240000	184000
29	307000	302000	302000	305000	311000	320000	311000	294000	278000	250000	238000	183000
30	307000	301000	302000	305000	---	320000	311000	294000	277000	252000	239000	183000
31	307000	---	302000	305000	---	319000	---	293000	---	252000	238000	---
MAX	308000	306000	302000	305000	311000	320000	318000	314000	293000	277000	259000	235000
MIN	282000	301000	298000	301000	305000	312000	306000	293000	275000	248000	238000	183000
(#)	5,801.15	5,800.44	5,800.58	5,800.96	5,801.65	5,802.63	5,801.69	5,799.48	5,797.49	5,794.00	5,792.01	5,783.38
(*)	+25,000	-6,000	+1,000	+3,000	+6,000	+8,000	-8,000	-18,000	-16,000	-25,000	-14,000	-55,000

CAL YR 1991 MAX 340000 MIN 250000 (*) +52,000

WTR YR 1992 MAX 320000 MIN 183000 (*) -99,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN

06641500 ALCOVA RESERVOIR AT ALCOVA, WY

LOCATION.--Lat 42°32'52", long 106°43'08", in SE¼ SE¼ sec.24, T.30 N., R.83 W., Natrona County, Hydrologic Unit 10180007, in elevator shaft at right end of dam on North Platte River and 0.2 mi southwest of Alcovia.

DRAINAGE AREA.--10,766 mi², of which 700 mi² is probably noncontributing.

PERIOD OF RECORD.--February 1938 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

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

GAGE.--Water-stage recorder for elevations above 5,447.00 ft. Datum of gage is 5,320 ft above National Geodetic Vertical Datum of 1929 (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, July 25, Aug. 13, Sept. 15, elevation, 5,498.94 ft, Sept. 15; minimum daily contents, 152,000 acre-ft, Oct. 29 to Nov. 6, Nov. 9-14, 24, elevation, 5,486.08 ft, Nov. 4.

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

5,485	149,000	5,495	172,000
5,490	160,000	5,500	184,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180000	152000	155000	155000	156000	156000	159000	179000	179000	179000	181000	179000
2	179000	152000	156000	156000	156000	156000	161000	179000	179000	180000	181000	180000
3	178000	152000	156000	156000	156000	156000	163000	178000	179000	181000	181000	180000
4	177000	152000	156000	157000	156000	157000	162000	178000	180000	181000	180000	179000
5	176000	152000	156000	156000	157000	156000	163000	178000	181000	181000	180000	179000
6	175000	152000	157000	156000	156000	157000	164000	178000	180000	181000	180000	179000
7	174000	153000	157000	157000	156000	157000	165000	179000	180000	180000	180000	179000
8	173000	153000	157000	157000	156000	156000	166000	179000	179000	179000	181000	178000
9	172000	152000	157000	157000	156000	156000	168000	178000	178000	179000	180000	179000
10	170000	152000	156000	156000	156000	157000	170000	178000	177000	179000	180000	180000
11	169000	152000	156000	156000	156000	156000	172000	178000	178000	179000	181000	181000
12	168000	152000	156000	156000	156000	156000	173000	179000	178000	180000	181000	181000
13	167000	152000	156000	156000	156000	156000	174000	179000	179000	180000	182000	180000
14	167000	152000	157000	156000	156000	156000	175000	178000	180000	180000	181000	181000
15	166000	153000	156000	156000	155000	155000	177000	179000	181000	180000	180000	182000
16	165000	153000	158000	156000	154000	155000	178000	179000	181000	180000	180000	181000
17	164000	153000	157000	156000	154000	156000	178000	179000	180000	180000	179000	181000
18	163000	153000	157000	156000	155000	156000	178000	180000	181000	179000	179000	181000
19	162000	153000	157000	156000	156000	156000	177000	179000	180000	179000	180000	180000
20	161000	153000	157000	156000	156000	155000	178000	180000	180000	179000	180000	179000
21	160000	153000	156000	156000	156000	156000	180000	180000	180000	179000	181000	180000
22	159000	153000	155000	156000	157000	156000	180000	179000	180000	179000	181000	180000
23	158000	153000	155000	157000	157000	156000	180000	178000	180000	180000	180000	181000
24	157000	152000	155000	156000	156000	156000	180000	179000	179000	181000	179000	181000
25	156000	153000	155000	156000	156000	156000	180000	179000	180000	182000	179000	181000
26	155000	153000	155000	156000	156000	156000	179000	179000	180000	181000	179000	180000
27	154000	153000	156000	156000	157000	156000	180000	179000	180000	180000	179000	180000
28	153000	153000	156000	156000	156000	156000	180000	179000	180000	180000	179000	180000
29	152000	154000	155000	156000	157000	156000	180000	178000	179000	181000	180000	180000
30	152000	155000	155000	156000	---	157000	180000	179000	179000	179000	178000	181000
31	152000	---	156000	156000	---	158000	---	179000	---	180000	179000	---
MAX	180000	155000	158000	157000	157000	158000	180000	180000	181000	182000	182000	182000
MIN	152000	152000	155000	155000	154000	155000	159000	178000	177000	179000	178000	178000
(#)	5,486.13	5,487.44	5,487.77	5,487.96	5,488.23	5,488.86	5,498.16	5,497.77	5,497.62	5,498.05	5,497.82	5,498.51
(*)	-28,000	+3,000	+1,000	0	+1,000	+1,000	+22,000	-1,000	0	+1,000	-1,000	+2,000

CAL YR 1991 MAX 182000 MIN 152000 (*) +1,000

WYR 1992 MAX 182000 MIN 152000 (*) +1,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

COOPERATION.--Fourteen discharge measurements provided by the Bureau of Reclamation and sixteen provided by the Wyoming State Engineer's Office.

a Site and datum then in use.

PLATTE RIVER BASIN
06643500 NORTH PLATTE RIVER NEAR GOOSE EGG, WY

LOCATION.--Lat 42°42'38", long 106°33'34", in NW¼ NW¼ SW¼ sec.28, T.32 N., R.81 W., Natrona County, Hydrologic Unit 10180007, on right bank 1.0 mi upstream from Coal Creek, 5.2 mi southwest of Goose Egg, 6.4 mi downstream from Bates Creek, and 16 mi southwest of Casper.

DRAINAGE AREA.--11,423 mi², of which 700 mi² is non-contributing. (Area at site used prior to March 1988, 11,439 mi², of which 700 mi² is non-contributing.)

PERIOD OF RECORD.--April 1917 to September 1919 (irrigation seasons only), May to September 1924, May to September 1947, May 1950 to September 1960, April 1983 to September 1984, October 1985 to September 1986, March 1988 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Casper" 1917-19, 1924.

REVISED RECORDS.--WDR WY-83-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above National Geodetic Vertical Datum of 1929, from topographic map. April 1917 to September 1919, staff gage at site 3.2 mi downstream at different datum. May to September 1924 and May to September 1947, staff gages at site 6.0 mi downstream at different datum. May 1950 to September 1960, water-stage recorder at site 1.5 mi downstream at different datum. April 1983 to September 1984 and October 1985 to September 1986, water-stage recorder at site 4.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 28 to Dec. 4, Dec. 10-19, and Dec. 21 to Feb. 9. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	596	697	570	535	540	513	492	525	1230	1990	1770	1290
2	606	695	610	545	525	514	497	523	1500	2140	1740	1690
3	617	728	640	545	515	511	494	527	1620	1920	1730	1770
4	573	753	665	540	500	510	490	524	1630	1930	1450	2230
5	552	775	534	560	490	518	497	520	1680	1900	1500	2340
6	554	787	527	560	495	509	492	521	1820	1890	1590	2390
7	574	808	527	550	500	516	490	529	1830	1980	1540	2430
8	579	777	535	530	500	536	498	516	1870	2220	1330	2490
9	588	453	528	545	495	520	500	499	1870	2190	1300	2200
10	589	482	515	565	497	514	496	499	1900	2170	1270	2120
11	515	535	505	530	487	520	500	496	1930	2120	1010	1850
12	485	543	500	510	490	529	492	496	1900	2080	930	1610
13	484	559	480	485	508	527	493	490	1790	2040	857	1500
14	487	570	480	465	525	520	493	753	1530	2160	851	1490
15	494	575	500	435	518	517	496	689	1570	2210	753	1080
16	500	581	535	490	523	519	495	829	1820	2180	754	724
17	501	586	515	475	519	519	513	841	1830	2110	713	522
18	507	593	505	490	511	503	521	857	1820	2260	693	497
19	523	601	520	500	510	508	520	1030	1800	2210	778	483
20	534	607	526	515	518	508	526	1060	1790	2190	915	483
21	539	622	515	525	523	499	527	1320	1790	2170	897	488
22	563	628	525	515	516	496	522	1510	1790	2130	898	501
23	572	655	535	500	515	491	521	1310	2040	2070	872	511
24	592	660	525	505	506	497	525	1310	2090	1880	872	510
25	606	677	540	515	514	496	527	1310	2280	1890	885	602
26	610	694	530	515	520	488	532	1320	2770	2130	909	553
27	630	688	535	505	530	494	530	1330	2140	2080	1100	546
28	635	689	535	505	525	497	531	1310	2140	2020	1010	548
29	650	660	545	505	526	498	514	1300	2090	1990	905	553
30	661	610	535	515	---	497	518	1250	2020	1990	892	574
31	676	---	535	530	---	496	---	1230	---	2090	910	---
TOTAL	17592	19288	16572	16005	14841	15780	15242	27224	55880	64330	33624	36575
MEAN	567	643	535	516	512	509	508	878	1863	2075	1085	1219
MAX	676	808	665	565	540	536	532	1510	2770	2260	1770	2490
MIN	484	453	480	435	487	488	490	490	1230	1880	693	483
AC-FT	34890	38260	32870	31750	29440	31300	30230	54000	110800	127600	66690	72550

PLATTE RIVER BASIN
06643500 NORTH PLATTE RIVER NEAR GOOSE EGG, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1992, BY WATER YEAR (WY)

MEAN	507	428	373	371	345	468	1006	1667	2358	3516	3204	1579
MAX	1529	1206	971	941	901	2596	3546	4122	7757	7758	5127	3606
(WY)	1986	1960	1984	1986	1984	1984	1984	1984	1984	1983	1952	1952
MIN	33.4	26.6	23.7	17.3	22.0	24.0	21.9	28.8	18.0	1353	1085	418
(WY)	1957	1957	1957	1957	1955	1957	1957	1957	1955	1991	1992	1954

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1947 - 1992	
ANNUAL TOTAL	341744		332953		--	
ANNUAL MEAN	936		910		1305	
HIGHEST ANNUAL MEAN	--		--		2572	
LOWEST ANNUAL MEAN	--		--		717	
HIGHEST DAILY MEAN	3000	Aug 24	2770	Jun 26	8830	Jun 12 1984
LOWEST DAILY MEAN	385	Jun 21	435	Jan 15	8.7	Jun 14 1955
ANNUAL SEVEN-DAY MINIMUM	395	Jun 15	477	Jan 13	9.6	Jun 22 1955
INSTANTANEOUS PEAK FLOW	--		4180	Jun 26	19200a	Jun 24-28 1917#
INSTANTANEOUS PEAK STAGE	--		5.66	Jun 26	11.80b	May 28 1953#
ANNUAL RUNOFF (AC-FT)	677800		660400		945600	
10 PERCENT EXCEEDS	1780		2000		4000	
50 PERCENT EXCEEDS	628		551		762	
90 PERCENT EXCEEDS	515		496		28	

For period of record, 1917 to 1992.

a Maximum observed.

b Site and datum then in use.

PLATTE RIVER BASIN

06644550 NORTH PLATTE RIVER AT CASPER, WY

LOCATION.--Lat 42°51'26", long 106°19'09", in SE¼ SE¼ NW¼ sec.4, T.33 N., R.79 W., Natrona County, Hydrologic Unit 10180007, at bridge on service road, 800 ft west of Center Street exit from Interstate Highway 25, and 0.6 mi northwest of Casper Post Office.

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Discharge records furnished by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JUN 17...	1605	2050	15.0	<0.01	<0.01	0.10	<0.01	<0.01	<0.01
SEP 25...	1055	588	13.0	<0.01	<0.01	0.10	<0.01	<0.01	<0.01

06645000 NORTH PLATTE RIVER BELOW CASPER, WY

LOCATION.--Lat 42°51'40", long 106°12'53", in SE¼ NW¼ NW¼ sec.4, T.33 N., R.78 W., Natrona County, Hydrologic Unit 10180007, at New Mystery Bridge, 0.1 mi upstream from Claude Creek, 0.6 mi north of U.S. Highways 20 and 87, 5.8 mi east of city hall in Casper, and 9.5 mi downstream from Casper Creek.

DRAINAGE AREA.--12,574 mi², of which 831 mi² is probably noncontributing.

PERIOD OF RECORD.--Water years 1947-52, 1957-59, 1968-89, October 1990 to current year.

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

REMARKS.--Discharge records furnished by U.S. Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
NOV 08...	1145	784	6.5	6
MAR 18...	1045	583	7.0	9
JUN 17...	1530	2050	15.0	3
AUG 26...	1000	1020	13.5	3

PLATTE RIVER BASIN
06645150 SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER, WY

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LOCATION.--Lat 42°38'59", long 106°10'46", in NE¼ NW¼ NW¼ sec.22, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on right bank 1.3 mi upstream from Otter Creek and 16 mi southeast of Casper.

DRAINAGE.--9.91 mi².

PERIOD OF RECORD.--October 1974 to September 1979, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,550 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1976, at site 200 ft downstream at datum 7.22 ft lower.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 3, Nov. 6-8, 14, 15, 19, 20, 22-25, Nov. 28 to Dec. 8, Feb. 21, and Mar. 9-14. 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	1400	ice jam	*1.07	No peak greater than base discharge.			
June 25	1300	*2.5	0.79				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.1	.85	1.2	1.2	1.6	1.2	1.3	1.3	1.1	.99	.92
2	1.2	1.1	.95	1.2	1.2	1.6	1.2	1.3	1.2	1.4	.99	.89
3	1.3	1.1	1.1	1.2	1.2	1.6	1.2	1.3	1.2	1.2	.98	.87
4	1.5	1.2	1.3	1.2	1.2	1.6	1.3	1.3	1.2	1.1	.98	.86
5	1.4	1.4	1.5	1.3	1.2	1.7	1.3	1.3	1.3	1.0	.95	.87
6	1.3	1.2	1.6	1.3	1.2	1.6	1.3	1.3	1.2	.99	.92	.87
7	1.3	1.3	1.5	1.2	1.2	1.6	1.2	1.3	1.1	1.0	.94	.87
8	1.2	1.4	1.4	1.2	1.2	1.2	1.2	1.3	1.1	1.0	.95	.87
9	1.2	1.5	1.4	1.2	1.2	1.7	1.2	1.4	1.2	1.0	.93	.87
10	1.2	1.5	1.3	1.2	1.2	1.4	1.3	1.5	1.1	1.0	.93	.88
11	1.3	1.5	1.2	1.3	1.2	1.2	1.3	1.3	1.1	1.0	.93	.88
12	1.3	1.4	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.1	.93	.87
13	1.3	1.4	1.3	1.3	1.3	1.4	1.2	1.3	1.1	1.1	.93	.86
14	1.3	1.4	1.3	1.2	1.3	1.5	1.2	1.3	1.1	1.0	.93	.82
15	1.3	1.2	1.3	1.2	1.3	1.6	1.2	1.3	1.2	.98	.91	.84
16	1.3	1.4	1.3	1.2	1.3	1.7	1.3	1.4	1.1	.92	.91	.82
17	1.3	1.4	1.3	1.3	1.3	1.6	1.2	1.4	1.2	.95	1.0	.84
18	1.3	1.4	1.3	1.3	1.3	1.6	1.3	1.3	1.1	.93	.92	.87
19	1.3	1.3	1.3	1.2	1.1	1.4	1.3	1.3	1.0	.91	.89	.88
20	1.3	1.3	1.3	1.2	1.3	1.3	1.4	1.3	1.1	.93	.91	.87
21	1.3	1.3	1.3	1.2	1.4	1.3	1.3	1.5	1.1	1.0	.91	.94
22	1.3	1.2	1.3	1.2	1.5	1.3	1.3	1.6	1.0	.95	.92	.90
23	1.3	1.1	1.2	1.2	1.4	1.2	1.3	1.3	1.1	.96	.96	.86
24	1.3	1.2	1.2	1.2	1.4	1.2	1.3	1.4	1.1	.99	.97	.82
25	1.3	1.3	1.3	1.2	1.3	1.2	1.3	1.4	1.6	.98	1.0	1.3
26	1.3	1.4	1.2	1.2	1.3	1.2	1.3	1.3	1.3	.99	1.0	.93
27	1.4	1.4	1.2	1.2	1.4	1.3	1.3	1.4	1.2	.97	.94	.93
28	1.1	1.2	1.2	1.2	1.5	1.3	1.3	1.3	1.2	.92	.93	.82
29	1.1	1.0	1.2	1.2	1.5	1.3	1.3	1.2	1.0	.99	.90	.83
30	1.1	.81	1.3	1.2	---	1.3	1.4	1.3	1.0	1.0	.91	.84
31	1.2	---	1.2	1.2	---	1.3	---	1.4	---	1.0	.92	---
TOTAL	39.5	38.41	39.40	37.9	37.4	44.1	38.1	41.6	34.7	31.36	29.18	26.49
MEAN	1.27	1.28	1.27	1.22	1.29	1.42	1.27	1.34	1.16	1.01	.94	.88
MAX	1.5	1.5	1.6	1.3	1.5	1.7	1.4	1.6	1.6	1.4	1.0	1.3
MIN	1.1	.81	.85	1.2	1.1	1.2	1.2	1.2	1.0	.91	.89	.82
AC-FT	78	76	78	75	74	87	76	83	69	62	58	53

PLATTE RIVER BASIN
06645150 SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

MEAN	1.70	1.63	1.57	1.44	1.42	1.49	3.01	6.29	3.76	2.24	1.87	1.65
MAX	2.65	2.40	2.26	2.06	1.96	1.91	7.09	14.4	9.55	4.30	3.37	2.97
(WY)	1976	1976	1976	1976	1976	1976	1977	1975	1975	1975	1975	1975
MIN	.73	.99	.62	.61	.72	.93	1.11	1.20	.95	.85	.70	.75
(WY)	1991	1991	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1975 - 1992
ANNUAL TOTAL	535.89	438.14	--
ANNUAL MEAN	1.47	1.20	2.34
HIGHEST ANNUAL MEAN	--	--	4.13
LOWEST ANNUAL MEAN	--	--	.94
HIGHEST DAILY MEAN	7.1 Apr 6	1.7 Mar 5,9,16	24 May 13 1975
LOWEST DAILY MEAN	.51 Jan 5	.81 Nov 30	.32 Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	.54 Jan 1	.85 Sep 12	.43 Dec 19 1990
INSTANTANEOUS PEAK FLOW	--	2.5a Jun 25	41b May 20 1978
INSTANTANEOUS PEAK STAGE	--	1.07c Mar 9	4.03d May 7 1975
ANNUAL RUNOFF (AC-FT)	1060	869	1700
10 PERCENT EXCEEDS	2.3	1.4	3.9
50 PERCENT EXCEEDS	1.3	1.2	1.7
90 PERCENT EXCEEDS	.70	.92	.92

a Gage height, 0.79 ft.

b Gage height, 1.98 ft, site and datum then in use.

c Ice jam.

d Backwater from snow, site and datum then in use.

PLATTE RIVER BASIN
06645164 OTTER CREEK AT MOUTH, NEAR CASPER, WY

311

LOCATION.--Lat 42°39'28", long 106°09'48", in SW¼ SW¼ NW¼ sec.14, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 0.2 mi upstream from mouth and 15.0 mi southeast of Casper.

DRAINAGE AREA.--6.50 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,370 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 6, Nov. 19, 20, 22-24, Nov. 28 to Dec. 3, Dec. 31 to Jan. 5, Feb. 4-7, Feb. 15 to Mar. 10, July 5-28, Aug. 1 to Sept. 8, and Sept. 14-20. 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 6.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 30	2200	*5.5	1.54	No peak greater than base discharge.			
Sept. 9	1130	a	*1.82				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.1	.94	1.0	1.2	1.3	1.8	4.5	1.9	1.2	.74	.72
2	1.4	1.0	.98	1.0	1.2	1.3	1.7	3.8	1.7	1.7	.74	.72
3	1.4	1.0	1.0	1.0	1.1	1.4	1.9	3.4	1.6	1.5	.76	.72
4	1.6	1.1	1.1	1.1	1.1	1.4	2.1	3.1	1.5	1.3	.78	.71
5	1.4	1.2	1.2	1.1	1.1	1.5	2.2	2.9	1.6	1.2	.76	.69
6	1.3	1.1	1.2	1.1	1.0	1.4	2.2	2.7	1.6	1.1	.87	.71
7	1.3	1.2	1.2	1.1	1.0	1.4	1.9	2.4	1.5	1.1	.90	.74
8	1.2	1.2	1.1	1.0	1.0	1.3	1.9	2.3	1.5	1.2	.80	.70
9	1.2	1.3	1.1	1.1	.99	1.2	2.0	2.3	1.5	1.1	.74	.70
10	1.2	1.2	1.2	1.1	.98	1.3	2.2	2.5	1.5	1.1	.76	.71
11	1.2	1.1	1.2	1.1	.99	1.5	2.2	2.2	1.3	1.1	.73	.68
12	1.2	1.1	1.2	1.1	.98	1.6	2.2	2.0	1.3	1.1	.74	.72
13	1.2	1.1	1.2	1.1	1.0	1.6	2.7	1.9	1.3	1.2	.74	.73
14	1.2	1.1	1.2	1.1	1.0	1.7	2.6	1.8	1.3	1.1	.71	.71
15	1.2	1.1	1.2	1.1	1.1	1.7	2.9	1.7	1.3	.98	.72	.67
16	1.2	1.1	1.2	1.1	1.1	1.8	3.1	1.7	1.3	.97	.70	.66
17	1.2	1.2	1.2	1.1	1.1	1.8	3.3	1.6	1.3	.97	.79	.67
18	1.1	1.2	1.1	1.1	1.1	1.7	3.7	1.5	1.2	.97	.75	.64
19	1.2	1.1	1.1	1.1	1.0	1.7	3.0	1.4	1.2	.89	.66	.63
20	1.2	1.1	1.1	1.1	1.0	1.6	2.8	1.4	1.2	1.0	.63	.62
21	1.2	1.1	1.2	1.1	1.0	1.5	2.7	1.8	1.2	1.1	.64	.65
22	1.1	1.1	1.1	1.1	1.1	1.5	2.7	2.0	1.1	.96	.66	.66
23	1.2	.98	1.2	1.1	1.1	1.5	2.8	1.7	1.2	.90	.70	.64
24	1.1	1.0	1.1	1.1	1.1	1.5	2.4	1.8	1.2	.96	.73	.67
25	1.2	1.0	1.1	1.1	1.0	1.5	2.3	1.7	1.5	.83	.83	1.0
26	1.2	1.1	1.1	1.0	1.0	1.5	2.4	1.5	1.4	.90	.81	.67
27	1.2	1.1	1.1	1.1	1.1	1.7	3.1	1.5	1.2	.83	.73	.64
28	1.2	1.0	1.2	1.1	1.1	1.8	3.8	1.5	1.4	.80	.68	.68
29	1.2	.98	1.1	1.1	1.2	1.8	4.3	1.4	1.4	.80	.66	.68
30	1.1	.93	1.1	1.1	---	1.8	4.7	1.6	1.2	.80	.70	.66
31	1.0	---	1.0	1.2	---	1.9	---	1.9	---	.79	.71	---
TOTAL	38.0	32.89	35.02	33.7	30.74	48.2	79.6	65.5	41.4	32.45	22.87	20.80
MEAN	1.23	1.10	1.13	1.09	1.06	1.55	2.65	2.11	1.38	1.05	.74	.69
MAX	1.6	1.3	1.2	1.2	1.2	1.9	4.7	4.5	1.9	1.7	.90	1.0
MIN	1.0	.93	.94	1.0	.98	1.2	1.7	1.4	1.1	.79	.63	.62
AC-FT	75	65	69	67	61	96	158	130	82	64	45	41

PLATTE RIVER BASIN
06645164 OTTER CREEK AT MOUTH, NEAR CASPER, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

MEAN	1.06	1.10	.96	.90	.91	1.15	2.57	4.99	2.75	1.58	1.12	.95
MAX	1.28	1.33	1.16	1.09	1.16	1.55	4.37	9.49	5.44	3.14	1.96	1.38
(WY)	1989	1989	1988	1988	1989	1992	1988	1988	1988	1988	1988	1991
MIN	.76	.87	.69	.60	.56	.78	1.53	1.79	1.07	.71	.59	.61
(WY)	1990	1990	1991	1991	1990	1990	1989	1989	1989	1989	1989	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	744.41					481.17				--		
ANNUAL MEAN	2.04					1.31				1.67		
HIGHEST ANNUAL MEAN	--					--				2.74		1988
LOWEST ANNUAL MEAN	--					--				1.14		1989
HIGHEST DAILY MEAN	19	May 16				4.7	Apr 30			19	May 16	1991
LOWEST DAILY MEAN	.55	Jan 6				.62	Sep 20			.43	Dec 22	1990
ANNUAL SEVEN-DAY MINIMUM	.56	Jan 2				.64	Sep 17			.50	Feb 4	1990
INSTANTANEOUS PEAK FLOW	--					5.5b	Apr 30			25c	May 13	1988
INSTANTANEOUS PEAK STAGE	--					1.82a	Sep 9			5.11d	Mar 16	1988
ANNUAL RUNOFF (AC-FT)	1480					954				1210		
10 PERCENT EXCEEDS	4.2					2.0				3.1		
50 PERCENT EXCEEDS	1.2					1.1				1.1		
90 PERCENT EXCEEDS	.66					.72				.66		

a Backwater from beaver dam.

b Gage height, 1.54 ft.

c From rating curve extended above 16 ft³/s on basis of critical-depth computations. Gage height, 2.09 ft.Natural peak (17 ft³/s) augmented by release from failed beaver dam.

d Backwater from ice.

PLATTE RIVER BASIN
06645166 SMITH CREEK BELOW OTTER CREEK, NEAR CASPER, WY

313

LOCATION.--Lat 42°40'20", long 106°09'03", in SE¼ SW¼ NE¼ sec.11, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 0.4 mi upstream from Spring Creek, 1.2 mi downstream from Otter Creek, and 14.6 mi southeast of Casper.

DRAINAGE AREA.--18.5 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 7, Nov. 30 to Dec. 3, Jan. 12-16, and Feb. 18, 24, 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 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 29	2400	*6.3	*2.01	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	1.6	1.6	1.3	1.7	2.0	5.5	2.6	1.5	.87	.78
2	1.6	1.5	1.7	1.5	1.4	1.7	1.9	4.5	2.1	2.2	.84	.78
3	1.6	1.6	1.8	1.5	1.4	1.8	1.9	4.0	1.9	2.0	.93	.78
4	2.0	1.7	1.9	1.5	1.3	1.9	2.2	3.9	1.8	1.6	.93	.76
5	1.8	1.8	2.0	1.4	1.3	1.9	2.6	3.6	1.9	1.5	.87	.73
6	1.8	1.7	1.8	1.4	1.3	1.8	2.6	3.3	1.9	1.3	.97	.75
7	1.7	1.7	1.8	1.4	1.3	1.8	2.4	3.2	1.8	1.3	1.1	.79
8	1.7	1.8	1.8	1.5	1.3	1.7	2.2	3.1	1.8	1.4	.91	.73
9	1.6	1.9	1.8	1.5	1.3	1.5	2.2	2.9	1.6	1.3	.84	.72
10	1.7	1.9	1.7	1.5	1.3	1.7	2.4	3.2	1.6	1.3	.86	.73
11	1.7	1.8	1.8	1.5	1.3	1.8	2.4	2.8	1.6	1.3	.83	.76
12	1.7	1.7	1.7	1.5	1.3	2.0	2.3	2.5	1.6	1.4	.84	.73
13	1.6	1.7	1.7	1.5	1.4	2.1	2.9	2.4	1.5	1.5	.84	.73
14	1.6	1.7	1.7	1.4	1.5	2.2	2.7	2.4	1.6	1.3	.80	.69
15	1.6	1.8	1.7	1.3	1.4	2.2	3.2	2.1	1.6	1.2	.81	.68
16	1.6	1.6	1.7	1.4	1.4	2.3	3.6	2.0	1.6	1.2	.80	.68
17	1.5	1.8	1.7	1.5	1.4	2.2	3.7	2.0	1.6	1.2	.91	.68
18	1.5	1.8	1.7	1.5	1.4	2.2	4.5	1.9	1.5	1.2	.84	.64
19	1.6	1.7	1.8	1.5	1.4	2.0	4.1	1.7	1.4	1.1	.73	.64
20	1.7	1.7	1.8	1.5	1.4	1.9	3.4	1.7	1.4	1.2	.69	.64
21	1.7	1.8	1.6	1.4	1.4	2.0	3.3	2.0	1.4	1.4	.71	.64
22	1.7	1.7	1.7	1.4	1.5	2.1	3.1	2.6	1.3	1.2	.73	.67
23	1.7	1.6	1.6	1.4	1.5	2.0	3.3	2.1	1.4	1.1	.77	.68
24	1.7	1.8	1.6	1.4	1.4	2.1	3.1	2.5	1.4	1.2	.81	.68
25	1.7	1.8	1.6	1.4	1.4	1.8	2.9	2.6	2.1	1.0	.92	.96
26	1.7	1.9	1.6	1.4	1.3	1.8	3.0	1.9	1.8	1.2	.90	.75
27	1.8	1.9	1.6	1.4	1.4	1.9	3.6	2.0	1.5	1.0	.78	.64
28	1.8	1.8	1.6	1.4	1.5	2.1	4.5	2.0	1.6	.96	.73	.67
29	1.8	1.6	1.6	1.4	1.6	2.0	5.0	1.8	1.7	.95	.71	.70
30	1.7	1.5	1.6	1.4	---	2.0	5.6	1.9	1.5	.88	.77	.68
31	1.5	---	1.6	1.4	---	2.1	---	2.3	---	.88	.77	---
TOTAL	52.0	51.9	52.9	44.8	40.1	60.3	92.6	82.4	50.1	39.77	25.81	21.49
MEAN	1.68	1.73	1.71	1.45	1.38	1.95	3.09	2.66	1.67	1.28	.83	.72
MAX	2.0	1.9	2.0	1.6	1.6	2.3	5.6	5.5	2.6	2.2	1.1	.96
MIN	1.5	1.5	1.6	1.3	1.3	1.5	1.9	1.7	1.3	.88	.69	.64
AC-FT	103	103	105	89	80	120	184	163	99	79	51	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	1.83	1.80	1.67	1.47	1.40
MAX	3.12	2.62	2.59	2.31	2.10
(WY)	1988	1988	1989	1988	1988
MIN	.79	.77	.58	.52	.59
(WY)	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	1071.55	614.17	--
ANNUAL MEAN	2.94	1.68	2.73
HIGHEST ANNUAL MEAN	--	--	5.55
LOWEST ANNUAL MEAN	--	--	1.61
HIGHEST DAILY MEAN	27 May 16	5.6 Apr 30	29 May 14 1988
LOWEST DAILY MEAN	.44 Jan 7	.64 Sep 18-21, 27	.26 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.47 Jan 1	.66 Sep 16	.45 Dec 29 1990
INSTANTANEOUS PEAK FLOW	--	6.3 Apr 29	53a Jun 2 1991
INSTANTANEOUS PEAK STAGE	--	2.01 Apr 29	2.82 Jun 2 1991
ANNUAL RUNOFF (AC-FT)	2130	1220	1980
10 PERCENT EXCEEDS	7.3	2.4	4.7
50 PERCENT EXCEEDS	1.8	1.6	1.9
90 PERCENT EXCEEDS	.58	.78	.73

a From rating curve extended above 19 ft³/s on basis of critical-depth computations.

PLATTE RIVER BASIN
06645174 BEAVER CREEK ABOVE POLE CREEK, NEAR CASPER, WY

LOCATION.--Lat 42°42'50", long 106°10'56", in NW¼ NW¼ SW¼ sec.27, T.32 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 80 ft downstream from unnamed tributary, 1.6 mi upstream from Pole Creek, and 11.3 mi southeast of Casper.

DRAINAGE AREA.--4.67 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,800 ft above National Geodetic Vertical Datum of 1929, 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 21	1400	*4.7	*1.25	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.1	4.1	3.4	3.4	3.7	3.7	3.8	3.7	3.5	3.2	3.0
2	3.4	3.9	4.1	3.4	3.4	3.8	3.7	3.7	3.7	3.6	3.1	3.0
3	3.6	3.9	4.1	3.4	3.4	3.8	3.8	3.8	3.6	3.5	3.3	3.0
4	3.7	4.0	4.1	3.4	3.4	3.8	3.7	4.2	3.4	3.5	3.1	3.0
5	3.6	4.1	4.1	3.5	3.4	3.9	3.8	4.1	3.6	3.7	3.1	3.0
6	3.6	4.1	4.0	3.6	3.4	3.9	3.8	4.1	3.6	3.7	3.1	3.0
7	3.6	4.1	4.1	3.6	3.4	3.9	3.8	4.1	3.6	3.8	3.1	3.0
8	3.6	4.1	4.1	3.4	3.4	4.0	3.9	4.1	3.6	3.7	3.1	3.0
9	3.5	4.2	4.0	3.4	3.4	4.0	3.8	4.0	3.4	3.8	3.0	3.0
10	3.5	4.1	4.0	3.5	3.4	3.9	3.7	4.0	3.3	3.8	3.0	3.0
11	3.6	4.1	4.0	3.7	3.4	4.0	3.7	3.9	3.3	3.9	3.0	3.0
12	3.6	4.1	3.9	3.7	3.4	4.2	3.7	3.9	3.4	4.0	3.0	3.0
13	3.7	4.2	3.9	3.7	3.4	4.3	3.9	3.9	3.3	3.9	3.0	2.9
14	3.7	4.2	3.9	3.7	3.4	4.3	3.9	3.9	3.3	3.9	3.0	2.9
15	3.7	4.2	3.9	3.7	3.4	4.2	3.9	3.9	3.3	3.9	3.0	3.0
16	3.7	4.1	3.9	3.7	3.4	4.2	3.8	3.7	3.3	3.8	3.0	3.0
17	3.8	4.2	3.8	3.7	3.4	4.0	3.9	3.7	3.3	3.7	3.0	3.0
18	3.7	4.2	3.7	3.7	3.3	3.9	4.0	3.7	3.3	3.6	3.0	3.0
19	3.7	4.2	3.8	3.8	3.3	3.9	4.0	3.7	3.4	3.7	3.0	3.0
20	3.7	4.2	3.8	3.8	3.4	3.9	4.0	3.7	3.4	3.7	3.0	3.0
21	3.7	4.2	3.7	3.9	3.4	3.9	3.7	3.8	3.4	3.7	3.0	3.1
22	3.7	4.2	3.7	3.7	3.5	3.9	3.7	3.8	3.4	3.4	3.0	3.1
23	3.7	4.2	3.7	3.6	3.6	3.9	3.6	3.7	3.5	3.3	3.0	3.1
24	3.7	4.2	3.7	3.6	3.6	3.9	3.6	3.7	3.5	3.3	3.0	3.0
25	3.7	4.2	3.7	3.6	3.6	3.9	3.6	3.8	3.5	3.3	3.0	3.2
26	3.8	4.3	3.7	3.6	3.6	3.9	3.7	3.7	3.4	3.2	3.0	3.1
27	3.9	4.3	3.7	3.6	3.6	3.9	3.7	3.7	3.5	3.1	3.0	3.0
28	3.9	4.4	3.7	3.6	3.7	3.9	3.8	3.6	3.5	3.1	3.0	3.0
29	3.9	4.2	3.7	3.5	3.7	3.7	3.9	3.6	3.4	3.1	3.0	3.0
30	3.9	4.2	3.5	3.5	---	3.7	3.9	3.7	3.4	3.1	3.0	3.0
31	4.0	---	3.4	3.5	---	3.7	---	3.8	---	3.1	3.0	---
TOTAL	114.3	124.7	119.5	111.5	100.1	121.9	113.7	118.8	103.3	110.4	94.1	90.4
MEAN	3.69	4.16	3.85	3.60	3.45	3.93	3.79	3.83	3.44	3.56	3.04	3.01
MAX	4.0	4.4	4.1	3.9	3.7	4.3	4.0	4.2	3.7	4.0	3.3	3.2
MIN	3.4	3.9	3.4	3.4	3.3	3.7	3.6	3.6	3.3	3.1	3.0	2.9
AC-FT	227	247	237	221	199	242	226	236	205	219	187	179

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	3.80	3.81	3.64	3.59	3.68
MAX	4.15	4.19	3.87	3.85	4.13
(WY)	1988	1989	1988	1988	1988
MIN	3.59	3.40	3.27	3.28	3.41
(WY)	1991	1991	1991	1990	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	1428.6	1322.7	---
ANNUAL MEAN	3.91	3.61	3.84
HIGHEST ANNUAL MEAN	---	---	4.44
LOWEST ANNUAL MEAN	---	---	3.52
HIGHEST DAILY MEAN	8.8 May 16	4.4 Nov 28	9.0 May 13 1988
LOWEST DAILY MEAN	3.1 Jan 1	2.9 Sep 13,14	2.9 Sep 13,14 1992
ANNUAL SEVEN-DAY MINIMUM	3.3 Jan 1	3.0 Sep 8	3.0 Sep 8 1992
INSTANTANEOUS PEAK FLOW	---	4.7 Jul 21	28a Jun 2 1991
INSTANTANEOUS PEAK STAGE	---	1.25 Jul 21	1.91 Jun 2 1991
ANNUAL RUNOFF (AC-FT)	2830	2620	2780
10 PERCENT EXCEEDS	4.7	4.1	4.4
50 PERCENT EXCEEDS	3.7	3.7	3.7
90 PERCENT EXCEEDS	3.4	3.0	3.3

a From rating curve extended above 10 ft³/s on basis of critical-depth computations.

PLATTE RIVER BASIN
06645178 POLE CREEK NEAR CASPER, WY

315

LOCATION.--Lat 42°41'48", long 106°10'42", in SW¼ NE¼ SW¼ sec.34, T.32 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 200 ft upstream from unnamed tributary, 1.9 mi upstream from mouth, and 12.4 mi southeast of Casper.

DRAINAGE AREA.--2.70 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder and bedrock control. Elevation of gage is 5,880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 3, Nov. 5, 6, 15, 16, Dec. 24, Jan. 2, Feb. 4, 7, and Mar. 9-11. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 4	1030	ice jam	*1.00	No peak greater than base discharge.			
Apr. 17	1800	*1.9	.90				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.61	.45	.54	.37	.50	.69	.58	1.6	.73	.57	.44	.37
2	.57	.47	.55	.52	.50	.71	.70	1.5	.60	.96	.44	.37
3	.62	.51	.56	.49	.48	.75	.84	1.4	.55	.66	.43	.36
4	.70	.54	.56	.45	.44	.67	.93	1.4	.55	.56	.41	.34
5	.68	.61	.56	.49	.40	.67	1.0	1.4	.63	.54	.40	.34
6	.68	.71	.56	.52	.39	.74	.89	1.3	.67	.54	.44	.34
7	.66	.68	.57	.48	.38	.71	.75	1.3	.66	.56	.44	.34
8	.63	.71	.57	.48	.38	.55	.77	1.2	.61	.57	.38	.34
9	.62	.80	.51	.49	.38	.63	.94	1.2	.64	.57	.37	.32
10	.63	.74	.51	.51	.39	.58	1.1	1.2	.67	.56	.37	.32
11	.63	.68	.53	.52	.41	.64	1.1	.96	.68	.56	.38	.31
12	.63	.64	.54	.51	.42	.68	1.3	.82	.70	.57	.38	.31
13	.63	.63	.55	.49	.47	.66	1.3	.79	.66	.59	.38	.30
14	.62	.57	.54	.49	.49	.63	1.3	.75	.66	.53	.38	.30
15	.62	.64	.53	.49	.46	.70	1.3	.70	.68	.52	.36	.30
16	.60	.62	.53	.51	.47	.73	1.4	.69	.66	.51	.36	.31
17	.59	.63	.53	.51	.48	.71	1.6	.68	.65	.50	.36	.31
18	.59	.65	.54	.48	.42	.67	1.5	.62	.63	.49	.35	.31
19	.59	.56	.53	.48	.37	.59	1.3	.58	.62	.49	.35	.32
20	.59	.36	.53	.50	.39	.57	1.3	.56	.60	.51	.35	.32
21	.59	.45	.54	.48	.42	.45	1.3	.93	.54	.56	.34	.32
22	.60	.54	.52	.49	.45	.54	1.4	1.1	.55	.57	.34	.32
23	.60	.52	.52	.49	.40	.42	1.4	.78	.55	.67	.36	.32
24	.61	.60	.52	.51	.37	.53	1.3	.72	.58	.56	.43	.36
25	.61	.64	.52	.49	.40	.51	1.3	.76	.70	.51	.52	.56
26	.61	.62	.51	.49	.42	.54	1.3	.67	.62	.54	.45	.34
27	.61	.62	.52	.47	.54	.73	1.5	.64	.62	.49	.40	.35
28	.56	.52	.50	.46	.58	.70	1.6	.62	.74	.48	.39	.34
29	.55	.49	.44	.46	.65	.67	1.6	.57	.63	.46	.39	.33
30	.52	.59	.43	.48	---	.69	1.7	.64	.57	.45	.39	.33
31	.48	---	.41	.49	---	.67	---	.75	---	.44	.39	---
TOTAL	18.83	17.79	16.27	15.09	12.85	19.73	36.30	28.83	18.95	17.09	12.17	10.10
MEAN	.61	.59	.52	.49	.44	.64	1.21	.93	.63	.55	.39	.34
MAX	.70	.80	.57	.52	.65	.75	1.7	1.6	.74	.96	.52	.56
MIN	.48	.36	.41	.37	.37	.42	.58	.56	.54	.44	.34	.30
AC-FT	37	35	32	30	25	39	72	57	38	34	24	20

PLATTE RIVER BASIN
06645178 POLE CREEK NEAR CASPER, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

MEAN	.49	.53	.44	.41	.41	.55	1.26	2.17	1.22	.75	.54	.48
MAX	.62	.59	.52	.49	.46	.64	1.93	3.76	2.24	1.03	.76	.67
(WY)	1989	1992	1992	1992	1988	1992	1988	1988	1991	1991	1988	1988
MIN	.32	.47	.29	.27	.32	.43	.66	.89	.63	.41	.33	.34
(WY)	1990	1991	1991	1991	1991	1991	1989	1989	1992	1989	1989	1992

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1988 - 1992		
ANNUAL TOTAL	356.06			224.00			--		
ANNUAL MEAN	.98			.61			.77		
HIGHEST ANNUAL MEAN	--			--			1.06		
LOWEST ANNUAL MEAN	--			--			.54		
HIGHEST DAILY MEAN	9.0	Jun	2	1.7	Apr	30	9.0	Jun	2 1991
LOWEST DAILY MEAN	.22	Jan	6	.30	Sep	13-15	.12	Dec	7 1990
ANNUAL SEVEN-DAY MINIMUM	.24	Jan	3	.31	Sep	11	.23	Dec	29 1990
INSTANTANEOUS PEAK FLOW	--			1.9a	Apr	17	41b	Jun	2 1991
INSTANTANEOUS PEAK STAGE	--			1.00c	Feb	4	3.02c	Dec	7 1989
ANNUAL RUNOFF (AC-FT)	706			444			559		
10 PERCENT EXCEEDS	2.0			.93			1.3		
50 PERCENT EXCEEDS	.62			.55			.54		
90 PERCENT EXCEEDS	.30			.36			.34		

a Gage height, 0.90 ft.

b From rating curve extended above 8 ft³/s on basis of critical-depth computations. Gage height, 2.10 ft.

c Backwater from ice.

PLATTE RIVER BASIN
06646000 DEER CREEK IN CANYON, NEAR GLENROCK, WY

317

LOCATION.--Lat 42°42'42", long 106°01'43", in SW¼ NE¼ SE¼ sec.26, T.32 N., R.77 W., Converse County, Hydrologic Unit 10180007, on left bank 500 ft upstream from VR Ditch and 14 mi southwest of Glenrock.
DRAINAGE AREA.--139 mi².
PERIOD OF RECORD.--May 1946 to September 1951, March 1985 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 1946 to September 1951, at same site and datum.
REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 3, Nov. 16-18, Nov. 28 to Dec. 6, Dec. 14, 17, 18, 21, Dec. 26 to Feb. 19, Feb. 24, 26, and Mar. 17 to Apr. 13. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 12, 1970, reached a discharge of 14,200 ft³/s at Deer Creek below Millar Wasteway, at Glenrock (sta 06646600), 16.5 mi downstream.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 24	2330	*246	*4.66	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	3.9	4.2	6.4	7.3	11	54	122	68	14	7.4	3.1
2	3.9	3.8	4.8	6.6	7.0	11	56	117	47	44	5.6	3.4
3	3.8	4.1	5.6	6.6	6.9	12	59	107	36	40	8.6	3.1
4	5.5	4.5	6.5	6.8	6.6	14	79	100	30	27	8.3	2.9
5	5.5	5.0	7.2	7.0	6.3	15	97	94	29	22	7.4	2.7
6	5.0	6.0	7.4	6.8	6.6	15	108	88	31	18	6.3	2.8
7	4.6	6.6	7.5	6.6	6.1	16	98	82	29	16	6.1	2.8
8	4.4	5.3	7.6	6.4	6.4	17	93	78	25	16	5.6	2.8
9	4.1	7.7	7.6	6.5	6.4	17	97	73	25	16	4.5	2.8
10	3.9	7.9	7.4	6.9	6.2	17	106	80	25	15	4.0	2.7
11	3.8	7.1	7.2	6.7	6.4	17	114	66	23	14	3.8	2.7
12	3.7	5.7	7.3	6.5	6.8	15	110	56	24	14	3.5	2.7
13	3.6	6.6	7.5	6.1	7.1	17	118	50	23	15	3.4	2.6
14	3.4	6.4	7.4	5.7	6.9	18	122	46	20	14	3.4	2.7
15	3.6	6.2	7.8	5.2	6.6	21	125	39	19	12	3.1	2.6
16	3.6	6.0	7.4	6.0	6.8	27	129	36	18	11	3.0	2.6
17	3.5	5.8	7.1	5.7	6.3	29	141	34	17	11	3.4	2.5
18	3.4	6.2	7.4	5.3	6.7	31	161	30	18	10	4.2	2.4
19	3.5	6.6	7.6	5.7	7.3	32	140	27	16	9.0	3.9	2.4
20	3.6	6.6	7.1	6.0	8.0	31	132	24	15	9.1	3.6	2.6
21	3.6	7.0	6.8	5.8	7.7	30	134	29	14	10	3.3	2.8
22	3.7	6.0	7.2	5.5	8.9	28	128	59	13	11	3.0	2.9
23	3.8	6.5	7.0	5.6	8.5	28	121	39	12	11	3.1	3.0
24	3.9	7.2	6.9	6.0	7.4	29	105	29	32	23	3.4	2.8
25	4.0	6.7	6.7	5.8	7.7	30	100	33	58	13	3.6	4.4
26	4.0	6.8	6.6	6.0	7.5	30	100	28	34	11	4.0	5.8
27	4.2	6.9	6.3	5.8	8.5	33	101	24	24	9.5	3.9	5.0
28	4.3	6.5	6.3	6.1	9.3	35	107	26	20	8.7	3.6	4.3
29	4.0	5.9	6.6	6.4	9.9	42	112	23	20	7.6	3.1	4.0
30	3.9	5.0	6.5	6.7	---	47	120	26	16	6.7	3.0	3.8
31	3.7	---	6.3	7.1	---	52	---	50	---	6.3	3.0	---
TOTAL	124.4	182.5	212.8	192.3	210.1	767	3267	1715	781	464.9	136.1	93.7
MEAN	4.01	6.08	6.86	6.20	7.24	24.7	109	55.3	26.0	15.0	4.39	3.12
MAX	5.5	7.9	7.8	7.1	9.9	52	161	122	68	44	8.6	5.8
MIN	3.4	3.8	4.2	5.2	6.1	11	54	23	12	6.3	3.0	2.4
AC-FT	247	362	422	381	417	1520	6480	3400	1550	922	270	186

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1992, BY WATER YEAR (WY)

	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
MEAN	7.21	8.61	7.11	6.27	7.50	23.5	177	196	69.8	13.3	4.25	4.60			
MAX	14.6	15.2	10.4	9.50	13.8	61.2	352	398	227	57.4	8.95	9.23			
(WY)	1947	1987	1948	1948	1986	1986	1987	1988	1986	1947	1947	1986			
MIN	3.85	6.08	3.38	3.85	3.44	9.77	44.8	46.5	14.2	3.04	2.47	2.10			
(WY)	1990	1992	1991	1991	1947	1950	1989	1989	1989	1989	1989	1990			

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1946 - 1992
ANNUAL TOTAL	18082.5	8146.8	--
ANNUAL MEAN	49.5	22.3	44.8
HIGHEST ANNUAL MEAN	--	--	73.4
LOWEST ANNUAL MEAN	--	--	13.9
HIGHEST DAILY MEAN	906	161	1920
LOWEST DAILY MEAN	1.7	2.4	1.1
ANNUAL SEVEN-DAY MINIMUM	1.8	2.5	1.4
INSTANTANEOUS PEAK FLOW	--	246	3200
INSTANTANEOUS PEAK STAGE	--	4.66	9.42
ANNUAL RUNOFF (AC-FT)	35870	16160	32490
10 PERCENT EXCEEDS	177	74	140
50 PERCENT EXCEEDS	6.5	7.2	7.9
90 PERCENT EXCEEDS	2.9	3.4	3.3

PLATTE RIVER BASIN
06646600 DEER CREEK BELOW MILLAR WASTEWAY, AT GLENROCK, WY

LOCATION.--Lat 42°51'50", long 105°51'56", in SW¼ NW¼ NW¼ sec.4, T.33 N., R.75 W., Converse County, Hydrologic Unit 10180007, on right bank in Glenrock, 800 ft downstream from bridge on U.S. Highways 20 and 87, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--213 mi².

PERIOD OF RECORD.--February 1961 to September 1992 (discontinued).

REVISED RECORDS.--WSP 2118: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 3, Nov. 24, 25, Nov. 29 to Dec. 5, Dec. 11, 12, 14, 17, 18, 22, Dec. 24 to Jan. 5, Jan. 7-11, 13-27, 29, 30, Feb. 1-12, and May 13 to June 24. Records good except those for estimated daily discharges, and those for July to September, which are poor. One small reservoir upstream from station, capacity, about 60 acre-ft, for irrigation. Diversions upstream from station for irrigation of about 3,700 acres, of which about 400 acres are downstream from station. Water is diverted at times to Millar ditch 0.3 mi upstream and bypasses station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1800	*176	*3.92	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	10	12	17	14	17	55	117	1.9	10	.71	.53
2	8.0	11	15	19	13	18	55	109	1.7	15	.76	.49
3	8.7	13	16	20	14	18	60	97	1.4	30	.63	.48
4	11	14	17	21	13	19	79	64	1.3	26	.61	.48
5	12	14	18	20	12	23	102	23	1.1	19	.60	.48
6	12	14	18	18	13	22	115	11	1.1	12	.59	.46
7	12	15	18	17	12	23	100	6.4	1.0	6.6	.58	.47
8	12	15	18	15	13	26	91	3.4	.97	9.2	.58	.65
9	12	15	19	16	13	25	93	1.9	.95	7.8	.55	.66
10	12	15	17	17	13	23	113	1.9	.99	6.4	.49	.67
11	12	15	15	16	13	23	121	1.7	.97	6.0	.51	.67
12	12	16	14	17	13	26	113	1.3	1.0	6.2	.59	.68
13	12	15	16	15	14	27	133	1.2	.97	6.7	.60	.69
14	12	15	19	12	14	27	129	1.2	.92	4.4	.60	.76
15	12	17	22	13	15	28	125	1.1	.89	3.3	.60	.75
16	12	16	20	15	14	29	127	1.0	.85	2.1	.57	.74
17	11	15	19	13	14	31	145	.95	.80	.88	.59	.74
18	11	16	18	11	15	31	165	.90	.84	.69	.51	.74
19	11	18	17	13	12	32	160	.83	.79	.58	.41	.80
20	11	17	16	16	16	31	141	.94	.72	.64	.40	.81
21	12	16	14	17	15	31	143	1.2	.67	.71	.44	1.2
22	12	17	16	15	15	30	128	1.4	.62	.61	.54	.89
23	12	17	22	14	15	29	126	1.3	.60	.62	.73	.89
24	12	16	18	17	16	30	116	1.2	5.0	.55	.53	1.0
25	12	17	19	15	15	30	102	1.1	48	1.2	.51	3.2
26	12	17	17	16	16	31	94	1.2	17	.59	.56	1.9
27	12	17	16	15	16	33	95	1.0	14	.57	.51	1.9
28	13	18	18	16	16	38	102	1.0	11	.61	.47	1.9
29	13	16	20	15	17	43	108	.90	12	.72	.44	1.9
30	12	13	19	15	---	47	120	1.1	15	.84	.41	1.9
31	11	---	17	15	---	54	---	1.5	---	.82	.45	---
TOTAL	355.5	460	540	491	411	895	3356	458.62	145.05	181.33	17.07	29.43
MEAN	11.5	15.3	17.4	15.8	14.2	28.9	112	14.8	4.83	5.85	.55	.98
MAX	13	18	22	21	17	54	165	117	48	30	.76	3.2
MIN	6.8	10	12	11	12	17	55	.83	.60	.55	.40	.46
AC-FT	705	912	1070	974	815	1780	6660	910	288	360	34	58

PLATTE RIVER BASIN
06646600 DEER CREEK BELOW MILLAR WASTEWAY, AT GLENROCK, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

MEAN	14.1	19.4	19.0	19.4	20.9	35.5	149	357	101	8.69	2.31	5.27
MAX	33.9	35.8	37.0	34.6	36.3	120	364	1375	529	60.5	14.6	30.4
(WY)	1974	1974	1974	1974	1962	1972	1987	1973	1970	1967	1973	1973
MIN	2.30	3.04	9.06	10.5	12.9	14.2	6.48	3.77	4.13	.39	.004	.029
(WY)	1965	1964	1991	1991	1990	1964	1981	1989	1989	1981	1980	1981

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1961 - 1992

ANNUAL TOTAL	18659.42			7340.00								
ANNUAL MEAN	51.1			20.1						64.3		
HIGHEST ANNUAL MEAN	--			--						165		1973
LOWEST ANNUAL MEAN	--			--						11.1		1989
HIGHEST DAILY MEAN	1070	May 16		165	Apr 18					3930	May 14	1965
LOWEST DAILY MEAN	.87	Jul 26		.40	Aug 20					.00	Several days,	
											1961-63, 1965,	
											1977, 1978, 1980	
ANNUAL SEVEN-DAY MINIMUM	.98	Sep 1		.47	Aug 28					.00	Jul 25	1961
INSTANTANEOUS PEAK FLOW	--			176	Apr 18					14200	Jun 12	1970
INSTANTANEOUS PEAK STAGE	--			3.92	Apr 18					9.45	Jun 12	1970
ANNUAL RUNOFF (AC-FT)	37010			14560						46550		
10 PERCENT EXCEEDS	172			47						139		
50 PERCENT EXCEEDS	13			13						18		
90 PERCENT EXCEEDS	1.5			.60						.98		

PLATTE RIVER BASIN
06646800 NORTH PLATTE RIVER NEAR GLENROCK, WY

LOCATION.--Lat 42°50'10", long 105°45'30", in NW¼ NE¼ sec.17, T.33 N., R.74 W., Converse County, Hydrologic Unit 10180007, on left bank 0.8 mi downstream from Sand Creek, 1.0 mi downstream from Dave Johnston Power Plant, and 5.8 mi east of Glenrock city limits.

DRAINAGE AREA.--13,538 mi², of which 1,173 mi² is probably non-contributing.

PERIOD OF RECORD.--October 1959 to September 1992 (discontinued).

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

GAGE.--Water-stage recorder. Elevation of gage is 4,920 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1965, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Seminole, Pathfinder, and Alcova Reservoirs. (See sta 06635500, 06640500, and 06641500.) Slight regulation 1.0 mi upstream by storage pond for Dave Johnston Power Plant, capacity, 755 acre-ft. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas. U.S. Army Corp of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	787	480	571	645	625	649	664	1370	2170	2000	987
2	657	537	477	559	666	614	653	660	1320	2290	1690	1290
3	660	479	521	531	667	614	646	645	1550	2260	1660	1750
4	697	634	736	599	640	623	651	629	1690	2070	1650	1870
5	673	1070	837	651	618	668	676	570	1700	2030	1420	2330
6	642	1100	923	704	592	646	695	562	1810	1970	1480	2420
7	642	968	891	647	618	635	678	549	1900	1910	1510	2460
8	648	886	760	618	633	663	666	545	1910	2070	1440	2500
9	649	854	658	559	641	704	670	528	1920	2220	1280	2550
10	651	624	665	589	658	683	683	547	1910	2170	1220	2270
11	653	583	625	639	687	666	697	540	1900	2140	1200	2210
12	626	625	572	704	677	683	706	517	1960	2130	1010	1940
13	582	626	522	606	681	584	708	503	1910	2130	937	1740
14	580	639	488	528	693	682	701	500	1820	2070	876	1620
15	569	676	514	483	714	671	689	667	1580	2200	861	1570
16	581	685	564	432	692	662	717	685	1650	2170	801	1170
17	566	673	611	507	678	661	712	798	1860	2140	813	903
18	569	682	581	588	656	667	732	806	1850	2100	819	706
19	588	699	700	572	626	676	749	798	1820	2210	801	664
20	612	695	731	588	634	646	741	924	1790	2170	794	647
21	617	694	599	608	641	674	732	1030	1780	2180	953	639
22	612	709	590	601	645	651	724	1350	1790	2160	946	627
23	620	711	620	585	656	642	717	1480	1790	2120	998	594
24	645	720	567	619	650	635	699	1350	2090	2040	965	602
25	661	765	536	645	637	633	689	1360	2170	1840	976	655
26	663	764	540	645	628	627	670	1350	2510	1980	999	663
27	672	763	524	638	643	633	673	1360	2720	2090	1010	637
28	701	764	515	666	641	636	649	1330	2270	2010	1150	623
29	702	744	573	678	628	640	661	1310	2230	1960	1090	614
30	701	722	565	664	---	648	671	1370	2190	1910	990	626
31	675	---	587	668	---	651	---	1360	---	1940	977	---
TOTAL	19768	21878	19072	18692	18885	20243	20704	27287	56760	64850	35316	39877
MEAN	638	729	615	603	651	653	690	880	1892	2092	1139	1329
MAX	702	1100	923	704	714	704	749	1480	2720	2290	2000	2550
MIN	566	479	477	432	592	614	646	500	1320	1840	794	594
AC-FT	39210	43400	37830	37080	37460	40150	41070	54120	112600	128600	70050	79100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1182	1061	881	889	977	1115	1525	2167	2240	2353	2227	1589																				
MAX	1696	2008	1190	1071	1337	2717	4092	6499	8029	8072	4028	2784																				
(WY)	1986	1987	1967	1971	1972	1984	1974	1973	1984	1983	1983	1985																				
MIN	540	634	592	603	651	563	639	880	777	696	586	566																				
(WY)	1961	1991	1991	1992	1992	1981	1990	1992	1982	1967	1967	1967																				

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1961 - 1992
ANNUAL TOTAL	379889	363332	--
ANNUAL MEAN	1041	993	1520
HIGHEST ANNUAL MEAN	--	--	2785
LOWEST ANNUAL MEAN	--	--	878
HIGHEST DAILY MEAN	3050	2720	11000
LOWEST DAILY MEAN	455	432	176
ANNUAL SEVEN-DAY MINIMUM	484	526	302
INSTANTANEOUS PEAK FLOW	--	3770	16000
INSTANTANEOUS PEAK STAGE	--	3.74	7.10
ANNUAL RUNOFF (AC-FT)	753500	720700	1101000
10 PERCENT EXCEEDS	1850	2030	2670
50 PERCENT EXCEEDS	724	682	1150
90 PERCENT EXCEEDS	572	572	677

DRAINAGE AREA.--63.0 mi².

GAGE.--Water-stage recorder. Elevation of gage is 6,710 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 7, 1946, non-recording gage, and June 8, 1946, to July 21, 1976, water-stage recorder at site 400 ft downstream at different datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1992, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1946 - 1992	
ANNUAL TOTAL	12409.52		4490.33		--	
ANNUAL MEAN	34.0		12.3		34.7	
HIGHEST ANNUAL MEAN	--		--		85.8	
LOWEST ANNUAL MEAN	--		--		6.95	
HIGHEST DAILY MEAN	706	May 16	110	May 1	2460	May 14 1965
LOWEST DAILY MEAN	.07	Aug 30	.18	Sep 16	.00	Some years
ANNUAL SEVEN-DAY MINIMUM	.07	Aug 28	.21	Sep 11	.00	Some years
INSTANTANEOUS PEAK FLOW	--		115 May 1		4530 May 14 1965	
INSTANTANEOUS PEAK STAGE	--		2.64 May 1		8.58a May 14 1965	
ANNUAL RUNOFF (AC-FT)	24610		8910		25120	
10 PERCENT EXCEEDS	80		40		102	
50 PERCENT EXCEEDS	1.6		1.9		2.9	
90 PERCENT EXCEEDS	.30		.46		.37	

a Site and datum then in use.

DRAINAGE AREA.--135 mi²

PERIOD OF RECORD.--August 1919 to September 1992, discontinued (no winter records since 1971).

REVISED RECORDS.--WSP 1710: Drainage area. WSP 1918: 1920(M), 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is about 5,600 ft above National Geodetic Vertical Datum of 1929, from nearby line of levels.

REMARKS.--No estimated daily discharges. Records fair. Several small reservoirs upstream from station, combined capacity, about 140 acre-ft, for irrigation. Diversions for irrigation of about 4,600 acres upstream from station. Water is imported from La Bonte Creek and Wagonhound Creek basins into Little La Prele Creek, upstream from station, for irrigation downstream from La Prele Reservoir.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	9.0	16	5.0	2.1	3.9	1.4	1.0
2	---	---	---	---	---	9.7	23	6.6	2.0	6.4	1.4	.95
3	---	---	---	---	---	10	25	5.2	1.6	6.0	1.7	.86
4	---	---	---	---	---	13	26	6.7	1.3	4.3	1.7	.70
5	---	---	---	---	---	16	29	4.5	1.2	4.5	1.6	.63
6	---	---	---	---	---	15	19	2.8	1.2	4.1	1.3	.63
7	---	---	---	---	---	15	16	1.6	1.1	2.9	1.1	.70
8	---	---	---	---	---	17	16	2.1	1.5	2.9	1.0	.70
9	---	---	---	---	---	16	15	2.1	1.6	2.9	1.0	.63
10	---	---	---	---	---	15	19	2.6	1.0	3.1	.95	.56
11	---	---	---	---	---	16	21	2.6	1.1	3.9	.95	.56
12	---	---	---	---	---	16	20	2.9	1.4	3.5	.95	.44
13	---	---	---	---	---	18	25	3.1	1.6	2.6	.86	.44
14	---	---	---	---	---	19	25	2.9	2.2	1.8	.86	.50
15	---	---	---	---	---	20	24	3.1	2.6	1.3	.86	.50
16	---	---	---	---	---	22	24	3.5	2.4	1.2	.86	.56
17	---	---	---	---	---	23	24	4.3	2.2	1.1	.78	.50
18	---	---	---	---	---	24	36	3.7	2.1	1.0	.78	.56
19	---	---	---	---	---	22	38	2.9	2.2	1.0	.78	.63
20	---	---	---	---	---	20	32	3.3	1.7	1.2	.70	.63
21	---	---	---	---	---	21	30	4.3	1.1	2.1	.70	.63
22	---	---	---	---	---	18	29	6.0	.95	1.8	.70	.63
23	---	---	---	---	---	19	24	6.0	.95	2.5	.70	.63
24	---	---	---	---	---	20	21	5.4	2.5	3.1	1.3	.63
25	---	---	---	---	---	18	21	4.5	3.4	2.4	1.7	.50
26	---	---	---	---	---	18	20	2.9	2.1	2.2	1.1	.44
27	---	---	---	---	---	17	8.9	2.1	2.2	2.1	1.0	.39
28	---	---	---	---	---	12	3.7	2.1	2.4	1.8	1.0	.39
29	---	---	---	---	---	15	9.8	2.0	3.5	1.7	.78	.39
30	---	---	---	---	---	15	11	2.2	4.3	1.7	.70	.39
31	---	---	---	---	---	16	---	2.2	---	1.6	.78	---
TOTAL	---	---	---	---	---	524.7	651.4	111.2	57.50	82.6	31.99	17.70
MEAN	---	---	---	---	---	16.9	21.7	3.59	1.92	2.66	1.03	.59
MAX	---	---	---	---	---	24	38	6.7	4.3	6.4	1.7	1.0
MIN	---	---	---	---	---	9.0	3.7	1.6	.95	1.0	.70	.39
AC-FT	---	---	---	---	---	1040	1290	221	114	164	63	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1971, BY WATER YEAR (WY)

MEAN	8.23	8.49	7.81	7.33	7.89	15.9	97.9	233	74.9	12.7	4.43	4.25
MAX	81.7	37.3	32.2	23.6	19.3	53.5	294	662	455	67.3	17.3	17.6
(WY)	1925	1925	1924	1924	1924	1929	1926	1971	1970	1926	1927	1923
MIN	.59	1.70	2.48	2.58	2.07	4.12	6.83	13.7	3.40	.98	.24	.23
(WY)	1941	1941	1941	1941	1941	1935	1956	1956	1966	1932	1936	1940

SUMMARY STATISTICS

ANNUAL MEAN	--		40.4	
HIGHEST ANNUAL MEAN	--		99.0	1970
LOWEST ANNUAL MEAN	--		5.34	1956
HIGHEST DAILY MEAN	38	Apr 19	5530	Jun 12 1970
LOWEST DAILY MEAN	.39	Sep 27-30	.00	Several days

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW	43	Apr 18	17300a	Jun 12 1970#
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INSTANTANEOUS PEAK STAGE	4.43	Apr 18	13.01	Jun 12 1970#
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ANNUAL RUNOFF (AC-FT)

10 PERCENT EXCEEDS	--	114
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50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

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* During period of operation.

For period of record through 1992.

a From rating curve extended above 2,700 ft³/s on basis of slope-area measurement of peak flow.

PLATTE RIVER BASIN
06652000 NORTH PLATTE RIVER AT ORIN, WY

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LOCATION.--Lat 42°39'02", long 105°09'46", in SE¼ SW¼ sec.17, T.31 N., R.69 W., Converse County, Hydrologic Unit 10180008, on right bank 630 ft downstream from bridge on U.S. Highway 87, 0.2 mi upstream from Shawnee Creek, and 1.5 mi east of Orin.

DRAINAGE AREA.--14,888 mi², of which 1,193 mi² is probably non-contributing.

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. Datum of gage is 4,656.85 ft above National Geodetic Vertical Datum of 1929. 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 2.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 6, Nov. 29 to Dec. 5, Dec. 14-18, and Jan. 8-10, 13-25.

Records good except those for estimated daily discharges, 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. Satellite telemeter at station.

COOPERATION.--Seventeen discharge measurements provided by the Bureau of Reclamation and fourteen provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	655	740	620	564	694	656	733	711	1330	2340	1960	946
2	643	860	435	575	667	656	728	711	1270	2440	1880	988
3	647	680	470	541	695	648	719	712	1250	2590	1650	1360
4	692	645	595	508	687	673	711	685	1500	2350	1610	1770
5	707	720	760	599	623	762	736	658	1640	2230	1540	2100
6	678	1170	854	629	634	759	780	592	1690	2150	1330	2400
7	654	1180	933	696	601	735	812	576	1800	2050	1450	2510
8	650	1060	901	635	628	785	787	568	1830	1960	1450	2560
9	656	977	770	615	657	820	769	576	2240	2230	1340	2610
10	667	931	661	560	660	830	773	597	1890	2260	1190	2520
11	674	693	658	592	672	812	790	584	1850	2220	1130	2300
12	678	633	624	648	704	786	808	543	1850	2200	1090	2150
13	652	665	585	680	687	796	805	524	1930	2210	900	1920
14	603	668	525	585	712	797	809	515	1830	2150	822	1690
15	607	683	455	495	718	796	790	487	2090	2070	788	1670
16	601	719	505	455	737	777	767	621	1610	2230	786	1540
17	609	721	550	405	722	757	802	630	1710	2160	730	1130
18	595	710	600	475	707	767	822	721	1830	2120	732	869
19	610	726	589	575	682	800	878	713	1770	2160	769	714
20	625	745	708	645	652	806	891	700	1740	2200	719	657
21	643	739	732	600	663	767	874	862	1720	2210	735	632
22	651	736	622	590	659	784	861	1030	1680	2300	895	616
23	648	746	583	570	698	751	843	1360	1700	2160	909	622
24	683	752	623	610	690	739	829	1430	1950	2150	945	574
25	694	764	587	655	681	732	792	1300	3220	2030	937	597
26	715	816	540	677	671	722	774	1260	2240	1780	950	649
27	727	813	544	673	659	714	743	1240	2920	2040	962	668
28	741	828	531	671	664	714	742	1250	2480	2010	980	633
29	783	795	516	696	664	715	700	1260	2340	1980	1110	622
30	778	765	551	703	---	725	702	1250	2360	1890	1030	613
31	750	---	549	690	---	739	---	1330	---	1850	940	---
TOTAL	20716	23680	19176	18612	19588	23320	23570	25996	57260	66720	34259	40630
MEAN	668	789	619	600	675	752	786	839	1909	2152	1105	1354
MAX	783	1180	933	703	737	830	891	1430	3220	2590	1960	2610
MIN	595	633	435	405	601	648	700	487	1250	1780	719	574
AC-FT	41090	46970	38040	36920	38850	46260	46750	51560	113600	132300	67950	80590

PLATTE RIVER BASIN
06652000 NORTH PLATTE RIVER AT ORIN, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1992, BY WATER YEAR (WY)

MEAN	1241	1131	934	939	1038	1188	1898	3359	3252	2677	2313	1675
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	595	618	670	839	958	982	583	399
(WY)	1961	1959	1991	1992	1959	1981	1981	1992	1990	1967	1898	1898

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1895 - 1992	
ANNUAL TOTAL	450763		373527		--	
ANNUAL MEAN	1235		1021		1644	
HIGHEST ANNUAL MEAN	--		--		3110	
LOWEST ANNUAL MEAN	--		--		935	
HIGHEST DAILY MEAN	9460	May 16	3220	Jun 25	20300	Jun 27 1917
LOWEST DAILY MEAN	435	Dec 2	405	Jan 17	140	Dec 21 1890
ANNUAL SEVEN-DAY MINIMUM	544	Dec 13	519	Jan 14	324	Sep 25 1966
INSTANTANEOUS PEAK FLOW	--		5030 ^a	Jun 25	23800 ^b	May 15 1965
INSTANTANEOUS PEAK STAGE	--		5.73 ^c	Jan 19	10.45	Jun 12 1970
ANNUAL RUNOFF (AC-FT)	894100		740900		1191000	
10 PERCENT EXCEEDS	2240		2090		3850	
50 PERCENT EXCEEDS	765		739		1320	
90 PERCENT EXCEEDS	599		588		720	

a Gage height, 5.33 ft.

b Gage height, 10.00 ft.

c Ice jam.

PLATTE RIVER BASIN

325

06652700 GLENDO RESERVOIR NEAR GLENDO, WY

LOCATION.--Lat 42°28'21", long 104°57'28", in SW¼ NE¼ sec.24, T.29 N., R.68 W., Platte County, Hydrologic Unit 10180008, on right bank in gate shaft house on North Platte River, 0.5 mi southwest of Glendo Dam, and 5.0 mi southeast of Glendo.

DRAINAGE AREA.--15,545 mi², of which 1,215 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1957 to current year.

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

GAGE.--Water-stage recorder for elevations above 4,543.50 ft. Datum of gage is 4,543.50 ft above National Geodetic Vertical Datum of 1929 (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, 448,000 acre-ft, June 27-28, elevation, 4,629.00 ft, June 28; minimum daily contents, 62,600 acre-ft, Sept. 6, elevation, 4,569.84 ft.

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

4,560	36,100	4,590	144,000	4,620	358,000
4,570	63,100	4,600	202,000	4,630	459,000
4,580	98,800	4,610	274,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95600	139000	188000	229000	268000	307000	352000	346000	371000	442000	297000	70500
2	97100	140000	189000	230000	270000	308000	353000	345000	373000	439000	291000	66400
3	98800	141000	190000	231000	271000	310000	354000	345000	376000	436000	286000	64100
4	100000	142000	191000	232000	273000	312000	356000	344000	378000	433000	278000	63200
5	102000	144000	192000	234000	274000	313000	357000	344000	381000	430000	269000	62700
6	103000	147000	194000	235000	275000	315000	358000	345000	384000	426000	261000	62600
7	105000	150000	197000	237000	276000	316000	358000	346000	387000	422000	254000	62700
8	106000	152000	199000	238000	278000	318000	358000	347000	390000	421000	247000	63100
9	108000	154000	200000	239000	279000	320000	358000	348000	394000	423000	241000	63600
10	109000	156000	202000	240000	280000	321000	358000	349000	397000	425000	235000	64100
11	111000	158000	203000	242000	282000	323000	358000	350000	401000	426000	228000	64000
12	112000	159000	205000	243000	283000	324000	357000	351000	404000	422000	220000	63600
13	114000	160000	206000	245000	285000	326000	356000	352000	408000	417000	213000	63100
14	115000	162000	207000	246000	286000	327000	356000	353000	412000	411000	204000	63500
15	116000	163000	208000	246000	287000	328000	355000	353000	416000	406000	196000	63600
16	117000	165000	209000	247000	289000	330000	355000	354000	419000	401000	186000	64300
17	119000	166000	210000	248000	290000	331000	354000	355000	422000	396000	178000	64800
18	120000	168000	211000	249000	291000	333000	354000	356000	425000	393000	169000	65800
19	121000	169000	213000	250000	293000	334000	354000	356000	429000	386000	160000	66500
20	122000	171000	214000	252000	294000	336000	353000	356000	430000	380000	152000	66500
21	124000	173000	216000	253000	295000	337000	353000	355000	434000	376000	144000	66500
22	125000	174000	217000	254000	297000	339000	352000	354000	437000	372000	136000	66200
23	127000	175000	218000	256000	298000	340000	352000	353000	438000	369000	128000	65800
24	128000	177000	220000	257000	299000	341000	351000	355000	440000	366000	119000	66700
25	129000	178000	221000	258000	301000	343000	350000	356000	444000	362000	112000	67600
26	131000	180000	222000	260000	302000	344000	350000	358000	446000	352000	105000	69000
27	133000	182000	223000	261000	303000	345000	349000	359000	448000	341000	98600	70500
28	133000	184000	224000	263000	304000	347000	348000	361000	448000	330000	92600	71900
29	135000	186000	225000	264000	306000	348000	348000	364000	447000	320000	86900	73300
30	136000	187000	227000	266000	---	349000	347000	366000	445000	309000	81300	74700
31	138000	---	228000	267000	---	350000	---	368000	---	302000	75800	---
MAX	138000	187000	228000	267000	306000	350000	358000	368000	448000	442000	297000	74700
MIN	95600	139000	188000	229000	268000	307000	347000	344000	371000	302000	75800	62600
(#)	4,588.76	4,597.54	4,603.76	4,609.14	4,613.98	4,619.11	4,618.74	4,621.07	4,628.67	4,613.48	4,573.83	4,573.51
(*)	+43,900	+49,000	+41,000	+39,000	+39,000	+44,000	-3,000	+21,000	+77,000	-143,000	-226,200	-1,100

CAL YR 1991 MAX 558000 MIN 79100 (*) +35,000

WTR YR 1992 MAX 448000 MIN 62600 (*) -19,400

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN
06652800 NORTH PLATTE RIVER BELOW GLENDO RESERVOIR, WY

LOCATION.--Lat 42°27'25", long 104°56'50", in SW¼ SW¼ NW¼ 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 is probably 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 National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Nov. 1, 2 and Jan. 23 to Feb. 27. Records excellent except those less than 500 ft³/s, which are fair. Flow completely regulated by Glendo Reservoir since Oct. 17, 1957. (See sta 06652700.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Sixteen discharge measurements provided by the Bureau of Reclamation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.2	2.2	1.6	1.2	1.1	18	1020	24	3750	4400	3270
2	1.5	1.2	2.6	1.5	1.2	1.1	16	1040	24	3490	4480	2470
3	1.6	1.2	2.6	1.5	1.1	1.1	16	1040	23	3540	5180	2120
4	2.2	1.1	2.6	1.5	1.1	2.0	17	615	23	3670	5970	1080
5	2.3	1.2	2.4	1.5	1.1	3.0	17	328	23	3730	5920	1730
6	1.7	1.2	2.4	1.4	1.1	2.0	331	192	22	4070	5660	2270
7	2.9	1.1	2.3	1.4	1.1	1.8	689	32	22	3280	4870	2290
8	6.2	1.2	2.3	1.4	1.1	3.8	763	23	22	997	4360	2270
9	2.4	1.3	2.3	1.4	1.1	3.5	838	24	21	1020	4380	2260
10	1.4	1.6	2.3	1.3	1.1	2.1	1010	26	21	974	4430	2270
11	1.3	1.5	2.2	1.3	1.1	1.6	1010	24	21	2140	4910	2450
12	1.2	1.4	2.2	1.3	1.1	1.3	1020	24	21	4750	5060	2440
13	1.2	1.1	2.3	1.3	1.1	1.3	1020	24	21	4680	5020	2050
14	1.0	.69	2.1	1.3	1.1	1.2	1020	24	24	4510	5160	1580
15	1.1	.50	2.1	1.3	1.1	1.2	1010	25	27	4580	5240	1570
16	1.1	.47	2.1	1.3	1.1	1.2	1010	25	24	4550	5260	1300
17	1.0	.61	2.0	1.2	1.0	1.4	1010	25	22	4540	5220	1200
18	.94	.70	2.0	1.2	1.0	1.5	1010	322	22	4530	5150	403
19	.92	.96	2.0	1.2	1.0	1.6	1020	640	21	4530	4930	617
20	.91	.76	1.9	1.1	1.0	1.5	1010	1210	21	4440	4780	823
21	.94	.72	1.9	1.2	1.0	1.4	1010	1630	21	4120	5000	825
22	.95	1.6	1.9	1.2	1.0	1.4	1010	1260	442	3910	5010	966
23	.96	2.0	1.8	1.2	1.0	1.5	1010	961	802	3700	5000	805
24	1.1	2.0	1.8	1.2	1.0	4.7	1010	533	958	3530	4890	311
25	1.1	2.2	1.8	1.2	2.5	5.7	1030	466	1080	5320	4560	242
26	1.2	2.4	1.7	1.2	1.8	20	1030	332	1220	7370	4220	17
27	1.3	2.3	1.6	1.2	1.5	15	1020	299	1460	7350	3920	18
28	.98	2.6	1.7	1.2	1.3	14	1030	144	2610	7370	3880	17
29	1.2	2.5	1.7	1.2	1.3	14	1030	23	3080	7390	3840	18
30	1.3	2.5	1.6	1.2	---	52	1020	23	3460	7310	3870	20
31	1.3	---	1.6	1.2	---	52	---	23	---	4330	3870	---
TOTAL	46.90	41.81	64.0	40.2	43.2	217.0	24055	12377	15582	133471	148440	39702
MEAN	1.51	1.39	2.06	1.30	1.49	7.00	802	399	519	4306	4788	1323
MAX	6.2	2.6	2.6	1.6	10	52	1030	1630	3460	7390	5970	3270
MIN	.91	.47	1.6	1.1	1.0	1.1	16	23	21	974	3840	17
AC-FT	93	83	127	80	86	430	47710	24550	30910	264700	294400	78750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1958	72.9	951	1987	1.51	1992
1959	31.4	857	1988	1.09	1991
1960	14.7	324	1959	1.00	1991
1961	12.2	173	1963	1.30	1992
1962	118	1054	1984	1.33	1990
1963	519	3837	1974	1.58	1990
1964	1183	3868	1984	203	1960
1965	2128	4688	1984	15.4	1990
1966	2723	8916	1973	66.1	1962
1967	4876	8681	1983	3104	1962
1968	4982	8923	1983	3871	1977
1969	2590	6027	1983	906	1961

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1958 - 1992
ANNUAL TOTAL	433832.94	374080.11	--
ANNUAL MEAN	1189	1022	1615
HIGHEST ANNUAL MEAN	--	--	3126
LOWEST ANNUAL MEAN	--	--	920
HIGHEST DAILY MEAN	7410	7390	10300
LOWEST DAILY MEAN	.47	.47	.41
ANNUAL SEVEN-DAY MINIMUM	.67	.67	.64
INSTANTANEOUS PEAK FLOW	--	7710	10300
INSTANTANEOUS PEAK STAGE	--	10.04	11.16
ANNUAL RUNOFF (AC-FT)	860500	742000	1170000
10 PERCENT EXCEEDS	4630	4430	4950
50 PERCENT EXCEEDS	7.7	17	279
90 PERCENT EXCEEDS	1.1	1.1	2.0

LOCATION.--Lat 42°27'57", long 105°04'22", SE¼ NW¼ SE¼ sec.24, T.29 N., R.69 W., Platte County, Hydrologic Unit 10180008, on right bank on downstream side of bridge on Horseshoe Creek Road, 3.3 mi southwest of Glendo, and 3.5 mi upstream from I-25.

DRAINAGE AREA.--195 mi².

PERIOD OF RECORD.--October 1961 to September 1968, August 1988 to current year. Low-flow records at current site may not be equivalent to site used prior to Oct. 1, 1968, because of undetermined channel-flow loss or gain between sites.

REVISED RECORDS.--WDR WY-88-1: Drainage area. WDR WY-91-1: 1990 (M).

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1961 to September 1968 at site 2.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	9.2	11	10	9.1	11	17	16	17	23	8.6	3.5
2	6.8	8.7	11	9.8	8.9	12	17	15	20	26	7.9	3.4
3	6.9	8.4	11	10	8.9	12	18	15	19	27	7.9	3.1
4	7.9	8.3	12	9.6	8.9	13	17	14	17	23	7.9	3.3
5	7.8	8.4	12	9.4	8.9	18	15	13	17	21	8.6	3.0
6	7.8	8.7	12	9.4	8.7	17	15	12	18	21	7.9	2.9
7	7.8	9.1	12	9.6	8.6	18	15	10	18	20	7.7	2.9
8	7.4	9.3	12	11	8.5	21	12	10	18	22	7.1	2.9
9	8.0	9.6	12	12	8.4	21	14	10	20	22	6.1	2.7
10	7.8	9.7	12	11	8.4	17	16	10	20	21	5.7	2.6
11	7.6	10	12	11	8.4	19	18	11	18	21	5.4	2.4
12	9.1	10	11	11	8.4	19	18	14	16	21	4.8	2.4
13	8.9	11	12	11	8.4	19	18	18	17	20	4.7	2.6
14	8.5	10	11	10	8.6	22	19	20	30	20	4.7	2.4
15	8.2	11	12	9.4	8.9	24	21	21	40	19	4.3	2.4
16	5.9	10	12	11	8.7	25	18	20	23	18	4.2	2.3
17	5.8	11	11	11	8.6	25	18	17	18	18	4.6	2.2
18	6.3	11	11	9.8	8.4	26	22	16	16	17	4.3	2.2
19	7.1	11	11	10	8.6	22	25	16	15	16	4.0	2.3
20	7.1	11	11	10	8.4	18	25	15	14	16	3.5	2.2
21	6.7	11	11	9.8	8.8	16	25	17	12	16	3.4	2.2
22	7.0	11	11	9.4	8.4	17	24	19	11	16	3.2	2.1
23	7.1	11	11	8.9	9.8	14	21	28	11	17	3.4	2.1
24	6.6	10	11	9.6	9.9	12	20	24	19	17	3.6	2.1
25	6.8	10	11	9.3	9.4	12	22	21	29	24	4.3	2.2
26	7.4	11	11	9.2	9.4	13	20	20	24	21	4.8	2.2
27	7.5	11	11	9.3	8.9	13	21	20	25	13	4.2	2.3
28	7.9	12	11	9.1	9.2	13	17	20	24	12	3.8	2.2
29	9.2	12	11	9.0	10	14	18	20	24	11	3.8	2.3
30	9.9	11	10	9.0	---	14	17	19	24	10	3.7	2.2
31	9.9	---	10	9.2	---	15	---	17	---	9.2	3.5	---
TOTAL	235.2	305.4	350	307.8	256.5	532	563	518	594	578.2	161.6	75.6
MEAN	7.59	10.2	11.3	9.93	8.84	17.2	18.8	16.7	19.8	18.7	5.21	2.52
MAX	9.9	12	12	12	10	26	25	28	40	27	8.6	3.5
MIN	5.8	8.3	10	8.9	8.4	11	12	10	11	9.2	3.2	2.1
AC-FT	467	606	694	611	509	1060	1120	1030	1180	1150	321	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	5.50	6.24	5.39	4.70	5.46	8.70	41.7	124	132	25.8	8.48	4.64																			
MAX	25.9	17.0	11.3	10.5	9.40	17.4	131	361	345	101	21.4	14.3																			
(WY)	1966	1966	1992	1968	1968	1968	1968	1965	1965	1967	1967	1965																			
MIN	.79	.81	.50	.80	2.06	2.51	10.6	16.7	11.1	1.91	.78	.063																			
(WY)	1990	1990	1964	1990	1990	1964	1989	1992	1989	1989	1966	1966																			

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	18780.1	4477.3	--
ANNUAL MEAN	51.5	12.2	31.1
HIGHEST ANNUAL MEAN	--	--	68.7
LOWEST ANNUAL MEAN	--	--	5.51
HIGHEST DAILY MEAN	1320	40	2790
LOWEST DAILY MEAN	2.2	2.1	.00
		Jun 2	Jun 15
		Mar 28	Sep 22-24
ANNUAL SEVEN-DAY MINIMUM	2.4	2.2	.00
INSTANTANEOUS PEAK FLOW	--	174	7850a
INSTANTANEOUS PEAK STAGE	--	2.95	8.42b
ANNUAL RUNOFF (AC-FT)	37250	8880	22550
10 PERCENT EXCEEDS	104	21	59
50 PERCENT EXCEEDS	10	11	7.9
90 PERCENT EXCEEDS	3.8	3.7	1.2

a From rating curve extended above 1,900 ft³/s on basis of slope-conveyance study.
b Site and datum then in use.

PLATTE RIVER BASIN
06653500 HORSESHOE CREEK NEAR GLENDO, WY

LOCATION.--Lat 42°27'09", long 104°58'11", in SE¼ NE¼ SE¼ sec.26, T.29 N., R.68 W., Platte County, Hydrologic Unit 10180008, on left bank 0.6 mi upstream from mouth and 4.8 mi southeast of Glendo.

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--April 1916 to September 1918, April 1921 to September 1924, May 1928 to November 1932, April to September 1933, April 1935 to September 1970, and August 1988 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for April to September 1919, published in WSP 469 and 506, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1730: Drainage area. WDR WY-70-1: 1965 (M).

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above National Geodetic Vertical Datum of 1929, 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: Nov. 30, Dec. 1, and Jan. 8, 14-16, 18, 19, 21. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	8.2	12	12	11	11	9.5	3.7	7.2	6.4	10	5.8
2	6.6	8.2	13	12	11	11	9.3	3.9	7.3	7.5	10	5.8
3	6.6	7.9	13	12	11	11	6.3	4.1	7.0	7.0	11	5.6
4	7.3	8.1	13	12	11	12	6.1	4.2	7.3	6.9	10	5.3
5	7.7	8.2	13	11	11	13	6.5	4.2	7.4	6.9	9.4	5.1
6	7.0	8.3	13	11	10	13	6.1	4.5	7.8	6.8	9.6	5.0
7	7.3	8.2	13	11	10	13	3.6	4.5	6.1	6.4	9.5	5.0
8	7.4	8.4	13	12	10	16	2.7	4.5	5.3	6.4	9.1	4.6
9	7.5	8.6	13	12	9.9	16	2.5	4.6	5.4	6.4	8.5	4.5
10	7.6	8.6	13	13	9.8	16	1.3	4.7	4.8	5.6	8.0	4.5
11	7.9	8.7	13	13	10	16	1.3	4.4	6.1	5.5	7.4	4.3
12	7.8	8.7	13	12	11	16	1.2	4.4	6.4	5.8	6.8	4.0
13	7.5	10	13	12	11	16	1.3	4.9	6.6	6.0	6.5	3.9
14	7.5	12	13	11	10	16	1.4	4.8	8.1	6.3	6.1	3.8
15	7.5	12	13	11	10	17	1.4	4.5	29	6.9	5.8	3.6
16	7.9	12	13	12	11	19	1.7	3.7	13	6.9	5.8	3.6
17	7.6	12	13	13	11	19	2.8	3.8	10	7.3	5.7	3.6
18	7.6	12	13	12	11	18	3.0	3.4	8.5	8.8	5.5	3.4
19	7.5	13	13	12	11	18	3.3	3.0	6.2	9.0	5.3	3.5
20	7.6	13	13	12	10	16	3.3	2.9	4.6	8.8	4.9	3.4
21	7.6	13	13	12	9.9	14	3.3	3.2	5.2	9.8	5.0	3.3
22	7.9	13	13	12	9.7	14	3.5	3.2	5.6	11	5.0	3.4
23	7.2	13	13	12	10	13	3.5	3.0	5.6	11	5.3	3.3
24	7.1	13	13	12	10	12	3.4	3.0	6.9	11	5.6	3.2
25	7.1	13	13	11	10	11	3.5	3.1	26	11	5.8	3.0
26	7.3	13	13	11	10	10	3.5	3.4	11	13	5.7	3.2
27	7.4	13	13	11	10	9.9	3.5	4.5	8.9	12	5.4	3.1
28	7.6	13	13	11	10	9.3	3.6	5.8	8.3	11	5.3	2.9
29	7.7	14	13	11	10	8.8	3.5	5.6	7.9	11	5.2	3.0
30	8.1	13	12	11	---	9.0	3.5	3.1	7.4	11	5.6	3.0
31	8.0	---	12	11	---	9.3	---	4.0	---	10	5.9	---
TOTAL	231.0	327.1	400	363	300.3	423.3	109.4	124.6	256.9	259.4	214.7	119.7
MEAN	7.45	10.9	12.9	11.7	10.4	13.7	3.65	4.02	8.56	8.37	6.93	3.99
MAX	8.1	14	13	13	11	19	9.5	5.8	29	13	11	5.8
MIN	6.6	7.9	12	11	9.7	8.8	1.2	2.9	4.6	5.5	4.9	2.9
AC-FT	458	649	793	720	596	840	217	247	510	515	426	237

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1992, BY WATER YEAR (WY)

	MEAN	5.66	6.41	6.13	5.64	6.02	9.11	54.7	127	87.6	16.7	5.32	4.59
MAX	29.7	20.5	17.0	16.3	15.0	25.0	185	455	405	104	23.3	16.6	
(WY)	1966	1966	1966	1966	1923	1923	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	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1916 - 1992
ANNUAL TOTAL	19307.09	3129.4	--
ANNUAL MEAN	52.9	8.55	28.0
HIGHEST ANNUAL MEAN	--	--	84.2
LOWEST ANNUAL MEAN	--	--	2.11
HIGHEST DAILY MEAN	1320	Jun 3	3000
LOWEST DAILY MEAN	.73	Jan 10	1.2
ANNUAL SEVEN-DAY MINIMUM	.86	Jan 7	1.4
INSTANTANEOUS PEAK FLOW	--	73	Jun 25
INSTANTANEOUS PEAK STAGE	--	3.60	Jun 25
ANNUAL RUNOFF (AC-FT)	38300	6210	20270
10 PERCENT EXCEEDS	128	13	72
50 PERCENT EXCEEDS	7.7	8.1	5.6
90 PERCENT EXCEEDS	2.1	3.4	1.8

a From rating curve extended above 750 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks, present site and datum.

PLATTE RIVER BASIN

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06655500 GUERNSEY RESERVOIR NEAR GUERNSEY, WY

LOCATION.--Lat 42°17'23", long 104°45'48", in NE¼ NW¼ sec.27, T.27 N., R.66 W., Platte County, Hydrologic Unit 10180008, on gate structure at right end of dam on North Platte River and 1.2 mi northwest of Guernsey.

DRAINAGE AREA.--16,224 mi², of which 1,216 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

REVISED RECORDS.--WDR WY-76-1: Drainage area. WDR WY-82-1: 1981 (capacity).

GAGE.--Water-stage recorder. Datum of gage is 4,370.00 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation); gage readings have been reduced to elevations of National Geodetic Vertical Datum of 1929. 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, 36,000 acre-ft, June 1, elevation, 4,415.76 ft; minimum daily contents, 997 acre-ft, Sept. 23, elevation, 4,384.03 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5030	4650	6640	8690	10300	11800	13700	28000	36000	33000	33500	38300
2	3410	4670	6720	8740	10400	11800	13700	30000	35900	33300	32700	35600
3	2510	4720	6780	8800	10400	11800	13800	32000	35900	33300	32600	32600
4	2620	4790	6860	8870	10500	12000	13800	33900	35900	33300	34800	27800
5	2750	4870	7000	8920	10500	12000	13900	34500	35900	33300	36900	22600
6	2870	4960	7060	8990	10600	12100	14000	35200	35900	33100	38700	19700
7	2960	5030	7160	9040	10600	12100	14800	35300	35900	32200	39200	17000
8	3050	5090	7230	9060	10700	12300	16200	35400	35900	32500	38000	14400
9	3140	5170	7300	9110	10700	12400	17700	35500	35900	18400	36800	12400
10	3230	5230	7340	9180	10800	12400	19600	35500	35900	10700	35600	11400
11	3330	5290	7420	9240	10800	12500	21400	35600	35800	2680	35100	11000
12	3420	5360	7490	9290	10900	12600	22800	35200	35800	1940	35300	11200
13	3490	5420	7550	9340	10900	12600	23600	34400	35700	2140	35400	12000
14	3570	5480	7590	9390	11000	12700	24100	33500	35700	1950	35700	11300
15	3650	5550	7670	9440	11000	12700	24200	32400	35800	1720	36400	10700
16	3710	5620	7730	9480	11100	12800	24300	31100	35900	1600	37100	9870
17	3770	5690	7790	9540	11100	12800	24400	29800	35900	1510	37900	8960
18	3820	5770	7850	9590	11200	12900	24500	28700	35800	1460	38600	7310
19	3890	5810	7930	9640	11200	13000	24600	27600	35800	1440	39100	5240
20	3970	5900	7980	9700	11200	13100	24700	27500	35700	1510	39300	4170
21	4030	5930	8050	9750	11300	13100	24700	29000	34900	1690	39700	2670
22	4070	6040	8110	9790	11300	13200	24800	30900	33500	1560	40300	1340
23	4150	6070	8170	9850	11400	13200	25000	32800	33100	1760	40900	997
24	4200	6140	8230	9900	11500	13300	25000	33900	32900	1430	41400	1350
25	4260	6220	8290	9950	11500	13300	25100	34500	32900	2050	41700	1890
26	4300	6280	8350	10000	11600	13300	25300	34900	33100	9880	41900	2230
27	4430	6370	8420	10100	11700	13300	25400	35400	33100	16400	41400	2290
28	4440	6460	8460	10100	11700	13400	25600	35800	32600	22100	40800	2360
29	4470	6570	8510	10200	11700	13400	25800	35900	32500	27700	40200	2470
30	4530	6570	8570	10200	---	13500	26600	35900	32600	33600	39600	2580
31	4590	---	8640	10300	---	13500	---	35900	---	34200	39200	---
MAX	5030	6570	8640	10300	11700	13500	26600	35900	36000	34200	41900	38300
MIN	2510	4650	6640	8690	10300	11800	13700	27500	32500	1430	32600	997
(#)	4,393.80	4,396.64	4,398.97	4,400.55	4,401.82	4,403.24	4,411.18	4,415.75	4,414.18	4,414.94	4,417.23	4,389.64
(*)	-2,230	+1,980	+2,070	+1,660	+1,400	+1,800	+13,100	+9,300	-3,300	+1,600	+5,000	-36,620

CAL YR 1991 MAX 44100 MIN 1190 (*) +1,960

WTR YR 1992 MAX 41900 MIN 997 (*) -4,240

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN
06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WY

LOCATION.--Lat 42°16'50", long 104°45'15", in SE¼ SE¼ sec.27, T.27 N., R.66 W., Platte County, Hydrologic Unit 10180008, on right bank 1.0 mi northwest of Guernsey and 1.1 mi downstream from Guernsey Dam.

DRAINAGE AREA.--16,237 mi², of which 1,216 mi² is probably non-contributing.

PERIOD OF RECORD.--June 1900 to current year (no winter records prior to 1903). Monthly discharge only for some periods, published in WSP 1310. Published as "near Guernsey" 1900-1901, 1904; as "at Guernsey" 1902-3, 1905-8, March to October 1912; as "at Whalen" 1909; as North Platte River and Interstate Canal at Whalen 1910-11, 1913-16; and as "above Whalen" 1917-27.

REVISED RECORDS.--WSP 1310: 1903-4, 1924. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,340 ft above National Geodetic Vertical Datum of 1929, 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: Oct. 29-31 and Nov. 30 to Dec. 2. Records excellent for flows above 1,000 ft³/s and fair below, except those for estimated daily discharges, which are poor. Flow completely regulated by Guernsey Reservoir since 1927. (See sta 06655500.) Small diversions for irrigation between this station and diversion dam at Whalen. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Nine discharge measurements provided by the Bureau of Reclamation and six discharge measurements provided by the Wyoming State Engineer's Office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	985	4.0	1.3	1.8	1.3	2.3	11	256	55	3730	4770	4200
2	893	3.9	1.4	1.7	1.3	2.1	9.2	25	50	3580	4830	4130
3	530	3.8	1.5	1.7	1.4	2.0	7.1	11	38	3620	4880	4100
4	35	3.9	1.5	1.6	1.3	2.1	6.1	9.9	38	3800	4850	4050
5	6.3	3.9	1.5	1.7	1.3	2.4	4.9	10	38	3840	4830	3960
6	5.9	4.0	1.6	1.7	1.3	2.2	4.4	10	38	4200	4850	3860
7	6.0	3.2	1.7	1.7	1.2	2.3	3.7	11	38	4720	4890	3760
8	5.5	3.1	1.7	1.7	1.2	2.4	3.7	11	39	4690	4880	3710
9	5.5	3.1	1.7	1.7	1.3	2.8	4.2	12	39	4700	4920	3360
10	5.5	3.1	1.9	1.7	1.3	2.6	5.9	13	39	4980	4940	2820
11	5.0	3.1	1.7	1.7	1.4	2.4	6.0	13	40	4860	4940	2620
12	4.9	3.1	1.7	1.6	1.4	2.1	324	246	41	4800	4900	2320
13	4.3	2.9	1.6	1.5	1.3	2.2	599	494	40	4850	4870	1990
14	4.3	2.7	1.5	1.5	1.3	2.1	735	480	40	4720	4840	1970
15	4.4	3.0	1.5	1.5	1.2	2.3	930	570	43	4730	4780	1880
16	5.1	3.1	1.5	1.5	1.1	2.4	976	644	51	4720	4830	1790
17	6.0	3.0	1.5	1.5	1.0	2.4	974	681	64	4640	4780	1720
18	5.3	2.7	1.6	1.5	1.0	2.3	978	693	64	4630	4730	1480
19	5.1	2.4	1.7	1.5	1.2	2.2	955	669	64	4620	4650	1310
20	5.1	2.4	1.7	1.5	1.2	2.3	936	856	64	4580	4590	1270
21	5.4	2.1	1.7	1.3	1.3	2.3	924	1020	460	4320	4620	1430
22	5.5	1.7	1.7	1.4	1.4	2.2	938	396	808	4090	4630	1360
23	5.2	1.4	1.7	1.5	1.7	2.1	922	164	902	3880	4650	1080
24	4.9	1.6	1.7	1.6	1.6	13	938	146	978	3770	4580	366
25	4.9	1.7	1.9	1.4	1.3	13	936	147	1130	3800	4430	83
26	4.7	1.8	1.9	1.5	1.3	15	933	150	1180	4160	4270	85
27	3.9	1.7	1.9	1.5	1.4	11	924	91	1410	4310	4150	84
28	2.5	1.7	1.9	1.5	1.9	8.2	944	59	2600	4620	4160	53
29	4.4	1.6	1.9	1.4	2.2	5.8	927	57	3090	4700	4160	11
30	4.2	1.5	1.9	1.3	---	5.0	567	57	3450	4690	4190	12
31	4.1	---	1.9	1.3	---	4.4	---	55	---	4680	4220	---
TOTAL	2576.9	81.2	51.9	48.0	39.1	127.9	16426.2	8056.9	16931	136030	144610	60864
MEAN	83.1	2.71	1.67	1.55	1.35	4.13	548	260	564	4388	4665	2029
MAX	985	4.0	1.9	1.8	2.2	15	978	1020	3450	4980	4940	4200
MIN	2.5	1.4	1.3	1.3	1.0	2.0	3.7	9.9	38	3580	4150	11
AC-FT	5110	161	103	95	78	254	32580	15980	33580	269800	286800	120700

PLATTE RIVER BASIN
06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 1992, BY WATER YEAR (WY)

MEAN	563	257	185	171	213	470	1173	2968	4274	4750	4190	2656
MAX	5690	2610	1000	800	900	3837	5680	8585	15380	9896	9035	6518
(WY)	1913	1913	1907	1907	1907	1974	1924	1901	1917	1917	1983	1983
MIN	2.42	1.40	1.35	1.38	1.27	1.24	11.5	7.15	413	1304	400	196
(WY)	1990	1976	1963	1990	1991	1991	1957	1990	1982	1902	1902	1902

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1901 - 1992	
ANNUAL TOTAL	461502.48		385843.1		--	
ANNUAL MEAN	1264		1054		1834	
HIGHEST ANNUAL MEAN	--		--		3556	
LOWEST ANNUAL MEAN	--		--		832	
HIGHEST DAILY MEAN	5320	Jul 8	4980	Jul 10	30000	Jun 3 1908
LOWEST DAILY MEAN	.98	Mar 27	1.0	Feb 17, 18	.00	Feb 28 1927,
						Nov 19 to Dec 8,
						Dec 10-12,
						14, 15, 1951
ANNUAL SEVEN-DAY MINIMUM	1.2	Mar 21	1.1	Feb 14	.00	Nov 19 1951
INSTANTANEOUS PEAK FLOW	--		5260	Jul 10	30000a	Jun 2 1908
INSTANTANEOUS PEAK STAGE	--		6.14	Jul 10	11.50b	Jun 2 1908
ANNUAL RUNOFF (AC-FT)	915400		765300		1328000	
10 PERCENT EXCEEDS	4640		4620		4970	
50 PERCENT EXCEEDS	5.5		7.7		765	
90 PERCENT EXCEEDS	1.2		1.5		5.0	

a From rating curve extended above 13,000 ft³/s.
b From floodmark, site and datum then in use.

PLATTE RIVER BASIN
06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY

LOCATION.--Lat 42°14'20", long 104°36'29", in NE¼ SW¼ sec.12, T.26 N., R.65 W., Goshen County, Hydrologic Unit 10180009, on left bank 0.2 mi downstream from Cottonwood Draw, 2.5 mi downstream from Whalen diversion dam, and 4.8 mi northwest of Fort Laramie.

DRAINAGE AREA.--16,425 mi², of which 1,219 mi² is probably non-contributing.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only, prior to January 1915, published in WSP 1910. Prior to Apr. 16, 1938, published as "below Whalen", and Apr. 16, 1938, to Sept. 30, 1974, as "at recorder station, below Whalen".

REVISED RECORDS.--WSP 1310: 1924. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 16, 1938, nonrecording gages at Whalen diversion dam and canals 2.5 mi upstream at different datums. Apr. 16, 1938, to Nov. 17, 1955, water-stage recorder at site 200 ft downstream, and Nov. 18, 1955, to Feb. 16, 1972, at present site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 4, Nov. 30 to Dec. 6, and Dec. 23-30. Records good except those for October to April and August to September, which are fair and those for estimated daily discharges, which are poor. Flow regulated by Whalen diversion dam 2.5 mi upstream. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Bureau of Reclamation satellite telemeter at station.

COOPERATION.--Four discharge measurements provided by the Bureau of Reclamation and fifteen discharge measurements provided by the Wyoming State Engineer's Office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	7.1	1.2	1.5	.38	.22	3.8	13	58	1300	1570	988
2	85	7.4	1.4	1.4	.36	.21	3.2	107	52	981	1600	909
3	135	8.0	1.6	1.3	.32	.17	3.4	73	46	866	1630	855
4	303	8.7	1.8	1.3	.32	.21	3.4	55	38	833	1640	873
5	104	9.7	2.1	1.1	.31	.26	2.8	45	36	787	1600	853
6	74	9.7	2.4	1.0	.28	.25	2.6	35	35	948	1570	878
7	59	9.4	2.8	.94	.28	.29	2.5	31	32	1410	1630	755
8	52	8.8	2.2	.74	.28	.37	2.1	25	31	1460	1640	667
9	47	7.9	1.8	1.2	.26	.93	1.8	23	30	1450	1630	549
10	42	7.1	1.7	1.3	.24	1.2	1.5	21	29	1590	1590	378
11	38	6.6	1.7	1.2	.26	.94	1.2	19	28	1630	1580	364
12	34	5.8	1.6	.96	.28	.82	3.8	69	26	1590	1550	354
13	29	5.3	1.8	.77	.25	.72	62	428	29	1580	1540	398
14	26	5.3	1.7	.75	.24	.67	28	453	27	1560	1520	378
15	24	6.4	1.8	.71	.24	.67	23	531	30	1580	1480	336
16	22	6.7	2.0	.95	.25	.62	20	638	40	1580	1530	258
17	21	7.2	1.8	1.2	.23	.56	19	660	51	1520	1500	269
18	20	7.1	1.6	1.0	.22	.65	19	719	45	1540	1450	301
19	17	7.4	1.5	.98	.21	.67	17	686	41	1540	1390	313
20	16	7.1	1.5	.98	.20	.80	17	730	46	1520	1320	330
21	16	6.9	1.6	.93	.21	.95	16	1060	66	1410	1330	445
22	14	5.3	1.8	.84	.20	.91	16	652	94	1320	1360	524
23	13	4.6	1.7	.81	.21	.85	16	230	184	1240	1400	687
24	14	4.5	1.6	1.0	.18	.85	15	198	171	1140	1350	701
25	13	4.4	1.6	.91	.20	.74	16	187	197	1150	1260	175
26	12	3.7	1.5	.75	.20	1.5	17	180	190	1340	1180	141
27	12	2.7	1.4	.57	.20	2.8	16	154	202	1390	1050	132
28	10	2.5	1.4	.48	.20	4.1	15	79	668	1480	1070	124
29	8.6	2.4	1.4	.45	.21	4.4	16	66	934	1530	1080	82
30	8.1	1.8	1.5	.43	---	4.5	15	62	1110	1570	1050	66
31	7.4	---	1.5	.39	---	4.4	---	59	---	1550	1050	---
TOTAL	1359.1	187.5	53.0	28.84	7.22	37.23	395.1	8288	4566	42385	44140	14083
MEAN	43.8	6.25	1.71	.93	.25	1.20	13.2	267	152	1367	1424	469
MAX	303	9.7	2.8	1.5	.38	4.5	62	1060	1110	1630	1640	988
MIN	7.4	1.8	1.2	.39	.18	.17	1.2	13	26	787	1050	66
AC-FT	2700	372	105	57	14	74	784	16440	9060	84070	87550	27930

PLATTE RIVER BASIN
06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1992, BY WATER YEAR (WY)*

MEAN	202	104	67.2	59.6	87.5	264	472	1271	2001	1873	1416	709
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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1917 - 1992*			
ANNUAL TOTAL	126157.81				115529.99				--			
ANNUAL MEAN	346				316				714			
HIGHEST ANNUAL MEAN	--				--				2992			1917
LOWEST ANNUAL MEAN	--				--				178			1954
HIGHEST DAILY MEAN	3070		Jun 10		1640		Aug 4		19500		Jun 28	1917
LOWEST DAILY MEAN	.00		Mar 9		.17		Mar 3		.00		Many days,	
											several years#	
ANNUAL SEVEN-DAY MINIMUM	.00		Mar 9		.20		Feb 22		.00		Jan 8	1962
INSTANTANEOUS PEAK FLOW	--				2190		Jul 1		22000a		Jun 26	1955#
INSTANTANEOUS PEAK STAGE	--				4.19		Jul 1		9.85		Jun 26	1955#
ANNUAL RUNOFF (AC-FT)	250200				229200				517200			
10 PERCENT EXCEEDS	1370				1410				1880			
50 PERCENT EXCEEDS	14				16				150			
90 PERCENT EXCEEDS	.06				.38				3.6			

* Period prior to 1917 water year not used in computations, monthly and seasonal records only.

For period of record, through 1992.

a From rating curve extended above 4,500 ft³/s on basis of studies of peak-flow measurements of upstream floods.

PLATTE RIVER BASIN
06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY

LOCATION.--River: Lat 41°08'17", long 105°58'49", in NW¼ SE¼ sec.36, T.14 N., R.77 W., Albany County, Hydrologic Unit 10180010, on left bank 100 ft upstream from diversion dam for Pioneer Canal, 2.2 mi downstream from Fox Creek, 2.5 mi northeast of Woods, and 23 mi southwest of Laramie.

Canal: Lat 41°08'21", long 105°58'45", in SE¼ NE¼ sec.36, T.14 N., R.77 W., Albany County, on left bank 400 ft downstream from headgate.

DRAINAGE AREA.--434 mi².

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year (no winter records since 1972). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area. WDR WY-84-1: 1983.

GAGE.--River: Water-stage recorder and concrete control. Datum of gage is 7,388.99 ft above National Geodetic Vertical Datum of 1929. 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 National Geodetic Vertical Datum of 1929, from topographic map. Apr. 16, 1912, to Apr. 10, 1923, nonrecording gage; Apr. 11, 1923, to Sept. 30, 1924, and Apr. 19 to June 9, 1927, water-stage recorder; June 10 to Sept. 30, 1927, and Apr. 11, 1932, to May 8, 1938, nonrecording gage; May 9, 1938, to Apr. 26, 1966, water-stage recorder at site 1.5 mi downstream at different datums. Apr. 27, 1966, to May 8, 1967, at present site, at datum 0.06 ft lower.

REMARKS.--Estimated daily discharges: Apr. 1, and May 8. Records good. Pioneer Canal diverts from left bank of river at diversion dam 100 ft downstream for irrigation in vicinity of Laramie. Records show combined flow of river and canal. Three small reservoirs upstream from station in Wyoming, total capacity, about 600 acre-ft for irrigation, stock water, and domestic use. Diversions for irrigation of about 5,200 acres upstream from station. Transbasin diversions upstream from station to Cache la Poudre River and tributaries.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	67	288	633	195	123	65
2	---	---	---	---	---	---	64	354	615	184	118	67
3	---	---	---	---	---	---	70	312	494	194	116	70
4	---	---	---	---	---	---	82	301	451	159	118	63
5	---	---	---	---	---	---	99	286	446	122	119	60
6	---	---	---	---	---	---	105	287	488	104	109	60
7	---	---	---	---	---	---	100	309	403	93	110	60
8	---	---	---	---	---	---	89	314	445	112	110	56
9	---	---	---	---	---	---	99	324	405	110	102	50
10	---	---	---	---	---	---	114	358	361	95	100	48
11	---	---	---	---	---	---	126	295	370	86	102	48
12	---	---	---	---	---	---	125	296	414	85	100	46
13	---	---	---	---	---	---	145	323	369	136	95	46
14	---	---	---	---	---	---	160	348	339	135	91	44
15	---	---	---	---	---	---	180	331	311	98	85	46
16	---	---	---	---	---	---	182	309	285	112	84	45
17	---	---	---	---	---	---	172	302	335	193	92	46
18	---	---	---	---	---	---	176	299	314	180	162	48
19	---	---	---	---	---	---	159	303	242	120	109	56
20	---	---	---	---	---	---	127	308	227	163	92	53
21	---	---	---	---	---	---	111	398	224	180	83	54
22	---	---	---	---	---	---	111	658	213	166	79	50
23	---	---	---	---	---	---	121	431	200	161	78	44
24	---	---	---	---	---	---	117	367	202	181	84	44
25	---	---	---	---	---	---	105	425	233	175	90	42
26	---	---	---	---	---	---	105	401	254	190	85	44
27	---	---	---	---	---	---	116	611	262	206	84	47
28	---	---	---	---	---	---	141	809	258	150	75	48
29	---	---	---	---	---	---	180	558	254	141	64	48
30	---	---	---	---	---	---	230	440	236	134	60	43
31	---	---	---	---	---	---	---	475	---	122	62	---
TOTAL	---	---	---	---	---	---	3778	11820	10283	4482	2981	1541
MEAN	---	---	---	---	---	---	126	381	343	145	96.2	51.4
MAX	---	---	---	---	---	---	230	809	633	206	162	70
MIN	---	---	---	---	---	---	64	286	200	85	60	42
AC-FT	---	---	---	---	---	---	7490	23440	20400	8890	5910	3060

PLATTE RIVER BASIN
06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1971, BY WATER YEAR (WY)

MEAN	63.2	52.1	42.1	38.5	40.1	49.9	129	557	769	182	79.8	53.6
MAX	160	94.9	77.4	57.1	74.5	84.9	355	1057	2052	726	127	128
(WY)	1962	1962	1966	1966	1962	1966	1962	1962	1957	1957	1955	1961
MIN	33.7	32.0	28.3	24.3	24.6	27.7	67.0	233	62.9	20.2	24.8	15.1
(WY)	1953	1934	1961	1961	1955	1964	1955	1953	1934	1934	1954	1934

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1912 - 1971
ANNUAL TOTAL	55861	
ANNUAL MEAN	153	171
HIGHEST ANNUAL MEAN	--	319
LOWEST ANNUAL MEAN	--	64.9
HIGHEST DAILY MEAN	809 May 28	3320 Jun 14 1957
LOWEST DAILY MEAN	42 Sep 25	.00 May 1 1912
ANNUAL SEVEN-DAY MINIMUM	45 Sep 24	6.0 Oct 15 1913
INSTANTANEOUS PEAK FLOW	906 May 28	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 1992.

PLATTE RIVER BASIN
06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE

LOCATION.--Lat 40°59'37", long 105°45'35", in NW¼ NW¼ SW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 19, 1977, gage at site 700 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Apr. 24-26, June 10, and July 1-4. 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 rediverted through Wilson Supply ditch but is wasted down Sand Creek at times. Diversions for irrigation of about 170 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.4	23	38	7.0	2.0	1.3
2	---	---	---	---	---	---	3.4	27	34	6.5	1.7	1.4
3	---	---	---	---	---	---	4.2	26	31	5.0	1.7	1.6
4	---	---	---	---	---	---	6.6	25	30	4.0	1.9	1.4
5	---	---	---	---	---	---	8.0	29	30	3.6	1.6	1.3
6	---	---	---	---	---	---	8.9	29	33	3.9	1.6	1.2
7	---	---	---	---	---	---	9.7	33	28	4.1	1.6	1.1
8	---	---	---	---	---	---	10	26	34	3.2	1.6	1.1
9	---	---	---	---	---	---	12	28	32	4.1	2.0	1.1
10	---	---	---	---	---	---	14	34	28	4.1	2.3	.95
11	---	---	---	---	---	---	16	29	29	3.9	2.7	.85
12	---	---	---	---	---	---	16	48	26	2.9	2.2	.85
13	---	---	---	---	---	---	17	30	21	2.3	2.0	.75
14	---	---	---	---	---	---	16	34	18	3.9	1.6	.75
15	---	---	---	---	---	---	16	31	15	4.1	1.4	.75
16	---	---	---	---	---	---	18	30	14	4.5	1.4	.85
17	---	---	---	---	---	---	16	37	14	8.6	2.0	.95
18	---	---	---	---	---	---	17	36	18	9.6	2.7	.95
19	---	---	---	---	---	---	17	31	15	7.4	3.4	.95
20	---	---	---	---	---	---	15	34	13	11	2.5	1.2
21	---	---	---	---	---	---	14	53	11	9.6	2.0	1.4
22	---	---	---	---	---	---	13	58	8.3	7.1	1.7	1.6
23	---	---	---	---	---	---	13	23	7.7	5.8	1.7	1.4
24	---	---	---	---	---	---	13	29	8.0	4.8	1.9	1.4
25	---	---	---	---	---	---	12	33	12	4.1	2.0	1.4
26	---	---	---	---	---	---	12	30	17	4.1	2.0	1.4
27	---	---	---	---	---	---	13	47	13	3.9	1.7	1.6
28	---	---	---	---	---	---	14	59	11	3.9	1.4	1.7
29	---	---	---	---	---	---	19	42	11	2.9	1.3	1.7
30	---	---	---	---	---	---	22	25	9.6	2.2	1.2	1.7
31	---	---	---	---	---	---	---	31	---	2.2	1.2	---
TOTAL	---	---	---	---	---	---	389.2	1050	609.6	154.3	58.0	36.60
MEAN	---	---	---	---	---	---	13.0	33.9	20.3	4.98	1.87	1.22
MAX	---	---	---	---	---	---	22	59	38	11	3.4	1.7
MIN	---	---	---	---	---	---	3.4	23	7.7	2.2	1.2	.75
AC-FT	---	---	---	---	---	---	772	2080	1210	306	115	73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1971, BY WATER YEAR (WY)

	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971
MEAN	3.14	3.34	2.66	2.27	2.46	2.73	9.09	41.6	74.4	7.16	2.30	2.12
MAX	3.68	4.41	2.97	2.53	3.19	2.85	11.6	54.2	116	9.65	3.02	3.22
(WY)	1971	1971	1971	1971	1971	1971	1971	1971	1971	1970	1970	1971
MIN	2.75	2.47	2.39	1.83	1.84	2.65	4.90	29.3	17.8	2.28	1.02	.57
(WY)	1970	1969	1970	1970	1969	1969	1970	1969	1969	1969	1969	1969

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1969 - 1971
ANNUAL MEAN	---	12.7
HIGHEST ANNUAL MEAN	---	18.0
LOWEST ANNUAL MEAN	---	6.41
HIGHEST DAILY MEAN	59 May 28	193 Jun 15 1970
LOWEST DAILY MEAN	.75 Sep 13-15	.13 Jul 26-28 1972#
ANNUAL SEVEN-DAY MINIMUM	---	.30 Sep 4 1969
INSTANTANEOUS PEAK FLOW	100 May 22	6710a Jul 19 1977#
INSTANTANEOUS PEAK STAGE	1.56 May 22	6.65b Jul 19 1977#
ANNUAL RUNOFF (AC-FT)	---	9240
10 PERCENT EXCEEDS	---	33
50 PERCENT EXCEEDS	---	3.0
90 PERCENT EXCEEDS	---	1.5

* During period of operation.

For period of record through 1992.

a From slope-area measurement of peak flow.

b From floodmarks.

06660500 LARAMIE RIVER AT TWO RIVERS, WY

LOCATION.--Lat 41°28'22", long 105°43'30", in NW¼ NE¼ SW¼ sec.5, T.17 N., R.74 W., Albany County, Hydrologic Unit 10180010, at former gaging station, at old Two Rivers Post Office, 0.6 mi upstream from Little Laramie River, and 14 mi northwest of Laramie.

DRAINAGE AREA.--1,224 mi², of which 188 mi² is probably noncontributing.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUL 29...	1100	E90	24.5	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01

E-Estimate.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	25	73	195	79	24	18
2	---	---	---	---	---	---	25	99	162	88	22	19
3	---	---	---	---	---	---	26	95	152	101	23	18
4	---	---	---	---	---	---	28	107	164	75	30	17
5	---	---	---	---	---	---	29	113	167	62	27	16
6	---	---	---	---	---	---	28	125	157	52	25	14
7	---	---	---	---	---	---	25	152	145	57	25	15
8	---	---	---	---	---	---	24	160	145	69	24	17
9	---	---	---	---	---	---	23	167	145	64	21	16
10	---	---	---	---	---	---	24	190	150	62	22	15
11	---	---	---	---	---	---	27	157	141	55	25	15
12	---	---	---	---	---	---	28	167	157	66	24	15
13	---	---	---	---	---	---	28	187	136	81	21	14
14	---	---	---	---	---	---	28	212	123	62	19	13
15	---	---	---	---	---	---	36	226	119	51	18	14
16	---	---	---	---	---	---	47	220	109	49	19	14
17	---	---	---	---	---	---	44	214	138	54	30	15
18	---	---	---	---	---	---	48	223	162	49	28	18
19	---	---	---	---	---	---	45	235	138	45	24	17
20	---	---	---	---	---	---	36	229	125	59	21	16
21	---	---	---	---	---	---	30	395	123	64	21	15
22	---	---	---	---	---	---	29	419	111	51	19	15
23	---	---	---	---	---	---	31	274	109	42	20	14
24	---	---	---	---	---	---	28	259	111	39	22	14
25	---	---	---	---	---	---	26	244	169	36	24	16
26	---	---	---	---	---	---	27	226	209	42	24	18
27	---	---	---	---	---	---	29	321	143	35	21	18
28	---	---	---	---	---	---	35	262	113	31	17	18
29	---	---	---	---	---	---	41	190	101	29	15	18
30	---	---	---	---	---	---	57	177	84	27	15	18
31	---	---	---	---	---	---	---	179	---	26	15	---
TOTAL	---	---	---	---	---	---	957	6297	4203	1702	685	480
MEAN	---	---	---	---	---	---	31.9	203	140	54.9	22.1	16.0
MAX	---	---	---	---	---	---	57	419	209	101	30	19
MIN	---	---	---	---	---	---	23	73	84	26	15	13
AC-FT	---	---	---	---	---	---	1900	12490	8340	3380	1360	952

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1971, BY WATER YEAR (WY)

	1961, 1962			1963, 1964			1965, 1966			1967, 1968			1969, 1970		
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			

SUMMARY STATISTICS

DESCRIPTION	FOR 1962 WATER YEAR	WATER YEAR 1962	1961
ANNUAL MEAN	--	103	
HIGHEST ANNUAL MEAN	--	184	1917
LOWEST ANNUAL MEAN	--	32.7	1934
HIGHEST DAILY MEAN	419 May 22	2400	Jun 1 1914
LOWEST DAILY MEAN	13 Sep 14	1.0	Sep 17-20 1913#
ANNUAL SEVEN-DAY MINIMUM	--	1.7	Sep 15 1913
INSTANTANEOUS PEAK FLOW	557 May 22	3450	Jun 10 1965#
INSTANTANEOUS PEAK STAGE	2.98 May 22	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 1992.

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LOCATION.--Lat 41°28'07", long 105°43'56", in SE¼ SE¼ SE¼ sec.6, T.17 N., R.74 W., Albany County, Hydrologic Unit 10180010, at former gaging station, at old Two Rivers Post Office, 0.5 mi upstream from mouth, and 14 mi northwest of Laramie.

PERIOD OF RECORD.--Water years 1965 to 1987, June 1990 to current year.

[illegible]

PLATTE RIVER BASIN
06661585 LARAMIE RIVER NEAR BOSLER, WY

LOCATION.--Lat 41°33'17", long 105°40'58", in NW¼ NW¼ NE¼ sec.10, T.18 N., R.74 W., Albany County, Hydrologic Unit 10180010, on left bank 50 ft upstream from bridge on U.S. Highways 30 and 287, 0.2 mi northwest of Bosler Junction, 1.7 mi south of Bosler, and 2.0 mi downstream from Soil Bank Boughton Canal diversion dam.

DRAINAGE AREA.--1,790 mi², of which 283 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,030 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 2-4 and Nov. 17 to Mar. 17. Records good except those for period 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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	11	31	23	43	72	81	8.7	314	287	86	21
2	18	9.0	32	24	45	77	81	8.7	311	270	77	24
3	19	7.4	34	25	43	82	79	7.9	283	229	67	21
4	21	7.7	39	25	41	83	76	6.6	304	161	67	19
5	21	7.9	43	25	41	83	74	6.6	290	120	67	19
6	24	13	46	25	40	84	65	7.2	232	93	55	18
7	25	21	48	26	42	85	58	8.7	202	77	53	18
8	25	27	45	24	43	86	53	22	170	70	51	18
9	24	51	43	22	44	82	49	32	180	61	49	16
10	25	74	41	24	46	77	45	57	200	49	45	16
11	27	86	40	23	48	74	44	83	190	47	43	16
12	27	79	39	22	50	78	49	91	186	49	40	16
13	27	74	38	21	51	84	41	101	176	59	38	15
14	25	70	36	21	52	89	41	93	171	57	33	14
15	22	57	38	21	53	94	44	85	164	59	36	13
16	20	33	37	22	52	100	51	88	129	63	41	11
17	17	45	35	21	52	108	67	94	104	76	40	11
18	17	56	36	21	52	123	74	77	93	81	38	12
19	17	45	35	21	52	123	70	58	77	76	40	13
20	18	34	32	21	53	111	61	41	59	91	37	15
21	19	32	29	21	57	109	51	43	61	138	38	13
22	19	28	28	21	59	104	49	98	61	141	51	12
23	24	31	26	22	62	98	45	163	55	135	50	12
24	24	33	26	22	62	98	40	120	43	135	45	13
25	24	37	26	23	61	96	37	93	59	129	41	16
26	24	40	27	24	61	91	35	77	132	117	40	15
27	21	45	27	26	63	96	33	88	303	123	35	8.3
28	8.7	42	27	28	65	93	25	195	423	111	27	5.0
29	12	36	26	32	67	88	16	209	389	106	24	4.2
30	13	31	25	35	---	86	12	188	321	109	21	3.9
31	13	---	24	39	---	86	---	270	---	101	20	---
TOTAL	639.7	1163.0	1059	750	1500	2840	1546	2520.4	5682	3420	1395	428.4
MEAN	20.6	38.8	34.2	24.2	51.7	91.6	51.5	81.3	189	110	45.0	14.3
MAX	27	86	48	39	67	123	81	270	423	287	86	24
MIN	8.7	7.4	24	21	40	72	12	6.6	43	47	20	3.9
AC-FT	1270	2310	2100	1490	2980	5630	3070	5000	11270	6780	2770	850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	MEAN	75.0	56.9	44.7	54.4	111	173	298	757	296	95.2	31.3
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	7.25	33.3	17.1	18.8	29.8	47.7	23.4	17.0	87.8	12.3	4.53	1.28
(WY)	1988	1990	1977	1991	1989	1981	1991	1990	1987	1989	1989	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1973 - 1992
ANNUAL TOTAL	34407.1	22943.5	
ANNUAL MEAN	94.3	62.7	171
HIGHEST ANNUAL MEAN			475
LOWEST ANNUAL MEAN			39.4
HIGHEST DAILY MEAN	1170	Jun 5	4390
LOWEST DAILY MEAN	6.6	May 14	.00
ANNUAL SEVEN-DAY MINIMUM	9.5	May 9	.03
INSTANTANEOUS PEAK FLOW			4480
INSTANTANEOUS PEAK STAGE			8.40a
ANNUAL RUNOFF (AC-FT)	68250	45510	123600
10 PERCENT EXCEEDS	160	123	390
50 PERCENT EXCEEDS	34	43	63
90 PERCENT EXCEEDS	15	16	16

a Backwater from ice.

PLATTE RIVER BASIN

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06661585 LARAMIE RIVER NEAR BOSLER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1990 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY							
19...	0915	65	540	19.0	<1	10	1.8
25...	1030	93	733	15.0	<1	7	1.8
JUN							
01...	1100	412	595	10.5	<1	50	56
SEP							
25...	1000	17	1080	5.5	<1	60	2.8

PLATTE RIVER BASIN
06662000 LARAMIE RIVER NEAR LOOKOUT, WY

LOCATION.--Lat 41°45'44", long 105°41'16", in NE¼ NW¼ SE¼ 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 is probably 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 National Geodetic Vertical Datum of 1929. 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 Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	76	8.8	244	270	114	28
2	---	---	---	---	---	---	71	7.4	277	259	102	22
3	---	---	---	---	---	---	73	4.2	255	244	94	21
4	---	---	---	---	---	---	71	3.2	246	199	88	21
5	---	---	---	---	---	---	66	2.6	255	157	105	19
6	---	---	---	---	---	---	64	2.4	225	124	108	18
7	---	---	---	---	---	---	57	7.9	179	99	83	19
8	---	---	---	---	---	---	53	6.8	154	78	73	17
9	---	---	---	---	---	---	51	10	133	71	71	16
10	---	---	---	---	---	---	45	22	147	59	71	17
11	---	---	---	---	---	---	45	43	150	47	66	17
12	---	---	---	---	---	---	45	66	147	45	64	17
13	---	---	---	---	---	---	41	78	144	45	64	14
14	---	---	---	---	---	---	39	86	137	49	62	13
15	---	---	---	---	---	---	41	80	140	53	59	12
16	---	---	---	---	---	---	45	66	133	59	59	11
17	---	---	---	---	---	---	51	69	117	59	64	11
18	---	---	---	---	---	---	62	73	105	76	64	10
19	---	---	---	---	---	---	64	62	97	105	57	10
20	---	---	---	---	---	---	64	43	83	114	55	10
21	---	---	---	---	---	---	55	49	71	124	53	10
22	---	---	---	---	---	---	49	51	64	157	55	11
23	---	---	---	---	---	---	43	97	64	161	64	9.6
24	---	---	---	---	---	---	41	137	66	161	64	9.6
25	---	---	---	---	---	---	37	97	71	157	53	9.6
26	---	---	---	---	---	---	35	73	83	150	41	8.8
27	---	---	---	---	---	---	31	80	161	140	37	11
28	---	---	---	---	---	---	30	86	300	137	31	8.8
29	---	---	---	---	---	---	26	178	331	130	28	4.2
30	---	---	---	---	---	---	16	171	312	127	25	3.2
31	---	---	---	---	---	---	---	178	---	127	26	---
TOTAL	---	---	---	---	---	---	1487	1938.3	4891	3783	2000	408.8
MEAN	---	---	---	---	---	---	49.6	62.5	163	122	64.5	13.6
MAX	---	---	---	---	---	---	76	178	331	270	114	28
MIN	---	---	---	---	---	---	16	2.4	64	45	25	3.2
AC-FT	---	---	---	---	---	---	2950	3840	9700	7500	3970	811

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1972, BY WATER YEAR (WY)*

	MEAN	MAX	(WY)	MIN	(WY)
1912	42.0	204	1966	.000	1935
1913	45.5	119	1966	.000	1935
1914	35.4	85.1	1947	.000	1935
1915	30.5	73.0	1971	.65	1955
1916	38.7	74.4	1954	.40	1955
1917	61.6	120	1939	9.34	1964
1918	99.9	544	1917	13.0	1940
1919	207	656	1917	10.3	1953
1920	643	1898	1917	8.99	1954
1921	200	1163	1917	.065	1954
1922	59.0	267	1945	.000	1954
1923	26.1	97.4	1938	.000	1934

SUMMARY STATISTICS

	FOR 1992 WATER YEAR**	WATER YEARS 1912 - 1972*
ANNUAL MEAN	---	122
HIGHEST ANNUAL MEAN	---	401
LOWEST ANNUAL MEAN	---	15.9
HIGHEST DAILY MEAN	331 Jun 29	3130 Jun 17 1957
LOWEST DAILY MEAN	2.4 May 6	.00 Jul 15 1934
ANNUAL SEVEN-DAY MINIMUM	---	.00 Jul 15 1934
INSTANTANEOUS PEAK FLOW	347 Jun 29	4380 Jun 29 1983#
INSTANTANEOUS PEAK STAGE	2.26 Jun 29	8.0a Jun 29 1973#
ANNUAL RUNOFF (AC-FT)	---	88600
10 PERCENT EXCEEDS	---	299
50 PERCENT EXCEEDS	---	47
90 PERCENT EXCEEDS	---	6.5

* January 1921 to December 1927 not used in computations.
** During period of operation.

For period of record through 1992.
a Backwater from ice.

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LOCATION.--Lat 42°02'40, long 105°08'57", in NE¼ NE¼ NW¼ sec20, T.24 N., R.69 W., Platte County, Hydrologic Unit 10180011, at bridge on Palmer Canyon Road, 0.7 mi downstream from Luman Creek, and 11 mi west of Wheatland.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

PLATTE RIVER BASIN
06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY

LOCATION.--Lat 41°50'39", long 105°13'15", in NE¼ SW¼ SE¼ sec.27, T.22 N., R.70 W., Platte County, Hydrologic Unit 10180011, on right bank just upstream from bridge on U.S. Highway 34, 900 ft upstream from Mule Creek, 2.9 mi upstream from Bluegrass Creek, and 20 mi southwest of Wheatland.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--April 1974 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,340 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Seven small diversions upstream from station, combined capacity, about 400 acre-ft, for irrigation. Diversions upstream from station for irrigation of about 2,020 acres, of which about 80 acres are downstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	11	9.0	11	8.1	5.1	3.7
2	---	---	---	---	---	---	11	10	12	17	6.3	2.7
3	---	---	---	---	---	---	11	9.8	12	14	7.6	2.7
4	---	---	---	---	---	---	11	11	12	13	6.3	2.7
5	---	---	---	---	---	---	11	9.5	12	12	5.1	2.7
6	---	---	---	---	---	---	12	15	11	10	4.7	2.6
7	---	---	---	---	---	---	12	19	11	9.0	4.3	2.7
8	---	---	---	---	---	---	12	19	10	9.0	4.3	2.4
9	---	---	---	---	---	---	12	18	11	8.6	4.0	2.4
10	---	---	---	---	---	---	12	17	9.0	6.7	4.0	2.4
11	---	---	---	---	---	---	10	16	7.6	6.7	3.3	2.4
12	---	---	---	---	---	---	11	16	8.6	6.7	4.0	2.4
13	---	---	---	---	---	---	11	16	8.6	7.2	4.3	2.4
14	---	---	---	---	---	---	11	16	9.5	6.3	3.7	2.7
15	---	---	---	---	---	---	9.3	14	9.0	5.9	3.7	2.4
16	---	---	---	---	---	---	9.0	12	8.6	6.7	3.7	2.4
17	---	---	---	---	---	---	10	5.1	9.0	6.3	3.7	2.2
18	---	---	---	---	---	---	14	3.7	12	5.9	3.7	2.4
19	---	---	---	---	---	---	13	3.7	12	5.9	3.7	2.4
20	---	---	---	---	---	---	14	3.7	12	6.7	3.7	2.4
21	---	---	---	---	---	---	14	13	11	7.6	3.7	2.4
22	---	---	---	---	---	---	14	16	11	7.2	3.2	2.4
23	---	---	---	---	---	---	13	7.2	9.0	6.7	3.0	2.4
24	---	---	---	---	---	---	14	5.9	9.0	6.7	3.3	2.4
25	---	---	---	---	---	---	13	6.7	9.5	6.3	4.0	2.7
26	---	---	---	---	---	---	13	6.3	8.1	8.6	4.0	2.7
27	---	---	---	---	---	---	12	6.7	8.1	8.1	3.7	2.7
28	---	---	---	---	---	---	11	7.6	7.8	6.7	3.7	3.3
29	---	---	---	---	---	---	11	9.0	7.6	6.7	3.3	3.0
30	---	---	---	---	---	---	9.5	9.5	6.7	5.5	3.3	3.3
31	---	---	---	---	---	---	---	11	---	5.1	3.7	---
TOTAL	---	---	---	---	---	---	351.8	342.4	295.7	246.9	128.1	78.4
MEAN	---	---	---	---	---	---	11.7	11.0	9.86	7.96	4.13	2.61
MAX	---	---	---	---	---	---	14	19	12	17	7.6	3.7
MIN	---	---	---	---	---	---	9.0	3.7	6.7	5.1	3.0	2.2
AC-FT	---	---	---	---	---	---	698	679	587	490	254	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	---	---	---	---	---
MAX	---	---	---	---	---
(WY)	---	---	---	---	---
MIN	---	---	---	---	---
(WY)	---	---	---	---	---
	35.5	78.1	45.2	25.0	15.2
	201	533	382	193	62.7
	1983	1983	1983	1983	1983
	2.27	4.14	2.67	.89	.65
	1977	1977	1989	1989	1989

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

19 May 7
2.2 Sep 17
85 May 21
2.54 May 21
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WATER YEARS 1974 - 1992*

1280 Aug 20 1990
.49 Sep 8 1977
.55 Jul 21 1989
19900a Aug 20 1990
15.60 Aug 20 1990
61
8.0
2.4

* During period of operation.

a On basis of slope-area measurement of peak flow at site 1.2 mi upstream.

PLATTE RIVER BASIN
06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY

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LOCATION.--Lat 41°54'40", long 105°07'36", in NW¼ SW¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Most of flow during irrigation season is water released from Wheatland Reservoir No. 2, capacity 98,930 acre-ft, on the Laramie River and diverted down Bluegrass Creek for irrigation of land near Wheatland. Diversions for irrigation of about 4,400 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	18	13	17	52	27	53
2	---	---	---	---	---	---	18	14	17	93	23	50
3	---	---	---	---	---	---	18	13	16	67	28	47
4	---	---	---	---	---	---	17	13	14	56	30	49
5	---	---	---	---	---	---	17	31	13	48	23	47
6	---	---	---	---	---	---	18	40	13	38	21	38
7	---	---	---	---	---	---	18	74	13	29	22	30
8	---	---	---	---	---	---	18	85	14	24	22	24
9	---	---	---	---	---	---	18	72	18	22	23	17
10	---	---	---	---	---	---	18	49	14	18	18	13
11	---	---	---	---	---	---	18	32	11	15	24	13
12	---	---	---	---	---	---	18	42	12	25	26	12
13	---	---	---	---	---	---	18	38	9.3	22	30	12
14	---	---	---	---	---	---	18	40	8.6	29	35	12
15	---	---	---	---	---	---	18	43	9.9	28	29	30
16	---	---	---	---	---	---	14	46	11	32	30	27
17	---	---	---	---	---	---	11	28	11	34	36	17
18	---	---	---	---	---	---	9.9	22	11	30	38	13
19	---	---	---	---	---	---	14	16	13	32	93	9.9
20	---	---	---	---	---	---	14	13	18	43	93	8.1
21	---	---	---	---	---	---	13	16	17	42	102	6.9
22	---	---	---	---	---	---	13	36	17	28	108	6.9
23	---	---	---	---	---	---	17	16	17	34	113	5.9
24	---	---	---	---	---	---	18	13	42	29	115	5.9
25	---	---	---	---	---	---	17	12	48	30	111	5.9
26	---	---	---	---	---	---	15	11	42	34	76	5.0
27	---	---	---	---	---	---	15	11	39	32	56	4.5
28	---	---	---	---	---	---	16	11	38	28	53	5.0
29	---	---	---	---	---	---	19	11	39	28	52	5.0
30	---	---	---	---	---	---	15	11	43	25	50	4.5
31	---	---	---	---	---	---	---	14	---	23	52	---
TOTAL	---	---	---	---	---	---	488.9	886	605.8	1070	1559	577.5
MEAN	---	---	---	---	---	---	16.3	28.6	20.2	34.5	50.3	19.2
MAX	---	---	---	---	---	---	19	85	48	93	115	53
MIN	---	---	---	---	---	---	9.9	11	8.6	15	18	4.5
AC-FT	---	---	---	---	---	---	970	1760	1200	2120	3090	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	---	---	---	---	---	---	---	25.5	69.1	141	89.9	98.0	83.4
MAX	---	---	---	---	---	---	---	25.5	260	665	347	191	192
(WY)	---	---	---	---	---	---	---	1987	1983	1983	1983	1983	1983
MIN	---	---	---	---	---	---	---	25.5	7.85	16.5	20.2	34.5	31.8
(WY)	---	---	---	---	---	---	---	1987	1982	1989	1992	1992	1981

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1980 - 1992*
HIGHEST DAILY MEAN	115 Aug 24	1280 May 22 1983
LOWEST DAILY MEAN	4.5 Sep 27,30	.00 Sep 1,4,11, 1981
ANNUAL SEVEN-DAY MINIMUM	--	.86 Aug 29 1981
INSTANTANEOUS PEAK FLOW	241 Jul 1	6900a Aug 20 1990
INSTANTANEOUS PEAK STAGE	1.80 Jul 1	8.35b Aug 20 1990
10 PERCENT EXCEEDS	--	151
50 PERCENT EXCEEDS	--	49
90 PERCENT EXCEEDS	--	12

* During period of operation.

a From rating curve extended above 1,300 ft³/s on basis of contracted-opening measurement of peak flow.

b From floodmarks.

PLATTE RIVER BASIN

06669050 WHEATLAND CREEK BELOW WHEATLAND, WY

LOCATION.--Lat 42°05'05", long 104°57'02", in SW¼ SW¼ NE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	
OCT 23...	1000	0.60	1200	7.7	7.5	632	9.8	99	210
JAN 21...	1000	0.90	1300	8.5	2.0	635	14.2	124	K48
APR 14...	1000	0.70	1310	8.2	10.0	630	9.0	97	K38
JUL 28...	1400	0.60	1540	8.3	24.0	641	9.3	133	520

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

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT 23...	5.17	0.03	5.2	0.06	0.44	0.5	<0.01	0.04
JAN 21...	4.04	0.06	4.1	1.20	3.8	5.0	1.70	0.25
APR 14...	2.24	0.06	2.3	1.20	5.6	6.8	1.20	0.86
JUL 28...	0.18	0.03	0.21	0.06	13	13	0.62	0.28

PLATTE RIVER BASIN
06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY

347

LOCATION.--Lat 42°12'02", long 104°32'16", in NE¼ SE¼ NE¼ sec.28, T.26 N., R.64 W., Goshen County, Hydrologic Unit 10180011, on right bank 600 ft upstream from bridge on county road, 0.6 mi upstream from mouth, and 1.1 mi southwest of Fort Laramie.

DRAINAGE AREA.--4,564 mi², of which 631 mi² is probably non-contributing. Drainage area at mouth, 4,565 mi².

PERIOD OF RECORD.--April 1915 to current year (no winter records prior to 1927). Monthly discharge only for some periods, published in WSP 1310. Records for water years 1926-39, previously published including diversions to Gering-Fort Laramie Canal, were adjusted to exclude flow in the canal in WSP 1310. Prior to October 1931, published as "at Fort Laramie." No diversion to Gering-Fort Laramie Canal since 1956.

REVISED RECORDS.--WSP 1918: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,220 ft above National Geodetic Vertical Datum of 1929, 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. 2-4, Nov. 30 to Dec. 3, Dec. 14, 15, 18, 21-30, Jan. 2, 8-10, 14-23, and Sept. 16. Records good except those for December and January, which are poor. Diversion, at times, to Gering-Fort Laramie Canal, 5.4 mi upstream. Natural flow of stream affected by transbasin diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation of about 176,000 acres upstream from station, and return flow from irrigated areas. U.S. Corps of Engineers satellite telemeter at station.

COOPERATION.--Eighteen discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	45	39	43	43	43	40	49	43	119	42	56
2	45	40	41	41	43	43	45	43	43	152	41	56
3	44	42	42	38	44	42	46	42	44	135	41	53
4	45	43	42	40	44	43	52	41	46	129	41	53
5	45	43	41	41	51	46	53	40	46	127	43	53
6	43	42	41	41	47	43	54	36	43	126	46	53
7	42	39	41	40	46	42	58	33	39	125	47	55
8	42	41	41	44	45	46	59	36	39	121	46	55
9	42	43	41	46	45	49	59	39	41	87	46	54
10	41	43	41	48	45	45	60	41	42	69	46	53
11	40	43	42	48	44	45	59	41	39	66	47	53
12	40	43	45	47	44	46	59	39	39	66	47	52
13	41	43	45	46	44	46	59	40	42	59	48	50
14	40	44	43	39	45	44	59	38	42	54	48	49
15	40	48	45	41	45	44	53	34	42	51	47	49
16	41	50	46	45	45	44	52	33	43	51	49	48
17	42	50	44	43	45	43	51	31	43	49	53	47
18	43	50	43	41	45	43	51	34	44	44	52	44
19	44	50	45	42	45	43	50	37	47	43	50	48
20	45	50	45	43	45	44	50	35	47	46	51	49
21	45	49	44	42	45	45	52	39	47	46	51	47
22	46	48	46	41	45	45	52	46	49	45	50	46
23	43	45	45	42	45	45	52	41	50	47	51	46
24	42	46	44	43	45	45	52	41	51	47	54	45
25	41	47	46	42	44	44	52	42	46	49	55	45
26	43	45	46	42	43	41	52	42	43	52	55	44
27	42	44	47	40	43	41	52	40	48	50	54	45
28	40	44	47	42	43	40	52	43	50	53	53	45
29	45	42	48	43	43	39	51	45	54	48	52	45
30	47	41	48	43	---	38	50	45	59	45	55	44
31	47	---	46	43	---	38	---	43	---	42	56	---
TOTAL	1335	1343	1360	1320	1296	1345	1586	1229	1351	2243	1517	1482
MEAN	43.1	44.8	43.9	42.6	44.7	43.4	52.9	39.6	45.0	72.4	48.9	49.4
MAX	49	50	48	48	51	49	60	49	59	152	56	56
MIN	40	39	39	38	43	38	40	31	39	42	41	44
AC-FT	2650	2660	2700	2620	2570	2670	3150	2440	2680	4450	3010	2940

PLATTE RIVER BASIN
06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

MEAN	75.3	89.8	96.9	94.0	99.1	112	172	442	331	143	67.2	63.7
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	1983	1981	1963	1966	1966	1975	1964

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1957 - 1992*		
ANNUAL TOTAL	24214			17407			--		
ANNUAL MEAN	66.3			47.6			149		
HIGHEST ANNUAL MEAN	--			--			672		
LOWEST ANNUAL MEAN	--			--			26.1		
HIGHEST DAILY MEAN	255	Jun 3		152	Jul 2		5810	May 10	1973
LOWEST DAILY MEAN	36	Mar 28		31	May 17		2.0a	Jan 23	1981
ANNUAL SEVEN-DAY MINIMUM	38	Mar 17		35	May 14		3.1	Jan 21	1981
INSTANTANEOUS PEAK FLOW	--			335	Jul 1		6260	May 10	1973#
INSTANTANEOUS PEAK STAGE	--			3.36	Jul 1		9.40b	May 10	1973
ANNUAL RUNOFF (AC-FT)	48030			34530			108000		
10 PERCENT EXCEEDS	192			53			234		
50 PERCENT EXCEEDS	47			45			72		
90 PERCENT EXCEEDS	41			40			26		

* For period of record following discontinuance of diversions to Gering-Fort Laramie Canal. See PERIOD OF RECORD.

For period of record, 1915-92.

a No flow Jan. 31 to Mar. 20, Oct. 24 to Dec. 17, 1926, Mar. 1-26, 1927, Apr. 14, 1938, all flow diverted by Gering-Fort Laramie Canal.

b Site and datum then in use.

PLATTE RIVER BASIN
06671000 RAWHIDE CREEK NEAR LINGLE, WY

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LOCATION.--Lat 42°07'32", long 104°19'36", in SE¼ NE¼ sec.20, T.25 N., R.62 W., Goshen County, Hydrologic Unit 10180009, on right bank 200 ft upstream from bridge on U.S. Highway 26, 1.0 mi east of Lingle, and 1.0 mi upstream from mouth

DRAINAGE AREA.--522 mi².

PERIOD OF RECORD.--May 1928 to September 1992 (discontinued). No winter records since 1971. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1440: 1932, 1936(M). WSP 1918: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,160 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1918 for history of changes prior to May 16, 1955.

REMARKS.--No estimated daily discharges. Records fair. Low flow represents return water from lands irrigated by Interstate Canal in Rawhide Creek basin. Six small reservoirs upstream from station, combined capacity, about 460 acre-ft, for irrigation. Diversions for irrigation of about 1,600 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	11	5.8	10	40	5.2	25
2	---	---	---	---	---	---	11	4.4	9.6	61	6.1	28
3	---	---	---	---	---	---	11	3.1	8.6	15	10	29
4	---	---	---	---	---	---	11	.00	5.5	15	13	32
5	---	---	---	---	---	---	10	.00	2.8	22	9.3	31
6	---	---	---	---	---	---	11	.00	1.6	19	10	28
7	---	---	---	---	---	---	10	.00	1.5	13	8.9	23
8	---	---	---	---	---	---	9.6	.00	1.7	7.1	2.6	21
9	---	---	---	---	---	---	9.3	1.5	3.4	7.8	4.7	22
10	---	---	---	---	---	---	8.9	2.0	2.2	8.9	8.9	24
11	---	---	---	---	---	---	8.9	1.1	3.1	4.7	9.3	31
12	---	---	---	---	---	---	9.3	.70	5.2	2.4	7.1	32
13	---	---	---	---	---	---	9.3	.70	5.7	5.5	5.5	27
14	---	---	---	---	---	---	8.9	.00	6.4	2.2	2.4	23
15	---	---	---	---	---	---	9.6	10	5.5	.70	2.0	19
16	---	---	---	---	---	---	10	20	6.1	2.6	4.8	13
17	---	---	---	---	---	---	10	15	14	1.5	11	15
18	---	---	---	---	---	---	11	10	9.3	2.6	9.6	17
19	---	---	---	---	---	---	11	5.2	6.4	5.5	7.8	15
20	---	---	---	---	---	---	11	5.5	5.4	13	5.8	21
21	---	---	---	---	---	---	9.6	14	5.2	19	6.4	20
22	---	---	---	---	---	---	8.4	12	6.1	18	9.5	16
23	---	---	---	---	---	---	5.8	5.8	7.1	8.9	15	16
24	---	---	---	---	---	---	4.1	15	7.5	9.6	15	19
25	---	---	---	---	---	---	4.1	31	5.0	7.8	17	45
26	---	---	---	---	---	---	4.1	20	5.8	14	19	33
27	---	---	---	---	---	---	5.5	18	6.9	13	23	31
28	---	---	---	---	---	---	7.5	12	8.9	9.6	24	25
29	---	---	---	---	---	---	6.8	18	16	10	17	22
30	---	---	---	---	---	---	5.8	9.6	15	9.3	16	17
31	---	---	---	---	---	---	---	6.1	---	8.2	19	---
TOTAL	---	---	---	---	---	---	263.5	246.50	197.5	376.90	324.9	720
MEAN	---	---	---	---	---	---	8.78	7.95	6.58	12.2	10.5	24.0
MAX	---	---	---	---	---	---	11	31	16	61	24	45
MIN	---	---	---	---	---	---	4.1	.00	1.5	.70	2.0	13
AC-FT	---	---	---	---	---	---	523	489	392	748	644	1430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1971, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929, 1932, 1936, 1941, 1949, 1950, 1957, 1961, 1967												
MEAN	23.8	18.5	16.8	14.8	14.9	16.6	19.1	25.8	30.3	22.2	25.4	32.6
MAX	55.4	46.1	27.7	21.4	30.9	32.0	68.5	42.7	100	102	57.0	125
(WY)	1929	1932	1932	1950	1930	1932	1936	1949	1935	1941	1929	1946
MIN	3.81	5.00	4.28	6.46	6.11	7.00	2.00	4.41	4.47	1.17	1.41	8.85
(WY)	1957	1939	1961	1937	1937	1935	1935	1934	1961	1961	1961	1956

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

WATER YEARS 1928 - 1971

ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---
HIGHEST ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---
LOWEST ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---
HIGHEST DAILY MEAN	61	Jul	2	---	---	---	---	---	1330	Jul	12	1941	---
LOWEST DAILY MEAN	.00	May	4-8,14	---	---	---	---	---	.00	Jul	5-7	1961,	---
										Apr	12,29	1966	---
										Mar	20-28	1967,	---
										Apr	13	1971,	---
										May	4-8,14	1992#	---
ANNUAL SEVEN-DAY MINIMUM	---	---	---	---	---	---	---	---	.00	Mar	20	1967	---
INSTANTANEOUS PEAK FLOW	184	Jul	1	---	---	---	---	---	3970	Sep	7	1946#	---
INSTANTANEOUS PEAK STAGE	5.18	Jul	1	---	---	---	---	---	11.76	Sep	7	1946#	---
ANNUAL RUNOFF (AC-FT)	---	---	---	---	---	---	---	---	15540	---	---	---	---
10 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	37	---	---	---	---
50 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	18	---	---	---	---
90 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	8.4	---	---	---	---

* During period of operation.

For period of record through 1992.

PLATTE RIVER BASIN
06672500 CHERRY CREEK DRAIN NEAR TORRINGTON, WY

LOCATION.--Lat 42°02'22", long 104°10'07", in SW¼ NW¼ sec.23, T.24 N., R.61 W., Goshen County, Hydrologic Unit 10180009, on left bank 50 ft downstream from bridge on county road, 0.6 mi upstream from mouth, and 2.0 mi southeast of Torrington.

DRAINAGE AREA.--356 mi².

PERIOD OF RECORD.--May to September 1931, May to September 1932, May 1935 to September 1992 (discontinued). No winter records since 1971. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,080 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 12, 1935, nonrecording gage at site 1.0 mi upstream at different datum. June 12, 1935, to Sept. 30, 1945, water-stage recorder at site 100 ft downstream at datum 2.00 ft higher. Oct. 1, 1945, to Nov. 27, 1950, water-stage recorder at site 100 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Sept. 26, 27. Records fair except those for estimated daily discharges, which are poor. Flow is mainly return water from irrigation.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.4	7.9	4.5	9.9	24	52
2	---	---	---	---	---	---	6.4	7.9	4.0	64	22	49
3	---	---	---	---	---	---	6.4	9.4	3.6	38	28	47
4	---	---	---	---	---	---	6.9	8.9	3.6	27	29	49
5	---	---	---	---	---	---	6.4	9.4	4.0	24	26	50
6	---	---	---	---	---	---	6.2	9.4	4.0	20	31	46
7	---	---	---	---	---	---	6.0	9.4	4.0	18	29	46
8	---	---	---	---	---	---	6.0	9.9	3.6	20	26	45
9	---	---	---	---	---	---	6.0	10	4.0	19	24	47
10	---	---	---	---	---	---	6.0	11	2.6	17	22	39
11	---	---	---	---	---	---	6.0	9.4	2.6	17	26	37
12	---	---	---	---	---	---	6.0	11	3.6	20	30	35
13	---	---	---	---	---	---	6.0	12	4.5	24	27	33
14	---	---	---	---	---	---	6.0	8.4	4.5	17	27	30
15	---	---	---	---	---	---	6.0	19	5.5	16	27	27
16	---	---	---	---	---	---	6.4	18	3.3	27	29	24
17	---	---	---	---	---	---	6.9	7.4	3.6	25	30	24
18	---	---	---	---	---	---	7.4	6.0	1.4	27	34	27
19	---	---	---	---	---	---	6.9	5.0	1.2	24	29	26
20	---	---	---	---	---	---	6.7	6.9	3.1	38	30	24
21	---	---	---	---	---	---	6.0	6.0	3.1	44	27	22
22	---	---	---	---	---	---	6.4	9.4	3.1	38	28	22
23	---	---	---	---	---	---	6.9	12	3.1	33	29	22
24	---	---	---	---	---	---	7.4	12	3.1	34	28	26
25	---	---	---	---	---	---	5.5	11	6.9	33	27	24
26	---	---	---	---	---	---	6.0	8.9	11	41	35	24
27	---	---	---	---	---	---	6.4	10	11	42	35	24
28	---	---	---	---	---	---	6.9	9.9	12	32	35	24
29	---	---	---	---	---	---	7.4	5.0	16	24	35	24
30	---	---	---	---	---	---	7.4	1.9	11	22	39	24
31	---	---	---	---	---	---	---	3.6	---	21	43	---
TOTAL	---	---	---	---	---	---	193.3	286.0	151.5	855.9	911	993
MEAN	---	---	---	---	---	---	6.44	9.23	5.05	27.6	29.4	33.1
MAX	---	---	---	---	---	---	7.4	19	16	64	43	52
MIN	---	---	---	---	---	---	5.5	1.9	1.2	9.9	22	22
AC-FT	---	---	---	---	---	---	383	567	301	1700	1810	1970

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

	MEAN	18.3	12.2	9.92	8.36	8.42	8.67	8.88	19.2	31.5	35.4	44.0	51.1
MAX	34.1	20.2	15.9	14.5	13.9	17.1	18.0	43.2	87.0	63.9	69.9	84.9	
(WY)	1953	1943	1953	1953	1949	1949	1955	1971	1955	1950	1953	1950	
MIN	8.62	6.45	3.65	.95	1.91	3.68	4.24	8.19	7.14	8.09	8.80	11.9	
(WY)	1941	1962	1936	1937	1937	1937	1937	1940	1940	1940	1940	1940	

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1931 - 1971
ANNUAL MEAN	--	21.6
HIGHEST ANNUAL MEAN	--	31.3
LOWEST ANNUAL MEAN	--	9.00
HIGHEST DAILY MEAN	64 Jul 2	1550 Jun 27 1955
LOWEST DAILY MEAN	1.2 Jun 19	.40 Jan 28 1949#
ANNUAL SEVEN-DAY MINIMUM	--	.50 Jan 24 1949
INSTANTANEOUS PEAK FLOW	80 Jul 2	2420 Jun 27 1955#
INSTANTANEOUS PEAK STAGE	2.16 Jul 2	10.31a Jun 27 1955
ANNUAL RUNOFF (AC-FT)	--	15680
10 PERCENT EXCEEDS	--	51
50 PERCENT EXCEEDS	--	13
90 PERCENT EXCEEDS	--	6.7

* During period of operation.

For period of record through 1992.

a From floodmark.

PLATTE RIVER BASIN
06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'25", long 104°02'57", in SW¼ NE¼ SE¼ sec.4, T.23 N., R.58 W., Scottsbluff County, NE, Hydrologic Unit 10180009, on right bank 650 ft upstream from bridge on NE State Highway 86, 700 ft downstream from Wyoming-Nebraska State line, and 0.5 mi south of Henry, NE.
DRAINAGE AREA.--22,218 mi², of which 1,929 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1929 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,021.35 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 6, 1929, non-recording gage and Nov. 6, 1929, to Sept. 30, 1959, water-stage recorder at site 0.5 mi upstream at datum 4.42 ft higher. Oct. 7, 1959 to Feb. 22, 1972, water-stage recorder at site 0.5 mi upstream at datum 3.42 ft higher.

REMARKS.--Estimated daily discharges: Nov. 2, 3, 30, Dec. 1, and Jan. 15-22. 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 0.8 mi upstream. U.S. Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	296	230	214	183	165	151	138	74	529	1240	975
2	468	280	232	213	183	165	151	135	14	913	1230	932
3	443	280	231	212	183	165	154	88	13	779	1310	876
4	458	287	233	210	183	170	152	50	11	668	1330	844
5	539	288	234	201	189	183	152	20	9.1	615	1320	838
6	483	288	234	190	183	179	152	14	8.5	570	1290	825
7	442	282	232	194	180	172	152	9.9	7.7	646	1280	847
8	422	273	229	184	179	173	153	6.9	7.2	889	1300	861
9	403	264	220	171	180	186	152	5.9	6.4	944	1300	849
10	388	263	217	174	181	184	152	5.3	104	956	1310	870
11	379	256	214	184	181	179	150	4.6	143	1060	1290	816
12	373	252	217	203	177	182	148	4.1	138	1160	1290	783
13	362	253	217	203	176	183	150	3.9	132	1240	1270	755
14	351	252	217	199	177	179	157	18	113	1230	1240	740
15	344	252	215	190	176	176	169	94	114	1210	1210	677
16	336	250	218	187	176	176	166	155	40	1290	1180	635
17	326	254	220	187	175	172	163	168	6.4	1250	1270	578
18	314	252	214	186	172	169	166	193	5.6	1210	1220	542
19	310	250	213	187	172	169	160	220	5.1	1220	1190	548
20	310	247	213	186	172	167	159	236	4.7	1300	1120	547
21	322	246	212	186	172	165	158	269	4.3	1320	1050	539
22	308	246	210	184	172	165	158	465	4.1	1220	1060	492
23	301	239	210	185	181	164	159	474	4.1	1150	1070	519
24	294	239	208	188	180	164	155	377	4.2	1090	1140	623
25	294	238	210	190	172	159	153	307	4.5	993	1140	680
26	291	239	212	190	169	156	151	261	4.8	1060	1100	459
27	292	241	212	188	167	155	153	240	5.6	1120	1050	345
28	294	238	212	185	168	155	150	232	6.4	1140	967	285
29	291	235	214	184	165	155	143	217	106	1200	955	274
30	298	228	215	185	---	154	139	200	371	1260	942	268
31	300	---	215	186	---	154	---	187	---	1260	938	---
TOTAL	11262	7708	6780	5926	5124	5240	4628	4798.6	1471.7	32492	36602	19822
MEAN	363	257	219	191	177	169	154	155	49.1	1048	1181	661
MAX	539	296	234	214	189	186	169	474	371	1320	1330	975
MIN	291	228	208	171	165	154	139	3.9	4.1	529	938	268
AC-FT	22340	15290	13450	11750	10160	10390	9180	9520	2920	64450	72600	39320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1929	521	1666	1987	150	1957
1930	439	1454	1987	174	1935
1931	391	895	1930	191	1991
1932	346	751	1930	169	1991
1933	353	1063	1984	149	1982
1934	511	4202	1974	141	1991
1935	621	4407	1971	141	1991
1936	1195	7226	1971	43.9	1990
1937	1630	10360	1929	49.1	1992
1938	1538	7170	1983	611	1934
1939	1277	5751	1983	154	1934
1940	879	4766	1983	230	1934

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1929 - 1992
ANNUAL TOTAL	171355	141854.3	--
ANNUAL MEAN	469	388	790
HIGHEST ANNUAL MEAN	--	--	2863
LOWEST ANNUAL MEAN	--	--	388
HIGHEST DAILY MEAN	2820	Jun 11	17600
LOWEST DAILY MEAN	70	May 14	3.9
ANNUAL SEVEN-DAY MINIMUM	131	May 9	4.4
INSTANTANEOUS PEAK FLOW	--	1360a	Aug 3
INSTANTANEOUS PEAK STAGE	--	3.28	Aug 10
ANNUAL RUNOFF (AC-FT)	339900	281400	572000
10 PERCENT EXCEEDS	1180	1140	1450
50 PERCENT EXCEEDS	238	214	496
90 PERCENT EXCEEDS	141	105	218

a Gage height, 3.26 ft.

b Maximum observed.

c Site and datum then in use.

PLATTE RIVER BASIN
06679500 NORTH PLATTE RIVER AT MITCHELL, NE

LOCATION.--Lat 41°55'38", long 103°48'48", in NE¼ NE¼ sec.33, T.23 N., R.56 W., Scotts Bluff County, Hydrologic Unit 10180009, on right bank of main channel 10 ft downstream from bridge on State Highway 29, 0.5 mi south of Mitchell, and at mile 186.

DRAINAGE AREA.--24,300 mi², approximately, of which about 22,300 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--June 1901 to September 1910, May to December 1911, February 1912 to July 1913 (gage heights only), May 1916 to October 1918 (irrigation seasons only), May 1920 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-67, WDR NE-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,929.3 ft above National Geodetic Vertical Datum of 1929. See WSP 1918 for history of changes prior to May 27, 1960. May 27, 1960, to Aug. 24, 1971, at datum 1.00 ft higher.

REMARKS.--Records good except for period of estimated record, which is poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	581	500	424	366	346	360	238	248	77	202	259
2	847	536	497	417	366	344	361	233	205	145	181	271
3	795	545	490	416	365	343	360	243	178	327	194	237
4	779	566	492	416	358	346	358	233	166	322	224	226
5	830	582	499	414	353	371	358	192	152	283	242	221
6	868	586	506	412	353	374	344	133	148	241	237	213
7	806	590	507	412	346	364	337	102	148	181	223	215
8	775	590	499	392	344	361	341	88	147	165	217	222
9	737	590	487	399	348	361	346	88	134	169	221	247
10	712	590	485	401	349	366	340	85	131	186	220	252
11	699	582	477	400	349	372	335	84	146	321	223	291
12	688	580	476	400	349	377	328	78	155	319	222	261
13	674	580	474	397	355	383	327	79	167	303	227	279
14	652	568	462	395	361	378	342	80	159	239	217	317
15	652	565	460	359	358	381	343	78	150	203	214	309
16	646	565	460	377	354	371	331	79	144	211	217	292
17	640	568	460	383	352	357	332	76	116	246	239	261
18	611	570	459	379	348	364	328	78	116	225	285	250
19	613	570	459	374	351	376	320	76	103	205	322	252
20	614	560	459	369	353	393	316	76	85	239	327	280
21	614	560	456	362	349	400	318	99	83	345	274	366
22	609	560	451	362	349	381	325	338	80	397	254	491
23	589	549	447	355	356	391	317	200	80	291	244	658
24	586	541	442	361	362	390	309	157	83	245	261	743
25	591	540	437	366	360	382	281	175	80	222	293	846
26	587	540	434	366	351	370	259	304	81	215	300	787
27	590	540	431	366	350	364	262	309	95	210	299	647
28	582	544	432	369	350	366	264	311	93	204	279	551
29	569	541	428	371	348	364	272	298	93	191	247	529
30	567	514	425	371	---	366	255	280	83	197	238	518
31	576	---	424	372	---	365	---	268	---	216	236	---
TOTAL	21028	16893	14415	11957	10253	11467	9669	5158	3849	7340	7579	11291
MEAN	678	563	465	386	354	370	322	166	128	237	244	376
MAX	930	590	507	424	366	400	361	338	248	397	327	846
MIN	567	514	424	355	344	343	255	76	80	77	181	213
AC-FT	41710	33510	28590	23720	20340	22740	19180	10230	7630	14560	15030	22400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1958	859	2235	1987	478	1961
1959	678	1833	1987	478	1961
1960	573	1251	1985	377	1991
1961	510	1040	1985	366	1991
1962	500	1236	1984	347	1991
1963	774	4091	1974	308	1991
1964	1004	5244	1984	278	1967
1965	1249	7388	1971	166	1992
1966	1544	7693	1984	128	1992
1967	825	6868	1983	130	1963
1968	587	5294	1983	137	1963
1969	752	4987	1983	171	1960

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1958 - 1992
(SINCE GLENDO PROJECT)

ANNUAL TOTAL	167649	130899	---
ANNUAL MEAN	459	358	822
MEDIAN OF ANNUAL MEANS	---	---	539
HIGHEST ANNUAL MEAN	---	---	3008
LOWEST ANNUAL MEAN	---	---	330
HIGHEST DAILY MEAN	3000	Jun 9	11400
LOWEST DAILY MEAN	199	Aug 24	54
ANNUAL SEVEN-DAY MINIMUM	214	Aug 23	65
INSTANTANEOUS PEAK FLOW (STAGE)	---	---	27500 (*6.45)
INSTANTANEOUS PEAK STAGE	---	---	7.80
ANNUAL RUNOFF (AC-FT)	332500	259600	595500
10 PERCENT EXCEEDS	722	586	1440
50 PERCENT EXCEEDS	346	350	500
90 PERCENT EXCEEDS	246	147	234

* Datum then in use.

** Present datum.

06755800 CROW CREEK AT ROUNDTOP ROAD, NEAR CHEYENNE, WY

LOCATION.--Lat 41°09'30", long 104°52'44", in SW¼ NE¼ NW¼ sec.27, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, at west edge of F. E. Warren AFB, at bridge on Roundtop Road, 1.1 mi upstream from Diamond Creek, and 3 mi northwest of Cheyenne.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--Water years 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY 19...	1300	1.2	20.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
JUN 15...	1200	0.60	19.0	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 30...	0900	E0.50	20.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 21...	0900	0.20	16.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 24...	0900	0.70	12.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--

E-Estimate.

PLATTE RIVER BASIN
06755860 DIAMOND CREEK AT F.E. WARREN AIR FORCE BASE, WY

LOCATION.--Lat 41°08'51", long 104°52'22", in SE¼ 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 to September 1992.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those above 2 ft³/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.14	.07	.07	.10
2	---	---	---	---	---	---	---	---	.12	.13	.05	.07
3	---	---	---	---	---	---	---	---	.11	.11	.18	.06
4	---	---	---	---	---	---	---	---	.10	.08	.09	.06
5	---	---	---	---	---	---	---	---	.11	.06	.07	.06
6	---	---	---	---	---	---	---	---	.14	.05	.05	.06
7	---	---	---	---	---	---	---	---	.12	.05	.05	.06
8	---	---	---	---	---	---	---	---	.14	.05	.04	.06
9	---	---	---	---	---	---	---	---	.12	.05	.04	.06
10	---	---	---	---	---	---	---	---	.10	.32	.04	.06
11	---	---	---	---	---	---	---	---	.09	.16	.04	.06
12	---	---	---	---	---	---	---	---	.10	.16	.05	.07
13	---	---	---	---	---	---	---	---	.10	.11	.05	.07
14	---	---	---	---	---	---	---	---	.12	.07	.05	.07
15	---	---	---	---	---	---	---	---	.11	.10	.05	.07
16	---	---	---	---	---	---	---	.07	.08	.10	.05	.06
17	---	---	---	---	---	---	---	.09	.08	.09	.10	.06
18	---	---	---	---	---	---	---	.09	.07	.07	.07	.05
19	---	---	---	---	---	---	---	.09	.07	.10	.06	.06
20	---	---	---	---	---	---	---	.08	.10	.16	.05	.08
21	---	---	---	---	---	---	---	.18	.09	.16	.05	.07
22	---	---	---	---	---	---	---	.12	.07	.09	.13	.06
23	---	---	---	---	---	---	---	.12	.06	.08	.13	.05
24	---	---	---	---	---	---	---	.11	.06	.07	.90	.05
25	---	---	---	---	---	---	---	.10	.33	.07	.24	.06
26	---	---	---	---	---	---	---	.12	.35	.07	.13	.06
27	---	---	---	---	---	---	---	.77	.11	.07	.09	.05
28	---	---	---	---	---	---	---	.25	.10	.06	.07	.05
29	---	---	---	---	---	---	---	.16	.10	.05	.05	.06
30	---	---	---	---	---	---	---	.14	.08	.05	.06	.07
31	---	---	---	---	---	---	---	.14	---	.11	.08	---
TOTAL	---	---	---	---	---	---	---	---	3.47	2.97	3.18	1.88
MEAN	---	---	---	---	---	---	---	---	.12	.096	.10	.063
MAX	---	---	---	---	---	---	---	---	.35	.32	.90	.10
MIN	---	---	---	---	---	---	---	---	.06	.05	.04	.05
AC-FT	---	---	---	---	---	---	---	---	6.9	5.9	6.3	3.7

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

HIGHEST DAILY MEAN	.90	Aug 24
LOWEST DAILY MEAN	.04	Aug 8-11
ANNUAL SEVEN-DAY MINIMUM	.04	Aug 6
INSTANTANEOUS PEAK FLOW	7.4	Jul 10
INSTANTANEOUS PEAK STAGE	2.57	Jul 10
INSTANTANEOUS LOW FLOW	.04	Aug 8
10 PERCENT EXCEEDS	.16	
50 PERCENT EXCEEDS	.07	
90 PERCENT EXCEEDS	.05	

* During period of operation.

PLATTE RIVER BASIN
06755880 DIAMOND CREEK AT MOUTH, AT F.E. WARREN AIR FORCE BASE, WY

357

LOCATION.--Lat 41°08'56", long 104°52'06", in SE¼ 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 to September 1992.
GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,120 ft above National Geodetic Vertical Datum of 1929, from topographic map.
REMARKS.--No estimated daily discharges. Records good except those above 2 ft³/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.15	.07	.06	.10
2	---	---	---	---	---	---	---	---	.14	.14	.03	.05
3	---	---	---	---	---	---	---	---	.11	.13	.15	.04
4	---	---	---	---	---	---	---	---	.11	.09	.09	.05
5	---	---	---	---	---	---	---	---	.12	.07	.05	.05
6	---	---	---	---	---	---	---	---	.14	.05	.04	.05
7	---	---	---	---	---	---	---	---	.14	.05	.02	.05
8	---	---	---	---	---	---	---	---	.15	.05	.01	.06
9	---	---	---	---	---	---	---	---	.13	.04	.01	.05
10	---	---	---	---	---	---	---	---	.11	.44	.02	.05
11	---	---	---	---	---	---	---	---	.09	.19	.02	.06
12	---	---	---	---	---	---	---	---	.10	.17	.03	.05
13	---	---	---	---	---	---	---	---	.10	.11	.02	.05
14	---	---	---	---	---	---	---	---	.11	.07	.02	.06
15	---	---	---	---	---	---	---	---	.12	.09	.02	.05
16	---	---	---	---	---	---	---	---	.08	.11	.02	.05
17	---	---	---	---	---	---	---	---	.07	.09	.08	.05
18	---	---	---	---	---	---	---	.09	.06	.07	.05	.06
19	---	---	---	---	---	---	---	.11	.07	.09	.03	.06
20	---	---	---	---	---	---	---	.10	.09	.19	.02	.06
21	---	---	---	---	---	---	---	.21	.10	.18	.03	.06
22	---	---	---	---	---	---	---	.17	.07	.10	.08	.06
23	---	---	---	---	---	---	---	.16	.07	.09	.15	.06
24	---	---	---	---	---	---	---	.14	.06	.07	1.1	.06
25	---	---	---	---	---	---	---	.14	.45	.07	.25	.06
26	---	---	---	---	---	---	---	.15	.48	.08	.13	.06
27	---	---	---	---	---	---	---	.92	.19	.07	.07	.06
28	---	---	---	---	---	---	---	.31	.15	.05	.05	.06
29	---	---	---	---	---	---	---	.18	.13	.03	.03	.06
30	---	---	---	---	---	---	---	.16	.09	.03	.04	.06
31	---	---	---	---	---	---	---	.16	---	.09	.04	---
TOTAL	---	---	---	---	---	---	---	---	3.98	3.17	2.76	1.70
MEAN	---	---	---	---	---	---	---	---	.13	.10	.089	.057
MAX	---	---	---	---	---	---	---	---	.48	.44	1.1	.10
MIN	---	---	---	---	---	---	---	---	.06	.03	.01	.04
AC-FT	---	---	---	---	---	---	---	---	7.9	6.3	5.5	3.4

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

HIGHEST DAILY MEAN	1.1	Aug 24
LOWEST DAILY MEAN	.01	Aug 8
ANNUAL SEVEN-DAY MINIMUM	.02	Aug 7
INSTANTANEOUS PEAK FLOW	6.6	Jul 10
INSTANTANEOUS PEAK STAGE	2.39	Jul 10
INSTANTANEOUS LOW FLOW	.01	Aug 8-9
10 PERCENT EXCEEDS	.17	
50 PERCENT EXCEEDS	.07	
90 PERCENT EXCEEDS	.03	

* During period of operation.

PLATTE RIVER BASIN

06755950 CROW CREEK AT F.E. WARREN AFB, WY

LOCATION.--Lat 41°08'02", long 104°50'25", in NE¼ NW¼ SW¼ sec.36, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, 1,400 ft upstream from bridge on U.S. Interstate 25, 0.2 mi southeast of Gate No. 1 of F.E. Warren AFB, and 2 mi downstream from mouth of Diamond Creek.

PERIOD OF RECORD.--Water years 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 22...	1300	7.6	520	8.0	10.0	602	13.4	151	K9
JAN 22...	0900	9.4	550	8.2	0.0	603	11.2	97	K3
APR 15...	0800	8.1	445	7.8	9.0	605	8.0	88	K5
JUL 30...	1000	0.80	540	7.5	17.5	610	9.4	124	74

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

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT 22...	0.31	0.02	0.33	0.04	0.46	0.5	<0.01	<0.01
JAN 22...	--	<0.01	0.43	0.03	0.37	0.4	0.02	<0.01
APR 15...	--	<0.01	0.36	0.05	0.35	0.4	<0.01	0.02
JUL 30...	0.96	0.04	1.00	0.04	0.46	0.5	<0.01	0.04

DATE	TIME	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	SILICA, DIS- SOLVED (MG/L AS SiO2)	ALUM- INUM, DIS- SOLVED (UG/L AS Al)	ARSENIC DIS- SOLVED (UG/L AS As)
OCT 22...	1300	250	80	11	15	0.4	27	<10	2
JAN 22...	0900	260	85	11	15	0.4	27	<10	2
APR 15...	0800	230	76	10	14	0.4	23	<10	2
JUL 30...	1000	250	80	12	19	0.5	23	<10	2

DATE	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)	COBALT, DIS- SOLVED (UG/L AS Co)	COPPER, DIS- SOLVED (UG/L AS Cu)	IRON, DIS- SOLVED (UG/L AS Fe)
OCT 22...	200	<0.5	70	3.0	<1	<3	3	38
JAN 22...	190	<0.5	60	2.0	<1	<3	2	21
APR 15...	190	<0.5	60	<1.0	<1	<3	2	39
JUL 30...	190	<0.5	180	2.0	<1	<3	2	5

PLATTE RIVER BASIN

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06755950 CROW CREEK AT F.E. WARREN AFB, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE		LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	
OCT	22...	<1	20	13	<0.1	<1	<1.0	430	8	
JAN	22...	<1	21	24	<0.1	<1	<1.0	400	9	
APR	15...	<1	20	70	<0.1	<1	<1.0	390	3	
JUL	30...	<1	25	37	<0.1	<1	<1.0	500	4	
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
MAY	19...	2.3	22.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
JUN	15...	2.0	18.5	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL	30...	0.80	17.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG	25...	0930	3.6	11.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP	24...	1000	0.90	12.5	<0.01	0.04	<0.01	<0.01	<0.01	--

LOCATION.--Lat 41°07'09", long 104°45'33", in NW¼ SW¼ SE¼ sec.3, T. 13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 400 ft downstream from Cheyenne Sewage Disposal Plant outlet, 1.3 mi upstream from Wyoming Hereford Ranch Reservoir No. 1, and 3.4 mi southwest of State Capitol Building in Cheyenne.

PERIOD OF RECORD.--Water years 1983 to current year.

[illegible]

PLATTE RIVER BASIN

361

06756060 CROW CREEK NEAR ARCHER, WY

LOCATION.--Lat 41°07'35", long 104°39'04", in NE¼ SW¼ NW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 22...	0800	18	810	7.7	8.0	606	7.0	75	47
JAN 22...	1300	26	870	8.1	0.0	610	11.2	96	26
APR 15...	1300	2.5	765	8.2	10.0	612	14.6	162	50
JUL 30...	1400	5.0	850	8.1	22.0	616	11.0	157	57

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
OCT 22...	4.26	0.54	4.8	3.0	2.3	5.3	3.3	2.10
JAN 22...	2.75	0.15	2.9	1.3	7.7	9.0	2.5	0.45
APR 15...	3.99	0.41	4.4	2.9	1.8	4.7	2.1	2.10
JUL 30...	0.50	0.90	1.4	0.39	3.4	3.8	2.6	0.45

DATE	TIME	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	SILICA, DIS- SOLVED (MG/L AS SiO2)	ALUM- INUM, DIS- SOLVED (UG/L AS Al)	ARSENIC DIS- SOLVED (UG/L AS As)
OCT 22...	0800	240	74	13	59	2	20	10	5
JAN 22...	1300	260	83	13	59	2	22	<10	3
APR 15...	1300	270	84	14	59	2	18	<10	4
JUL 30...	1400	250	78	14	66	2	22	<10	4

DATE	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)	COBALT, DIS- SOLVED (UG/L AS Co)	COPPER, DIS- SOLVED (UG/L AS Cu)	IRON, DIS- SOLVED (UG/L AS Fe)
OCT 22...	100	<0.5	250	2.0	<1	<3	5	78
JAN 22...	110	<0.5	210	<1.0	<1	<3	8	76
APR 15...	130	<0.5	210	2.0	<1	<3	4	32
JUL 30...	94	<0.5	260	3.0	<1	<3	5	13

PLATTE RIVER BASIN

06756060 CROW CREEK NEAR ARCHER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 22...	<1	28	180	<0.1	5	<1.0	470	18
JAN 22...	1	27	240	<0.1	4	<1.0	460	18
APR 15...	<1	32	250	<0.1	<1	<1.0	480	10
JUL 30...	<1	32	22	<0.1	<1	<1.0	480	9

PLATTE RIVER BASIN
06756100 CROW CREEK NEAR CARPENTER, WY

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LOCATION.--Lat 41°04'58", long 104°23'56", in SE¼ NE¼ NW¼ 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.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28 to Nov. 5, Nov. 7, 8, Nov. 30 to Dec. 6, Dec. 12 to Jan. 17, Jan. 22-29, Feb. 4-13, Mar. 17 to Apr. 12, and Aug. 3-24. Records good except those for winter period and August and September, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	7.2	15	4.5	29	15	1.4	3.0	1.6	8.3	1.5	2.2
2	20	6.5	22	5.0	32	14	1.6	2.9	1.5	9.7	1.5	2.1
3	14	9.0	30	5.6	22	14	1.8	2.9	1.4	10	1.5	2.2
4	16	20	25	6.0	14	14	1.9	2.9	1.3	9.0	1.8	2.2
5	18	40	24	6.0	9.0	14	1.9	2.4	1.4	8.3	1.7	2.8
6	20	34	25	5.4	5.7	20	1.9	1.7	2.1	8.3	1.5	2.5
7	19	30	26	5.0	4.0	25	1.7	1.8	2.5	6.9	1.4	2.4
8	15	26	27	4.2	3.8	29	1.5	2.0	2.8	5.2	1.4	2.4
9	17	26	37	5.0	3.5	76	1.6	2.0	2.1	5.0	1.4	2.5
10	17	25	18	5.4	3.7	206	1.6	2.3	2.1	4.9	1.4	2.9
11	13	26	12	5.4	4.2	186	1.6	2.2	2.1	4.5	1.5	2.8
12	17	25	11	4.4	4.4	125	1.6	2.1	1.7	3.5	1.5	2.8
13	16	21	10	3.7	4.6	50	1.7	2.1	1.6	3.2	1.5	3.2
14	16	21	9.0	3.2	4.8	51	1.7	2.5	3.6	3.3	1.5	3.3
15	14	22	12	2.8	4.9	50	1.8	2.7	41	2.9	1.5	3.7
16	16	24	18	4.0	4.9	45	1.9	2.7	3.2	2.3	1.5	4.0
17	10	27	19	5.4	3.7	35	2.1	2.8	3.0	3.8	1.6	4.6
18	13	31	16	4.5	4.4	25	2.1	3.1	2.7	4.3	1.8	5.2
19	14	33	14	4.0	5.5	20	2.0	4.5	2.8	4.2	1.7	6.5
20	16	32	12	3.9	3.4	16	2.7	3.3	2.8	4.9	1.7	15
21	17	27	14	3.0	3.0	9.0	3.1	4.2	3.2	6.8	1.7	22
22	17	23	14	2.7	11	6.0	3.5	5.9	3.2	5.1	1.8	21
23	13	20	11	2.5	24	3.9	3.7	2.0	3.9	3.8	2.1	19
24	14	32	9.9	3.2	28	4.5	3.3	1.8	3.9	4.4	4.0	13
25	12	27	8.5	4.4	27	5.0	3.1	1.7	4.2	4.0	6.6	5.3
26	8.7	23	8.0	6.0	21	4.3	3.0	1.7	10	3.4	6.7	7.0
27	10	24	7.5	9.0	17	3.8	3.6	1.6	13	2.9	3.2	6.6
28	9.0	25	7.8	14	16	3.4	3.5	1.6	12	2.3	3.1	12
29	8.0	22	7.1	20	16	3.0	2.8	1.6	9.9	2.2	3.1	6.1
30	7.8	17	6.6	29	---	2.7	2.8	1.6	8.6	1.6	2.0	4.7
31	7.4	---	5.0	26	---	2.0	---	1.6	---	1.6	2.0	---
TOTAL	449.9	725.7	481.4	213.2	334.5	1077.6	68.5	77.2	155.2	150.6	67.2	192.0
MEAN	14.5	24.2	15.5	6.88	11.5	34.8	2.28	2.49	5.17	4.86	2.17	6.40
MAX	25	40	37	29	32	206	3.7	5.9	41	10	6.7	22
MIN	7.4	6.5	5.0	2.5	3.0	2.0	1.4	1.6	1.3	1.6	1.4	2.1
AC-FT	892	1440	955	423	663	2140	136	153	308	299	133	381

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	14.1	19.4	9.59	11.4	11.4	21.2	3.60	7.16	69.8	12.3	13.6	8.84
MAX	14.5	24.2	15.5	16.0	11.5	34.8	4.92	12.0	182	29.9	31.3	13.9
(WY)	1992	1992	1992	1991	1992	1992	1991	1991	1991	1991	1991	1991
MIN	13.6	14.6	3.65	6.88	11.4	7.55	2.28	2.49	5.17	2.21	2.17	6.21
(WY)	1991	1991	1991	1992	1991	1991	1992	1992	1992	1990	1992	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	10989.26	3993.0	
ANNUAL MEAN	30.1	10.9	19.6
HIGHEST ANNUAL MEAN			28.2
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	636 Jun 3	206 Mar 10	636 Jun 3 1991
LOWEST DAILY MEAN	.65 May 12	1.3 Jun 4	.65 May 12 1991
ANNUAL SEVEN-DAY MINIMUM	.91 May 9	1.4 Aug 6	.91 May 9 1991
INSTANTANEOUS PEAK FLOW		549 Jun 15	789 Jun 3 1991
INSTANTANEOUS PEAK STAGE		5.26 Jun 15	6.09 Jun 3 1991
INSTANTANEOUS LOW FLOW		1.3 Jun 4	.65 May 12 1991
ANNUAL RUNOFF (AC-FT)	21800	7920	14170
10 PERCENT EXCEEDS	48	25	29
50 PERCENT EXCEEDS	16	4.7	8.2
90 PERCENT EXCEEDS	4.2	1.7	1.9

PLATTE RIVER BASIN

06756100 CROW CREEK NEAR CARPENTER, WY--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	CLO PYRALID WATER UNFLTRD REC (UG/L)
JUN 25...	0915	5.9	16.0	0.02	0.08	0.04	<0.01	<0.01	<0.01	<0.01
JUL 29...	1400	1.8	24.5	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 21...	1400	3.8	19.0	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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DRAINAGE AREA.--468 mi².

PERIOD OF RECORD.--October 1931 to September 1992 (discontinued). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1977, on left bank at same datum.

REMARKS.--Estimated daily discharges: Oct. 30 to Mar. 31. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 10,200 acres, of which about 6,100 acres are downstream from station. National Weather Service satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	110	100	90	100	130	193	527	660	885	366	190
2	225	100	100	90	100	130	193	469	632	822	359	192
3	221	100	110	92	110	140	220	398	677	703	343	188
4	213	120	110	94	100	140	268	385	755	605	343	191
5	201	140	120	92	90	140	309	400	772	526	344	203
6	200	160	120	92	96	140	267	446	724	475	334	221
7	192	180	110	94	100	140	216	544	628	471	322	267
8	188	180	110	94	100	130	202	686	535	482	307	268
9	183	180	100	92	100	130	214	792	507	472	296	253
10	178	190	96	90	110	120	240	779	527	440	289	237
11	172	190	92	88	110	130	258	665	595	409	287	221
12	168	190	92	88	120	140	246	560	682	398	288	214
13	162	190	92	84	120	150	264	492	750	422	286	208
14	159	183	90	82	120	150	280	469	805	459	280	205
15	155	170	90	80	130	160	298	468	804	447	274	206
16	150	160	94	84	130	160	298	493	723	426	271	199
17	150	150	90	88	120	150	292	523	629	421	285	189
18	155	150	86	88	120	150	350	561	538	413	325	180
19	152	140	84	90	120	140	313	655	504	405	355	171
20	149	140	80	90	130	140	258	813	518	411	354	165
21	146	130	78	94	130	150	235	1100	573	486	329	157
22	143	120	80	100	120	150	245	1340	634	623	306	153
23	150	120	80	110	120	150	292	1290	701	749	288	150
24	158	120	82	100	110	160	282	1190	789	693	272	148
25	151	130	86	100	120	160	237	1140	898	591	258	148
26	150	140	90	96	120	170	235	1210	1140	526	240	157
27	173	140	90	92	120	170	265	1340	1260	485	220	159
28	157	130	88	94	130	170	354	1300	1170	440	203	158
29	104	120	88	98	130	180	420	1070	999	414	187	153
30	110	110	88	100	---	190	488	876	919	396	180	151
31	110	---	88	110	---	190	---	748	---	381	178	---
TOTAL	5152	4383	2904	2876	3326	4650	8232	23729	22048	15876	8969	5702
MEAN	166	146	93.7	92.8	115	150	274	765	735	512	289	190
MAX	227	190	120	110	130	190	488	1340	1260	885	366	268
MIN	104	100	78	80	90	120	193	385	504	381	178	148
AC-FT	10220	8690	5760	5700	6600	9220	16330	47070	43730	31490	17790	11310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992, BY WATER YEAR (WY)												
MEAN	200	145	122	108	110	123	288	1027	1780	1259	543	302
MAX	433	223	182	176	166	240	600	1811	3813	2424	997	592
(WY)	1984	1983	1961	1967	1967	1932	1943	1956	1986	1975	1982	1963
MIN	102	89.2	70.0	50.0	60.0	70.0	129	269	610	399	213	150
(WY)	1989	1934	1933	1933	1933	1933	1970	1977	1934	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1932 - 1992	
ANNUAL TOTAL	177350		107847		--	
ANNUAL MEAN	486		295		502	
HIGHEST ANNUAL MEAN	--		--		768	1986
LOWEST ANNUAL MEAN	--		--		281	1977
HIGHEST DAILY MEAN	2910	Jun 14	1340	May 22, 27	5450	Jun 6 1986
LOWEST DAILY MEAN	78	Dec 21	78	Dec 21	36	Nov 26 1933
ANNUAL SEVEN-DAY MINIMUM	81	Dec 18	81	Dec 18	43	Nov 24 1933
INSTANTANEOUS PEAK FLOW	--		1400	May 22	5490 ^a	Jun 6 1986
INSTANTANEOUS PEAK STAGE	--		3.43	May 22	5.77	Jun 9 1972
ANNUAL RUNOFF (AC-FT)	351800		213900		363700	
10 PERCENT EXCEEDS	1450		678		1420	
50 PERCENT EXCEEDS	192		183		200	
90 PERCENT EXCEEDS	100		92		100	

a Gage height, 5.65 ft.

GREEN RIVER BASIN
09196500 PINE CREEK ABOVE FREMONT LAKE, WY

LOCATION.--Lat 43°01'50", long 109°46'10", in S $\frac{1}{2}$ sec.5, T.35 N., R.108 W., Sublette County, Hydrologic Unit 14040102, Bridger National Forest, on right bank 0.5 mi upstream from Fremont Lake, 0.5 mi downstream from Fremont Creek, and 1 $\frac{1}{2}$ mi northeast of Pinedale.

DRAINAGE AREA.--75.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WSP 1443: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,450 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 28-30, Nov. 3, 22, 23, Nov. 29 to Dec. 1, and Dec. 8-16, 21-23.

Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	0200	*1030	*5.18	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	43	30	19	9.8	9.9	14	190	439	322	111	48
2	75	42	29	19	9.7	9.9	14	173	466	297	104	46
3	69	43	28	19	9.5	10	17	196	513	266	100	42
4	64	43	27	18	9.2	10	20	240	518	237	98	46
5	60	43	26	18	9.2	10	21	307	467	210	96	48
6	58	45	24	17	9.1	11	20	351	379	194	92	49
7	55	44	24	17	8.9	11	20	391	321	186	90	52
8	53	43	24	16	8.9	11	20	440	293	180	87	52
9	52	43	23	16	8.5	11	21	520	273	175	85	54
10	49	43	22	16	8.4	10	22	480	289	167	84	57
11	47	42	22	15	8.4	10	22	384	337	158	82	58
12	44	42	21	15	8.4	10	23	341	383	158	80	60
13	41	41	21	14	8.6	11	25	345	405	161	77	62
14	39	42	22	14	8.9	11	29	347	373	157	75	61
15	38	41	22	14	9.1	11	33	392	331	154	72	60
16	37	40	21	14	9.0	12	34	418	297	148	70	58
17	35	39	21	14	8.7	12	39	490	281	142	70	57
18	33	40	21	13	8.8	11	40	553	297	138	69	55
19	32	39	20	13	9.1	12	39	723	296	134	67	53
20	31	39	20	13	9.3	12	40	901	350	134	67	51
21	30	38	20	13	9.9	12	42	984	393	159	69	49
22	29	36	20	13	9.8	12	44	980	390	184	70	47
23	33	34	20	13	9.9	11	45	877	385	199	69	46
24	32	33	20	12	10	12	43	793	384	201	68	46
25	31	29	20	12	9.7	12	42	862	465	188	66	45
26	32	31	20	11	9.7	12	46	930	523	173	63	43
27	37	32	19	11	9.6	12	61	890	507	159	60	41
28	40	33	20	11	9.7	13	85	759	439	147	56	40
29	41	32	19	10	9.8	13	126	604	370	136	53	40
30	41	31	19	10	---	13	182	501	344	128	51	39
31	42	---	19	10	---	13	---	459	---	119	50	---
TOTAL	1382	1166	684	440	267.6	350.8	1229	16821	11508	5511	2351	1505
MEAN	44.6	38.9	22.1	14.2	9.23	11.3	41.0	543	384	178	75.8	50.2
MAX	82	45	30	19	10	13	182	984	523	322	111	62
MIN	29	29	19	10	8.4	9.9	14	173	273	119	50	39
AC-FT	2740	2310	1360	873	531	696	2440	33360	22830	10930	4660	2990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1955	55.9	165	1984	9.60	1989
1956	33.0	71.8	1984	10.9	1989
1957	24.1	53.0	1978	6.73	1977
1958	19.2	37.6	1969	4.39	1977
1959	16.8	36.7	1969	4.66	1977
1960	16.4	35.0	1986	4.03	1977
1961	37.3	98.4	1962	12.0	1970
1962	286	579	1969	90.3	1975
1963	841	1476	1986	384	1992
1964	522	1142	1965	117	1988
1965	158	350	1968	44.0	1988
1966	89.2	209	1963	23.0	1988

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1955 - 1992
ANNUAL TOTAL	64331	43215.4	---
ANNUAL MEAN	176	118	175
HIGHEST ANNUAL MEAN	---	---	253
LOWEST ANNUAL MEAN	---	---	96.7
HIGHEST DAILY MEAN	1990	984	2280
LOWEST DAILY MEAN	11	8.4	3.3
ANNUAL SEVEN-DAY MINIMUM	12	8.6	3.4
INSTANTANEOUS PEAK FLOW	---	1030	2550a
INSTANTANEOUS PEAK STAGE	---	5.18	7.65
ANNUAL RUNOFF (AC-FT)	127600	85720	127000
10 PERCENT EXCEEDS	516	383	565
50 PERCENT EXCEEDS	39	42	42
90 PERCENT EXCEEDS	15	10	13

a Gage height, 7.15 ft.

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May and June 1987.

pH: March to July 1987.

WATER TEMPERATURE: March to June 1987, April 1989 to current year.

INSTRUMENTATION.--Water temperature recorder since March 1987, provides continuous recordings. Sensor is located in stream.

REMARKS.--Records represent water temperature at sensor within 0.2°C.

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, 18.4°C, Aug. 15, 1992; minimum recorded, 0.0°C, on many days during March, April 1987, Nov. 3, 1992.

EXTREMES FOR CURRENT YEAR:

WATER TEMPERATURE: Maximum recorded, 18.4°C, Aug. 15; minimum recorded, 0.0°C, Nov. 3.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.2	9.3	2.0	1.0	.2	.1	.5	.4	1.0	.6	1.7	1.0
2	11.7	8.8	1.5	.3	.3	.1	.5	.4	1.0	.7	1.8	1.0
3	10.6	7.7	2.0	.0	.3	.1	.6	.4	1.0	.7	1.8	1.0
4	9.5	6.9	2.6	.7	.4	.1	.6	.4	1.0	.7	1.7	1.1
5	10.0	6.4	3.3	1.6	1.0	.2	.6	.5	1.0	.8	1.5	1.1
6	10.4	6.6	3.7	1.8	1.4	.6	.7	.5	1.0	.7	2.0	1.1
7	10.5	7.2	3.1	1.3	1.2	.9	.9	.6	1.0	.7	1.9	1.1
8	10.2	7.1	3.5	1.5	.9	.1	1.0	.7	1.0	.7	2.1	1.1
9	10.1	6.9	3.7	2.7	.3	.1	.9	.6	1.2	.9	2.3	1.0
10	10.6	7.3	3.5	1.9	.6	.1	.9	.7	1.3	1.0	2.3	.9
11	10.7	7.6	2.9	1.3	.3	.1	.8	.5	1.5	1.1	3.0	.9
12	10.2	7.4	3.1	1.3	.3	.1	.9	.7	1.4	1.2	4.1	1.1
13	9.2	6.6	3.1	2.4	.3	.1	.7	.4	1.4	1.1	5.0	1.0
14	9.7	6.2	3.0	1.9	.3	.1	.7	.5	1.4	1.0	5.7	.9
15	9.7	6.4	2.8	1.4	.3	.1	.7	.6	1.3	1.0	5.5	1.2
16	9.6	6.3	2.6	.9	.3	.1	.7	.4	1.3	1.1	5.1	1.3
17	7.9	6.8	2.3	.6	.4	.1	.7	.5	1.4	1.1	3.3	1.3
18	7.6	5.1	2.3	.8	.5	.1	.7	.5	1.2	.8	2.0	1.1
19	7.1	5.0	2.0	.5	.9	.5	.7	.5	1.0	.7	3.8	.7
20	7.8	4.8	1.9	.4	.5	.1	.6	.4	1.0	.9	5.6	.7
21	7.7	5.0	1.6	.2	.4	.1	.6	.5	1.3	.8	5.1	1.1
22	6.7	5.6	.5	.1	.4	.2	.6	.5	1.3	1.0	5.1	1.0
23	5.9	4.1	.3	.1	.4	.2	.7	.4	1.1	.7	4.2	.9
24	5.4	3.3	.6	.1	.5	.2	.8	.6	1.0	.7	4.3	.9
25	4.3	3.5	1.4	.4	.5	.3	.9	.6	1.2	.7	5.8	.5
26	4.1	3.2	1.4	.1	.5	.3	.8	.6	1.1	.7	5.3	1.1
27	3.7	2.4	1.0	.5	.5	.4	.8	.6	1.4	.7	4.4	1.8
28	2.7	1.3	1.4	.4	.5	.3	.9	.6	1.5	.8	5.9	1.1
29	2.8	.9	.9	.1	.5	.3	.9	.7	1.6	.8	6.3	1.8
30	2.4	.6	.3	.1	.5	.3	.9	.6	---	---	6.5	1.7
31	2.7	.8	---	---	.5	.3	.9	.7	---	---	5.3	1.8
MONTH	12.2	.6	3.7	.0	1.4	.1	1.0	.4	1.6	.6	6.5	.5

GREEN RIVER BASIN

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.6	1.6	4.2	2.6	8.6	6.2	11.7	10.6	16.7	13.9	14.3	12.2
2	7.0	1.7	5.9	2.0	9.1	6.8	11.8	10.5	17.1	14.1	14.9	11.6
3	7.5	1.9	6.3	2.4	8.6	7.2	12.2	10.3	16.6	14.5	14.3	11.5
4	4.5	1.7	6.5	2.7	9.1	7.2	12.7	11.0	17.0	14.0	12.8	11.7
5	5.2	1.9	6.7	3.0	9.2	7.5	13.7	10.9	16.3	13.8	11.6	10.7
6	5.4	1.1	6.1	3.3	9.4	7.4	13.7	11.4	16.8	14.2	11.1	10.0
7	5.1	.7	5.9	3.7	9.8	8.1	13.2	11.3	17.1	13.9	11.8	8.7
8	3.7	1.8	6.6	3.7	10.2	8.3	13.0	10.8	17.5	14.1	10.9	9.1
9	3.8	2.2	5.5	4.1	10.6	8.6	13.5	11.2	17.7	14.3	12.7	9.3
10	4.0	2.1	5.9	4.0	11.2	8.9	13.7	11.2	17.8	14.3	12.8	9.7
11	5.4	1.9	6.4	4.1	10.8	9.4	12.9	11.6	17.9	14.4	12.1	10.4
12	6.1	2.6	6.5	3.7	11.4	9.4	13.8	11.2	18.0	14.6	11.6	10.6
13	7.0	2.5	6.1	4.2	10.6	9.2	13.2	10.8	17.8	14.8	11.6	9.1
14	5.6	2.7	6.8	4.1	10.1	9.4	13.9	11.3	18.0	15.0	11.5	8.7
15	6.0	2.5	6.4	4.3	9.7	8.3	14.5	11.3	18.4	15.0	12.4	9.5
16	6.0	2.4	7.2	4.7	8.6	7.7	14.8	11.5	17.5	15.8	12.3	9.6
17	3.6	2.0	7.2	4.1	10.4	7.6	15.3	12.1	16.4	15.0	12.1	9.8
18	3.3	1.7	7.6	4.9	10.9	8.6	15.9	12.6	17.7	14.5	12.3	9.3
19	6.5	1.5	7.4	4.9	11.5	9.4	15.8	13.6	17.9	14.2	12.3	9.4
20	6.9	1.7	7.0	5.6	11.7	9.2	14.9	13.0	17.0	14.6	12.3	9.6
21	6.0	2.3	6.7	5.3	12.1	9.8	13.8	12.6	17.2	14.6	12.6	9.8
22	5.8	2.2	6.9	5.4	12.7	10.9	14.8	12.0	16.1	14.9	12.8	9.7
23	5.5	1.9	7.4	5.5	13.2	10.9	14.9	12.8	16.3	13.8	12.9	10.1
24	6.9	1.6	7.4	5.9	13.3	11.7	14.9	13.1	15.9	12.6	11.8	9.9
25	6.7	2.0	7.2	5.7	12.5	11.5	15.3	12.9	14.5	12.6	10.1	8.9
26	8.5	2.7	7.4	5.9	12.3	11.4	15.7	13.0	15.1	11.7	10.7	8.0
27	7.6	3.1	7.2	5.9	12.3	11.0	16.1	13.0	15.3	11.7	11.0	8.3
28	6.5	2.4	7.3	5.6	13.2	11.0	16.1	13.4	15.0	12.0	10.9	8.1
29	6.2	2.4	7.4	6.3	12.7	11.8	16.3	13.4	14.8	11.8	11.3	8.4
30	5.0	2.2	7.6	6.1	12.0	10.9	16.5	13.3	14.2	11.8	11.7	8.8
31	---	---	8.4	6.3	---	---	16.7	13.6	13.5	12.4	---	---
MONTH	8.5	.7	8.4	2.0	13.3	6.2	16.7	10.3	18.4	11.7	14.9	8.0

LOCATION.--Lat 42°53'41", long 109°51'10", in NE¼ NE¼ NW¼ sec.27, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on right bank 1.1 mi downstream from headgate on Pine Creek and 1.5 mi northeast of Pinedale.
PERIOD OF RECORD.--April 1985 to September 1986, April 1988 to current year (no winter records).
GAGE.--Water-stage recorder. Elevation of gage is 7,400 ft above National Geodetic Vertical Datum of 1929, from topographic map.
REMARKS.-- Estimated daily discharges: Apr. 1-22 and Sept. 23-30. Records good. Ditch diverts water from right bank of Pine Creek for irrigation downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	2.0	17	22	6.5	.65
2	---	---	---	---	---	---	.00	2.0	17	22	2.8	.62
3	---	---	---	---	---	---	.00	1.9	17	22	2.8	.62
4	---	---	---	---	---	---	.00	1.9	17	22	2.8	.63
5	---	---	---	---	---	---	.00	1.7	17	22	2.8	.60
6	---	---	---	---	---	---	.00	1.6	17	21	2.8	.60
7	---	---	---	---	---	---	.00	1.5	16	21	2.7	.60
8	---	---	---	---	---	---	.00	1.6	18	20	2.7	.58
9	---	---	---	---	---	---	.00	1.6	20	20	2.6	.57
10	---	---	---	---	---	---	.00	1.7	20	20	2.6	.54
11	---	---	---	---	---	---	.00	1.8	22	20	2.6	.54
12	---	---	---	---	---	---	.00	4.2	22	19	2.5	.54
13	---	---	---	---	---	---	.00	9.2	22	22	2.5	.54
14	---	---	---	---	---	---	.00	9.3	21	24	1.2	.53
15	---	---	---	---	---	---	.00	9.6	22	24	1.1	.51
16	---	---	---	---	---	---	.00	9.9	22	23	1.1	.51
17	---	---	---	---	---	---	.00	12	21	19	1.1	.51
18	---	---	---	---	---	---	.00	16	21	11	1.1	.52
19	---	---	---	---	---	---	.00	16	21	11	1.1	.52
20	---	---	---	---	---	---	.00	17	21	11	1.1	.53
21	---	---	---	---	---	---	.00	18	21	12	1.1	.54
22	---	---	---	---	---	---	.60	18	21	12	1.1	.48
23	---	---	---	---	---	---	.77	18	21	12	1.1	.00
24	---	---	---	---	---	---	.74	18	21	12	1.1	.00
25	---	---	---	---	---	---	.66	18	22	11	1.1	.00
26	---	---	---	---	---	---	.69	18	22	12	1.0	.00
27	---	---	---	---	---	---	1.4	18	23	12	1.0	.00
28	---	---	---	---	---	---	1.3	18	23	12	.92	.00
29	---	---	---	---	---	---	1.2	18	23	11	.88	.00
30	---	---	---	---	---	---	1.7	18	23	11	.86	.00
31	---	---	---	---	---	---	---	18	---	11	.86	---
TOTAL	---	---	---	---	---	---	9.06	320.5	611	524	57.52	12.28
MEAN	---	---	---	---	---	---	.30	10.3	20.4	16.9	1.86	.41
MAX	---	---	---	---	---	---	1.7	18	23	24	6.5	.65
MIN	---	---	---	---	---	---	.00	1.5	16	11	.86	.00
AC-FT	---	---	---	---	---	---	18	636	1210	1040	114	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	.27	8.07	21.1	18.8	2.46	3.18
MAX	---	---	---	---	---	---	1.21	13.6	27.2	23.8	5.41	9.38
(WY)	---	---	---	---	---	---	1985	1990	1989	1986	1988	1989
MIN	---	---	---	---	---	---	.000	3.36	16.5	14.0	.45	.19
(WY)	---	---	---	---	---	---	1986	1986	1985	1985	1985	1985

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*			WATER YEARS 1985 - 1992*		
HIGHEST DAILY MEAN	24	Jul 14,15		33	Jun 14 1989	
LOWEST DAILY MEAN	.00	Many days		.00	Many days	
ANNUAL SEVEN-DAY MINIMUM	.00	Many days		.00	Many days	
INSTANTANEOUS PEAK FLOW	25	Jul 13		36	Jul 11 1988	
INSTANTANEOUS PEAK STAGE	2.20	Jul 13		2.37	Jul 11 1988	
10 PERCENT EXCEEDS	--			25		
50 PERCENT EXCEEDS	--			3.6		
90 PERCENT EXCEEDS	--			.00		

* During period of operation.

GREEN RIVER BASIN
09196960 HIGHLAND DITCH NEAR PINEDALE, WY

LOCATION.--Lat 42°53'56", long 109°50'18", in NW¼ SW¼ SW¼ sec.23, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on left bank 60 ft downstream from headgate on Pine Creek and 2.2 mi northeast of Pinedale.

PERIOD OF RECORD.--April 1985 to September 1986, April 1988 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 1-24 and Sept. 2-16. Records fair except those for estimated daily discharges, which are poor. Ditch diverts water from left bank of Pine Creek for irrigation downstream. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 9 . . . 40.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.27	28	198	187	36	37
2	---	---	---	---	---	---	.27	30	191	167	36	38
3	---	---	---	---	---	---	.27	31	188	152	36	38
4	---	---	---	---	---	---	.27	31	185	146	35	37
5	---	---	---	---	---	---	.27	32	196	140	35	37
6	---	---	---	---	---	---	.27	36	197	134	35	37
7	---	---	---	---	---	---	.27	38	187	129	35	37
8	---	---	---	---	---	---	.27	41	177	123	34	37
9	---	---	---	---	---	---	.27	45	168	118	41	37
10	---	---	---	---	---	---	.27	49	161	114	43	36
11	---	---	---	---	---	---	.27	57	158	115	43	36
12	---	---	---	---	---	---	.27	53	161	117	43	36
13	---	---	---	---	---	---	.27	58	161	113	43	36
14	---	---	---	---	---	---	.27	72	166	109	43	36
15	---	---	---	---	---	---	.27	88	175	105	42	36
16	---	---	---	---	---	---	.27	101	173	102	42	36
17	---	---	---	---	---	---	.27	108	169	109	42	35
18	---	---	---	---	---	---	.27	137	164	123	42	33
19	---	---	---	---	---	---	.27	164	163	120	42	33
20	---	---	---	---	---	---	.27	183	161	122	41	33
21	---	---	---	---	---	---	.27	202	163	104	41	32
22	---	---	---	---	---	---	.27	215	167	65	40	32
23	---	---	---	---	---	---	.27	220	169	63	40	32
24	---	---	---	---	---	---	8.0	221	171	61	40	32
25	---	---	---	---	---	---	11	222	180	48	40	32
26	---	---	---	---	---	---	14	227	190	38	40	33
27	---	---	---	---	---	---	20	229	199	37	39	33
28	---	---	---	---	---	---	22	228	201	37	39	32
29	---	---	---	---	---	---	24	222	197	36	38	32
30	---	---	---	---	---	---	26	216	193	36	38	31
31	---	---	---	---	---	---	---	206	---	36	39	---
TOTAL	---	---	---	---	---	---	131.21	3790	5329	3106	1223	1042
MEAN	---	---	---	---	---	---	4.37	122	178	100	39.5	34.7
MAX	---	---	---	---	---	---	26	229	201	187	43	38
MIN	---	---	---	---	---	---	.27	28	158	36	34	31
AC-FT	---	---	---	---	---	---	260	7520	10570	6160	2430	2070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1985	2.22	5.11	1988	.043	1986
1986	61.8	122	1989	19.6	1986
1987	189	215	1989	162	1991
1988	120	164	1989	87.0	1988
1989	34.0	39.5	1992	23.0	1985
1990	32.0	48.4	1991	16.9	1988

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN

FOR 1992 WATER YEAR*

229 May 27
.27 Apr 1-23

WATER YEARS 1985 - 1992*

279 Jun 28 1990
.00 Many days,

ANNUAL SEVEN-DAY MINIMUM

--

.00 Many days,

INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE

231 May 27
4.42 May 27

281 Jun 28 1990
4.56 Jun 28 1990

10 PERCENT EXCEEDS

--

193

50 PERCENT EXCEEDS

--

38

90 PERCENT EXCEEDS

--

.27

* During period of operation.

GREEN RIVER BASIN
09197000 PINE CREEK BELOW FREMONT LAKE, WY

371

LOCATION.--Lat 42°53'42", long 109°50'35", in NE¼ NE¼ NE¼ sec.27, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on left bank at Lot Number 93, 0.9 mi downstream from Fremont Lake, and 2.1 mi northeast of Pinedale.

DRAINAGE AREA.--114 mi².

PERIOD OF RECORD.--October 1910 to September 1912, October 1915 to September 1918, April 1985 to September 1986, April 1988 to current year, (no winter records since 1918). Published as "near Pinedale" prior to October 1912 and as "at Fremont Lake outlet" October 1915 to September 1918. Records since April 1985 equivalent to earlier records if diversions to Highland Ditch (station 09196960) is added to flow past station.

GAGE.--Water-stage recorder. Elevation of gage is 7,390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to September 30, 1918, nonrecording gage at site 0.2 mi upstream at different datum.

REMARKS.--Estimated daily discharge: Apr. 1-6. Records good. Some regulation by Fremont Lake. Fremont Ditch (station 09196940) and Highland Ditch (station 09196960) divert water upstream from station for irrigation downstream from station. Result of discharge measurement, in cubic feet per second, made while gage was not in operation is given below:

Oct. 9 . . . 44.1

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	24	15	388	183	76	57
2	---	---	---	---	---	---	24	14	359	186	78	53
3	---	---	---	---	---	---	24	15	344	175	77	51
4	---	---	---	---	---	---	24	15	337	155	74	50
5	---	---	---	---	---	---	24	16	322	137	71	48
6	---	---	---	---	---	---	24	17	299	122	70	46
7	---	---	---	---	---	---	24	17	263	109	67	45
8	---	---	---	---	---	---	24	18	227	99	65	42
9	---	---	---	---	---	---	24	19	201	90	60	41
10	---	---	---	---	---	---	25	22	184	83	55	40
11	---	---	---	---	---	---	24	28	171	75	53	40
12	---	---	---	---	---	---	24	40	175	70	51	39
13	---	---	---	---	---	---	24	53	173	65	50	36
14	---	---	---	---	---	---	24	62	170	59	50	36
15	---	---	---	---	---	---	24	81	180	55	48	35
16	---	---	---	---	---	---	24	102	173	51	48	34
17	---	---	---	---	---	---	24	127	165	57	47	34
18	---	---	---	---	---	---	23	148	155	76	47	34
19	---	---	---	---	---	---	23	186	152	71	45	33
20	---	---	---	---	---	---	23	256	148	73	45	32
21	---	---	---	---	---	---	23	334	151	97	44	32
22	---	---	---	---	---	---	23	400	158	109	42	31
23	---	---	---	---	---	---	23	441	162	97	42	31
24	---	---	---	---	---	---	21	454	165	89	41	31
25	---	---	---	---	---	---	20	465	178	79	40	30
26	---	---	---	---	---	---	19	499	200	89	39	29
27	---	---	---	---	---	---	17	519	221	85	39	29
28	---	---	---	---	---	---	16	525	224	80	38	28
29	---	---	---	---	---	---	16	509	212	78	36	28
30	---	---	---	---	---	---	15	471	198	76	36	27
31	---	---	---	---	---	---	---	428	---	76	45	---
TOTAL	---	---	---	---	---	---	671	6296	6455	2946	1619	1122
MEAN	---	---	---	---	---	---	22.4	203	215	95.0	52.2	37.4
MAX	---	---	---	---	---	---	25	525	388	186	78	57
MIN	---	---	---	---	---	---	15	14	148	51	36	27
AC-FT	---	---	---	---	---	---	1330	12490	12800	5840	3210	2230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1918, BY WATER YEAR (WY)

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
MEAN	63.2	36.8	27.5	23.3	24.3	26.2	35.1	97.1	857	939	246	91.4
MAX	86.2	40.0	34.2	26.3	33.0	36.0	45.0	130	1273	1258	300	131
(WY)	1916	1911	1918	1918	1916	1916	1918	1916	1918	1917	1917	1917
MIN	49.9	30.0	20.0	20.0	18.0	20.0	27.0	81.4	552	665	203	54.6
(WY)	1917	1917	1917	1916	1917	1917	1917	1912	1917	1912	1911	1911

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1911 - 1918
ANNUAL MEAN	--	197
HIGHEST ANNUAL MEAN	--	211
LOWEST ANNUAL MEAN	--	183
HIGHEST DAILY MEAN	525 May 28	2330 Jun 17 1918
LOWEST DAILY MEAN	14 May 2	9.6 Apr 23 1990#
ANNUAL SEVEN-DAY MINIMUM	--	18 Feb 1 1917
INSTANTANEOUS PEAK FLOW	530 May 27	2330 Jun 17 1918#
INSTANTANEOUS PEAK STAGE	2.94 MAY 27	--
ANNUAL RUNOFF (AC-FT)	--	143000
10 PERCENT EXCEEDS	--	675
50 PERCENT EXCEEDS	--	40
90 PERCENT EXCEEDS	--	20

* During period of operation.

For period of record through 1992.

DRAINAGE AREA.--79.2 mi².

GAGE.--Water-stage recorder. Elevation of gage is 7,800 ft above National Geodetic Vertical Datum of 1929, by barometer.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	2100	*417	*4.64	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

	1983, 1984				1985, 1986				1987, 1988				1989, 1990				1991, 1992				1993, 1994				1995, 1996				1997, 1998				1999, 2000				2001, 2002				2003, 2004				2005, 2006				2007, 2008				2009, 2010				2011, 2012				2013, 2014				2015, 2016				2017, 2018				2019, 2020				2021, 2022				2023, 2024				2025, 2026				2027, 2028				2029, 2030				2031, 2032				2033, 2034				2035, 2036				2037, 2038				2039, 2040				2041, 2042				2043, 2044				2045, 2046				2047, 2048				2049, 2050				2051, 2052				2053, 2054				2055, 2056				2057, 2058				2059, 2060				2061, 2062				2063, 2064				2065, 2066				2067, 2068				2069, 2070				2071, 2072				2073, 2074				2075, 2076				2077, 2078				2079, 2080				2081, 2082				2083, 2084				2085, 2086				2087, 2088				2089, 2090				2091, 2092				2093, 2094				2095, 2096				2097, 2098				2099, 2100				2101, 2102				2103, 2104				2105, 2106				2107, 2108				2109, 2110				2111, 2112				2113, 2114				2115, 2116				2117, 2118				2119, 2120				2121, 2122				2123, 2124				2125, 2126				2127, 2128				2129, 2130				2131, 2132				2133, 2134				2135, 2136				2137, 2138				2139, 2140				2141, 2142				2143, 2144				2145, 2146				2147, 2148				2149, 2150				2151, 2152				2153, 2154				2155, 2156				2157, 2158				2159, 2160				2161, 2162				2163, 2164				2165, 2166				2167, 2168				2169, 2170				2171, 2172				2173, 2174				2175, 2176				2177, 2178				2179, 2180				2181, 2182				2183, 2184				2185, 2186				2187, 2188				2189, 2190				2191, 2192				2193, 2194				2195, 2196				2197, 2198				2199, 2200				2201, 2202				2203, 2204				2205, 2206				2207, 2208				2209, 2210				2211, 2212				2213, 2214				2215, 2216				2217, 2218				2219, 2220				2221, 2222				2223, 2224				2225, 2226				2227, 2228				2229, 2230				2231, 2232				2233, 2234				2235, 2236				2237, 2238				2239, 2240				2241, 2242				2243, 2244				2245, 2246				2247, 2248				2249, 2250				2251, 2252				2253, 2254				2255, 2256				2257, 2258				2259, 2260				2261, 2262				2263, 2264				2265, 2266				2267, 2268				2269, 2270				2271, 2272				2273, 2274				2275, 2276				2277, 2278				2279, 2280				2281, 2282				2283, 2284				2285, 2286				2287, 2288				2289, 2290				2291, 2292				2293, 2294				2295, 2296				2297, 2298				2299, 2300				2301, 2302				2303, 2304				2305, 2306				2307, 2308				2309, 2310				2311, 2312				2313, 2314				2315, 2316				2317, 2318				2319, 2320				2321, 2322				2323, 2324				2325, 2326				2327, 2328				2329, 2330				2331, 2332				2333, 2334				2335, 2336				2337, 2338				2339, 2340				2341, 2342				2343, 2344				2345, 2346				2347, 2348				2349, 2350				2351, 2352				2353, 2354				2355, 2356				2357, 2358				2359, 2360				2361, 2362				2363, 2364				2365, 2366				2367, 2368				2369, 2370				2371, 2372				2373, 2374				2375, 2376				2377, 2378				2379, 2380				2381, 2382				2383, 2384				2385, 2386				2387, 2388				2389, 2390				2391, 2392				2393, 2394				2395, 2396				2397, 2398				2399, 2400				2401, 2402				2403, 2404				2405, 2406				2407, 2408				2409, 2410				2411, 2412				2413, 2414				2415, 2416				2417, 2418				2419, 2420				2421, 2422				2423, 2424				2425, 2426				2427, 2428				2429, 2430				2431, 2432				2433, 2434				2435, 2436				2437, 2438				2439, 2440				2441, 2442				2443, 2444				2445, 2446				2447, 2448				2449, 2450				2451, 2452				2453, 2454				2455, 2456				2457, 2458				2459, 2460				2461, 2462				2463, 2464				2465, 2466				2467, 2468				2469, 2470				2471, 2472				2473, 2474				2475, 2476				2477, 2478				2479, 2480				2481, 2482				2483, 2484				2485, 2486				2487, 2488				2489, 2490				2491, 2492				2493, 2494				2495, 2496				2497, 2498				2499, 2500				2501, 2502				2503, 2504				2505, 2506				2507, 2508				2509, 2510				2511, 2512				2513, 2514				2515, 2516				2517, 2518				2519, 2520				2521, 2522				2523, 2524				2525, 2526				2527, 2528				2529, 2530				2531, 2532				2533, 2534				2535, 2536				2537, 2538				2539, 2540				2541, 2542				2543, 2544				2545, 2546				2547, 2548				2549, 2550				2551, 2552				2553, 2554				2555, 2556				2557, 2558				2559, 2560				2561, 2562				2563, 2564				2565, 2566				2567, 2568				2569, 2570				2571, 2572				2573, 2574				2575, 2576				2577, 2578				2579, 2580				2581, 2582				2583, 2584				2585, 2586				2587, 2588				2589, 2590				2591, 2592				2593, 2594				2595, 2596				2597, 2598				2599, 2600				2601, 2602				2603, 2604				2605, 2606				2607, 2608				2609, 2610				2611, 2612				2613, 2614				2615, 2616				2617, 2618				2619, 2620				2621, 2622				2623, 2624				2625, 2626				2627, 2628				2629, 2630				2631, 2632				2633, 2634				2635, 2636				2637, 2638				2639, 2640				2641, 2642				2643, 2644				2645, 2646				2647, 2648				2649, 2650				2651, 2652				2653, 2654				2655, 2656				2657, 2658				2659, 2660				2661, 2662				2663, 2664				2665, 2666				2667, 2668				2669, 2670				2671, 2672				2673, 2674				2675, 2676				2677, 2678				2679, 2680				2681, 2682				2683, 2684				2685, 2686				2687, 2688				2689, 2690				2691, 2692				2693, 2694				2695, 2696				2697, 2698				2699, 2700				2701, 2702				2703, 2704				2705, 2706				2707, 2708				2709, 2710				2711, 2712				2713, 2714				2715, 2716				2717, 2718				2719, 2720				2721, 2722				2723, 2724				2725, 2726				2727, 2728				2729, 2730				2731, 2732				2733, 2734				2735, 2736				2737, 2738				2739, 2740				2741, 2742				2743, 2744				2745, 2746				2747, 2748				2749, 2750				2751, 2752				2753, 2754				2755, 2756				2757, 2758				2759, 2760				2761, 2762				2763, 2764				2765, 2766				2767, 2768				2769, 2770				2771, 2772				2773, 2774				2775, 2776				2777, 2778				2779, 2780				2781, 2782				2783, 2784				2785, 2786				2787, 2788				2789, 2790				2791, 2792				2793, 2794				2795, 2796				2797, 2798				2799, 2800				2801, 2802				2803, 2804				2805, 2806				2807, 2808				2809, 2810				2811, 2812				2813, 2814				2815, 2816				2817, 2818				2819, 2820				2821, 2822				2823, 2824				2825, 2826				2827, 2828				2829, 2830				2831, 2832				2833, 2834				2835, 2836				2837, 2838				2839, 2840				2841, 2842				2843, 2844				2845, 2846				2847, 2848				2849, 2850				2851, 2852				2853, 2854				2855, 2856				2857, 2858				2859, 2860				2861, 2862				2863, 2864				2865, 2866				2867, 2868				2869, 2870				2871, 2872				2873, 2874				2875, 2876				2877, 2878				2879, 2880				2881, 2882				2883, 2884				2885, 2886				2887, 2888				2889, 2890				2891, 2892				2893, 2894				2895, 2896				2897, 2898				2899, 2900				2901, 2902				2903, 2904				2905, 2906				2907, 2908				2909, 2910				2911, 2912				2913, 2914				2915, 2916				2917, 2918				2919, 2920				2921, 2922				2923, 2924				2925, 2926				2927, 2928				2929, 2930				2931, 2932				2933, 2934				2935, 2936				2937, 2938				2939, 2940				2941, 2942				2943, 2944				2945, 2946				2947, 2948				2949, 2950				2951, 2952				2953, 2954				2955, 2956				2957, 2958				2959, 2960				2961, 2962				2963, 2964				2965, 2966				2967, 2968				2969, 2970				2971, 2972				2973, 2974				2975, 2976				2977, 2978				2979, 2980				2981, 2982				2983, 2984				2985, 2986				2987, 2988				2989, 2990				2991, 2992				2993, 2994				2995, 2996				2997, 2998				2999, 3000			
MEAN	21.2	15.5	11.8	10.3	9.98	11.1	36.2	330	547	179	38.4	22.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1939 - 1992		
ANNUAL TOTAL	37580.5			19363.1			--		
ANNUAL MEAN	103			52.9			103		
HIGHEST ANNUAL MEAN	--			--			178		
LOWEST ANNUAL MEAN	--			--			42.4		
HIGHEST DAILY MEAN	1090	Jun	3	391	May	22	2120	Jun	2 1986
LOWEST DAILY MEAN	6.8	Mar	9	6.0	Aug	31	1.1	Jan	1 1940
ANNUAL SEVEN-DAY MINIMUM	7.2	Mar	6	6.6	Aug	28	1.1	Jan	1 1940
INSTANTANEOUS PEAK FLOW	--			417			2330a		
INSTANTANEOUS PEAK STAGE	--			4.64			7.16		
ANNUAL RUNOFF (AC-FT)	74540			38410			74430		
10 PERCENT EXCEEDS	361			171			335		
50 PERCENT EXCEEDS	16			13			17		
90 PERCENT EXCEEDS	7.8			7.4			6.3		

a Gage height, 7.00 ft.

GREEN RIVER BASIN
09205000 NEW FORK RIVER NEAR BIG PINEY, WY

373

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼ NE¼ NE¼ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 350 ft downstream from old highway bridge, 3.4 mi upstream from mouth, and 9.5 mi northeast of Big Piney.

DRAINAGE AREA.--1,230 mi², approximately.

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,800 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 7 and Nov. 19 to Mar. 18. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	350	250	210	220	330	270	468	1000	713	411	236
2	383	320	240	210	220	340	270	596	899	877	394	241
3	377	310	240	210	230	340	264	650	798	922	379	241
4	369	310	250	210	220	340	258	683	745	855	368	251
5	368	330	250	210	220	330	252	720	721	794	368	293
6	368	360	260	220	210	320	242	831	706	713	368	292
7	368	380	280	230	210	320	224	968	683	665	356	279
8	368	403	270	230	210	330	212	1050	646	666	344	264
9	368	401	260	230	220	330	213	1110	631	601	334	255
10	364	421	250	230	230	330	215	1170	611	569	322	255
11	356	419	240	220	240	340	215	1090	588	538	301	255
12	356	397	240	220	230	350	215	937	564	567	300	255
13	356	393	240	210	230	360	218	797	552	709	291	255
14	347	392	250	200	240	350	219	740	515	716	277	252
15	345	392	240	200	250	340	221	683	530	657	267	248
16	345	372	240	210	250	330	227	682	656	578	259	240
17	345	346	230	220	250	330	240	686	728	534	283	230
18	352	371	230	210	240	330	241	682	739	497	300	223
19	357	340	230	200	240	350	241	706	662	490	296	223
20	367	340	240	190	240	310	242	784	650	506	273	222
21	374	330	230	197	250	292	245	934	665	588	262	219
22	374	280	220	200	270	291	255	1240	648	654	260	219
23	449	270	210	200	280	275	275	1510	606	655	260	219
24	467	270	220	210	280	273	283	1540	590	626	251	220
25	410	270	220	220	290	273	285	1460	620	576	250	228
26	397	280	220	210	290	271	282	1480	883	549	245	231
27	394	280	220	200	300	272	270	1500	936	531	236	228
28	419	290	220	210	300	280	274	1480	868	502	235	225
29	413	280	210	210	310	278	290	1420	788	488	227	219
30	370	270	210	210	---	275	344	1310	746	473	227	217
31	350	---	210	210	---	271	---	1130	---	440	227	---
TOTAL	11668	10167	7320	6547	7170	9751	7502	31037	20974	19249	9171	7235
MEAN	376	339	236	211	247	315	250	1001	699	621	296	241
MAX	467	421	280	230	310	360	344	1540	1000	922	411	293
MIN	345	270	210	190	210	271	212	468	515	440	227	217
AC-FT	23140	20170	14520	12990	14220	19340	14880	61560	41600	38180	18190	14350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

	MEAN	381	323	242	198	207	262	444	1099	3002	1631	579	376
MAX	989	608	397	277	337	597	1114	2539	7064	4155	1279	766	
(WY)	1983	1984	1983	1969	1969	1972	1969	1969	1986	1982	1982	1983	
MIN	171	188	139	129	135	161	181	254	699	405	225	164	
(WY)	1989	1989	1989	1963	1989	1977	1981	1977	1992	1961	1988	1988	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1954 - 1992
ANNUAL TOTAL	277461	147791	--
ANNUAL MEAN	760	404	729
HIGHEST ANNUAL MEAN	--	--	1288
LOWEST ANNUAL MEAN	--	--	313
HIGHEST DAILY MEAN	6790	1540	9110
LOWEST DAILY MEAN	170	190	90
ANNUAL SEVEN-DAY MINIMUM	174	201	104
INSTANTANEOUS PEAK FLOW	--	1560a	9190
INSTANTANEOUS PEAK STAGE	--	4.12b	8.28
ANNUAL RUNOFF (AC-FT)	550300	293100	528400
10 PERCENT EXCEEDS	1870	723	1820
50 PERCENT EXCEEDS	356	292	328
90 PERCENT EXCEEDS	210	219	185

a Gage height 3.78 ft.
b Backwater from ice.

GREEN RIVER BASIN

09207700 DRY PINEY CREEK NEAR BIG PINEY, WY

LOCATION.--Lat 42°23'25", long 110°15'09", in NW¼ NE¼ sec.27, T.28 N., R.113 W., Sublette County, Hydrologic Unit 14040101, 8.3 mi upstream from mouth and 16.3 southwest of Big Piney.

DRAINAGE AREA.--67 mi², approximately.

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

REMARKS.--No flow observed Mar. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)
MAR 19...	1605	0.0	--	--	--	--	--	--	--	--
APR 07...	1830	0.02	725	8.6	8.5	8.5	580	8.8	99	320
MAY 07...	1430	0.10	750	8.6	14.0	6.5	584	7.7	98	330
JUN 10...	1800	0.15	969	8.8	16.0	19	581	8.0	107	300

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
MAR 19...	--	--	--	--	--	--	--	--	--	--
APR 07...	58	42	34	0.8	2.2	260	33	61	0.2	7.1
MAY 07...	53	48	43	1	2.5	260	40	81	0.2	6.8
JUN 10...	35	51	97	2	3.9	240	49	140	0.3	2.3

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
MAR 19...	--	--	--	--	--	--	--	--	--
APR 07...	393	0.54	0.02	<0.1	<0.03	28	0.00	100	<1
MAY 07...	430	0.59	0.12	<0.1	<0.03	243	0.07	99	<1
JUL 10...	522	0.71	0.21	<0.1	<0.03	94	0.04	--	<1

GREEN RIVER BASIN
09209400 GREEN RIVER NEAR LA BARGE, WY

375

LOCATION.--Lat 42°11'34", long 110°09'45", in SE¼ SE¼ NW¼ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft, 4.0 mi upstream from Muddy Creek, and 5.0 mi south of La Barge.
DRAINAGE AREA.--3,910 mi², approximately.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 1-8 and Nov. 19 to Mar. 18. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	741	640	480	430	420	780	844	600	1570	1400	872	381
2	725	600	470	430	430	820	833	797	1390	1550	837	387
3	694	580	470	440	430	860	819	908	1210	1620	807	385
4	670	580	490	450	430	900	815	933	1090	1520	773	395
5	652	620	500	450	410	940	840	944	1050	1350	749	445
6	625	700	520	460	400	900	858	953	1020	1180	738	479
7	641	780	540	460	390	920	792	1090	996	1010	712	461
8	637	860	540	460	390	940	682	1240	952	918	683	453
9	627	926	520	450	400	900	619	1380	873	868	635	456
10	625	972	520	450	420	900	592	1580	827	810	599	451
11	627	978	500	440	430	920	592	1610	807	758	570	443
12	636	846	480	430	450	940	601	1400	785	763	541	456
13	626	830	460	410	460	980	601	1190	749	899	528	463
14	612	860	450	410	480	1000	577	1040	737	1030	501	461
15	596	826	450	410	490	1100	580	914	772	1000	476	448
16	587	767	460	410	500	1100	595	845	963	936	465	437
17	574	729	460	420	520	1100	605	833	1150	851	490	430
18	578	691	450	420	500	1200	596	837	1180	804	530	419
19	608	680	450	400	500	1030	591	817	1040	811	545	423
20	620	700	460	380	540	906	614	864	913	842	552	424
21	629	680	450	360	540	855	574	1000	916	1010	547	416
22	630	660	440	370	560	814	538	1440	892	1280	512	416
23	734	620	430	390	600	767	541	2010	842	1310	490	410
24	889	600	430	410	620	760	546	2260	820	1360	466	400
25	797	600	440	420	640	715	538	2160	889	1370	450	397
26	750	620	440	430	660	743	526	2150	1190	1290	425	397
27	736	600	450	420	680	778	483	2210	1610	1210	423	396
28	794	600	460	410	700	795	451	2270	1890	1100	418	393
29	823	560	450	410	740	800	442	2230	1750	1040	395	401
30	738	520	450	400	---	795	498	2120	1530	988	378	404
31	646	---	440	410	---	800	---	1870	---	923	368	---
TOTAL	20867	21225	14550	13040	14730	27758	18783	42495	32403	33801	17475	12727
MEAN	673	707	469	421	508	895	626	1371	1080	1090	564	424
MAX	889	978	540	460	740	1200	858	2270	1890	1620	872	479
MIN	574	520	430	360	390	715	442	600	737	758	368	381
AC-FT	41390	42100	28860	25860	29220	55060	37260	84290	64270	67040	34660	25240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	MEAN	864	756	552	470	498	708	1458	2842	5731	3524	1473	921
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	911	466	365	
(WY)	1989	1989	1989	1989	1989	1970	1977	1977	1992	1977	1988	1988	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1964 - 1992
ANNUAL TOTAL	509292	269854	--
ANNUAL MEAN	1395	737	1652a
HIGHEST ANNUAL MEAN	--	--	2908
LOWEST ANNUAL MEAN	--	--	668
HIGHEST DAILY MEAN	10000	2270	18800
LOWEST DAILY MEAN	350	360	188
ANNUAL SEVEN-DAY MINIMUM	354	384	215
INSTANTANEOUS PEAK FLOW	--	2320b	18800
INSTANTANEOUS PEAK STAGE	--	6.85c	10.50
ANNUAL RUNOFF (AC-FT)	1010000	535300	1197000
10 PERCENT EXCEEDS	3330	1180	4020
50 PERCENT EXCEEDS	759	626	822
90 PERCENT EXCEEDS	422	417	440

a Average discharge, water years 1947-92, 1,621 ft³/s.

b Gage height 6.31 ft.

c Ice jam.

GREEN RIVER BASIN

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to September 1976.

WATER TEMPERATURES: October 1963 to September 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
12...	1400	891	484	8.4	2.0	600	3.2	11.5	106	K3	57
JAN											
16...	1200	E380	--	7.7	0.0	598	0.60	10.9	--	K2	K3
MAR											
19...	1100	1010	405	8.2	1.5	602	22	11.3	102	<1	61
MAY											
13...	1300	1160	203	8.4	10.0	600	6.5	9.0	102	K5	21
JUL											
08...	1230	925	340	8.6	18.0	605	2.6	8.9	119	K7	K7
SEP											
16...	1145	456	345	8.4	13.0	606	1.0	8.6	103	<1	K2

E-Estimate.

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV											
12...	200	53	16	19	0.6	1.6	5	188	162	168	82
JAN											
16...	180	51	13	12	0.4	1.5	0	166	136	142	65
MAR											
19...	180	49	14	14	0.5	2.8	0	183	150	154	61
MAY											
13...	89	25	6.4	7.9	0.4	1.2	0	91	75	77	26
JUL											
08...	140	38	11	18	0.7	1.6	4	172	147	149	35
SEP											
16...	140	38	10	17	0.6	1.6	1	157	130	131	47

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV											
12...	5.5	0.3	8.4	258	283	0.35	621	<0.01	<0.01	<0.05	<0.05
JAN											
16...	4.9	0.3	9.0	246	239	0.33	--	<0.01	<0.01	0.10	0.09
MAR											
19...	4.7	0.2	7.9	235	244	0.32	641	0.02	<0.01	<0.05	<0.05
MAY											
13...	2.3	<0.1	4.1	115	118	0.16	360	<0.01	<0.01	<0.05	<0.05
JUL											
08...	2.5	0.2	5.7	194	201	0.26	485	<0.01	<0.01	<0.05	0.07
SEP											
16...	4.4	0.2	6.3	199	203	0.27	245	<0.01	<0.01	<0.05	<0.05

GREEN RIVER BASIN

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09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 12...	0.02	0.02	<0.2	0.03	<0.01	0.01	<0.01	14	34	92
JAN 16...	0.02	0.02	0.2	0.01	<0.01	0.01	<0.01	3	--	94
MAR 19...	0.04	0.02	0.3	0.11	<0.01	0.04	<0.01	83	226	85
MAY 13...	0.01	<0.01	0.2	0.05	<0.01	0.01	<0.01	89	279	48
JUL 08...	0.01	0.02	0.3	0.03	<0.01	0.02	<0.01	311	777	79
SEP 16...	<0.01	0.01	<0.2	0.01	<0.01	<0.01	<0.01	6	7.4	48

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 12...	1400	<10	60	<3	10	10	10
MAR 19...	1100	10	63	<3	43	9	11
MAY 13...	1300	10	32	<3	29	<4	6
SEP 16...	1145	<10	49	<3	13	6	4

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 12...	<10	<1	<1	<1.0	390	<6
MAR 19...	<10	<1	<1	<1.0	350	<6
MAY 13...	<10	<1	<1	<1.0	180	<6
SEP 16...	<10	<1	<1	<1.0	330	<6

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

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 13, Nov. 16, Nov. 22 to Mar. 18, Mar. 20 to Apr. 7, May 6, 7, May 9 to June 10, July 24-29, and Aug. 2-26. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 780 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	unknown	*116	*6.00a	No peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	30	22	18	22	37	29	49	44	26	10	17
2	21	29	20	19	24	38	31	51	40	28	10	15
3	21	29	22	20	23	38	34	50	35	29	11	14
4	21	29	24	21	22	36	37	51	32	26	11	14
5	21	36	27	20	20	35	33	53	30	22	10	18
6	21	42	30	20	20	34	28	56	28	19	9.4	17
7	21	46	32	20	18	35	27	60	30	20	8.6	15
8	22	43	31	19	19	36	28	64	31	21	8.0	14
9	22	40	30	17	19	33	32	104	31	20	7.4	13
10	23	40	27	18	21	36	36	104	30	20	7.0	13
11	22	43	26	18	21	37	45	96	29	17	6.4	13
12	22	45	24	17	22	38	42	80	28	21	6.0	14
13	22	40	24	16	23	39	40	60	28	27	5.8	18
14	22	36	25	16	24	39	34	66	27	26	5.6	15
15	22	36	25	16	24	38	33	64	27	21	5.6	13
16	22	36	27	16	24	36	35	60	31	19	7.0	12
17	22	36	27	18	25	32	39	54	33	16	9.0	12
18	22	36	26	20	23	32	65	50	31	16	12	14
19	22	36	24	19	22	34	48	50	31	16	13	13
20	22	36	22	17	23	40	37	52	26	16	12	14
21	22	36	21	18	23	44	34	52	24	21	10	14
22	22	35	20	18	24	46	34	60	22	20	10	14
23	56	33	19	19	26	44	35	56	21	17	11	14
24	40	33	19	19	27	38	32	50	19	16	13	17
25	32	35	20	20	28	32	30	50	27	15	13	18
26	31	36	21	22	29	30	30	56	34	13	14	19
27	33	37	22	21	31	31	30	50	34	12	15	18
28	33	34	22	19	33	35	34	46	32	11	15	17
29	30	30	23	20	34	37	40	46	28	11	13	17
30	32	25	22	20	---	38	45	50	25	10	13	18
31	30	---	20	21	---	33	---	50	---	10	13	---
TOTAL	796	1078	744	582	694	1131	1077	1840	888	582	314.8	454
MEAN	25.7	35.9	24.0	18.8	23.9	36.5	35.9	59.4	29.6	18.8	10.2	15.1
MAX	56	46	32	22	34	46	65	104	44	29	15	19
MIN	21	25	19	16	18	30	27	46	19	10	5.6	12
AC-FT	1580	2140	1480	1150	1380	2240	2140	3650	1760	1150	624	901

STATISTICS OF MONTHLY MEAN		RAIN FOR		WATER YEARS 1952		1952, BY WATER YEAR (IN)							
MEAN	32.2	30.2	26.5	25.7	27.3	32.7	102	219	227	76.7	37.3	30.5	
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	20.1	13.5	14.3	15.0	18.7	35.1	32.1	20.3	17.2	10.2	12.7	
(WY)	1978	1978	1990	1991	1958	1962	1977	1977	1977	1977	1992	1977	

WATER YEARS 1952 - 1992

	FOR 1986 CALENDAR YEAR		FOR 1987 CALENDAR YEAR		WATER YEARS 1986		1987	
ANNUAL TOTAL	17237		10180.8		--			
ANNUAL MEAN	47.2		27.8		72.4			
HIGHEST ANNUAL MEAN	--		--		155			1986
LOWEST ANNUAL MEAN	--		--		24.8			1977
HIGHEST DAILY MEAN	260	Jun 7	104	May 9,10	865	Jun 6		1986
LOWEST DAILY MEAN	12	Jan 31	5.6	Aug 14,15	5.6	Aug 14,15		1992
ANNUAL SEVEN-DAY MINIMUM	14	Jan 26	6.2	Aug 10	6.2	Aug 10		1992
INSTANTANEOUS PEAK FLOW	--		116a	May 9	907	Apr 23		1986
INSTANTANEOUS PEAK STAGE	--		8.97b	Jan 8	9.51	Apr 23		1986
ANNUAL RUNOFF (AC-FT)	34190		20190		52450			
10 PERCENT EXCEEDS	108		45		185			
50 PERCENT EXCEEDS	29		24		33			
90 PERCENT EXCEEDS	19		13		20			

a Gage height, 6.00 ft, from floodmarks.
b Backwater from ice.

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WY

LOCATION.--Lat 42°02'00", long 110°04'00", in S½ sec.25 T.24 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, at dam on Green River, 3.0 mi north of Fontenelle, and 3.5 mi upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi², approximately.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (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, 563 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, 324,500 acre-ft, Oct. 1, elevation, 6,503.37 ft; minimum daily, 94,300 acre-ft, Apr. 29, elevation, 6,463.78 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,503.51	325,700	-
Oct. 31	6,499.53	295,100	-30,600
Nov. 30	6,496.77	274,800	-20,300
Dec. 31	6,490.04	227,800	-47,000
CAL YR 1991	-	-	+34,800
Jan. 31	6,480.41	168,900	-58,900
Feb. 29	6,471.76	126,500	-42,400
Mar. 31	6,470.94	122,900	-3,600
Apr. 30	6,463.81	94,400	-28,500
May 31	6,477.44	153,400	+59,000
June 30	6,482.38	180,000	+26,600
July 31	6,486.98	207,800	+27,800
Aug. 31	6,485.00	195,600	-12,200
Sept. 30	6,483.05	183,900	-11,700
WTR YR 1992	-	-	-141,800

GREEN RIVER BASIN
09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

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.

DRAINAGE AREA.--4,280 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1290	1120	1130	1250	1320	1060	1180	493	444	623	595	707
2	1320	1120	1130	1260	1320	1060	1310	492	447	621	594	819
3	1310	1120	1130	1260	1320	1060	1310	486	451	630	586	716
4	1170	1120	1130	1260	1310	1060	1310	485	453	631	587	696
5	1210	1130	1120	1260	1290	1070	1310	479	529	632	633	714
6	1220	1130	1120	1270	1220	1080	1330	486	670	626	733	714
7	1220	1130	1110	1290	1070	1080	1330	486	666	632	726	724
8	1170	1130	1110	1290	1080	1080	1330	486	662	628	722	720
9	1150	1130	1110	1290	1080	1080	1350	484	669	622	715	719
10	1160	1130	1110	1310	1080	1080	1320	472	915	620	726	727
11	1150	1120	1110	1320	1080	1080	1330	472	686	612	715	676
12	1140	1110	1150	1330	1090	1070	1330	471	676	610	722	547
13	1140	1100	1220	1330	1090	1060	1340	465	670	603	724	540
14	1140	1120	1220	1330	1080	1070	1330	465	668	600	855	528
15	1140	1100	1230	1330	1070	1080	1290	463	670	595	1390	539
16	1130	1120	1230	1330	1060	1060	1320	458	663	597	1080	532
17	1130	1120	1240	1330	1070	1060	1320	458	665	596	779	532
18	1130	1100	1250	1330	1080	1060	1290	455	670	596	745	530
19	1150	1080	1250	1330	1050	1070	1290	451	659	600	730	527
20	1160	1080	1250	1340	1020	1060	1030	451	611	595	715	528
21	1160	1080	1250	1340	1020	1060	478	446	607	591	716	526
22	1120	1090	1220	1330	1020	1060	465	444	610	579	840	523
23	1110	1060	1210	1320	1050	1070	486	444	614	576	712	523
24	1130	1040	1220	1320	1050	1080	737	439	616	580	688	518
25	1140	1040	1220	1320	1060	1080	1140	436	619	583	697	518
26	1140	1040	1230	1320	1060	1110	1140	444	618	584	709	524
27	1140	1050	1230	1320	1070	1090	1120	438	611	595	709	524
28	1140	1050	1230	1310	1080	1090	1130	436	608	602	706	519
29	1140	1080	1230	1320	1070	1090	940	430	613	592	706	516
30	1130	1130	1230	1320	---	1090	494	465	623	587	706	516
31	1120	---	1240	1320	---	1090	---	466	---	595	719	---
TOTAL	36100	32970	36860	40580	32260	33290	34080	14346	18683	18733	22980	17942
MEAN	1165	1099	1189	1309	1112	1074	1136	463	623	604	741	598
MAX	1320	1130	1250	1340	1320	1110	1350	493	915	632	1390	819
MIN	1110	1040	1110	1250	1020	1060	465	430	444	576	586	516
AC-FT	71600	65400	73110	80490	63990	66030	67600	28460	37060	37160	45580	35590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1030	857	763	781	834	922	1553	2511	4600	3312	1615	1290																	
MAX	3138	1522	1267	1309	1818	1576	3134	5588	11240	8868	3466	7893																	
(WY)	1983	1984	1972	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																	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1964 - 1992
ANNUAL TOTAL	492570	338824	--
ANNUAL MEAN	1350	926	1676
HIGHEST ANNUAL MEAN	--	--	3060
LOWEST ANNUAL MEAN	--	--	690
HIGHEST DAILY MEAN	8940	Jun 18	1390 Aug 15
LOWEST DAILY MEAN	472	Apr 25	430 May 29
ANNUAL SEVEN-DAY MINIMUM	477	Apr 23	438 May 23
INSTANTANEOUS PEAK FLOW	--	--	1460 May 22
INSTANTANEOUS PEAK STAGE	--	12.00	Aug 22
ANNUAL RUNOFF (AC-FT)	977000	672100	1214000
10 PERCENT EXCEEDS	1820	1310	3690
50 PERCENT EXCEEDS	1130	1060	1090
90 PERCENT EXCEEDS	798	490	460

a Caused by emergency release from Fontenelle Reservoir.

b From floodmarks.

GREEN RIVER BASIN

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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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT										
11...	1600	1140	305	14.0	130	35	10	12	0.5	1.2
NOV										
13...	1210	1110	320	6.5	140	37	11	13	0.5	1.4
JAN										
15...	0840	1330	365	2.0	180	49	14	16	0.5	1.6
MAR										
19...	0900	1080	370	2.5	180	49	15	18	0.6	1.7
APR										
08...	1630	1330	380	5.5	170	43	14	17	0.6	1.7
MAY										
08...	1430	489	445	11.5	200	53	17	20	0.6	2.1
JUN										
11...	1740	682	364	16.0	160	41	13	17	0.6	1.6
JUL										
29...	1840	589	364	18.5	150	40	12	18	0.6	1.5
AUG										
31...	1340	726	403	18.0	170	44	14	23	0.8	1.7
SEP										
29...	1115	515	340	14.5	150	40	12	17	0.6	1.6

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
OCT										
11...	120	41	2.3	0.2	8.5	182	0.25	561	<0.01	<0.01
NOV										
13...	120	41	2.6	0.1	9.2	187	0.25	561	0.01	<0.01
JAN										
15...	140	60	3.5	<0.1	9.9	238	0.32	856	<0.01	<0.01
MAR										
19...	140	80	4.5	0.2	8.4	261	0.36	761	<0.01	<0.01
APR										
08...	130	67	3.7	0.2	8.3	233	0.32	836	<0.01	<0.01
MAY										
08...	150	90	4.2	0.2	8.6	285	0.39	376	<0.01	<0.01
JUN										
11...	120	58	3.5	0.2	7.4	214	0.29	394	<0.01	0.01
JUL										
29...	130	55	3.1	0.2	9.3	217	0.30	345	<0.01	<0.01
AUG										
31...	130	80	3.6	0.2	9.8	254	0.35	498	<0.01	<0.01
SEP										
29...	130	53	3.5	0.2	9.5	215	0.29	299	<0.01	<0.01

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT									
11...	<0.05	<0.05	0.08	0.08	0.3	0.01	0.01	0.02	0.01
NOV									
13...	0.06	<0.05	0.06	0.06	0.3	0.02	<0.01	0.02	<0.01
JAN									
15...	0.08	0.07	0.05	0.07	0.2	0.01	0.01	<0.01	<0.01
MAR									
19...	0.05	0.06	0.03	0.03	<0.2	0.01	<0.01	<0.01	<0.01
APR									
08...	0.08	<0.05	0.03	0.02	0.2	0.02	<0.01	0.02	<0.01
MAY									
08...	<0.05	<0.05	0.06	0.05	0.2	<0.01	<0.01	<0.01	<0.01
JUN									
11...	<0.05	<0.05	0.06	0.07	0.3	0.02	<0.01	0.02	0.01
JUL									
29...	<0.05	<0.05	0.04	0.04	0.3	0.03	0.01	0.03	0.02
AUG									
31...	<0.05	<0.05	0.02	0.03	0.2	0.02	0.01	<0.01	<0.01
SEP									
29...	<0.05	<0.05	<0.01	<0.01	0.4	0.02	<0.01	<0.01	<0.01

GREEN RIVER BASIN
09213500 BIG SANDY RIVER NEAR FARSON, WY

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LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼ SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mi upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Apr. 1-5. 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 satellite telemeter at station. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation is given below:

Oct. 8 . . . 23.0

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 23	0900	*285	*5.25	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	42	122	152	119	41	18
2	---	---	---	---	---	---	45	155	139	121	37	18
3	---	---	---	---	---	---	50	122	120	114	35	18
4	---	---	---	---	---	---	53	112	117	109	34	20
5	---	---	---	---	---	---	54	122	121	96	31	21
6	---	---	---	---	---	---	51	146	114	83	31	23
7	---	---	---	---	---	---	43	149	107	73	30	29
8	---	---	---	---	---	---	39	155	100	73	28	27
9	---	---	---	---	---	---	37	154	95	93	27	26
10	---	---	---	---	---	---	37	178	99	82	25	25
11	---	---	---	---	---	---	39	169	104	72	24	23
12	---	---	---	---	---	---	39	136	106	72	22	22
13	---	---	---	---	---	---	38	116	107	76	22	22
14	---	---	---	---	---	---	42	109	103	124	21	23
15	---	---	---	---	---	---	48	100	101	114	21	30
16	---	---	---	---	---	---	54	101	107	96	21	28
17	---	---	---	---	---	---	56	114	127	86	22	25
18	---	---	---	---	---	---	60	116	123	79	25	23
19	---	---	---	---	---	---	56	125	129	71	26	21
20	---	---	---	---	---	---	50	150	116	75	26	21
21	---	---	---	---	---	---	49	203	111	84	25	20
22	---	---	---	---	---	---	45	235	113	114	23	19
23	---	---	---	---	---	---	44	269	105	107	21	19
24	---	---	---	---	---	---	46	231	100	88	19	19
25	---	---	---	---	---	---	42	183	105	80	19	18
26	---	---	---	---	---	---	40	197	154	74	18	18
27	---	---	---	---	---	---	39	194	221	65	17	20
28	---	---	---	---	---	---	47	238	206	58	17	19
29	---	---	---	---	---	---	74	249	157	51	17	18
30	---	---	---	---	---	---	96	194	133	47	16	18
31	---	---	---	---	---	---	---	180	---	43	17	---
TOTAL	---	---	---	---	---	---	1455	5024	3692	2639	758	651
MEAN	---	---	---	---	---	---	48.5	162	123	85.1	24.5	21.7
MAX	---	---	---	---	---	---	96	269	221	124	41	30
MIN	---	---	---	---	---	---	37	100	95	43	16	18
AC-FT	---	---	---	---	---	---	2890	9970	7320	5230	1500	1290

GREEN RIVER BASIN
09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

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

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

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

--
--
--
269 May 23
16 Aug 30
--
285 May 23
5.25 May 23
--
--
--
--

WATER YEARS 1915 - 1971

86.7
148
33.0
1320 Jun 12 1965
.00 Jan 27-31 1963
.10 Feb 1 1960
1890 Jun 3 1986#
8.46 Jun 3 1986#
62800
272
25
9.0

* During period of operation.

For period of record through 1992.

GREEN RIVER BASIN
09213700 BIG SANDY RESERVOIR NEAR FARSON, WY

385

LOCATION.--Lat 42°14'57", long 109°25'43", in NE¼ NW¼ 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 National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Estimated daily contents: Mar. 3-11. Records good. Reservoir is formed by an earthfill dam, storage began in April 1953. Total capacity, 54,385 acre-ft at elevation 6,762.8 ft, crest of spillway, including 1,425 acre-ft of dead storage in a permanent pool at elevation 6,720.0, trash-rack sill. Reservoir is used for storage of irrigation water and for recreation. Figures given herein represent active storage. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 40,000 acre-ft, June 15, 1991, elevation, 6,758.14 ft; minimum contents, 920 acre-ft, Sept. 15, 1988, elevation, 6,724.66 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 27,900 acre-ft, May 15, elevation, 6,752.92 ft; minimum contents, 1,630 acre-ft, Sept. 15, elevation, 6,727.31 ft.

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

6,720	0	6,740	8,655	6,760	44,900
6,730	2,545	6,750	22,150		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15500	16100	17400	18200	18700	19100	22400	24500	26400	18800	14500	3470
2	15500	16100	17400	18200	18900	19200	22500	24800	26200	18900	14100	3210
3	15400	16100	17500	18200	18800	19300	22500	25000	25900	19000	13800	2980
4	15500	16200	17500	18200	18800	19500	22600	25200	25600	19100	13500	2830
5	15500	16300	17500	18200	18800	19600	22700	25400	25100	19000	13200	2680
6	15500	16300	17500	18300	18800	19800	22700	25700	24700	19000	13000	2510
7	15600	16400	17600	18300	18800	20000	22700	26000	24300	18900	12700	2370
8	15600	16500	17600	18400	18800	20200	22800	26300	23800	18700	12400	2240
9	15600	16600	17600	18400	18800	20400	22900	26500	23400	18700	12100	2160
10	15700	16600	17600	18400	18900	20600	22900	26800	22900	18600	11700	2090
11	15700	16700	17700	18400	18900	20700	22900	27200	22500	18400	11300	2000
12	15700	16700	17700	18400	18900	20800	23000	27400	22100	18300	10900	1910
13	15700	16800	17800	18400	18900	20900	23000	27500	21600	18200	10500	1780
14	15800	16800	17800	18500	18900	21000	23200	27600	21200	18200	10100	1680
15	15800	16800	17800	18500	18900	21200	23300	27700	20900	18200	9670	1650
16	15800	16900	17800	18500	18900	21300	23300	27700	20600	18200	9220	1700
17	15800	16900	17800	18500	19000	21400	23400	27700	20500	18100	8770	1750
18	15800	17000	17800	18500	19000	21500	23500	27700	20400	17900	8310	1800
19	15800	17000	17900	18500	19000	21500	23600	27500	20200	17700	7900	1850
20	15800	17000	17900	18600	19000	21600	23600	27400	20100	17600	7480	1890
21	15800	17100	17900	18600	19000	21700	23700	27300	19900	17500	7110	1920
22	15900	17100	17900	18600	19000	21700	23700	27200	19800	17300	6740	1960
23	15900	17100	18000	18600	19000	21800	23800	27300	19600	17300	6370	2000
24	15900	17100	18000	18600	19000	21900	23800	27300	19100	17100	6000	2030
25	15900	17200	18000	18700	19000	21900	23900	27100	18900	16900	5620	2050
26	16000	17200	18000	18700	19000	22000	23900	26900	18800	16700	5290	2080
27	16100	17300	18100	18700	19100	22100	24000	26700	18800	16300	4960	2110
28	16100	17300	18100	18700	19100	22100	24000	26700	18900	15900	4630	2140
29	16100	17400	18100	18700	19100	22200	24200	26700	19000	15500	4300	2180
30	16100	17400	18100	18700	---	22300	24300	26600	18900	15200	4000	2210
31	16100	---	18100	18700	---	22300	---	26400	---	14800	3740	---
MAX	16100	17400	18100	18700	19100	22300	24300	27700	26400	19100	14500	3470
MIN	15400	16100	17400	18200	18700	19100	22400	24500	18800	14800	3740	1650
(#)	6,746.41	6,747.22	6,747.69	6,748.03	6,748.27	6,750.00	6,751.16	6,752.22	6,748.13	6,745.52	6,732.75	6,729.09
(*)	+700	+1,300	+700	+600	+400	+3,200	+2,000	+2,100	-7,500	-4,100	-11,060	-1,530

CAL YR 1991 MAX 39900 MIN 14500 (*) +3,200
WTR YR 1992 MAX 27700 MIN 1650 (*) -13,190

(#) 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 SW¼ SE¼ NE¼ 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 14.9 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1981 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,520 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-9 and Oct. 19 to Apr. 15. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	17	20	4.0	5.0	19	27	11	21	22	20	22
2	24	19	24	4.3	5.5	20	25	11	18	32	20	23
3	22	18	24	4.5	5.0	24	24	10	17	37	24	21
4	20	18	25	4.8	4.5	28	22	10	16	30	33	22
5	20	20	26	5.0	4.0	34	22	10	15	24	28	23
6	20	27	25	5.5	4.0	50	21	9.8	14	21	23	23
7	20	28	25	6.0	4.5	140	20	9.9	16	18	21	24
8	19	27	20	5.0	5.2	160	20	10	18	19	19	23
9	19	26	20	4.0	6.0	130	20	11	18	20	19	24
10	19	23	20	4.0	6.5	100	20	13	19	19	19	22
11	19	22	18	4.0	7.0	80	19	11	20	18	19	19
12	19	22	15	4.5	6.5	100	19	11	17	19	18	18
13	18	20	13	5.0	7.0	130	18	10	20	22	18	18
14	18	17	10	4.0	9.0	100	17	10	20	23	18	19
15	18	25	9.0	3.5	10	70	17	13	22	20	19	20
16	17	30	9.0	4.2	10	50	17	12	24	19	21	18
17	17	28	9.0	4.5	10	60	16	10	24	16	24	16
18	16	25	8.5	5.0	9.0	64	16	9.4	23	16	30	16
19	16	26	8.0	4.5	8.0	60	16	9.8	21	16	29	16
20	16	25	7.0	4.0	9.0	56	15	9.7	20	18	28	15
21	16	30	6.5	4.0	11	50	14	14	18	19	24	14
22	18	29	6.5	4.5	11	40	14	15	17	22	21	14
23	20	25	6.5	5.0	11	35	14	14	17	21	22	14
24	20	30	6.0	5.5	10	35	13	15	17	19	21	14
25	20	35	6.0	6.0	11	32	13	15	22	18	18	14
26	20	32	6.0	6.0	12	30	13	17	26	17	19	14
27	20	30	6.0	6.0	15	30	13	24	32	18	19	14
28	20	30	6.0	5.5	15	31	12	24	34	19	23	14
29	18	25	5.5	5.5	18	30	12	25	30	26	20	14
30	16	22	5.0	5.0	---	30	12	21	25	25	20	14
31	16	---	4.5	5.0	---	28	---	19	---	23	21	---
TOTAL	586	751	400.0	148.3	249.7	1846	521	414.6	621	656	678	542
MEAN	18.9	25.0	12.9	4.78	8.61	59.5	17.4	13.4	20.7	21.2	21.9	18.1
MAX	25	35	26	6.0	18	160	27	25	34	37	33	24
MIN	16	17	4.5	3.5	4.0	19	12	9.4	14	16	18	14
AC-FT	1160	1490	793	294	495	3660	1030	822	1230	1300	1340	1080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	MEAN	27.6	28.8	14.4	8.75	11.5	37.3	79.5	60.1	110	66.3	42.8	33.9
MAX	51.4	105	39.2	30.5	37.8	71.8	224	138	515	223	78.9	53.9	
(WY)	1984	1984	1984	1984	1982	1987	1985	1983	1986	1983	1984	1984	
MIN	11.4	7.24	3.82	.34	2.17	6.77	15.7	7.62	14.7	17.9	18.8	18.1	
(WY)	1991	1990	1990	1991	1990	1988	1989	1990	1989	1989	1989	1992	

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1981 - 1992
ANNUAL TOTAL	11712.50	7413.6	--
ANNUAL MEAN	32.1	20.3	44.3
HIGHEST ANNUAL MEAN	--	--	95.5
LOWEST ANNUAL MEAN	--	--	12.0
HIGHEST DAILY MEAN	510	160	897
LOWEST DAILY MEAN	.00	3.5	.00
	Jan 22	Jan 9	Jan 22 to Feb 4 1991
ANNUAL SEVEN-DAY MINIMUM	.00	4.1	.00
INSTANTANEOUS PEAK FLOW	--	160a	1120b
INSTANTANEOUS PEAK STAGE	--	5.58c	7.71c
ANNUAL RUNOFF (AC-FT)	23230	14700	32090
10 PERCENT EXCEEDS	50	30	72
50 PERCENT EXCEEDS	20	18	23
90 PERCENT EXCEEDS	.66	5.5	6.0

a Highest daily mean, estimated, backwater from ice.

b Gage height, 7.30 ft.

c Backwater from ice.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT										
10...	1245	19	2100	10.0	640	170	53	270	5	2.9
NOV										
18...	1115	28	2390	0.5	680	180	57	310	5	3.2
JAN										
16...	1500	4.2	2110	0.0	640	170	53	250	4	2.8
MAR										
17...	1515	62	1760	1.5	390	91	39	280	6	3.2
APR										
16...	1230	17	2680	13.5	660	160	63	420	7	3.8
MAY										
21...	0915	14	2950	13.0	780	190	75	460	7	4.3
JUN										
15...	2045	23	1650	15.0	450	110	42	230	5	3.8
JUL										
24...	1250	20	1890	22.0	490	120	45	240	5	3.4
AUG										
21...	1045	24	1480	16.0	420	110	36	170	4	3.5
SEP										
24...	1040	14	2150	12.5	640	160	58	280	5	3.5

DATE	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT										
10...	220	840	36	0.7	9.2	1520	2.06	77.7	0.3	<0.03
NOV										
18...	260	980	42	0.7	11	1740	2.37	132	0.5	<0.03
JAN										
16...	230	790	35	0.6	12	1460	1.98	16.5	1.0	<0.03
MAR										
17...	200	730	37	0.7	8.8	1310	1.78	220	0.4	<0.03
APR										
16...	230	1200	59	0.9	10	2050	2.79	94.3	<0.1	<0.03
MAY										
21...	230	1400	70	0.4	7.6	2350	3.19	88.6	<0.1	<0.03
JUN										
15...	210	660	34	0.7	12	1220	1.66	75.7	<0.1	<0.03
JUL										
24...	190	730	32	0.8	9.3	1290	1.76	69.9	<0.1	<0.03
AUG										
21...	200	520	24	0.7	10	994	1.35	64.4	<0.1	0.05
SEP										
24...	230	880	37	0.8	9.3	1570	2.13	59.2	<0.1	<0.03

GREEN RIVER BASIN
09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼ SW¼ NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi upstream from Gasson Bridge and 14.5 mi southwest of Eden.
DRAINAGE AREA.--1,720 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,350 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 2-6, 17-24, and Nov. 30 to Mar. 8. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	54	40	25	26	35	56	32	42	46	47	50
2	58	58	45	26	27	40	54	31	44	47	45	50
3	57	56	45	27	26	45	53	31	41	56	45	49
4	55	54	46	28	25	50	53	31	39	58	49	49
5	55	60	45	29	25	58	51	31	38	49	54	52
6	54	66	48	30	24	84	51	31	37	45	51	51
7	54	64	50	32	24	120	49	31	36	42	46	50
8	54	61	50	28	25	150	48	30	38	41	44	51
9	53	61	45	25	26	177	45	32	39	44	43	52
10	54	66	45	25	28	130	44	33	40	43	43	51
11	53	59	45	25	30	94	41	33	41	43	43	49
12	53	58	43	26	29	96	41	31	41	45	42	46
13	53	58	40	28	29	93	39	31	39	47	43	46
14	53	60	38	25	32	100	37	31	42	51	41	46
15	53	53	35	23	35	128	37	30	43	50	41	47
16	52	48	35	26	35	143	38	32	45	46	42	48
17	52	52	35	27	33	143	38	31	46	44	47	47
18	52	54	35	28	30	136	38	30	46	41	56	46
19	52	52	33	27	28	123	37	29	44	41	52	46
20	52	50	32	25	30	100	36	30	42	43	50	46
21	52	52	30	25	30	94	36	30	41	46	50	46
22	51	46	30	26	32	81	35	34	39	46	48	46
23	53	45	30	27	32	64	35	34	38	49	47	45
24	55	52	30	28	31	63	35	34	38	47	47	45
25	55	60	30	30	30	61	35	35	42	44	47	45
26	55	55	30	30	30	60	35	38	44	44	45	45
27	55	54	30	29	33	61	34	41	48	43	45	45
28	54	54	30	28	33	61	34	45	53	43	47	45
29	47	48	28	28	35	59	33	46	56	45	49	45
30	48	45	27	27	---	58	33	47	49	51	48	45
31	51	---	26	26	---	57	---	44	---	49	49	---
TOTAL	1654	1655	1151	839	853	2764	1231	1049	1271	1429	1446	1424
MEAN	53.4	55.2	37.1	27.1	29.4	89.2	41.0	33.8	42.4	46.1	46.6	47.5
MAX	59	66	50	32	35	177	56	47	56	58	56	52
MIN	47	45	26	23	24	35	33	29	36	41	41	45
AC-FT	3280	3280	2280	1660	1690	5480	2440	2080	2520	2830	2870	2820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1972	64.4	102	1984	36.0	1990
1973	56.4	149	1984	31.5	1991
1974	39.5	60.4	1976	22.1	1991
1975	31.8	55.5	1984	17.4	1990
1976	35.7	74.0	1982	17.8	1990
1977	68.2	196	1974	36.4	1976
1978	130	462	1980	28.3	1990
1979	81.1	208	1984	19.7	1990
1980	140	627	1986	29.4	1990
1981	106	290	1983	30.5	1989
1982	80.9	119	1983	32.4	1989
1983	73.8	100	1983	40.3	1989

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1972 - 1992
ANNUAL TOTAL	21448	16766	--
ANNUAL MEAN	58.8	45.8	74.1
HIGHEST ANNUAL MEAN	--	--	139
LOWEST ANNUAL MEAN	--	--	30.6
HIGHEST DAILY MEAN	556	177	5530
LOWEST DAILY MEAN	12	23	7.0
ANNUAL SEVEN-DAY MINIMUM	14	25	11
INSTANTANEOUS PEAK FLOW	--	213a	7430b
INSTANTANEOUS PEAK STAGE	--	8.77c	10.58
ANNUAL RUNOFF (AC-FT)	42540	33260	53670
10 PERCENT EXCEEDS	77	58	115
50 PERCENT EXCEEDS	53	45	55
90 PERCENT EXCEEDS	25	28	29

a Gage height, 5.43 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--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 07...	1535	54	3610	13.0	920	170	120	420	6	3.9
NOV 22...	0845	46	3700	0.0	1100	240	120	560	7	4.2
JAN 16...	1020	26	3750	0.0	1100	220	140	530	7	4.0
MAR 05...	1530	58	3100	0.5	900	180	110	400	6	3.6
APR 13...	1625	39	3810	15.0	1100	210	140	590	8	4.4
MAY 18...	1250	30	4220	22.0	1300	230	170	640	8	5.1
JUN 15...	1745	43	3490	15.0	840	140	120	540	8	4.7
JUL 20...	1400	45	4000	18.0	980	180	130	500	7	4.4
AUG 18...	1320	53	2910	20.5	790	150	100	390	6	4.9
SEP 21...	1400	47	3540	17.0	1000	200	130	500	7	4.3

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 07...	240	1700	40	0.8	9.0	2610	3.55	380	0.2	0.03
NOV 22...	300	1800	47	0.8	13	2970	4.03	368	0.4	<0.03
JAN 16...	280	1800	39	0.6	13	2920	3.97	205	0.5	<0.03
MAR 05...	220	1400	32	0.8	10	2270	3.09	355	0.3	0.07
APR 13...	250	2000	49	1.0	9.9	3150	4.29	332	<0.1	<0.03
MAY 18...	250	2500	50	1.0	9.4	3760	5.11	304	<0.1	0.03
JUN 15...	290	1600	39	1.1	11	2630	3.58	305	<0.1	<0.03
JUL 20...	230	1700	41	1.0	11	2710	3.68	329	<0.1	<0.03
AUG 18...	230	1300	33	0.9	11	2130	2.89	304	<0.1	<0.03
SEP 21...	250	1700	38	1.0	11	2730	3.72	347	<0.1	0.16

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- SOLVED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 22...	0845	46	35	4.3
MAR 05...	1530	58	523	82
JUN 15...	1745	43	311	36
AUG 18...	1320	53	735	105

GREEN RIVER BASIN

09216790 BITTER CREEK ABOVE KILLPECKER CREEK, AT ROCK SPRINGS, WY

LOCATION.--Lat 41°35'33", long 109°13'27", in NE¼ SE¼ SW¼ sec.26, T.19 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, 200 ft downstream from viaduct on State Highway 191 and 800 ft upstream from mouth of Killpecker Creek in Rock Springs.

PERIOD OF RECORD.--June 1983 to September 1988, October 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR								
06...	0730	103	1.0	1160	K61	<1	15300	4240
26...	0800	12	2.0	2050	K20	<1	1930	63
MAY								
21...	1850	14	14.5	2580	K5900	<1	5590	211
AUG								
21...	0825	0.14	16.0	1910	2100	6	171	0.06

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

GREEN RIVER BASIN
09217000 GREEN RIVER NEAR GREEN RIVER, WY

391

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼ NE¼ NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi downstream from Bitter Creek, 1.0 mi southeast of town of Green River, and 4.0 mi upstream from high-water line of Flaming Gorge Reservoir.

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

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 2, 4, 5, 23-25, and Nov. 30 to Mar. 9. Records good except those for estimated daily discharges, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres upstream from station. National Weather Service satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	1170	850	1100	1200	1400	1120	521	433	524	532	671
2	1160	1200	950	1100	1200	1450	1220	494	409	525	517	660
3	1140	1200	1000	1100	1200	1500	1340	488	400	525	518	718
4	1120	1190	1100	1150	1200	1400	1340	478	394	530	525	663
5	1130	1170	1200	1150	1200	1450	1350	476	384	523	515	655
6	1150	1160	1200	1200	1200	1500	1350	465	390	515	539	642
7	1160	1210	1200	1250	1200	1600	1340	452	570	512	619	640
8	1140	1200	1100	1300	1200	1650	1360	452	580	521	620	637
9	1120	1200	1000	1300	1250	1600	1370	468	577	518	609	626
10	1120	1330	920	1250	1250	1450	1350	496	577	506	607	627
11	1130	1220	1000	1200	1250	1360	1320	442	760	529	614	640
12	1130	1200	1150	1200	1250	1320	1330	423	630	563	608	623
13	1130	1180	1120	1200	1300	1280	1320	419	609	552	607	501
14	1130	1180	1080	1200	1300	1250	1330	433	595	528	607	482
15	1130	1170	1140	1200	1300	1250	1330	446	602	518	669	474
16	1130	1140	1120	1200	1250	1290	1320	460	614	513	1080	467
17	1130	1120	1120	1200	1300	1330	1300	449	604	514	919	464
18	1130	1150	1130	1200	1300	1300	1310	420	615	519	675	462
19	1140	1130	1150	1200	1300	1310	1280	400	597	520	660	472
20	1150	1080	1100	1250	1250	1220	1270	401	592	522	633	473
21	1160	1080	1100	1250	1250	1180	1080	412	545	546	628	470
22	1160	1070	1100	1200	1300	1160	549	426	544	517	628	472
23	1190	1070	1100	1200	1300	1140	487	406	538	522	694	471
24	1180	1000	1100	1200	1250	1140	483	402	526	538	612	463
25	1170	1030	1100	1250	1300	1140	656	385	527	537	597	453
26	1170	1040	1100	1250	1300	1130	1080	376	554	536	602	452
27	1180	1040	1100	1200	1350	1160	1090	386	530	525	604	460
28	1180	1050	1050	1200	1350	1130	1090	393	531	527	609	463
29	1180	1030	1050	1150	1400	1130	1100	387	532	519	618	468
30	1180	1000	1050	1150	---	1130	965	390	532	513	619	456
31	1180	---	1050	1150	---	1140	---	416	---	525	634	---
TOTAL	35700	34010	33530	37150	36700	40490	34830	13462	16291	16282	19518	16225
MEAN	1152	1134	1082	1198	1266	1306	1161	434	543	525	630	541
MAX	1200	1330	1200	1300	1400	1650	1370	521	760	563	1080	718
MIN	1120	1000	850	1100	1200	1130	483	376	384	506	515	452
AC-FT	70810	67460	66510	73690	72790	80310	69090	26700	32310	32300	38710	32180

GREEN RIVER BASIN
09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1992, BY WATER YEAR (WY)

MEAN	966	825	682	697	784	1003	1708	2679	4933	3275	1563	1162
MAX	3109	1844	1419	1382	1980	1852	3416	5665	11700	9415	3577	7746
(WY)	1983	1984	1972	1972	1974	1974	1962	1952	1986	1986	1982	1965
MIN	279	281	272	266	267	350	516	434	414	368	372	251
(WY)	1989	1989	1989	1989	1989	1989	1968	1992	1977	1977	1977	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1952 - 1992		
ANNUAL TOTAL	503602			334188			--		
ANNUAL MEAN	1380			913			1691		
HIGHEST ANNUAL MEAN	--			--			3089		
LOWEST ANNUAL MEAN	--			--			689		
HIGHEST DAILY MEAN	9070			1650			16700		
LOWEST DAILY MEAN	428			376			170		
ANNUAL SEVEN-DAY MINIMUM	447			388			214		
INSTANTANEOUS PEAK FLOW	--			1650 ^a			16800 ^b		
INSTANTANEOUS PEAK STAGE	--			3.16 ^c			8.53		
ANNUAL RUNOFF (AC-FT)	998900			662900			1225000		
10 PERCENT EXCEEDS	1790			1300			3800		
50 PERCENT EXCEEDS	1200			1090			1040		
90 PERCENT EXCEEDS	830			464			429		

a Maximum daily, estimated.

b Caused by emergency release from Fontenelle Reservoir.

c Backwater from ice.

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples of specific conductance and sediment collected at bridge on State Highway 530 in town of Green River, 0.8 mi upstream from Bitter Creek and 1.0 mi upstream from discharge station.

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1951 to September 1992 (discontinued).

WATER TEMPERATURES: May 1951 to September 1992 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: May 1951 to September 1992 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,870 microsiemens, Nov. 24, 1985; minimum daily, 212 microsiemens, Nov. 23, 1983.

WATER TEMPERATURES: Maximum 29.0°C, July 1, 1977; minimum, 0.0°C, on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L, Aug. 11, 1963; minimum daily mean, 0 mg/L, Sept. 18, 1962.

SEDIMENT LOADS: Maximum daily, 110,000 tons, Mar. 28, 1962; minimum daily, 0 ton, Sept. 18, 1962.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 925 microsiemens, May 29; minimum daily, 341 microsiemens, Oct. 12.

WATER TEMPERATURES: Maximum daily, 22.0°C, June 28; minimum, 0.0°C on many days during November through March.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 606 mg/L, Mar. 7; minimum daily mean, 3 mg/L, Jan 25, Feb. 7, Sept. 21, 25-27, 29, 30.

SEDIMENT LOADS: Maximum daily, 2,620 tons, Mar. 7; minimum daily, 3.7 tons, Sept. 25-27, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CaCO ₃)
OCT 09...	1440	1140	430	--	13.0	--	--	--
NOV 19...	1030	1080	504	8.6	2.0	612	13.2	180
JAN 13...	1340	1200	470	7.2	0.0	606	14.0	200
MAR 12...	1440	1280	750	8.5	5.0	610	11.0	250
APR 15...	1700	1330	530	--	13.0	--	--	--
MAY 22...	1030	427	750	8.6	12.0	610	8.7	250
JUN 16...	1815	612	595	--	15.0	--	--	--
JUL 23...	1820	495	560	8.8	22.0	603	8.0	190
AUG 20...	1730	626	565	--	22.5	--	--	--
SEP 23...	1530	462	663	8.8	17.5	620	10.2	210

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 09...	--	--	--	--	--	--	--	--	--
NOV 19...	46	16	38	1	1.6	130	130	4.8	0.3
JAN 13...	52	17	31	1	2.4	160	100	5.1	0.1
MAR 12...	61	23	61	2	2.0	160	210	7.4	0.3
APR 15...	--	--	--	--	--	--	--	--	--
MAY 22...	59	26	69	2	2.4	150	260	9.2	0.3
JUN 16...	--	--	--	--	--	--	--	--	--
JUL 23...	41	21	57	2	2.0	130	170	6.7	0.3
AUG 20...	--	--	--	--	--	--	--	--	--
SEP 23...	46	23	63	2	2.0	130	200	7.7	0.3

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 09...	--	--	--	--	--	--	6	18
NOV 19...	5.8	321	0.44	936	0.1	<0.03	13	38
JAN 13...	8.2	312	0.42	1010	0.1	<0.03	29	94
MAR 12...	6.5	468	0.64	1620	0.3	0.06	98	339
APR 15...	--	--	--	--	--	--	21	75
MAY 22...	4.9	521	0.71	600	<0.1	0.05	10	12
JUN 16...	--	--	--	--	--	--	11	18
JUL 23...	6.4	382	0.52	511	<0.1	<0.03	11	15
AUG 20...	--	--	--	--	--	--	38	64
SEP 23...	6.2	426	0.58	532	<0.1	<0.03	23	29

GREEN RIVER BASIN

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09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SPECIFIC CONDUCTANCE MICROSIEMENS/CM AT 25 DEG C, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	396	526	554	461	557	635	661	719	644	618	604
2	454	511	492	553	502	587	602	759	710	613	636	590
3	477	457	492	536	496	592	604	764	721	609	608	598
4	454	506	582	537	489	617	605	759	710	664	597	579
5	462	535	392	519	505	629	604	760	711	640	612	596
6	498	560	559	524	504	645	602	753	647	635	594	613
7	473	524	455	525	576	731	571	735	640	650	556	607
8	456	593	559	550	579	685	541	766	593	618	577	601
9	446	515	562	552	575	672	538	782	591	623	551	613
10	447	528	491	503	575	628	545	755	585	624	549	602
11	457	577	486	505	577	627	569	784	590	683	544	602
12	341	513	565	470	571	699	548	851	567	610	550	604
13	477	547	419	519	569	680	548	762	593	630	545	648
14	454	539	574	544	572	678	551	758	592	625	544	677
15	463	508	525	508	566	679	541	777	590	650	564	676
16	452	491	586	508	574	659	557	778	604	636	565	688
17	405	505	565	495	582	657	563	750	610	620	565	687
18	480	493	556	546	593	645	568	783	603	79	557	689
19	495	511	559	513	588	680	572	746	601	11	582	667
20	456	514	542	522	578	659	592	739	589	07	568	678
21	457	512	573	522	583	648	592	732	603	646	577	687
22	460	544	567	521	591	678	700	736	612	618	578	664
23	487	529	561	557	600	638	775	754	604	616	537	674
24	490	531	556	552	556	666	787	805	595	653	586	669
25	474	463	567	548	561	662	621	751	594	649	590	680
26	487	510	566	553	539	627	583	738	597	639	575	681
27	482	535	574	549	532	625	603	744	621	615	577	679
28	517	515	568	562	541	652	585	866	629	635	585	680
29	467	510	568	562	545	630	590	925	647	635	579	680
30	503	510	552	498	---	636	612	814	645	474	599	680
31	437	---	560	496	---	637	---	770	---	634	600	---
MEAN	464	516	539	529	554	649	597	770	624	626	576	646
MAX	517	593	586	562	600	731	787	925	721	683	636	689
MIN	341	396	392	470	461	557	538	661	567	474	537	579

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	.0	.0	.0	.0	.0	6.0	16.0	17.0	16.5	20.0	20.0
2	14.0	.0	.0	.0	.0	.0	6.5	15.0	15.0	17.0	20.5	20.0
3	14.0	1.0	.0	.0	.0	.0	7.0	15.0	16.0	18.0	16.0	19.5
4	10.5	3.0	.0	.0	.0	.0	9.0	15.5	16.0	18.0	20.0	19.5
5	10.5	4.0	.0	.0	.0	.0	10.0	15.0	16.5	19.0	20.0	18.5
6	13.0	4.0	.0	.0	.0	.0	7.0	16.0	15.5	19.0	20.5	19.0
7	13.0	4.0	.0	.0	.0	.0	8.0	17.0	17.0	20.0	19.5	19.5
8	13.0	4.0	.0	.0	.0	2.0	8.5	18.0	19.5	19.5	19.5	19.5
9	12.0	3.5	.0	.0	.0	3.0	9.0	10.5	21.0	20.0	20.0	19.0
10	10.5	3.5	.0	.0	.0	4.0	9.0	14.5	20.0	19.5	20.0	20.0
11	14.0	5.5	.0	.0	.0	4.0	9.5	15.0	18.0	18.5	20.5	18.0
12	13.5	5.5	.0	.0	.0	5.5	9.5	15.5	18.5	15.0	20.5	18.5
13	12.0	6.0	.0	.0	.0	8.0	10.5	10.5	16.0	10.0	20.5	17.0
14	9.0	6.0	.0	.0	.0	6.0	10.5	16.0	19.0	20.0	20.5	18.5
15	12.0	6.0	.0	.0	.0	6.0	11.5	16.0	13.0	10.5	20.0	17.0
16	12.5	4.0	.0	.0	.0	10.0	10.0	16.0	13.0	10.5	19.5	18.0
17	10.5	3.0	.0	.0	.0	8.0	10.0	17.5	18.0	21.0	16.0	17.5
18	10.5	3.0	.0	.0	.0	10.0	10.0	18.0	18.0	20.0	20.0	17.5
19	9.5	2.0	.0	.0	.0	8.0	10.0	19.0	18.0	20.5	20.0	18.0
20	9.5	2.0	.0	.0	.0	6.0	10.0	19.0	20.5	16.0	21.0	19.0
21	9.0	2.0	.0	.0	.0	6.0	10.0	14.0	21.5	17.0	20.0	19.0
22	9.0	1.0	.0	.0	.0	6.0	10.5	12.0	21.0	20.0	20.0	18.0
23	8.0	.0	.0	.0	.0	6.0	10.0	14.0	20.5	21.0	20.5	17.5
24	7.5	.0	.0	.0	.0	6.0	11.0	14.0	20.5	20.0	20.0	18.0
25	7.0	.0	.0	.0	.0	6.0	11.0	13.5	18.0	20.0	18.5	17.0
26	8.0	2.0	.0	.0	.0	6.0	11.0	14.0	18.0	20.0	18.5	17.0
27	5.5	2.5	.0	.0	.0	6.0	11.0	14.0	18.0	20.5	20.0	17.5
28	3.5	.0	.0	.0	.0	6.0	13.0	16.0	22.0	20.0	20.0	18.0
29	2.0	.0	.0	.0	.0	6.0	15.0	16.0	18.5	20.0	20.0	18.0
30	2.5	.0	.0	.0	---	6.0	10.0	16.0	17.0	20.0	20.0	18.0
31	.0	---	.0	.0	---	6.0	---	16.5	---	20.5	18.5	---
MEAN	9.7	2.6	.0	.0	.0	4.7	9.8	15.3	18.0	18.3	19.7	18.4
MAX	15.5	6.0	.0	.0	.0	10.0	15.0	19.0	22.0	21.0	21.0	20.0
MIN	.0	.0	.0	.0	.0	.0	6.0	10.5	13.0	10.0	16.0	17.0

GREEN RIVER BASIN
09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1200	20	65	1170	11	35	850	20	46
2	1160	16	50	1200	10	32	950	18	46
3	1140	15	46	1200	10	32	1000	12	32
4	1120	12	36	1190	23	74	1100	10	30
5	1130	40	122	1170	20	63	1200	15	49
6	1150	10	31	1160	16	50	1200	14	45
7	1160	15	47	1210	236	771	1200	28	91
8	1140	6	18	1200	152	492	1100	8	24
9	1120	6	18	1200	58	188	1000	4	11
10	1120	8	24	1330	410	1470	920	5	12
11	1130	7	21	1220	305	1000	1000	4	11
12	1130	10	31	1200	66	214	1150	13	40
13	1130	11	34	1180	30	96	1120	10	30
14	1130	10	31	1180	26	83	1080	7	20
15	1130	11	34	1170	37	117	1140	20	62
16	1130	12	37	1140	20	62	1120	28	85
17	1130	12	37	1120	21	64	1120	17	51
18	1130	34	104	1150	28	87	1130	11	34
19	1140	41	126	1130	14	43	1150	11	34
20	1150	13	40	1080	17	50	1100	7	21
21	1160	7	22	1080	12	35	1100	6	18
22	1160	8	25	1070	6	17	1100	8	24
23	1190	8	26	1070	13	38	1100	27	80
24	1180	6	19	1000	16	43	1100	17	50
25	1170	5	16	1030	23	64	1100	6	18
26	1170	7	22	1040	23	65	1100	9	27
27	1180	11	35	1040	10	28	1100	11	33
28	1180	28	89	1050	8	23	1050	7	20
29	1180	15	48	1030	8	22	1050	5	14
30	1180	27	86	1000	15	40	1050	5	14
31	1180	13	41	---	---	---	1050	7	20
TOTAL	35700	---	1381	34010	---	5398	33530	---	1092
JANUARY			FEBRUARY			MARCH			
1	1100	12	36	1200	8	26	1400	68	257
2	1100	11	33	1200	7	23	1450	153	599
3	1100	30	89	1200	7	23	1500	174	705
4	1150	11	34	1200	6	19	1400	337	1270
5	1150	8	25	1200	5	16	1450	347	1360
6	1200	11	36	1200	4	13	1500	409	1660
7	1250	8	27	1200	3	9.7	1600	606	2620
8	1300	5	18	1200	4	13	1650	518	2310
9	1300	11	39	1250	4	13	1600	335	1450
10	1250	7	24	1250	4	13	1450	280	1100
11	1200	9	29	1250	4	13	1360	240	881
12	1200	26	84	1250	5	17	1320	215	766
13	1200	18	58	1300	8	28	1280	185	639
14	1200	5	16	1300	16	56	1250	155	523
15	1200	5	16	1300	24	84	1250	130	439
16	1200	5	16	1250	39	132	1290	74	258
17	1200	5	16	1300	32	112	1330	62	223
18	1200	6	19	1300	23	81	1300	54	190
19	1200	6	19	1300	43	151	1310	46	163
20	1250	5	17	1250	50	169	1220	32	105
21	1250	6	20	1250	62	209	1180	24	76
22	1200	4	13	1300	69	242	1160	52	163
23	1200	6	19	1300	47	165	1140	34	105
24	1200	6	19	1250	34	115	1140	17	52
25	1250	3	10	1300	42	147	1140	20	62
26	1250	4	13	1300	52	183	1130	22	67
27	1200	5	16	1350	50	182	1160	18	56
28	1200	4	13	1350	46	168	1130	15	46
29	1150	4	12	1400	52	197	1130	16	49
30	1150	8	25	---	---	---	1130	18	55
31	1150	7	22	---	---	---	1140	18	55
TOTAL	37150	---	833	36700	---	2619.7	40490	---	18304

GREEN RIVER BASIN
09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1120	17	51	521	10	14	433	17	20
2	1220	33	109	494	8	11	409	16	18
3	1340	39	141	488	10	13	400	18	19
4	1340	50	181	478	5	6.5	394	36	38
5	1350	48	175	476	9	12	384	25	26
6	1350	29	106	465	19	24	390	24	25
7	1340	37	134	452	17	21	570	30	46
8	1360	33	121	452	15	18	580	23	36
9	1370	29	107	468	13	16	577	20	31
10	1350	22	80	496	9	12	577	20	31
11	1320	29	103	442	13	16	760	36	80
12	1330	36	129	423	27	31	630	27	46
13	1320	29	103	419	14	16	609	27	44
14	1330	27	97	433	10	12	595	27	43
15	1330	22	79	446	23	28	602	26	42
16	1320	26	93	460	24	30	614	17	28
17	1300	36	126	449	14	17	604	17	28
18	1310	28	99	420	14	16	615	26	43
19	1280	35	121	400	12	13	597	18	29
20	1270	33	113	401	16	17	592	16	26
21	1080	35	102	412	18	20	545	13	19
22	549	19	28	426	15	17	544	14	21
23	487	27	36	406	10	11	538	16	23
24	483	20	26	402	13	14	526	17	24
25	656	9	16	385	13	14	527	16	23
26	1080	37	108	376	18	18	554	13	19
27	1090	35	103	386	14	15	530	12	17
28	1090	18	53	393	18	19	531	11	16
29	1100	15	45	387	25	26	532	13	19
30	965	18	47	390	28	29	532	16	23
31	---	---	---	416	18	20	---	---	---
TOTAL	34830	---	2832	13462	---	546.5	16291	---	903
JULY			AUGUST			SEPTEMBER			
1	524	25	35	532	11	16	671	26	47
2	525	25	35	517	11	15	660	13	23
3	525	16	23	518	14	20	718	9	17
4	530	13	19	525	16	23	663	10	18
5	523	18	25	515	10	14	655	9	16
6	515	18	25	539	6	8.7	642	8	14
7	512	15	21	619	12	20	640	14	24
8	521	14	20	620	19	32	637	33	57
9	518	15	21	609	15	25	626	14	24
10	506	16	22	607	13	21	627	6	10
11	529	440	628	614	7	12	640	7	12
12	563	95	144	608	9	15	623	9	15
13	552	22	33	607	13	21	501	13	18
14	528	21	30	607	13	21	482	11	14
15	518	18	25	669	24	52	474	9	12
16	513	21	29	1080	57	166	467	5	6.3
17	514	14	19	919	38	94	464	5	6.3
18	519	8	11	675	29	54	462	10	12
19	520	12	17	660	502	902	472	8	10
20	522	9	13	633	33	56	473	7	8.9
21	546	12	18	628	24	41	470	3	3.8
22	517	9	13	628	15	25	472	4	5.1
23	522	13	18	694	7	13	471	7	8.9
24	538	9	13	612	11	18	463	6	7.5
25	537	11	16	597	9	15	453	3	3.7
26	536	11	16	602	12	20	452	3	3.7
27	525	13	18	604	11	18	460	3	3.7
28	527	16	23	609	9	15	463	4	5.0
29	519	15	21	618	10	17	468	3	3.8
30	513	26	36	619	10	17	456	3	3.7
31	525	17	24	634	14	24	---	---	---
TOTAL YEAR	16282 334188	---	1411 37544.3	19518	---	1810.7	16225	---	413.4

09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¼ SE¼ NW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 19...	1330	1080	590	2.5	<0.01	0.01	0.12	0.13
JAN 13...	1500	1200	625	0.0	<0.01	<0.01	0.10	0.09
MAR 12...	1645	1280	--	5.0	<0.01	<0.01	0.09	0.15
MAY 22...	1215	427	1100	14.5	0.06	0.05	0.30	0.29
JUL 23...	2000	494	595	22.0	0.01	0.01	0.07	0.09
SEP 09...	1315	604	630	15.0	<0.01	<0.01	<0.05	<0.05

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)
NOV 19...	0.05	0.05	0.4	0.08	0.03	0.05	0.05
JAN 13...	0.05	0.08	0.3	0.03	0.04	0.03	0.02
MAR 12...	0.09	0.14	0.6	0.18	0.04	0.06	0.04
MAY 22...	0.32	0.32	0.7	0.30	0.25	0.25	0.29
JUL 23...	0.14	0.16	0.9	0.12	0.10	0.07	0.09
SEP 09...	0.02	0.03	0.3	0.01	<0.01	<0.01	<0.01

GREEN RIVER BASIN
09218500 BLACKS FORK NEAR MILLBURNE, WY

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

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--July 1939 to current year. 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 National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	35	23	13	13	12	10	31	683	394	150	147
2	72	35	23	12	13	12	10	31	567	393	150	152
3	72	35	23	12	13	12	10	31	486	389	150	152
4	72	36	23	12	12	12	10	65	482	388	132	152
5	71	36	23	12	12	12	10	95	483	388	116	152
6	71	36	23	12	12	12	10	96	481	386	113	152
7	70	29	23	12	12	12	10	116	481	366	113	152
8	70	22	23	12	12	12	10	345	484	347	113	111
9	70	22	23	13	12	12	10	512	480	350	115	78
10	69	22	23	13	12	12	10	495	470	353	118	77
11	57	22	23	13	12	12	10	487	476	348	142	71
12	47	22	23	13	12	12	10	484	474	342	163	66
13	47	22	24	13	12	12	10	487	478	342	162	66
14	46	22	23	12	12	12	10	486	473	307	160	67
15	46	22	23	12	12	12	10	554	471	276	157	73
16	47	22	23	12	12	12	11	586	469	271	156	78
17	47	22	23	12	12	12	11	585	468	267	155	78
18	47	23	23	13	12	11	11	614	478	265	145	78
19	47	23	23	13	12	11	11	635	471	263	138	78
20	47	23	23	13	12	11	12	727	462	263	139	78
21	41	23	23	13	12	11	12	748	459	243	137	78
22	34	23	24	13	12	10	12	680	455	226	137	57
23	34	23	24	13	12	10	12	691	467	223	137	40
24	34	23	24	13	12	10	12	756	481	223	136	40
25	34	24	24	13	12	10	12	744	481	222	133	40
26	34	24	24	13	12	10	12	713	477	220	133	39
27	34	24	24	13	12	10	13	680	470	217	135	39
28	34	24	24	13	12	10	19	687	462	183	140	39
29	34	23	24	13	12	10	24	693	461	157	140	39
30	35	23	19	13	---	10	28	691	427	157	140	39
31	35	---	13	13	---	10	---	689	---	153	140	---
TOTAL	1630	765	708	392	351	348	362	15234	14457	8922	4295	2508
MEAN	52.6	25.5	22.8	12.6	12.1	11.2	12.1	491	482	288	139	83.6
MAX	132	36	24	13	13	12	28	756	683	394	163	152
MIN	34	22	13	12	12	10	10	31	427	153	113	39
AC-FT	3230	1520	1400	778	696	690	718	30220	28680	17700	8520	4970

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

	MEAN	MAX	(WY)	MIN	(WY)
1940	58.9	199	1985	28.9	1978
1941	39.5	137	1986	11.6	1971
1942	29.1	52.7	1987	8.47	1982
1943	26.4	47.8	1988	7.92	1978
1944	25.3	57.2	1989	6.10	1977
1945	28.4	71.7	1990	6.54	1977
1946	58.3	297	1991	7.37	1977
1947	406	743	1992	91.6	1977
1948	703	1484	1993	237	1954
1949	339	1081	1994	65.9	1940
1950	127	317	1995	34.1	1940
1951	85.2	196	1996	31.5	1946

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1940 - 1992
ANNUAL TOTAL	48451	49972	--
ANNUAL MEAN	133	137	161a
HIGHEST ANNUAL MEAN	--	--	281
LOWEST ANNUAL MEAN	--	--	82.9
HIGHEST DAILY MEAN	799	756	2180
LOWEST DAILY MEAN	10	10	1.0
	Jun 18	May 24	Jun 7 1957
	Feb 8 to Mar 7,	Mar 22 to Apr 15	Sep 15,16 1983
	Mar 14 to Apr 9,		
	May 13,14		
ANNUAL SEVEN-DAY MINIMUM	10	10	5.7
INSTANTANEOUS PEAK FLOW	--	803	2530b
INSTANTANEOUS PEAK STAGE	--	4.01	6.76c
ANNUAL RUNOFF (AC-FT)	96100	99120	116600
10 PERCENT EXCEEDS	479	477	507
50 PERCENT EXCEEDS	24	34	44
90 PERCENT EXCEEDS	10	12	14

a Unadjusted.

b From rating curve extended above 1,500 ft³/s.

c From floodmarks, site and datum then in use.

GREEN RIVER BASIN
09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

401

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼ NW¼ NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi².

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

REVISED RECORDS.--WSP 979: Drainage area.

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

REMARKS.--Estimated daily discharges: May 1-21, June 10, and July 15, 16. Records good except those for estimated daily discharges, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	17	170	144	46	48
2	---	---	---	---	---	---	---	17	151	125	45	48
3	---	---	---	---	---	---	---	17	135	104	43	44
4	---	---	---	---	---	---	---	17	142	104	41	41
5	---	---	---	---	---	---	---	17	151	109	42	41
6	---	---	---	---	---	---	---	17	151	107	52	40
7	---	---	---	---	---	---	---	20	151	105	68	40
8	---	---	---	---	---	---	---	26	151	105	68	40
9	---	---	---	---	---	---	---	26	151	105	66	40
10	---	---	---	---	---	---	---	27	147	105	66	38
11	---	---	---	---	---	---	---	27	142	105	65	35
12	---	---	---	---	---	---	---	27	140	105	64	35
13	---	---	---	---	---	---	---	27	140	107	62	35
14	---	---	---	---	---	---	---	35	140	105	60	35
15	---	---	---	---	---	---	---	44	140	100	60	35
16	---	---	---	---	---	---	---	45	140	95	59	35
17	---	---	---	---	---	---	---	45	140	88	59	36
18	---	---	---	---	---	---	---	130	142	90	59	37
19	---	---	---	---	---	---	---	178	105	90	57	38
20	---	---	---	---	---	---	---	175	107	87	56	38
21	---	---	---	---	---	---	---	170	107	85	54	37
22	---	---	---	---	---	---	---	170	109	83	54	37
23	---	---	---	---	---	---	---	173	113	72	54	37
24	---	---	---	---	---	---	---	170	113	65	53	34
25	---	---	---	---	---	---	---	178	133	72	50	32
26	---	---	---	---	---	---	---	186	146	72	50	31
27	---	---	---	---	---	---	---	183	142	66	48	31
28	---	---	---	---	---	---	---	181	146	62	45	31
29	---	---	---	---	---	---	---	178	146	62	46	31
30	---	---	---	---	---	---	---	176	146	59	46	31
31	---	---	---	---	---	---	---	173	---	50	48	---
TOTAL	---	---	---	---	---	---	---	2872	4137	2833	1686	1111
MEAN	---	---	---	---	---	---	---	92.6	138	91.4	54.4	37.0
MAX	---	---	---	---	---	---	---	186	170	144	68	48
MIN	---	---	---	---	---	---	---	17	105	50	41	31
AC-FT	---	---	---	---	---	---	---	5700	8210	5620	3340	2200

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

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	15.9	10.9	8.10	7.15	7.19	8.00	20.5	126	216	88.9	33.7	19.6																					
MAX	34.8	19.0	16.9	16.4	13.4	15.0	90.0	201	430	269	120	59.8																					
(WY)	1962	1952	1966	1966	1966	1943	1946	1952	1965	1965	1965	1965																					
MIN	5.21	5.50	2.11	1.34	1.55	2.14	5.01	31.6	59.3	15.9	6.64	6.68																					
(WY)	1957	1957	1963	1963	1963	1963	1970	1953	1954	1940	1940	1956																					

SUMMARY STATISTICS

	FOR 1992 WATER YEAR*	WATER YEARS 1939 - 1971
ANNUAL MEAN	---	47.1
HIGHEST ANNUAL MEAN	---	88.9
LOWEST ANNUAL MEAN	---	25.4
HIGHEST DAILY MEAN	186 May 26	1030 Jun 10 1965
LOWEST DAILY MEAN	17 May 1-6	1.0 Dec 17 1962
ANNUAL SEVEN-DAY MINIMUM	---	1.0 Dec 17 1962
INSTANTANEOUS PEAK FLOW	192 May 26	1450 Jun 10 1965#
INSTANTANEOUS PEAK STAGE	5.08 May 26	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 1992.

GREEN RIVER BASIN
09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION.--Lat 42°06'38", long 110°42'32", in NE¼ SE¼ NW¼ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi downstream from Pole Creek, 4.6 mi upstream from Taylor Creek, and 22 mi northwest of Frontier.

DRAINAGE AREA.--128 mi².

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Elevation of gage is 7,455 ft above National Geodetic Vertical Datum of 1929, from topographic map. October 1952 to Sept. 2, 1971, at site 270 ft upstream at present datum, Sept. 3, 1971, to July 30, 1980, at site 150 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Oct. 31 to Mar. 26. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 23	0100	ice jam	*4.36	No peak greater than base discharge.			
May 01	0730	*230	3.80				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	24	21	23	22	24	40	216	100	33	7.1	6.4
2	17	23	20	23	23	26	50	194	94	38	6.7	7.9
3	16	21	21	23	24	29	66	183	89	37	6.8	7.4
4	15	23	21	24	24	31	88	183	83	32	6.5	8.2
5	15	25	23	25	23	33	94	190	79	29	6.6	17
6	16	29	24	26	22	28	82	193	77	26	5.6	14
7	16	31	24	26	20	27	67	193	72	25	5.4	10
8	16	29	24	25	20	28	68	193	68	25	5.8	9.2
9	16	27	23	24	21	28	75	203	67	24	4.6	8.6
10	16	26	23	23	22	28	93	191	61	22	4.1	8.4
11	17	25	23	22	23	29	96	163	58	21	3.4	8.8
12	17	23	23	22	23	32	106	149	55	24	3.0	9.5
13	17	23	24	21	23	34	115	150	51	32	2.4	12
14	16	24	25	21	24	36	132	151	49	28	2.1	11
15	17	24	23	21	24	37	158	146	54	24	1.9	9.4
16	17	22	22	21	24	36	157	146	61	21	1.9	9.3
17	16	23	23	22	23	39	170	145	66	19	4.2	8.4
18	17	24	23	20	22	41	179	146	56	17	5.7	8.3
19	17	25	23	19	22	36	131	148	47	16	5.5	8.3
20	17	26	23	20	23	31	120	152	46	16	4.4	8.3
21	17	25	22	19	24	30	122	159	44	19	3.8	8.6
22	17	24	21	20	24	33	128	170	38	18	4.0	8.8
23	41	23	21	21	23	35	120	154	36	17	4.4	8.8
24	29	21	22	22	22	27	100	149	35	14	4.3	9.8
25	24	23	22	24	20	25	103	145	35	13	4.4	12
26	23	24	22	24	20	30	115	138	41	12	4.4	12
27	23	25	22	23	20	34	148	137	41	11	4.4	12
28	23	26	23	23	21	35	179	128	40	10	4.4	11
29	20	25	23	23	23	34	192	121	34	9.7	4.4	10
30	19	24	23	23	---	40	209	118	32	9.0	4.4	9.9
31	23	---	23	22	---	48	---	109	---	7.9	4.4	---
TOTAL	588	737	700	695	649	1004	3503	4963	1709	649.6	141.0	293.3
MEAN	19.0	24.6	22.6	22.4	22.4	32.4	117	160	57.0	21.0	4.55	9.78
MAX	41	31	25	26	24	48	209	216	100	38	7.1	17
MIN	15	21	20	19	20	24	40	109	32	7.9	1.9	6.4
AC-FT	1170	1460	1390	1380	1290	1990	6950	9840	3390	1290	280	582

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1992, BY WATER YEAR (WY)

MEAN	22.4	19.6	16.1	14.6	15.4	20.5	108	425	401	98.2	29.5	21.6
MAX	54.2	34.4	27.8	26.4	29.1	38.2	398	970	1038	296	64.0	51.9
(WY)	1983	1983	1984	1984	1958	1958	1971	1971	1986	1975	1983	1984
MIN	11.7	9.37	9.37	6.23	5.61	6.77	19.8	40.5	24.0	9.32	4.55	8.26
(WY)	1978	1961	1991	1967	1967	1965	1975	1977	1977	1977	1992	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1953 - 1992		
ANNUAL TOTAL	26136.2			15631.9			--		
ANNUAL MEAN	71.6			42.7			99.5		
HIGHEST ANNUAL MEAN	--			--			214		
LOWEST ANNUAL MEAN	--			--			17.7		
HIGHEST DAILY MEAN	579	Jun	5	216	May	1	2000	Jun	5
LOWEST DAILY MEAN	8.4	Jan	29	1.9	Aug	15, 16	.10	Aug	17
ANNUAL SEVEN-DAY MINIMUM	8.8	Jan	25	2.7	Aug	10	.62	Aug	11
INSTANTANEOUS PEAK FLOW	--			230a			2230b		
INSTANTANEOUS PEAK STAGE	--			4.36c			8.10d		
ANNUAL RUNOFF (AC-FT)	51840			31010			72100		
10 PERCENT EXCEEDS	234			131			311		
50 PERCENT EXCEEDS	23			23			22		
90 PERCENT EXCEEDS	10			8.3			12		

a Gage height, 3.80 ft.
b Gage height, 6.72 ft.
c Ice jam.
d Site then in use.

GREEN RIVER BASIN
09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼ NE¼ NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft upstream from bridge on U.S. Highway 30, 4.2 mi upstream from Meadow Springs Wash, and 8.5 mi east of Little America.

DRAINAGE AREA.--3,100 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 13, Nov. 19 to Mar. 10, May 11-21 and July 15 to Aug. 4. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft, from State Line Reservoir, capacity, 14,000 acre-ft, since April 1980, numerous smaller reservoirs, and diversions for upstream mines and irrigation of about 76,100 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	110	110	56	50	1200	143	186	176	62	3.0	.00
2	68	105	80	56	48	1400	143	202	186	66	2.0	.00
3	61	100	100	56	50	1200	141	214	164	90	1.6	.00
4	55	95	105	56	46	1000	134	191	137	142	1.4	.00
5	55	90	107	60	54	900	124	155	116	124	1.3	11
6	52	90	109	58	50	800	123	136	88	101	1.2	14
7	51	120	110	60	50	900	121	116	80	78	1.0	14
8	51	150	115	65	48	1000	119	108	75	60	.91	14
9	53	180	125	70	56	700	112	108	80	53	.75	13
10	53	230	130	70	62	525	100	114	87	50	.88	13
11	55	250	120	56	80	431	94	150	84	59	1.2	13
12	59	240	120	45	85	396	98	180	89	66	1.0	12
13	58	200	120	40	90	341	106	140	81	63	.95	11
14	55	170	115	42	100	339	122	120	75	70	.90	9.0
15	50	145	110	40	120	328	144	100	76	85	.72	7.6
16	49	157	100	45	150	318	143	95	70	60	.52	5.9
17	47	153	100	50	170	306	129	94	72	55	.41	4.6
18	44	172	95	50	170	290	112	106	76	45	.31	3.3
19	41	180	105	45	160	258	103	95	86	35	.11	2.2
20	41	180	100	35	200	227	114	87	91	40	.00	1.5
21	44	170	95	33	250	196	158	78	85	45	.00	.96
22	46	180	90	32	320	184	146	80	74	35	.00	.50
23	53	170	80	35	360	171	129	119	68	40	.00	.15
24	65	160	70	40	375	167	108	160	61	45	.00	.00
25	68	150	66	50	450	163	108	134	55	35	.00	.00
26	89	200	64	60	600	158	113	122	143	25	.00	.00
27	99	230	60	55	800	150	98	121	128	15	.00	3.0
28	107	210	58	50	1000	149	85	125	71	11	.00	9.7
29	110	170	58	50	1100	146	84	158	66	8.5	.00	10
30	120	130	58	50	---	146	118	163	69	6.0	.00	11
31	110	---	56	54	---	147	---	156	---	4.0	.00	---
TOTAL	1985	4887	2931	1564	7094	14636	3572	4113	2809	1673.5	20.16	184.41
MEAN	64.0	163	94.5	50.5	245	472	119	133	93.6	54.0	.65	6.15
MAX	120	250	130	70	1100	1400	158	214	186	142	3.0	14
MIN	41	90	56	32	46	146	84	78	55	4.0	.00	.00
AC-FT	3940	9690	5810	3100	14070	29030	7090	8160	5570	3320	40	366

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	99.3	108	80.9	81.5	113	319	532	1005	1131	313	112	86.1																			
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	16.3	20.2	3.94	26.4	33.9	51.2	21.1	14.0	4.36	.65	1.08																			
(WY)	1980	1980	1989	1991	1989	1964	1990	1977	1977	1977	1992	1988																			

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	63744.0	45469.07	--
ANNUAL MEAN	175	124	333
HIGHEST ANNUAL MEAN	--	--	888
LOWEST ANNUAL MEAN	--	--	29.0
HIGHEST DAILY MEAN	4840	1400	9340
LOWEST DAILY MEAN	3.3	.00	.00
ANNUAL SEVEN-DAY MINIMUM	3.5	.00	.00
INSTANTANEOUS PEAK FLOW	--	1400a	9980
INSTANTANEOUS PEAK STAGE	--	9.43b	10.90
ANNUAL RUNOFF (AC-FT)	126400	90190	241500
10 PERCENT EXCEEDS	247	201	963
50 PERCENT EXCEEDS	95	84	113
90 PERCENT EXCEEDS	18	1.3	20

a Highest daily mean, estimated, backwater from ice.
b Backwater from ice.

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.

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 daily, 3,680 microsiemens, Dec. 19; minimum daily, 848 microsiemens, May 5.

WATER TEMPERATURES: Maximum, 26.3°C, June 23; minimum, 0.0°C on many days January through March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
OCT											
09...	1800	55	1850	14.0	570	140	54	220	4	4.0	210
NOV											
18...	1500	161	1600	2.0	470	120	41	190	4	4.9	230
JAN											
14...	1030	42	1440	0.0	490	130	40	130	3	3.1	240
MAR											
10...	1600	524	980	1.0	280	70	26	110	3	3.9	180
APR											
15...	1130	141	1370	11.0	430	100	44	150	3	6.1	220
MAY											
21...	1520	78	1330	16.5	370	89	35	180	4	5.8	200
JUN											
16...	1330	71	1520	14.5	430	100	44	200	4	5.6	260
JUL											
23...	1400	38	1360	23.0	470	110	48	210	4	4.0	210
AUG											
12...	1515	1.0	2290	24.0	510	96	65	360	7	6.1	150
SEP											
11...	1415	13	1270	17.0	320	69	37	160	4	3.8	140

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO ₂)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT 09...	720	66	0.6	7.1	1340	1.82	199	<0.1	380	<50	<5
NOV 18...	500	77	0.5	10	1090	1.48	473	1.6	120	120	--
JAN 14...	400	44	0.4	8.9	902	1.23	102	0.3	70	<50	--
MAR 10...	280	51	0.3	8.5	660	0.90	934	0.6	200	<50	--
APR 15...	390	78	0.4	7.3	908	1.23	346	<0.1	310	<50	--
MAY 21...	380	86	0.9	9.9	907	1.23	191	<0.1	350	<50	--
JUN 16...	470	68	0.7	11	1060	1.44	202	<0.1	350	<50	--
JUL 23...	610	51	0.8	7.9	1170	1.59	120	<0.1	350	<50	--
AUG 12...	930	89	0.9	2.2	1640	2.23	4.43	<0.1	530	<50	--
SEP 11...	480	43	0.6	1.0	879	1.19	30.8	<0.1	210	<50	--

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	1920	2590	2690	1290	1100	1270	1500	1360	1610	---	---
2	1600	2050	2610	2410	1300	1010	1270	1150	1360	1550	---	---
3	1700	2160	2780	2390	1310	1060	1270	917	1380	1220	---	---
4	1780	2150	2760	2540	1320	---	1270	861	1390	1650	1960	---
5	1870	1960	2940	2560	1320	---	1260	848	1430	---	1980	3210
6	1920	1650	3060	2430	1230	---	---	862	1430	---	2080	3510
7	1920	---	3090	2350	1290	---	---	873	1460	---	2140	2270
8	1890	1310	3100	2090	1330	---	---	947	1480	---	2180	1480
9	1870	1320	3030	1440	1360	---	---	999	1510	---	2170	1030
10	1830	1450	2940	1190	1370	---	---	1050	1540	---	2170	1010
11	1850	1360	2930	1240	1410	1010	---	997	1540	---	2250	1220
12	1890	1150	2940	1370	1440	1040	---	1040	1520	---	2310	1480
13	1820	1570	3040	1100	1450	1080	---	1080	1510	---	2350	1470
14	1790	1540	3040	1440	1450	1070	---	1090	1510	---	2370	1570
15	1800	1460	3590	1490	1470	1070	---	1120	1500	---	2350	1650
16	1810	1530	3340	1310	1480	1070	---	1150	1530	---	2430	1480
17	1830	1410	3230	1190	1540	1060	---	1140	1550	---	2450	1500
18	1840	1490	3360	1120	1570	1040	---	1170	1560	---	2450	1480
19	1870	1730	3680	1130	1590	1040	---	1240	1590	---	2460	1490
20	1970	2010	3200	---	1650	1040	---	1260	1590	---	---	1580
21	2030	2020	2990	---	1700	1070	---	1290	1590	---	---	1610
22	2070	1740	3130	---	1670	1100	---	1320	1590	---	---	1630
23	2010	1930	2960	---	1700	1130	---	1330	1640	---	---	1640
24	1990	2040	3080	---	1660	1150	---	1350	1620	---	---	---
25	1970	2240	3260	---	1550	1220	---	1380	1680	---	---	---
26	2020	---	2940	---	1410	1240	---	1330	1780	---	---	---
27	1900	---	2770	---	1360	1260	---	1290	1730	---	---	1720
28	1830	---	3010	---	1210	1270	---	1350	1530	---	---	1920
29	2000	---	3120	---	1180	1280	---	1360	1390	---	---	2080
30	2100	---	3050	---	---	1280	---	1380	1400	---	---	2400
31	2180	---	2940	1270	---	1280	---	1370	---	---	---	---
MEAN	1890	---	3050	---	1430	---	---	1160	1520	---	---	---
MAX	2180	---	3680	---	1700	---	---	1500	1780	---	---	---
MIN	1600	---	2590	---	1180	---	---	848	1360	---	---	---

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	11.2	---	---	1.6	1.5	.5	.4	.3	.2	.4	.2
2	15.2	7.1	---	---	1.6	1.5	.5	.4	.3	.1	---	---
3	13.1	9.2	---	---	1.6	1.5	.5	.3	.2	.0	---	---
4	12.2	7.2	---	---	1.6	1.4	.5	.3	.1	.0	---	---
5	11.5	7.5	---	---	1.5	1.4	.4	.3	.1	.0	---	---
6	12.9	7.4	---	---	1.5	1.4	.3	.3	.1	.0	---	---
7	12.7	7.5	---	---	1.4	1.4	.3	.3	.0	.0	---	---
8	13.8	7.8	4.6	3.2	1.4	1.3	.3	.2	.1	.0	---	---
9	14.5	7.4	4.7	3.3	.9	.9	.4	.3	.1	.0	---	---
10	14.5	7.7	5.9	4.2	1.0	.9	.4	.3	.1	.0	---	---
11	15.1	6.7	5.6	3.9	1.0	.9	.4	.1	.1	.0	2.5	.0
12	13.2	8.1	4.5	2.7	1.0	.9	.2	.1	.1	.0	3.0	.0
13	11.9	7.3	4.4	2.1	1.0	.9	.3	.2	.1	.0	4.7	1.3
14	11.3	6.0	4.2	1.8	1.0	.8	.2	.0	.1	.0	5.4	2.2
15	12.2	6.0	1.7	1.0	.9	.8	.2	.0	.1	.0	5.7	2.4
16	11.3	5.5	1.9	.9	.8	.8	.2	.1	.1	.0	6.5	3.2
17	10.9	5.2	1.6	.7	.8	.8	.2	.1	.2	.0	5.6	3.3
18	9.5	5.4	2.5	.8	.8	.7	.2	.1	.2	.0	3.5	1.3
19	8.7	4.8	2.0	1.7	.8	.6	.2	.1	.2	.1	4.6	1.2
20	8.8	4.6	1.8	1.6	.7	.6	.2	.0	.2	.1	5.1	1.2
21	8.1	4.3	2.0	1.6	.7	.6	.2	.0	.2	.0	6.1	2.1
22	7.1	4.0	1.9	1.7	.7	.6	.2	.0	.2	.0	6.4	1.3
23	---	---	1.9	1.7	.7	.6	.1	.0	.2	.1	6.4	2.9
24	---	---	1.8	1.7	.7	.6	.1	.0	.2	.1	7.4	3.3
25	---	---	1.8	1.7	.7	.5	.1	.0	.3	.1	7.9	3.3
26	---	---	1.8	1.7	.6	.5	.1	.0	.8	.2	8.9	3.3
27	---	---	1.8	1.6	.6	.5	.1	.0	.4	.3	8.9	5.0
28	---	---	1.7	1.6	.6	.5	.1	.0	.4	.2	10.4	5.0
29	---	---	1.7	1.6	.6	.5	.1	.0	.4	.3	10.2	5.0
30	---	---	1.7	1.6	.6	.5	.1	.0	---	---	11.5	5.2
31	---	---	---	---	.6	.4	.1	.0	---	---	8.8	6.0
MONTH	---	---	---	---	1.6	.4	.5	.0	.8	.0	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.2	3.2	16.4	13.3	20.1	13.8	19.0	13.8	---	---	---	---
2	11.5	4.3	16.7	11.4	20.7	15.0	19.1	12.3	---	---	---	---
3	12.2	5.2	17.7	12.4	20.0	15.9	22.6	14.0	---	---	---	---
4	---	---	18.7	13.4	19.0	13.9	22.3	16.6	---	---	---	---
5	---	---	20.0	14.4	19.9	13.8	21.7	15.9	22.6	17.8	17.4	12.2
6	---	---	20.1	15.2	21.1	12.6	22.7	15.9	24.1	17.0	16.5	12.4
7	---	---	18.8	15.1	21.3	14.1	22.2	16.5	24.8	18.0	17.3	11.2
8	---	---	18.6	14.5	22.5	14.3	20.7	15.9	23.8	18.7	15.7	11.5
9	---	---	16.7	12.3	23.7	15.0	22.0	15.5	25.4	18.1	17.5	10.2
10	---	---	14.8	10.5	24.9	16.2	22.7	14.5	25.7	18.1	18.7	11.3
11	---	---	15.8	12.1	20.7	16.6	21.9	15.9	26.2	19.7	18.6	13.0
12	---	---	16.8	12.5	22.8	14.7	19.2	15.9	24.7	17.4	16.5	13.7
13	---	---	15.8	14.1	21.5	13.5	---	---	25.4	18.2	16.4	10.7
14	---	---	16.6	13.1	17.1	12.8	---	---	23.4	18.7	17.8	11.5
15	13.5	7.7	16.8	14.5	16.2	10.5	---	---	25.6	18.0	18.0	12.7
16	13.9	9.6	17.4	13.6	15.7	10.4	---	---	23.3	19.0	18.0	12.7
17	13.9	9.1	16.9	14.6	20.2	10.4	---	---	24.6	17.8	18.8	13.6
18	9.9	5.9	18.2	15.2	23.7	15.1	---	---	24.3	17.0	18.2	11.5
19	11.8	5.0	17.7	15.6	24.1	16.7	---	---	24.0	16.9	17.6	12.1
20	13.9	6.9	17.2	15.6	24.7	16.2	---	---	---	---	16.6	12.3
21	14.5	8.8	16.7	15.7	25.4	16.2	---	---	---	---	17.4	11.5
22	14.1	10.3	18.2	14.2	26.1	18.1	---	---	---	---	18.6	12.4
23	12.7	8.5	19.6	14.9	26.3	18.0	---	---	---	---	17.8	13.2
24	14.4	6.6	20.6	17.1	24.0	19.0	---	---	---	---	---	---
25	16.4	8.7	20.2	16.6	21.8	16.0	---	---	---	---	---	---
26	18.4	11.1	18.8	16.2	23.0	15.0	---	---	---	---	---	---
27	18.8	13.1	16.8	14.2	21.6	16.0	---	---	---	---	15.4	8.3
28	19.2	12.7	17.2	13.1	24.1	16.0	---	---	---	---	15.5	9.5
29	19.8	13.0	16.9	14.1	23.8	18.1	---	---	---	---	16.1	10.3
30	19.4	14.4	16.9	13.8	21.1	16.0	---	---	---	---	16.2	10.3
31	---	---	19.0	13.0	---	---	---	---	---	---	---	---
MONTH	---	---	20.6	10.5	26.3	10.4	---	---	---	---	---	---

GREEN RIVER BASIN
09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼ NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi north of Wyoming-Utah State line, 1.3 mi upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft, and 3.0 mi northeast of Manila, UT.

DRAINAGE AREA.--520 mi², approximately.

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970. WDR WY-92-1: 1991(m).

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Oct. 25, Oct. 27 to Nov. 7, Nov. 10, 11, and Nov. 13 to Mar. 8. Records fair except those for estimated daily discharges, which are poor. Peoples Irrigation Canal diverts 5.9 mi upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

REVISIONS.--The revised daily discharges, in cubic feet per second, for the period Sept. 12-30, 1991 are given below. Corrections to resultant statistical values published in the report for 1991 are included. These figures supersede those published in Wyoming Data Report for 1991.

Sept. 12...143	Sept. 17....89	Sept. 22....45	Sept. 27....44
13...129	18....76	23....49	28....42
14...113	19....71	24....49	29....41
15...103	20....61	25....46	30....52
16...96	21....55	26....45	

	TOTAL	MEAN	AC-FT	10-PERCENT EXCEEDS
September 1991	2210	73.7	4380	--
Wtr Yr 1991	28163.3	77.2	55860	117
September 1929-1991	--	35.5	--	--
Wtr Yr 1929-1991	--	--	61060	--

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	100	60	65	50	160	77	306	124	29	6.0	3.6
2	44	120	60	65	50	170	67	345	101	41	5.4	3.2
3	38	120	60	65	55	170	61	294	82	43	5.0	3.5
4	34	110	60	65	55	160	63	211	67	38	4.7	3.2
5	34	140	65	70	55	150	60	160	65	26	4.4	2.6
6	36	150	70	70	55	140	62	144	49	19	4.4	2.6
7	38	160	70	65	55	130	55	173	35	15	4.3	2.6
8	40	144	75	60	60	120	51	200	46	14	4.4	2.6
9	38	140	70	55	65	102	53	213	46	13	4.4	2.3
10	35	140	65	50	70	118	58	198	41	11	4.1	2.4
11	32	130	65	55	75	133	71	126	35	12	4.1	2.4
12	26	123	60	60	75	97	82	101	43	18	4.1	2.4
13	32	123	70	55	75	130	81	106	37	31	3.9	2.5
14	31	120	75	58	70	144	80	170	29	26	4.0	2.7
15	32	110	70	60	65	191	79	375	29	14	4.2	3.0
16	36	95	65	60	65	174	95	293	37	13	4.1	3.0
17	31	85	60	60	60	136	110	249	36	12	4.1	3.0
18	26	90	65	55	60	93	115	201	33	11	3.8	2.8
19	26	80	65	55	60	92	145	160	25	8.4	3.0	2.1
20	34	73	65	60	70	79	113	203	20	8.8	3.0	2.1
21	43	70	60	55	80	77	95	308	19	11	3.0	2.2
22	55	65	55	60	80	77	102	266	16	12	2.8	2.4
23	64	60	55	65	75	77	103	186	15	9.3	2.8	2.4
24	71	65	50	65	70	78	99	152	15	8.6	2.9	2.7
25	71	70	55	70	75	75	94	155	15	8.2	3.1	3.2
26	73	75	60	65	90	78	102	427	111	7.7	3.1	3.5
27	79	70	60	65	110	78	118	391	138	6.6	3.1	4.7
28	75	75	60	65	140	85	140	212	74	6.8	3.2	5.1
29	65	70	65	60	150	97	178	148	47	7.0	3.2	4.5
30	61	65	65	60	---	97	227	156	31	6.5	3.2	3.3
31	80	---	65	55	---	87	---	144	---	6.1	3.8	---
TOTAL	1432	3038	1965	1893	2115	3595	2836	6773	1461	493.0	119.6	88.6
MEAN	46.2	101	63.4	61.1	72.9	116	94.5	218	48.7	15.9	3.86	2.95
MAX	80	160	75	70	150	191	227	427	138	43	6.0	5.1
MIN	26	60	50	50	50	75	51	101	15	6.1	2.8	2.1
AC-FT	2840	6030	3900	3750	4200	7130	5630	13430	2900	978	237	176

GREEN RIVER BASIN
09229500 HENRYS FORK NEAR MANILA, UT--CONTINUED

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)												
MEAN	47.8	55.5	47.4	42.5	46.3	69.4	86.1	152	280	95.3	51.2	35.0
MAX	176	117	105	103	88.6	165	196	541	1375	703	323	191
(WY)	1983	1984	1985	1984	1984	1929	1944	1984	1983	1975	1965	1929
MIN	.000	12.8	20.5	15.2	15.0	24.9	3.94	3.79	.10	.000	.090	.000
(WY)	1935	1935	1933	1933	1933	1957	1935	1977	1934	1934	1940	1934

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1929 - 1992		
ANNUAL TOTAL	31750.8			25809.2			--		
ANNUAL MEAN	87.0			70.5			84.1		
HIGHEST ANNUAL MEAN	--			--			273		
LOWEST ANNUAL MEAN	--			--			16.5		
HIGHEST DAILY MEAN	998	Jun 14		427	May 26		3780	Jun 13	1965
LOWEST DAILY MEAN	7.6	May 8		2.1	Sep 19, 20		.00	Several days	in 1933-35,
								1939-40	
ANNUAL SEVEN-DAY MINIMUM	8.7	May 8		2.4	Sep 18		.00	Jun 6	1934
INSTANTANEOUS PEAK FLOW	--			1880	May 26		6750a	Aug 3	1936
INSTANTANEOUS PEAK STAGE	--			6.70	May 26		9.42b	Jul 15	1959
ANNUAL RUNOFF (AC-FT)	62980			51190			60900		
10 PERCENT EXCEEDS	130			150			171		
50 PERCENT EXCEEDS	50			60			48		
90 PERCENT EXCEEDS	24			3.4			4.4		

a Maximum discharge determined, gage height, 7.19 ft, site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s on basis of slope-area measurement of peak flow.
b Site and datum then in use, discharge not determined.

GREEN RIVER BASIN

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼ NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi southwest of Dutch John, and 4.9 mi northeast of Greendale.

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,871 ft above NGVD of 1929, (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 upstream from 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, 3,389,000 acre-ft, Oct. 1, elevation, 6,031.11 ft; minimum observed, 3,106,000 acre-ft, Sept. 30, elevation, 6,023.60 ft.

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

6,020	2,977,000	6,030	3,346,000
6,025	3,157,000	6,033	3,464,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3389	3362	3373	3326	3297	3312	3332	3336	3257	3242	3209	3158
2	3389	3361	3373	3325	3298	3312	3332	3336	3255	3242	3207	3156
3	3388	3361	3372	3323	3298	3312	3332	3335	3256	3242	3206	3154
4	3387	3361	3372	3322	3298	3313	3334	3333	3255	3242	3204	3153
5	3385	3362	3372	3320	3298	3314	3335	3329	3255	3241	3202	3151
6	3385	3363	3371	3318	3299	3314	3337	3323	3256	3241	3201	3149
7	3384	3366	3371	3317	3300	3314	3337	3316	3255	3240	3199	3147
8	3383	3367	3370	3316	3300	3315	3337	3309	3254	3238	3197	3145
9	3381	3370	3370	3314	3300	3315	3337	3302	3254	3237	3196	3143
10	3380	3373	3369	3313	3300	3316	3339	3298	3253	3236	3194	3140
11	3380	3373	3369	3312	3301	3316	3340	3291	3254	3235	3193	3138
12	3378	3372	3368	3311	3302	3317	3341	3283	3253	3234	3191	3135
13	3378	3374	3366	3311	3302	3319	3340	3276	3254	3234	3189	3132
14	3377	3376	3364	3310	3303	3321	3342	3272	3254	3232	3188	3130
15	3376	3374	3362	3310	3304	3321	3344	3270	3254	3231	3186	3127
16	3376	3375	3360	3309	3305	3322	3347	3266	3254	3229	3185	3126
17	3374	3374	3358	3308	3305	3324	3348	3263	3252	3228	3184	3124
18	3374	3374	3356	3308	3306	3325	3348	3260	3251	3227	3183	3123
19	3373	3372	3353	3307	3306	3325	3347	3257	3249	3226	3181	3121
20	3372	3372	3352	3306	3306	3326	3346	3254	3249	3224	3180	3120
21	3371	3372	3351	3305	3306	3327	3347	3254	3249	3223	3177	3118
22	3369	3370	3349	3305	3306	3328	3345	3255	3248	3222	3176	3116
23	3367	3368	3347	3304	3306	3327	3343	3255	3247	3221	3174	3115
24	3366	3367	3345	3303	3306	3328	3342	3257	3248	3219	3172	3114
25	3365	3367	3343	3302	3307	3327	3341	3256	3247	3218	3170	3113
26	3364	3368	3341	3301	3308	3328	3341	3259	3246	3217	3168	3112
27	3365	3368	3338	3300	3309	3328	3340	3257	3246	3215	3166	3111
28	3366	3373	3336	3300	3310	3329	3340	3256	3244	3214	3164	3109
29	3365	3373	3333	3299	3311	3329	3340	3258	3243	3213	3163	3108
30	3363	3373	3331	3298	---	3330	3338	3259	3243	3211	3161	3106
31	3363	---	3328	3297	---	3332	---	3259	---	3210	3159	---
MAX	3390	3380	3370	3330	3310	3330	3350	3340	3260	3240	3210	3160
MIN	3360	3360	3330	3300	3300	3310	3330	3250	3240	3210	3160	3110
(#)	6030.43	6030.69	6029.53	6028.30	6028.08	6029.60	6029.78	6027.72	6027.28	6026.43	6025.05	6023.60
(*)	-27	+10	-45	-31	+14	+21	+6	-79	-16	-33	-51	-53
CAL YR 1991	(*) +265											
WTR YR 1992	(*) -284											
(#)	Elevation, in feet, at end of month.											
(*)	Change in contents, in thousands of acre-feet.											

GREEN RIVER BASIN
09234500 GREEN RIVER NEAR GREENDALE, UT

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LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼ NW¼ SE¼ sec.15. T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407 mi from mouth.

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

WATER-DISCHARGE RECORDS

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,420 ft³/s, May 6, gage height, 11.52 ft; minimum daily, 823 ft³/s, Nov. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	1550	1410	2370	1810	1130	1470	1930	1550	852	1070	1550
2	1550	1810	1560	2220	1800	1600	1200	1200	1590	855	1070	1520
3	1460	1610	1590	2410	1790	1880	1230	1350	868	854	1070	1550
4	1640	1690	1270	2370	1660	1540	1080	2260	860	853	1300	1540
5	1640	1240	1200	2370	1780	1340	1020	3130	897	853	1290	1550
6	1650	1280	1720	2370	1450	1660	1310	4220	860	852	1300	1550
7	1610	1210	981	2370	1440	1560	1490	4220	860	995	1290	1560
8	1640	1190	1310	2340	1750	1340	1540	4290	875	1090	1290	1550
9	1640	1050	1150	2360	1650	1440	1640	4300	863	1070	1290	1560
10	1640	851	1460	2380	1580	1490	1670	4300	960	1070	1300	1540
11	1640	1370	1390	2350	1490	1380	1230	4300	912	1070	1290	1550
12	1650	1510	1650	2370	1410	1400	1770	4310	861	1070	1300	1480
13	1650	1380	2080	2350	1360	1170	1740	4310	863	1070	1330	1550
14	1650	1390	2500	2350	1100	1290	1300	3900	863	1110	1340	1560
15	1650	1840	2560	2180	1430	1700	1320	3520	860	1070	1320	1520
16	1650	1650	2500	2210	1400	1640	1160	3140	864	1090	1310	863
17	1650	1580	2370	2320	1460	1070	1170	2750	864	1070	1330	846
18	1670	1840	2340	2250	1270	1620	1680	2370	862	1120	1330	848
19	1650	2260	2340	2360	1730	1190	1600	1960	861	1080	1330	849
20	1660	1670	2360	2330	1490	1430	1700	1550	859	1070	1390	850
21	1660	1580	2360	2350	1500	1250	2030	1100	903	1070	1520	1100
22	1650	1580	2480	2300	1350	1510	1930	871	857	1090	1330	1190
23	1650	1820	2310	2300	1980	1620	1760	874	863	1090	1350	899
24	1670	1340	2440	2370	1350	1600	1060	878	860	1090	1550	895
25	1690	1340	2480	2290	1200	1760	1610	882	864	1070	1570	896
26	1580	1320	2440	2050	1120	1530	1310	868	858	1070	1550	896
27	1660	910	2440	2370	1150	1630	1720	866	856	1100	1570	896
28	1560	825	2380	2350	927	1190	1490	869	856	1070	1560	896
29	1710	849	2480	2170	1170	1350	1890	867	860	1070	1550	899
30	1650	823	2430	2150	---	1270	2120	869	852	1070	1550	897
31	1640	---	2440	2370	---	1020	---	866	---	1070	1550	---
TOTAL	50650	42358	62421	71700	42597	44600	45240	73120	27481	32024	42190	36850
MEAN	1634	1412	2014	2313	1469	1439	1508	2359	916	1033	1361	1228
MAX	1710	2260	2560	2410	1980	1880	2120	4310	1590	1120	1570	1560
MIN	1460	823	981	2050	927	1020	1020	866	852	852	1070	846
AC-FT	100500	84020	123800	142200	84490	88460	89730	145000	54510	63520	83680	73090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	MEAN	1643	1671	1772	1745	1771	1639	2082	2815	3575	2669	1955	1608
MAX	3911	3655	3626	4145	4090	3818	6288	9610	11420	10130	5055	3729	
(WY)	1983	1983	1973	1985	1984	1977	1962	1952	1957	1983	1983	1983	
MIN	128	90.0	268	367	442	106	134	130	125	104	102	113	
(WY)	1964	1963	1963	1963	1955	1963	1963	1963	1963	1963	1963	1963	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1951 - 1992
ANNUAL TOTAL	500034	571231	--
ANNUAL MEAN	1370	1561	2079
HIGHEST ANNUAL MEAN	--	--	4270
LOWEST ANNUAL MEAN	--	--	231
HIGHEST DAILY MEAN	2560	Dec 15	4310
LOWEST DAILY MEAN	823	Nov 30	823
ANNUAL SEVEN-DAY MINIMUM	869	Apr 2	853
ANNUAL RUNOFF (AC-FT)	991800	1133000	1506000
10 PERCENT EXCEEDS	1760	2370	3870
50 PERCENT EXCEEDS	1390	1490	1600
90 PERCENT EXCEEDS	871	864	645

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.

WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.

SEDIMENT DATA: October 1956 to September 1959.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--

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

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

SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 microsiemens, Nov. 9, 1971; minimum recorded, 550 microsiemens, June 25, July 4.

WATER TEMPERATURES: Maximum recorded, 17.2°C, July 9, 1989; minimum recorded 1.6°C, Mar. 1, 2, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 818 microsiemens, Jan. 29, 31; minimum recorded, 682 microsiemens, June 20.

WATER TEMPERATURES: Maximum recorded, 14.6°C, Oct. 3; minimum recorded, 2.7°C, Feb. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS TOTAL (MG/L AS CaCO3)
OCT									
02...	1430	1710	740	8.2	24.5	12.5	10.2	700	--
DEC									
04...	1240	860	790	7.8	-5.0	6.0	10.4	620	260
FEB									
04...	1200	2180	816	8.1	2.0	3.0	12.2	625	260
APR									
09...	1200	1460	750	8.2	27.0	6.5	11.4	620	330
JUN									
02...	1230	861	710	8.5	28.0	11.5	10.4	620	240
AUG									
04...	1300	1300	710	8.3	30.0	12.5	9.7	620	240
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT									
02...	--	--	--	--	--	--	--	--	--
DEC									
04...	63	25	61	33	2	2.6	220	20	0.3
FEB									
04...	63	25	60	33	2	2.8	220	19	0.2
APR									
09...	78	33	68	31	2	2.0	250	21	0.2
JUN									
02...	60	22	55	33	2	2.6	190	18	0.3
AUG									
04...	59	23	57	34	2	2.5	190	21	0.3

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
OCT 02...	--	--	--	--	--	0.03	1.1	1.1	5.0
DEC 04...	1.3	501	488	0.68	1160	0.04	<0.20	--	--
FEB 04...	1.7	490	486	0.67	2880	0.05	<0.20	--	--
APR 09...	11	587	577	0.80	2310	0.01	--	--	--
JUN 02...	1.8	450	438	0.61	1050	0.02	0.20	0.22	0.99
AUG 04...	2.1	458	444	0.62	1610	0.03	<0.20	--	--

DATE	TIME	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
DEC 04...	1240	<1
FEB 04...	1200	<1
APR 09...	1200	2
JUN 02...	1230	<1
AUG 04...	1300	<1

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	752	746	750	776	760	769	---	---	---	808	805	807
2	751	744	747	777	767	774	---	---	---	809	806	807
3	748	739	744	773	771	772	---	---	---	809	807	808
4	745	741	743	778	767	773	788	787	788	811	807	809
5	750	743	747	774	770	772	789	787	788	813	809	811
6	753	747	750	773	767	771	790	787	789	813	809	812
7	750	748	749	771	768	771	794	789	791	812	810	811
8	753	750	752	---	---	---	793	791	792	812	809	811
9	756	753	754	---	---	---	794	791	793	812	809	811
10	760	755	758	---	---	---	794	791	793	813	810	812
11	760	757	759	---	---	---	794	793	794	813	811	812
12	764	756	759	---	---	---	796	793	794	813	811	812
13	760	749	755	---	---	---	796	792	793	813	811	812
14	754	744	750	---	---	---	797	793	795	812	809	810
15	754	746	750	---	---	---	797	794	796	812	809	811
16	758	753	756	---	---	---	798	795	797	814	811	812
17	759	753	755	---	---	---	799	795	797	815	812	814
18	757	754	756	---	---	---	799	796	798	815	812	814
19	760	757	759	---	---	---	800	797	799	815	813	814
20	761	758	760	---	---	---	800	799	800	815	814	814
21	761	759	760	---	---	---	800	799	800	814	813	813
22	763	760	761	---	---	---	803	799	801	814	812	813
23	762	757	760	---	---	---	803	800	802	815	813	814
24	766	757	763	---	---	---	804	802	803	815	813	814
25	774	764	769	---	---	---	805	802	804	816	814	815
26	776	768	772	---	---	---	806	804	805	816	814	815
27	773	762	769	---	---	---	806	804	805	816	815	816
28	769	761	764	---	---	---	806	804	805	817	815	816
29	778	760	770	---	---	---	807	805	806	818	815	817
30	772	763	769	---	---	---	806	805	806	817	816	817
31	769	763	766	---	---	---	807	805	806	818	816	817
MONTH	778	739	757	---	---	---	---	---	---	818	805	813

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	817	815	816	810	807	808	795	776	789	749	742	746
2	817	815	816	810	807	808	780	770	775	753	737	744
3	817	816	816	811	807	809	777	765	772	747	739	744
4	817	816	817	809	807	808	774	769	770	744	721	739
5	817	815	816	808	804	806	773	769	770	742	733	739
6	817	815	816	808	803	805	773	754	766	744	738	741
7	817	814	816	810	804	807	770	757	762	741	739	740
8	816	814	815	806	804	805	767	744	756	742	735	740
9	816	814	815	807	803	805	761	735	751	739	737	738
10	816	815	816	804	797	801	765	743	753	739	733	736
11	816	815	816	799	796	797	764	746	750	733	728	730
12	816	815	816	800	796	797	767	750	758	728	723	726
13	817	814	815	799	797	798	758	748	754	724	722	723
14	816	813	814	800	798	799	761	747	753	723	722	722
15	814	812	813	802	797	799	769	746	752	727	721	724
16	816	811	814	802	795	798	747	717	737	726	723	724
17	812	808	810	799	790	796	749	706	726	726	722	724
18	814	810	811	795	784	791	724	704	713	727	722	724
19	814	810	813	787	783	786	736	709	726	728	722	726
20	815	810	813	790	785	787	733	710	726	730	724	727
21	814	812	813	792	785	790	737	710	726	---	---	---
22	813	807	811	797	789	794	743	706	726	---	---	---
23	808	805	806	798	792	796	741	706	725	---	---	---
24	809	801	804	796	790	793	750	711	723	---	---	---
25	809	802	807	794	788	792	747	721	736	---	---	---
26	809	803	806	795	788	791	748	723	737	---	---	---
27	809	804	806	793	788	790	750	734	744	---	---	---
28	809	806	807	791	788	790	753	735	743	---	---	---
29	809	807	808	791	788	789	751	739	744	---	---	---
30	---	---	---	793	788	790	756	740	746	---	---	---
31	---	---	---	794	783	789	---	---	---	---	---	---
MONTH	817	801	812	811	783	797	795	704	747	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	713	705	708	710	697	705	726	718	722
2	---	---	---	712	705	708	719	690	707	725	719	722
3	713	706	710	714	709	711	717	703	710	729	721	724
4	713	703	708	714	707	710	718	708	713	724	718	722
5	716	706	710	711	706	708	720	710	716	725	708	722
6	710	706	708	715	706	710	721	713	717	725	720	722
7	708	704	706	717	710	713	720	710	715	749	720	722
8	709	702	705	720	709	715	721	711	718	723	717	720
9	706	700	703	714	707	711	722	711	717	726	717	719
10	710	696	705	722	706	710	721	711	715	720	716	719
11	711	700	706	715	708	712	715	710	712	722	718	719
12	711	703	706	710	705	707	715	707	712	722	715	719
13	711	703	706	715	692	707	712	703	710	723	715	719
14	709	699	704	715	706	712	716	711	713	725	721	722
15	715	699	707	713	704	707	717	712	714	724	711	722
16	713	707	710	710	702	706	718	711	714	727	722	725
17	709	703	707	707	697	705	719	711	715	727	723	725
18	712	704	707	712	692	706	718	713	716	731	721	724
19	712	696	707	710	696	705	720	711	715	726	723	724
20	710	682	704	713	699	705	722	715	718	744	721	724
21	712	701	708	705	701	703	725	714	719	727	721	724
22	712	708	710	711	696	705	728	717	723	727	721	725
23	715	706	710	714	701	706	731	721	726	727	723	725
24	718	709	713	720	705	710	736	723	726	739	724	726
25	714	705	709	714	695	707	726	718	723	726	719	723
26	717	707	713	710	698	707	721	716	718	729	722	725
27	718	712	716	715	690	708	721	714	717	730	723	729
28	721	714	716	714	692	708	719	715	717	729	722	727
29	717	705	710	709	701	704	722	716	718	729	718	726
30	711	704	708	708	700	704	722	717	720	747	719	729
31	---	---	---	709	705	707	723	718	719	---	---	---
MONTH	---	---	---	722	690	708	736	690	716	749	708	723

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.9	10.3	12.2	10.3	9.6	9.9	---	---	---	5.3	4.5	4.9
2	14.1	10.9	12.5	9.9	9.3	9.6	---	---	---	5.1	4.4	4.7
3	14.6	12.5	13.5	9.8	9.4	9.6	---	---	---	4.7	4.5	4.6
4	14.2	10.0	12.8	9.6	9.3	9.5	---	---	---	4.7	4.4	4.6
5	13.2	10.9	12.9	9.8	9.3	9.5	6.7	6.2	6.5	4.7	4.4	4.6
6	14.4	9.6	13.0	9.8	9.2	9.5	7.4	6.1	6.6	4.6	4.4	4.5
7	13.3	11.2	12.8	---	---	---	6.6	6.2	6.4	4.6	4.3	4.5
8	13.1	10.4	12.3	---	---	---	8.0	6.1	6.5	4.7	4.2	4.5
9	13.5	10.6	12.2	---	---	---	6.7	6.0	6.3	4.7	4.0	4.3
10	12.8	10.0	11.9	---	---	---	6.4	5.9	6.1	4.4	4.0	4.2
11	12.6	9.6	11.5	---	---	---	6.3	5.7	6.1	4.1	3.9	4.0
12	12.6	9.6	11.9	---	---	---	6.3	5.7	6.0	4.1	3.9	4.0
13	13.6	11.4	12.6	---	---	---	7.2	5.7	6.2	4.2	3.9	4.1
14	13.9	8.8	12.6	---	---	---	6.9	5.8	6.4	4.1	3.5	3.7
15	13.5	11.2	12.7	---	---	---	6.5	5.6	6.1	4.2	3.6	3.9
16	12.5	9.5	11.3	---	---	---	6.3	5.6	5.9	4.0	3.7	3.8
17	13.1	10.6	12.3	---	---	---	6.3	5.5	5.8	4.0	3.7	3.9
18	13.1	10.2	12.4	---	---	---	5.8	5.5	5.6	4.2	3.7	3.9
19	12.8	12.1	12.4	---	---	---	5.7	5.4	5.6	4.2	3.7	4.0
20	12.6	12.2	12.4	---	---	---	6.0	5.4	5.7	4.0	3.6	3.9
21	12.7	12.3	12.5	---	---	---	5.8	5.3	5.5	3.9	3.0	3.7
22	12.7	12.1	12.4	---	---	---	5.6	5.2	5.4	3.3	2.8	3.0
23	12.7	12.0	12.3	---	---	---	5.5	5.0	5.4	3.6	2.8	3.3
24	12.0	11.4	11.8	---	---	---	5.4	5.0	5.3	3.4	2.8	3.2
25	11.5	11.0	11.3	---	---	---	5.4	5.0	5.2	3.6	3.0	3.4
26	11.0	10.4	10.8	---	---	---	5.4	5.0	5.2	3.7	3.3	3.6
27	11.5	10.5	11.1	---	---	---	5.3	4.9	5.1	3.7	3.5	3.6
28	11.5	10.9	11.1	---	---	---	5.2	4.8	5.0	3.9	3.5	3.7
29	11.0	9.7	10.4	---	---	---	5.0	4.8	4.9	3.9	3.5	3.8
30	10.8	9.5	10.2	---	---	---	4.9	4.6	4.8	4.0	3.5	3.8
31	10.6	10.2	10.4	---	---	---	5.0	4.6	4.8	4.0	3.5	3.9
MONTH	14.6	8.8	12.0	---	---	---	---	---	---	5.3	2.8	4.0
FEBRUARY			MARCH			APRIL			MAY			
1	3.9	3.5	3.7	4.1	3.6	3.8	4.5	3.2	3.6	---	---	---
2	3.9	3.4	3.6	4.2	3.6	3.9	5.1	4.1	4.6	---	---	---
3	3.9	3.6	3.8	4.1	3.8	4.0	5.3	4.4	4.9	---	---	---
4	3.9	3.5	3.7	4.1	3.8	4.0	5.4	4.5	5.1	---	---	---
5	3.8	3.3	3.6	4.0	3.6	3.8	5.3	3.9	4.9	---	---	---
6	4.0	3.5	3.7	4.0	3.7	3.9	6.0	3.0	5.1	---	---	---
7	3.8	3.4	3.7	4.2	3.7	3.9	5.8	4.2	5.3	---	---	e8.8
8	3.8	3.5	3.7	3.9	3.6	3.8	6.2	4.7	5.4	---	---	---
9	3.8	3.5	3.7	4.3	3.7	3.9	6.4	4.0	5.2	---	---	---
10	3.9	3.5	3.8	4.2	3.5	3.8	6.3	5.1	5.8	---	---	---
11	4.0	3.4	3.8	4.4	3.6	4.0	---	---	---	---	---	---
12	3.9	3.3	3.7	4.4	3.7	4.0	---	---	---	---	---	---
13	4.0	3.4	3.7	4.4	3.7	4.0	---	---	---	---	---	---
14	3.8	3.2	3.6	4.3	3.7	3.9	---	---	---	---	---	---
15	3.8	3.2	3.5	4.3	3.7	4.0	---	---	---	---	---	---
16	4.1	3.1	3.7	4.2	3.6	3.9	---	---	---	---	---	---
17	3.4	2.7	3.0	4.5	3.7	4.0	---	---	---	---	---	---
18	3.6	3.0	3.3	4.3	3.7	4.0	---	---	---	---	---	---
19	3.8	3.4	3.6	4.5	4.0	4.2	---	---	---	---	---	---
20	3.9	3.4	3.7	4.3	3.8	4.1	---	---	---	---	---	---
21	4.1	3.6	3.8	4.0	3.7	3.8	---	---	---	---	---	---
22	3.7	3.0	3.6	4.1	3.6	3.8	---	---	---	---	---	---
23	3.2	3.0	3.2	3.9	3.5	3.7	---	---	---	---	---	---
24	3.4	3.0	3.2	4.0	3.5	3.8	---	---	---	---	---	---
25	3.7	3.2	3.4	4.1	3.3	3.7	---	---	---	---	---	---
26	3.7	3.2	3.4	4.0	3.4	3.6	---	---	---	---	---	---
27	3.9	3.2	3.5	3.8	3.5	3.7	---	---	---	---	---	---
28	4.0	3.4	3.7	4.2	3.4	3.7	---	---	---	---	---	---
29	4.1	3.5	3.8	4.1	3.4	3.7	---	---	---	---	---	---
30	---	---	---	4.0	3.3	3.6	---	---	---	---	---	---
31	---	---	---	3.6	3.2	3.4	---	---	---	---	---	---
MONTH	4.1	2.7	3.6	4.5	3.2	3.9	---	---	---	---	---	---

e Estimated.

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	e11.5	---	---	---	---	---	---	---	---	e12.5
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	e12.5	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	e12.8	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated.

[illegible]

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1944 - 1992	
ANNUAL TOTAL	53256		40400		--	
ANNUAL MEAN	146		110		228	
HIGHEST ANNUAL MEAN	--		--		423	1984
LOWEST ANNUAL MEAN	--		--		86.6	1977
HIGHEST DAILY MEAN	1260	May 19	887	May 9	3960	May 24 1984
LOWEST DAILY MEAN	15	Sep 5	18	Dec 25, 26, Aug 22	4.2	Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	16	Aug 31	19	Dec 21	6.2	Sep 4 1988
INSTANTANEOUS PEAK FLOW	--		942	May 9	4780a	May 23 1984
INSTANTANEOUS PEAK STAGE	--		5.76	May 9	8.95	Apr 25 1974
ANNUAL RUNOFF (AC-FT)	105600		80130		164900	
10 PERCENT EXCEEDS	534		386		820	
50 PERCENT EXCEEDS	29		28		40	
90 PERCENT EXCEEDS	21		21		20	

a Gage height, 8.78 ft.

GREEN RIVER BASIN
09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼ NE¼ 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. Elevation of gage is 6,600 ft, from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 4, Nov. 17-21, Nov. 30 to Mar. 1, Apr. 4-7, and June 2-4. Records fair except those for August and those for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 430 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	1900	*757	*7.27	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	11	4.9	4.8	26	56	191	103	7.2	2.8	3.8
2	12	12	10	4.8	4.9	28	58	166	90	10	2.0	5.6
3	12	11	12	4.7	5.0	30	55	135	80	16	1.9	5.9
4	11	15	12	4.6	4.9	31	78	127	70	15	2.9	5.2
5	12	19	13	4.5	4.8	25	82	125	62	11	3.4	5.5
6	12	22	12	5.0	4.7	25	70	119	57	8.2	3.6	5.6
7	12	19	11	5.4	4.8	27	64	131	50	8.2	4.5	5.3
8	12	14	10	5.2	5.4	28	56	135	50	14	5.3	4.7
9	12	17	9.4	4.8	5.8	24	68	505	49	15	5.4	3.6
10	12	17	8.8	4.6	7.0	27	87	399	41	14	5.5	3.0
11	12	18	8.6	4.5	8.4	40	91	204	33	11	4.9	2.6
12	13	14	8.4	4.4	9.8	46	95	154	31	18	4.2	2.2
13	13	14	8.6	4.3	11	52	124	154	28	44	4.4	2.1
14	13	14	8.8	4.3	12	71	126	154	26	26	4.4	2.4
15	13	14	9.2	4.2	13	74	148	126	23	15	1.8	2.1
16	13	14	9.0	4.2	14	57	111	116	20	13	1.5	2.0
17	12	9.8	8.8	4.1	15	55	99	103	24	11	3.4	2.3
18	12	11	8.4	4.1	16	42	144	95	25	11	3.7	6.0
19	12	11	8.2	4.0	16	39	97	94	17	9.4	3.7	6.0
20	12	8.8	8.0	3.9	17	34	81	108	14	7.7	2.2	4.8
21	13	13	7.6	3.8	18	39	70	133	12	7.2	1.9	4.3
22	13	14	7.6	3.8	19	38	96	111	11	7.1	1.8	4.2
23	14	12	7.4	3.9	18	41	103	96	9.3	6.3	3.3	4.0
24	16	12	7.4	4.0	17	46	81	100	8.7	7.4	6.1	3.8
25	16	15	7.2	4.1	16	42	73	88	8.9	7.6	7.3	7.0
26	18	15	6.6	4.2	17	44	80	82	11	6.8	6.8	14
27	18	16	6.2	4.3	18	50	99	137	12	11	7.7	14
28	19	15	5.8	4.4	20	54	134	167	12	7.4	5.8	14
29	12	14	5.4	4.6	23	55	147	113	11	5.2	4.9	13
30	13	13	5.2	4.7	---	60	169	92	9.0	4.1	3.6	12
31	12	---	5.0	4.8	---	63	---	88	---	3.6	3.5	---
TOTAL	408	426.6	266.6	137.1	350.3	1313	2842	4548	997.9	358.4	124.2	171.0
MEAN	13.2	14.2	8.60	4.42	12.1	42.4	94.7	147	33.3	11.6	4.01	5.70
MAX	19	22	13	5.4	23	74	169	505	103	44	7.7	14
MIN	11	8.8	5.0	3.8	4.7	24	55	82	8.7	3.6	1.5	2.0
AC-FT	809	846	529	272	695	2600	5640	9020	1980	711	246	339

GREEN RIVER BASIN
09255000 SLATER FORK NEAR SLATER, CO--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1992, BY WATER YEAR (WY)

MEAN	19.8	19.0	17.2	16.8	18.3	27.4	118	368	249	37.8	9.90	11.4
MAX	62.4	49.2	44.1	36.9	46.5	79.2	323	801	630	189	38.4	55.0
(WY)	1986	1985	1985	1985	1986	1986	1985	1984	1983	1983	1945	1984
MIN	7.29	7.73	7.30	4.42	9.82	12.6	25.2	45.7	23.6	1.27	1.93	3.20
(WY)	1934	1934	1932	1992	1981	1965	1933	1934	1977	1977	1960	1960

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1932 - 1992	
ANNUAL TOTAL	18117.4		11943.1		--	
ANNUAL MEAN	49.6		32.6		76.2	
HIGHEST ANNUAL MEAN	--		--		157	1984
LOWEST ANNUAL MEAN	--		--		20.5	1934
HIGHEST DAILY MEAN	470	May 11	505	May 9	1500	May 16 1984
LOWEST DAILY MEAN	3.1	Aug 26	1.5	Aug 16	.00a	Several days, 1934, 1936, 1954, 1977
ANNUAL SEVEN-DAY MINIMUM	3.3	Sep 1	2.2	Sep 11	.00	Aug 2 1934
INSTANTANEOUS PEAK FLOW	--		757	May 9	2250a	May 16 1984
INSTANTANEOUS PEAK STAGE	--		7.27	May 9	11.78b	May 16 1984
ANNUAL RUNOFF (AC-FT)	35940		23690		55180	
10 PERCENT EXCEEDS	186		98		249	
50 PERCENT EXCEEDS	16		12		19	
90 PERCENT EXCEEDS	5.4		4.1		7.0	

a From rating curve extended above 1,000 ft³/s.
b From floodmark.

GREEN RIVER BASIN
09256000 SAVERY CREEK NEAR SAVERY, WY

LOCATION.--Lat 41°05'46", long 107°22'44", in SE¼ NW¼ SW¼ sec.14, T.13 N., R.89 W., Carbon County, Hydrologic Unit 14050003, on right bank 800 ft downstream from bridge on county road, 1.8 mi downstream from Loco Creek, and 6.1 mi northeast of Savery.

DRAINAGE AREA.--330 mi².

PERIOD OF RECORD.--October 1941 to September 1946, October 1947 to September 1971, April to September 1972, April 1985 to September 1992 (discontinued).

REVISED RECORDS.--WDR WY-70-1: 1969.

GAGE.--Water-stage recorder. Elevation of gage is 6,680 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 17, 1946, at site 300 ft right of county bridge (on abandoned channel) 800 ft upstream at different datum. October 1947 to September 1972, at county bridge 800 ft upstream at different datum. Records collected at all sites include flow from Big Gulch.

REMARKS.--Estimated daily discharges: Oct. 1-4, Oct. 30 to Nov. 4, and Nov. 7 to Mar. 11. Records fair except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 780 acres, of which about 140 acres are downstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1984, reached a stage of 7.8 ft, present site and datum, from floodmarks, discharge not determined.

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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2400	353	3.60	May 27	0900	*450	*3.75
May 10	0300	313	3.53				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	14	21	18	21	30	105	209	223	25	5.4	8.0
2	8.5	13	23	17	21	34	105	194	196	27	5.3	10
3	9.5	14	25	16	20	37	106	179	163	33	5.1	11
4	11	16	27	17	20	40	124	170	145	31	5.3	11
5	14	19	30	19	20	33	140	167	135	24	5.6	10
6	14	27	32	20	19	36	135	164	125	21	5.8	10
7	14	33	33	20	20	39	120	169	121	21	5.8	10
8	14	40	32	18	22	42	114	178	114	30	5.6	9.2
9	14	45	25	18	23	45	140	220	108	35	4.9	9.2
10	15	55	25	18	23	52	183	303	96	29	4.3	8.1
11	14	50	25	17	23	54	187	260	88	23	4.2	8.0
12	15	45	26	17	22	43	227	215	80	27	4.0	7.9
13	15	35	26	17	21	43	238	195	69	37	3.9	7.3
14	15	33	27	17	20	45	239	187	59	38	3.2	7.8
15	15	32	27	16	20	51	276	186	52	30	2.9	7.2
16	15	30	30	16	19	57	219	176	50	28	3.0	7.4
17	14	30	30	17	20	61	233	174	50	26	6.0	8.8
18	14	30	30	17	18	60	312	168	48	25	7.2	11
19	14	28	28	16	20	56	218	166	40	22	7.2	11
20	14	29	27	17	21	46	173	175	36	21	6.2	10
21	15	30	25	17	23	45	147	199	38	26	5.3	10
22	16	26	24	18	22	44	155	229	37	23	5.1	10
23	17	25	25	20	22	46	171	204	33	17	6.3	10
24	20	27	24	19	21	51	140	183	32	17	7.8	10
25	23	30	23	19	20	49	127	163	30	15	8.0	13
26	24	33	20	20	22	53	137	157	65	14	8.1	14
27	24	34	18	20	24	67	161	399	50	13	8.4	13
28	21	30	17	20	26	81	182	403	42	10	8.4	13
29	16	26	17	20	29	90	193	312	33	9.0	8.0	13
30	15	22	18	20	---	92	203	259	29	7.7	8.0	12
31	14	---	18	20	---	106	---	227	---	6.4	7.6	---
TOTAL	471.5	901	778	561	622	1628	5210	6590	2387	711.1	181.9	300.9
MEAN	15.2	30.0	25.1	18.1	21.4	52.5	174	213	79.6	22.9	5.87	10.0
MAX	24	55	33	20	29	106	312	403	223	38	8.4	14
MIN	7.5	13	17	16	18	30	105	157	29	6.4	2.9	7.2
AC-FT	935	1790	1540	1110	1230	3230	10330	13070	4730	1410	361	597

GREEN RIVER BASIN
09256000 SAVERY CREEK NEAR SAVERY, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1992, BY WATER YEAR (WY)												
MEAN	23.4	27.6	25.7	25.5	30.9	56.0	270	458	233	35.0	11.7	12.2
MAX	68.7	57.4	49.3	50.9	73.6	162	694	1217	560	97.3	41.2	42.5
(WY)	1987	1987	1986	1986	1986	1986	1962	1952	1968	1957	1945	1965
MIN	5.42	10.5	8.88	8.66	11.3	18.4	94.0	119	51.1	2.51	1.35	1.00
(WY)	1964	1964	1964	1963	1964	1964	1968	1990	1954	1961	1960	1955
SUMMARY STATISTICS			FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1942 - 1992			
ANNUAL TOTAL			27465.9			20342.4			--			
ANNUAL MEAN			75.2			55.6			99.9			
HIGHEST ANNUAL MEAN			--			--			207			
LOWEST ANNUAL MEAN			--			--			39.7			
HIGHEST DAILY MEAN			627			403			2440			
LOWEST DAILY MEAN			3.1			2.9			.00			
			May 10			May 28			May 4			
			Sep 22			Aug 15			Few days,			
									1959, 1960			
ANNUAL SEVEN-DAY MINIMUM			3.5			3.6			.00			
INSTANTANEOUS PEAK FLOW			--			450			2670a			
INSTANTANEOUS PEAK STAGE			--			3.75			7.30b			
ANNUAL RUNOFF (AC-FT)			54480			40350			72380			
10 PERCENT EXCEEDS			223			175			311			
50 PERCENT EXCEEDS			27			24			30			
90 PERCENT EXCEEDS			6.2			8.0			7.7			

a From rating curve extended above 1,100 ft³/s on basis of slope-area measurement of peak flow.
b Site and datum then in use.

GREEN RIVER BASIN
09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼ NW¼ 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 National Geodetic Vertical Datum of 1929.

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.--No estimated daily discharges. Records good. Diversions for irrigation of about 9,500 acres upstream from station. One diversion upstream from station for irrigation of about 3,000 acres downstream. Transbasin diversions upstream from station. National Weather Service satellite telemeter at station. Results of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Mar. 25 . . . 156

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	2280	*2,590	*7.17	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	---	---	---	---	---	332	1620	1260	2.1	.55	.57
2	.65	---	---	---	---	---	334	1480	962	3.0	.49	.51
3	.65	---	---	---	---	---	331	1310	785	20	.48	.40
4	.64	---	---	---	---	---	400	1170	685	11	.50	.30
5	.54	---	---	---	---	---	472	1080	606	3.0	.47	.33
6	.56	---	---	---	---	---	503	1030	627	2.5	.30	.23
7	.58	---	---	---	---	---	449	1070	543	2.6	.31	.29
8	.59	---	---	---	---	---	413	1120	555	8.3	.23	.33
9	.65	---	---	---	---	---	525	1880	415	10	.23	.30
10	.65	---	---	---	---	---	694	2110	368	3.7	.19	.20
11	.65	---	---	---	---	---	744	1450	294	2.5	.20	.11
12	.63	---	---	---	---	---	815	1150	286	14	.10	.06
13	.49	---	---	---	---	---	1040	1080	219	159	.11	.06
14	.53	---	---	---	---	---	1020	1090	168	114	.04	.07
15	.62	---	---	---	---	---	1190	1040	133	38	.02	.11
16	.60	---	---	---	---	---	985	1020	114	13	.02	.02
17	.56	---	---	---	---	---	901	955	130	21	.10	.00
18	.58	---	---	---	---	---	1210	912	139	31	.12	.25
19	.62	---	---	---	---	---	986	909	96	7.8	.02	1.9
20	.65	---	---	---	---	---	791	943	80	3.8	.12	13
21	.63	---	---	---	---	---	638	1150	65	4.3	.23	29
22	.53	---	---	---	---	---	697	1260	41	7.5	.31	30
23	.71	---	---	---	---	---	776	1020	13	1.9	.64	30
24	.74	---	---	---	---	---	662	895	8.3	1.1	.76	26
25	3.6	---	---	---	---	---	587	788	7.1	.94	.60	39
26	9.7	---	---	---	---	---	639	723	65	.97	.54	84
27	17	---	---	---	---	---	798	1730	72	.85	.54	105
28	26	---	---	---	---	---	1060	2070	47	.86	.55	77
29	16	---	---	---	---	---	1270	1570	17	.77	.51	65
30	6.2	---	---	---	---	---	1440	1320	4.1	.63	.44	61
31	3.4	---	---	---	---	---	---	1210	---	.58	.42	---
TOTAL	96.51	---	---	---	---	---	22702	38155	8804.5	490.70	10.14	565.04
MEAN	3.11	---	---	---	---	---	757	1231	293	15.8	.33	18.8
MAX	26	---	---	---	---	---	1440	2110	1260	159	.76	105
MIN	.49	---	---	---	---	---	331	723	4.1	.58	.02	.00
AC-FT	191	---	---	---	---	---	45030	75680	17460	973	20	1120

GREEN RIVER BASIN
09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY)

MEAN	79.5	94.3	88.8	85.4	101	215	879	2559	1827	175	27.6	27.5
MAX	282	245	160	130	433	744	1991	5698	4035	1160	198	105
(WY)	1917	1921	1921	1917	1962	1919	1962	1920	1917	1917	1916	1965
MIN	6.18	36.3	45.0	37.1	47.8	82.8	298	1065	217	5.17	1.58	.78
(WY)	1961	1956	1923	1963	1967	1965	1961	1954	1954	1966	1966	1962

SUMMARY STATISTICS

FOR 1992 WATER YEAR*

WATER YEARS 1911 - 1971

ANNUAL MEAN	--		514	
HIGHEST ANNUAL MEAN	--		930	1920
LOWEST ANNUAL MEAN	--		212	1961
HIGHEST DAILY MEAN	2110	May 10	8960	May 23 1920
LOWEST DAILY MEAN	.00	Sep 17	.00	Several days, 1977, 1981, 1992#
ANNUAL SEVEN-DAY MINIMUM	--		.35	Sep 3 1969
INSTANTANEOUS PEAK FLOW	2590	May 9	13000a	May 16 1984#
INSTANTANEOUS PEAK STAGE	7.17	May 9	13.56b	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 1992.

a From rating curve extended above 10,000 ft³/s, some increase in peak caused by dam failure.

b From floodmark.

GREEN RIVER BASIN
09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs. 8 and 17, T.11 N., R.90 W., Moffat County, Colorado, Hydrologic Unit 14050003, on right bank 6.2 mi south of Colorado-Wyoming State line, 8.0 mi upstream from mouth, and 8.3 mi south of Dixon.

DRAINAGE AREA.--24 mi², approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,700 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to May 7. Records fair except those for estimated daily discharges, which are poor. One small ditch diverts water upstream from station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	2030	*134	*4.15	July 11	1800	126	4.09
May 21	1600	105	3.92				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.1	1.8	1.0	1.3	2.7	5.0	30	19	5.0	1.7	.92
2	1.2	1.1	1.7	1.0	1.2	2.8	5.5	20	13	5.1	1.7	1.2
3	1.0	1.0	1.8	.90	1.4	2.9	6.0	16	13	3.3	1.8	.93
4	1.1	1.5	2.1	.95	1.3	3.0	6.5	13	16	2.7	2.2	.76
5	1.2	1.8	1.8	1.0	1.3	2.6	7.0	12	14	2.6	1.8	1.5
6	1.2	2.0	1.7	1.1	1.3	2.7	6.5	12	16	3.5	1.7	1.4
7	1.2	1.6	1.8	1.2	1.2	2.9	6.0	13	12	4.6	1.9	1.3
8	1.2	1.6	1.9	1.1	1.3	3.0	7.0	23	12	3.0	1.7	1.3
9	1.2	1.6	1.9	1.0	1.4	2.8	9.0	81	10	2.7	1.6	1.2
10	1.2	1.5	1.8	1.0	1.7	2.5	11	66	8.6	4.0	1.5	1.3
11	1.1	1.4	1.7	1.0	1.6	3.0	15	29	8.0	30	1.5	1.3
12	1.1	1.4	1.7	.97	1.6	4.0	20	23	8.0	19	1.4	1.2
13	1.1	1.4	1.6	.95	1.5	5.0	23	24	7.8	5.4	1.3	1.3
14	1.1	1.4	1.7	.92	1.7	5.6	22	31	7.1	4.1	1.3	1.3
15	1.1	1.5	1.8	.80	1.9	5.8	25	33	9.4	4.1	1.3	1.3
16	1.1	1.7	1.9	.90	2.0	5.6	22	35	11	4.1	1.3	1.3
17	.92	1.3	1.8	.88	1.9	5.0	20	31	12	4.1	1.6	1.5
18	.93	1.6	1.7	.88	1.8	4.0	25	31	11	3.1	1.5	2.0
19	.94	1.5	1.8	.84	2.0	3.0	20	36	13	2.7	1.4	1.2
20	.94	1.2	1.7	.80	2.1	2.5	15	52	12	2.7	1.3	.81
21	.93	2.0	1.6	.78	2.4	3.0	11	74	11	2.6	1.2	.83
22	.90	1.9	1.6	.90	2.5	2.8	12	65	17	2.3	1.3	1.1
23	1.1	1.8	1.5	1.0	2.3	3.3	13	46	16	2.1	2.2	1.3
24	1.4	1.7	1.6	1.1	2.1	3.6	11	41	15	2.7	2.8	1.3
25	1.3	1.8	1.5	1.2	2.0	3.3	10	40	17	2.5	1.8	2.1
26	1.5	2.2	1.3	1.1	2.1	3.7	12	38	18	2.2	1.7	2.2
27	1.4	2.1	1.2	1.1	2.2	4.0	15	42	16	2.0	1.5	2.1
28	1.4	2.0	1.3	1.2	2.4	4.3	20	61	12	1.8	1.4	1.2
29	1.3	1.9	1.3	1.2	2.6	4.7	23	47	10	1.8	1.3	.60
30	1.2	1.9	1.2	1.3	---	5.0	27	29	5.2	1.8	1.3	.48
31	1.1	---	1.0	1.3	---	5.5	---	23	---	1.8	.98	---
TOTAL	35.86	48.5	50.8	31.37	52.1	114.6	430.5	1117	370.1	139.4	48.98	38.23
MEAN	1.16	1.62	1.64	1.01	1.80	3.70	14.3	36.0	12.3	4.50	1.58	1.27
MAX	1.5	2.2	2.1	1.3	2.6	5.8	27	81	19	30	2.8	2.2
MIN	.90	1.0	1.0	.78	1.2	2.5	5.0	12	5.2	1.8	.98	.48
AC-FT	71	96	101	62	103	227	854	2220	734	276	97	76

GREEN RIVER BASIN
09258000 WILLOW CREEK NEAR DIXON, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

MEAN	3.17	2.65	2.42	2.50	2.73	5.63	20.2	32.9	34.2	10.1	3.22	2.44
MAX	8.67	6.35	5.94	8.02	5.70	21.4	68.0	114	75.0	38.1	6.52	8.39
(WY)	1984	1985	1985	1983	1985	1986	1985	1984	1984	1983	1983	1984
MIN	1.16	1.10	.83	.39	.51	1.74	4.98	7.21	5.43	1.73	.16	.15
(WY)	1992	1963	1977	1977	1977	1964	1977	1977	1977	1987	1977	1977

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1954 - 1992		
ANNUAL TOTAL	2200.76			2477.44			--		
ANNUAL MEAN	6.03			6.77			10.2		
HIGHEST ANNUAL MEAN	--			--			24.6		
LOWEST ANNUAL MEAN	--			--			2.61		
HIGHEST DAILY MEAN	51	Jun 2		81	May 9		280	May 10	1984
LOWEST DAILY MEAN	.90	Oct 22		.48	Sep 30		.00	Several days,	1955, 1977,
									1982, 1990
ANNUAL SEVEN-DAY MINIMUM	.95	Oct 16		.84	Jan 15		.00	Jul 31	1977
INSTANTANEOUS PEAK FLOW	--			134	May 9		476a	May 10	1984
INSTANTANEOUS PEAK STAGE	--			4.15	May 9		7.08b	Apr 18	1984
ANNUAL RUNOFF (AC-FT)	4370			4910			7380		
10 PERCENT EXCEEDS	19			20			31		
50 PERCENT EXCEEDS	1.9			1.8			3.2		
90 PERCENT EXCEEDS	1.2			1.0			1.4		

a Gage height, 6.02 ft, from rating curve extended above 160 ft³/s.

b Backwater from ice.

GREEN RIVER BASIN

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¼ NW¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
MAY 14...	1340	1120	400	12.0	57	16	4.1	6.2	0.4	1.3	52
JUN 18...	1000	183	244	15.0	100	28	8.1	17	0.7	1.4	110
SEP 02...	1210	0.05	698	20.0	190	33	25	83	3	4.9	190
23...	1120	37	400	17.0	150	38	14	27	1	2.9	170

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAY 14...	24	1.4	0.2	12	96	0.13	291	<0.1	0.04	62	187
JUN 18...	33	2.4	0.2	15	171	0.23	84.5	<0.1	<0.03	12	5.9
SEP 02...	160	19	0.6	1.6	441	0.60	0.06	<0.1	<0.03	65	0.01
23...	39	6.1	0.4	12	241	0.33	24.1	<0.1	<0.03	--	--

BEAR RIVER BASIN
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

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LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ NW¼ SE¼ 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 NGVD of 1929, from river-profile map. Prior to Oct. 1, 1986 at datum 3.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions upstream from station for irrigation of about 265 acres upstream and 2,600 acres downstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s, June 6, 1986, gage height, 4.05 ft; maximum gage height, 4.28 ft, June 19, 1983, datum then in use; minimum, 6.8 ft³/s, Apr. 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 20	0600	*1,140	*5.91	No other peak greater than base discharge.			

Minimum daily discharge, 27 ft³/s, Feb. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	61	e32	51	e30	36	48	486	325	156	59	61
2	65	57	e38	e47	e32	35	54	398	316	156	58	58
3	62	59	e47	e44	e34	35	66	400	332	112	57	50
4	60	68	e48	e45	e34	35	77	447	323	93	57	59
5	59	66	e50	e51	e30	33	88	504	288	86	57	68
6	59	88	e55	e48	e32	35	82	539	267	82	60	54
7	58	82	e58	e46	e34	38	76	542	257	91	64	49
8	58	71	e55	e47	e38	35	82	532	244	129	75	48
9	56	81	e52	e41	e39	35	96	568	236	136	61	46
10	56	85	e51	e38	e39	36	113	440	229	156	57	45
11	55	69	e53	43	e35	37	131	383	231	157	56	44
12	54	62	e55	e44	e34	37	156	396	217	191	57	44
13	54	65	e58	45	e34	37	152	547	213	181	56	45
14	53	65	e57	e41	e35	39	158	659	202	140	59	41
15	52	63	e55	e42	e36	40	171	590	214	131	66	39
16	50	64	e53	e46	e33	40	154	575	200	93	68	38
17	48	61	e53	e52	e32	38	175	574	174	86	75	40
18	47	65	e52	e47	e30	37	195	557	156	81	64	39
19	49	63	52	e38	e29	37	149	625	144	80	61	38
20	49	61	e50	e31	27	34	132	882	141	77	60	38
21	49	64	e48	e34	33	39	127	641	140	74	63	38
22	49	55	e47	e36	33	38	138	544	140	73	63	37
23	68	45	e47	e37	33	37	128	500	138	75	77	35
24	56	67	e48	e41	46	36	112	510	139	73	69	37
25	e55	67	e51	e38	35	37	125	534	153	72	56	45
26	e53	65	e53	e37	41	39	154	563	155	71	54	42
27	e52	64	e52	e38	39	41	214	577	145	68	52	40
28	52	59	e51	e36	37	43	297	481	127	67	51	38
29	e52	54	52	e32	36	47	369	431	128	66	49	37
30	54	e40	e50	e33	---	48	467	380	152	63	48	36
31	e54	---	47	e32	---	48	---	362	---	60	49	---
TOTAL	1708	1936	1570	1281	1000	1182	4486	16167	6126	3176	1858	1329
MEAN	55.1	64.5	50.6	41.3	34.5	38.1	150	522	204	102	59.9	44.3
MAX	70	88	58	52	46	48	467	882	332	191	77	68
MIN	47	40	32	31	27	33	48	362	127	60	48	35
AC-FT	3390	3840	3110	2540	1980	2340	8900	32070	12150	6300	3690	2640

BEAR RIVER BASIN
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1992, BY WATER YEAR (WY)

MEAN	62.7	54.2	46.6	41.8	40.3	43.0	113	591	860	292	93.1	71.9
MAX	208	106	94.9	72.4	64.3	69.0	316	1044	1990	933	244	229
(WY)	1983	1984	1984	1984	1984	1986	1946	1984	1986	1975	1965	1983
MIN	30.8	32.5	27.7	29.6	25.3	26.0	37.2	162	204	67.4	37.5	23.9
(WY)	1959	1955	1960	1991	1964	1964	1944	1977	1992	1961	1954	1956

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1943 - 1992	
ANNUAL TOTAL	64281		41819		--	
ANNUAL MEAN	176		114		193	
HIGHEST ANNUAL MEAN	--		--		335	1986
LOWEST ANNUAL MEAN	--		--		81.5	1977
HIGHEST DAILY MEAN	2170	Jun 13	882	May 20	2680	Jun 4 1986
LOWEST DAILY MEAN	26	Jan 20	27	Feb 20	18	Jan 3 1960
ANNUAL SEVEN-DAY MINIMUM	27	Feb 25	31	Feb 16	21	Dec 28 1959
ANNUAL RUNOFF (AC-FT)	127500		82950		139600	
10 PERCENT EXCEEDS	528		318		607	
50 PERCENT EXCEEDS	61		57		58	
90 PERCENT EXCEEDS	28		36		33	

e Estimated.

LOCATION.--Lat 41°07'45", long 110°48'21", in NE¼ SE¼ SW¼ 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 NGVD of 1929, from topographic map. Prior to October 7, 1987 at site 1.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft³/s, June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft³/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104 ft³/s, Mar. 27, gage height, 6.69 ft; minimum daily discharge, 0.03 ft³/s, Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	11	10	3.4	e2.9	7.1	25	3.4	18	2.9	.68	.13
2	3.5	e10	12	3.4	e3.1	5.2	20	1.8	10	8.0	.46	.13
3	3.0	e9.4	e9.0	3.4	e3.2	4.2	19	1.3	7.8	6.3	.41	.09
4	2.7	e8.9	e7.0	3.4	e3.2	4.2	19	.99	11	2.6	.36	.28
5	4.3	e9.4	e6.5	3.4	e3.0	4.7	19	.91	11	1.1	.35	.31
6	7.3	e11	6.2	3.4	e3.7	5.2	18	.91	13	.71	.31	.15
7	5.9	e11	4.9	3.4	e4.3	8.1	15	.93	28	.59	.34	.11
8	5.7	e11	6.2	3.4	e4.3	9.5	13	1.2	25	.58	.36	.08
9	5.6	e12	6.0	3.4	e4.4	8.9	15	15	21	.63	.39	.10
10	5.6	e12	5.7	3.5	e4.5	9.1	18	23	16	.44	.35	.10
11	5.0	e11	7.4	3.8	e4.0	10	18	12	15	.56	.40	.11
12	3.7	e11	7.6	3.9	e3.9	11	21	6.3	12	.99	.15	.10
13	3.4	11	8.2	3.9	e4.2	11	21	7.5	9.4	.88	.14	.08
14	3.5	11	8.0	3.9	e4.0	17	19	8.8	7.1	.55	.16	.08
15	3.6	6.1	7.1	3.9	e4.2	28	20	4.7	17	.40	.21	.08
16	3.5	9.0	6.6	4.6	4.1	47	20	2.1	18	.38	.29	.07
17	3.5	13	6.6	4.3	4.1	51	20	1.9	18	.36	.24	.13
18	3.4	15	6.1	3.8	4.1	31	32	4.0	11	.34	.13	.14
19	3.4	e15	6.2	3.3	4.5	24	26	4.7	7.0	.46	.10	.11
20	3.6	e15	6.6	3.2	4.7	17	23	14	5.5	.53	.08	.11
21	3.6	e14	6.6	e3.3	4.7	15	17	17	5.6	.44	.07	.10
22	3.6	e14	6.5	e3.5	4.9	15	16	20	4.6	.67	.06	.11
23	5.5	14	5.5	e3.8	5.0	20	23	20	1.3	.88	.06	.10
24	15	14	5.4	e3.9	4.2	28	12	18	.72	.38	.05	.13
25	16	14	5.0	e3.6	4.1	35	11	16	.70	.52	.05	.33
26	15	14	4.7	e3.3	4.1	40	10	16	1.3	.77	.05	.24
27	18	15	4.0	e3.2	4.4	57	8.1	28	6.5	.82	.05	.20
28	16	13	3.7	e3.3	5.4	57	7.8	25	2.6	.47	.04	.14
29	13	10	3.5	e3.1	6.0	38	8.8	25	1.3	.40	.03	.16
30	9.0	9.1	3.4	e3.1	---	35	4.1	30	1.1	.37	.04	.17
31	11	---	3.4	e2.9	---	32	---	24	---	.67	.07	---
TOTAL	210.0	353.9	195.6	109.7	121.2	685.2	518.8	354.44	306.52	35.69	6.48	4.17
MEAN	6.77	11.8	6.31	3.54	4.18	22.1	17.3	11.4	10.2	1.15	.21	.14
MAX	18	15	12	4.6	6.0	57	32	30	28	8.0	.68	.33
MIN	2.7	6.1	3.4	2.9	2.9	4.2	4.1	.91	.70	.34	.03	.07
AC-FT	417	702	388	218	240	1360	1030	703	608	71	13	8.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	1.67	3.71	2.61	2.27	2.33
MAX	6.77	11.8	6.31	3.54	4.18
(WY)	1992	1992	1992	1992	1989
MIN	.18	.59	1.17	1.11	1.18
(WY)	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	4516.54	2901.70	--
ANNUAL MEAN	12.4	7.93	10.6
HIGHEST ANNUAL MEAN	--	--	15.3
LOWEST ANNUAL MEAN	--	--	7.09
HIGHEST DAILY MEAN	220	57	220
LOWEST DAILY MEAN	.42	.03	.00
ANNUAL SEVEN-DAY MINIMUM	.77	.04	.00
ANNUAL RUNOFF (AC-FT)	8960	5760	7670
10 PERCENT EXCEEDS	27	19	34
50 PERCENT EXCEEDS	5.0	4.4	2.5
90 PERCENT EXCEEDS	1.1	.14	.05

e Estimated.

BEAR RIVER BASIN
10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'17", long 110°50'22", in NE¼ NW¼ NE¼ 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 (discontinued).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,120 ft above NGVD of 1929, from topographic map. Oct. 1, 1986 to June 9, 1987 at datum 1.0 ft higher. After June 9, 1987 at site 0.3 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD (SINCE 1965).--Maximum daily discharge, 740 ft³/s, May 15, 1984; no flow at times each year, except 1972 and 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft³/s, June 8, gage height, 4.48 ft; minimum daily discharge, 0.38 ft³/s, Sept. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	2.3	19	4.7	8.0	7.9	56	e2.5	37	50	19	21
2	.78	2.3	21	5.2	8.0	7.7	54	e2.5	37	50	19	20
3	.72	2.3	21	7.3	8.4	7.9	54	e2.5	31	49	24	19
4	.69	2.3	10	7.3	8.4	7.8	55	e2.5	35	48	20	9.4
5	.69	2.4	2.3	7.0	8.4	7.9	55	e2.5	39	48	16	9.0
6	.69	4.7	2.2	7.0	8.4	7.9	55	e2.5	37	46	15	8.8
7	.69	4.0	2.3	7.3	8.2	7.8	55	e2.5	41	45	13	7.9
8	.69	1.8	2.8	7.0	8.0	8.0	54	e2.5	55	45	13	7.0
9	.74	3.7	4.0	7.0	8.0	18	54	e2.5	59	45	13	7.1
10	.79	5.7	2.4	7.0	8.0	40	34	e2.5	51	41	14	5.8
11	.77	3.4	2.3	7.3	8.0	44	e7.8	e2.5	44	33	12	5.6
12	.77	2.1	3.5	7.0	8.0	45	e8.2	e2.5	43	34	11	5.7
13	.77	1.7	3.3	7.3	8.0	45	e8.0	2.5	42	34	12	4.6
14	.84	1.3	2.0	7.3	8.1	47	e7.8	4.4	42	35	13	3.5
15	.94	.80	2.0	7.7	8.4	53	e7.6	7.9	45	35	12	3.4
16	.94	1.0	2.2	8.0	8.1	58	e7.5	8.6	46	35	12	3.3
17	.94	1.2	3.3	8.4	8.0	59	e7.5	9.0	47	35	12	3.3
18	.97	1.2	4.7	8.4	8.0	59	e7.4	9.2	45	34	12	2.8
19	1.0	.99	4.7	8.4	8.0	60	e5.5	9.5	43	35	12	1.0
20	1.1	.88	4.9	8.4	7.9	58	e4.0	11	43	34	12	1.0
21	1.1	1.8	4.9	8.0	7.7	56	e4.0	12	48	22	13	.94
22	1.2	.65	4.9	8.3	7.7	56	e4.0	13	61	12	14	.94
23	1.5	1.4	4.4	8.4	7.7	57	e4.0	13	59	12	14	.94
24	1.5	.76	4.9	8.4	7.7	56	e4.0	12	60	15	14	1.0
25	1.5	1.4	4.9	8.4	7.7	55	e4.0	12	52	18	17	.99
26	2.4	3.3	4.7	8.4	7.8	55	e3.2	12	45	18	22	.43
27	2.6	3.3	4.9	8.4	7.7	55	e2.5	12	45	18	22	.43
28	1.8	3.0	4.7	8.4	7.9	55	e2.5	12	46	18	22	.39
29	1.6	3.0	4.4	8.3	7.7	54	e2.5	11	44	17	23	.38
30	2.2	8.0	4.4	8.0	---	55	e2.5	16	46	17	23	.38
31	2.3	---	4.7	8.0	---	56	---	30	---	18	21	---
TOTAL	36.03	72.68	171.7	236.0	231.9	1258.9	630.5	247.1	1368	996	491	156.02
MEAN	1.16	2.42	5.54	7.61	8.00	40.6	21.0	7.97	45.6	32.1	15.8	5.20
MAX	2.6	8.0	21	8.4	8.4	60	56	30	61	50	24	21
MIN	.69	.65	2.0	4.7	7.7	7.7	2.5	2.5	31	12	11	.38
AC-FT	71	144	341	468	460	2500	1250	490	2710	1980	974	309

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992												
MEAN	11.4	5.89	5.71	5.19	7.11	20.0	42.3	75.9	45.3	32.3	28.7	20.8
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	6.39	2.14	3.92	.050
(WY)	1970	1966	1965	1965	1965	1967	1977	1977	1973	1983	1967	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1965 - 1992
ANNUAL TOTAL	4474.76	5895.83	--
ANNUAL MEAN	12.3	16.1	25.1
HIGHEST ANNUAL MEAN	--	--	58.3
LOWEST ANNUAL MEAN	--	--	3.89
HIGHEST DAILY MEAN	90	61	740
LOWEST DAILY MEAN	.00 May 17	.38 Jun 22	.00 May 15 1984
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.57 Sep 29	.00 Oct 22 1964
ANNUAL RUNOFF (AC-FT)	8880	11690	18220
10 PERCENT EXCEEDS	43	48	65
50 PERCENT EXCEEDS	2.3	8.0	7.8
90 PERCENT EXCEEDS	.00	1.0	.00

e Estimated.

BEAR RIVER BASIN
10016900 BEAR RIVER AT EVANSTON, WY

431

LOCATION.--Lat 41°16'13", long 110°57'47", in NE¼ NW¼ NW¼ sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr 1 to May 19 and July 21 to Aug. 19. Records good 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	160	600	315	73	22	15
2	---	---	---	---	---	---	155	500	246	88	25	21
3	---	---	---	---	---	---	200	490	198	83	27	21
4	---	---	---	---	---	---	220	550	178	64	23	22
5	---	---	---	---	---	---	250	550	160	52	21	26
6	---	---	---	---	---	---	200	600	129	44	23	30
7	---	---	---	---	---	---	180	550	118	42	25	19
8	---	---	---	---	---	---	200	530	126	45	25	15
9	---	---	---	---	---	---	250	600	156	70	28	11
10	---	---	---	---	---	---	200	450	141	70	20	9.5
11	---	---	---	---	---	---	220	350	130	65	16	11
12	---	---	---	---	---	---	280	400	120	91	14	12
13	---	---	---	---	---	---	250	600	101	139	11	12
14	---	---	---	---	---	---	270	700	99	84	13	14
15	---	---	---	---	---	---	300	600	108	62	14	13
16	---	---	---	---	---	---	220	550	121	55	15	11
17	---	---	---	---	---	---	250	550	117	45	16	14
18	---	---	---	---	---	---	290	600	97	37	20	14
19	---	---	---	---	---	---	280	630	80	34	12	16
20	---	---	---	---	---	---	230	825	69	32	9.8	11
21	---	---	---	---	---	---	200	757	70	30	7.8	5.1
22	---	---	---	---	---	---	220	666	78	29	8.1	4.2
23	---	---	---	---	---	---	250	563	80	28	12	5.1
24	---	---	---	---	---	---	280	488	86	30	15	5.4
25	---	---	---	---	---	---	300	493	97	30	17	5.7
26	---	---	---	---	---	---	350	493	90	27	18	8.1
27	---	---	---	---	---	---	400	542	104	25	17	9.8
28	---	---	---	---	---	---	450	449	93	22	14	4.8
29	---	---	---	---	---	---	500	380	73	20	15	4.5
30	---	---	---	---	---	---	550	367	62	18	9.8	3.8
31	---	---	---	---	---	---	---	357	---	20	11	---
TOTAL	---	---	---	---	---	---	8105	16780	3642	1554	524.5	374.0
MEAN	---	---	---	---	---	---	270	541	121	50.1	16.9	12.5
MAX	---	---	---	---	---	---	550	825	315	139	28	30
MIN	---	---	---	---	---	---	155	350	62	18	7.8	3.8
AC-FT	---	---	---	---	---	---	16080	33280	7220	3080	1040	742

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)*

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---
(WY)	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---
(WY)	---	---	---	---	---	---	---	---	---

SUMMARY STATISTICS
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*
825 May 20
3.8 Sep 30
1050 May 20
3.98 May 20
--
--
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WATER YEARS 1984 - 1992*
3160 May 16 1984
3.8 Sep 30 1992
5.3 Aug 18 1988
3680 May 16 1984
7.35 May 16 1984
940
149
23

* During period of operation.

BEAR RIVER BASIN
10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE¼ NW¼ NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, June 2, 1983, gage height, 6.17 ft; minimum, no flow several days during August and September 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 906 ft³/s, May 20, gage height, 3.55 ft; minimum discharge, 0.50 ft³/s, Sept. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	59	e70	e66	e61	e96	128	446	190	26	4.5	.62
2	19	71	e78	e64	e60	e100	119	417	159	29	3.9	.66
3	17	61	e74	e63	e63	e115	121	337	131	32	3.4	.88
4	16	70	e70	e64	e68	e128	126	325	109	28	2.8	1.7
5	15	76	e64	e64	e64	e138	130	311	83	24	2.3	3.0
6	13	88	e70	e64	e65	e145	137	347	67	21	4.1	2.8
7	13	178	e70	e64	e69	e152	128	354	58	17	5.1	3.0
8	12	135	e68	e64	e70	e169	121	349	55	15	4.3	4.5
9	13	109	e66	e64	e74	e200	119	406	54	15	3.7	3.4
10	13	160	e67	e65	e72	e245	123	556	51	16	3.4	3.0
11	13	172	e69	e66	e71	e295	117	398	44	17	3.2	2.6
12	13	122	e70	e66	e73	e320	122	328	47	26	2.9	1.8
13	15	94	e68	e64	e71	e328	140	323	44	36	2.7	.95
14	15	98	e68	e64	e73	e329	137	465	41	41	3.3	.73
15	13	106	e64	e64	e72	e310	140	518	43	29	3.5	.90
16	13	80	e62	e64	e70	e280	152	456	45	25	2.8	2.6
17	12	96	e62	e64	e68	e250	139	436	43	21	2.9	3.4
18	11	93	e65	e63	e72	220	182	436	41	17	2.4	3.9
19	15	97	e66	e62	e73	184	210	404	35	15	2.3	4.0
20	21	89	e63	e60	e74	162	165	565	31	13	2.6	4.9
21	23	90	e60	e65	e74	150	139	691	28	13	3.0	5.8
22	25	91	e64	e68	e74	153	138	552	24	13	2.4	5.0
23	31	81	e66	e66	e75	162	170	449	23	11	1.7	3.0
24	42	87	e63	e66	e76	172	145	355	23	7.8	1.4	1.8
25	45	89	e61	e66	e76	152	121	316	25	6.4	1.4	1.5
26	44	103	e60	e68	e80	148	129	299	29	5.7	1.1	2.0
27	e43	107	e60	e69	e85	147	164	323	30	5.9	.98	2.7
28	e42	102	e60	e65	e90	160	222	299	31	5.8	1.1	3.3
29	e42	e87	e60	e64	e96	145	314	245	28	5.8	1.2	4.6
30	e43	e75	e65	e64	---	137	389	230	25	5.5	1.1	6.1
31	45	---	e67	e62	---	136	---	207	---	4.8	.81	---
TOTAL	715	2966	2040	2002	2109	5828	4687	12143	1637	547.7	82.29	85.14
MEAN	23.1	98.9	65.8	64.6	72.7	188	156	392	54.6	17.7	2.65	2.84
MAX	45	178	78	69	96	329	389	691	190	41	5.1	6.1
MIN	11	59	60	60	60	96	117	207	23	4.8	.81	.62
AC-FT	1420	5880	4050	3970	4180	11560	9300	24090	3250	1090	163	169

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	78.7	74.6	73.1	69.5	87.2	162	354	819	866	182	51.1	54.2																			
MAX	437	198	181	147	312	627	671	1957	2564	870	340	288																			
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1975	1983	1983																			
MIN	3.03	6.06	7.21	6.76	15.2	26.8	77.7	104	54.6	4.84	2.26	.49																			
(WY)	1965	1989	1989	1989	1989	1977	1977	1977	1992	1988	1988	1988																			

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	53200	34842.13	--
ANNUAL MEAN	146	95.2	239
HIGHEST ANNUAL MEAN	--	--	583
LOWEST ANNUAL MEAN	--	--	45.1
HIGHEST DAILY MEAN	1440	691	3900
LOWEST DAILY MEAN	11	.62	.00
ANNUAL SEVEN-DAY MINIMUM	13	.91	.00
ANNUAL RUNOFF (AC-FT)	105500	69110	173400
10 PERCENT EXCEEDS	399	259	704
50 PERCENT EXCEEDS	46	64	85
90 PERCENT EXCEEDS	24	3.0	9.3

e Estimated.

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 20...	1600	56	425	3.0	220	55	20	13	0.4	2.0	210	22
MAY 19...	1315	319	192	15.0	99	26	8.3	3.5	0.2	1.1	92	14
JUN 18...	1315	84	530	19.0	260	55	29	22	0.6	2.9	240	34
JUL 21...	1530	13	520	23.0	230	40	31	26	0.8	3.0	200	34

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 20...	18	0.1	8.5	265	0.36	40.0	<0.1	0.04	<1	26	3.9
MAY 19...	5.1	0.1	5.1	118	0.16	102	<0.1	0.03	<1	39	34
JUN 18...	22	0.2	11	320	0.44	72.6	<0.1	<0.03	<1	26	5.9
JUL 21...	30	0.2	6.0	290	0.39	10.2	<0.1	<0.03	<1	10	0.35

BEAR RIVER BASIN
10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¼ NW¼ NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,405 ft above NGVD of 1929, from levels by Bureau of Reclamation.

REMARKS.--Records good except for estimated contents, which are 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft, June 2, 1983, gage height, 53.5 ft; minimum observed, 880 acre-ft, Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 52,500 acre-ft, Apr. 8, gage height, 48.27 ft; minimum contents, 4,570 acre-ft, Sept. 30, gage height, 13.24 ft.

CAPACITY TABLE (GAGE-HEIGHT, IN FEET, AND TOTAL CONTENTS, IN ACRE-FEET)

13.0	4,420	35.0	27,620
14.0	5,030	40.0	36,160
20.0	9,520	45.0	45,660
25.0	14,390	48.0	51,920
30.0	20,280	49.0	54,130

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24400	e27400	31100	34100	36900	40600	51300	50700	e42000	9750	6860	e5360
2	24500	e27600	31200	34100	37000	40900	51500	50800	e41200	9690	6800	5320
3	24500	e27900	31300	34200	37100	41200	51600	50900	e40000	9630	6750	5290
4	24500	e28000	31400	34300	37200	41600	51800	51000	e38800	9560	6730	5250
5	24500	e28100	31500	34400	37200	41900	51900	50800	e37200	9490	6690	5220
6	24500	e28300	31700	34500	37300	42200	52100	50400	e36000	9380	6590	5180
7	24500	e28400	31800	34600	37400	42600	52300	50200	e34800	9280	6530	5150
8	24400	e28500	32000	34700	37500	43000	52500	50300	e33000	9180	6460	5080
9	24400	e28600	32100	34800	37600	43300	52300	50300	e32000	9060	e6410	5020
10	e24400	e28700	32200	34900	37700	43700	52100	50500	e30400	8960	e6340	5000
11	e24400	e28700	32400	35000	37800	44100	51900	50600	e29200	8840	e6260	4980
12	e24400	e28800	32500	35100	37900	44500	51700	50600	e28000	8790	6220	4970
13	e24400	e28800	32600	35100	38100	44900	51500	e50600	e26000	8740	6170	4940
14	e24400	e28900	32700	35300	38200	45400	51300	e50700	e24800	8700	6120	4890
15	e24400	e28900	32700	35400	38300	45900	51100	e50800	e23600	e8650	6110	4860
16	e24400	e28900	32800	35500	38400	46600	50900	e50900	e22400	e8550	6070	4820
17	e24500	e29000	32900	35600	38600	47200	50700	e50900	e20800	e8450	6010	4790
18	e24500	e29100	33000	35600	38700	47700	50500	e50700	e18900	e8360	5980	4770
19	e24600	e29100	33100	35700	38800	48000	50400	e50400	e17800	e8260	5970	4760
20	e24800	e29200	33100	35800	39000	48300	50300	e49600	e16800	e8160	5940	4750
21	e24900	e29300	33200	35900	39100	48600	50100	e49000	e15200	8090	5850	4740
22	e25000	e29400	33300	36000	39200	48900	50000	e48400	e13600	7970	5770	4730
23	e25200	e29500	33400	36100	39300	49100	50000	e47200	11800	7840	5720	4710
24	e25500	e29700	33500	36200	39500	49400	50000	e46200	10900	7730	5660	4700
25	e25700	e30000	33500	36300	39600	49700	50100	e46100	10200	7610	5600	4690
26	e25900	30200	33600	36300	39800	49900	50100	e46000	10100	7490	5560	4670
27	e26200	30600	33700	36400	39900	50100	50200	e46000	10000	7360	5500	4640
28	e26400	30800	33800	36500	40100	50400	50200	e45300	9950	7240	5450	4620
29	e26700	30900	33800	36600	40300	50600	e50400	e44800	9860	7110	e5420	4590
30	e27000	31000	33900	36700	---	50900	e50600	e44000	9800	7000	e5390	4580
31	e27200	---	34000	36800	---	51100	---	e42800	---	6920	e5370	---
MAX	27200	31000	34000	36800	40300	51100	52500	51000	42000	9750	6860	5360
MIN	24400	27400	31100	34100	36900	40600	50000	42800	9800	6920	5370	4580
(#)	--	36.99	38.73	40.35	42.25	47.61	--	--	20.34	16.80	--	13.27
(*)	+2800	+3800	+3000	+2800	+3500	+10800	-500	-7800	-33000	-2880	-1550	-790

CAL YR 1991 (*) +27470

WTR YR 1992 (*) -19820

(#) Elevation, in feet, at end of month.

(*) Change in contents.

(e) No gage reading, contents interpolated.

BEAR RIVER BASIN
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

435

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼ NW¼ 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 NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft³/s, May 18, gage height, 5.75 ft; minimum daily, 8.9 ft³/s, Sept. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	19	18	19	20	21	378	667	65	31	19
2	19	18	19	18	20	20	21	379	659	65	31	19
3	18	18	19	18	20	20	21	446	655	65	31	19
4	18	18	19	18	20	20	21	491	650	65	31	19
5	18	18	19	18	20	21	20	490	646	65	32	19
6	18	18	19	19	20	21	20	403	641	64	32	18
7	18	18	19	19	20	20	21	349	635	64	32	17
8	18	18	18	19	20	20	143	351	622	64	32	12
9	18	18	18	19	20	21	232	348	604	64	32	12
10	18	18	18	19	20	21	232	347	596	64	31	12
11	18	18	18	19	20	21	232	349	584	63	28	11
12	18	18	18	19	20	21	232	351	577	63	28	11
13	18	18	18	19	20	20	245	368	572	63	28	11
14	18	18	18	19	20	20	260	379	564	62	28	10
15	17	17	18	19	20	20	260	380	548	62	27	11
16	17	17	18	19	20	20	260	382	535	62	27	11
17	17	18	18	19	20	20	257	379	524	62	26	11
18	17	18	19	19	21	20	257	672	517	62	26	10
19	17	18	19	18	21	20	259	987	507	62	25	9.4
20	17	18	19	18	21	20	260	980	498	62	24	8.9
21	17	18	19	18	21	20	260	977	489	61	24	8.9
22	17	18	19	18	20	20	185	969	476	61	23	9.3
23	16	18	19	18	20	20	122	966	473	62	22	9.8
24	16	18	19	19	20	20	121	959	465	62	22	9.1
25	17	18	18	19	20	20	120	897	447	62	22	9.7
26	17	18	18	19	21	20	120	804	196	62	22	e10
27	17	18	18	19	21	20	147	799	68	62	22	e10
28	17	19	18	19	21	20	174	794	66	61	20	e10
29	17	19	18	19	20	20	174	789	65	61	18	e10
30	17	19	18	19	---	20	308	784	65	45	18	e10
31	18	---	18	18	---	20	---	708	---	31	19	---
TOTAL	548	541	572	578	586	626	5005	18655	14611	1898	814	367.1
MEAN	17.7	18.0	18.5	18.6	20.2	20.2	167	602	487	61.2	26.3	12.2
MAX	25	19	19	19	21	21	308	987	667	65	32	19
MIN	16	17	18	18	19	20	20	347	65	31	18	8.9
AC-FT	1090	1070	1130	1150	1160	1240	9930	37000	28980	3760	1610	728

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	59.7	58.4	48.5	46.6	51.1	107	296	788	982	283	79.9	54.4																			
MAX	425	421	184	153	171	473	891	1828	2437	913	331	278																			
(WY)	1983	1983	1983	1985	1971	1972	1985	1984	1983	1975	1983	1983																			
MIN	3.89	.12	4.28	4.37	4.71	4.70	.34	27.8	396	20.0	3.91	3.65																			
(WY)	1990	1981	1978	1978	1978	1978	1977	1977	1977	1966	1979	1979																			

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1962 - 1992
ANNUAL TOTAL	49280.8	44801.1	--
ANNUAL MEAN	135	122	238
HIGHEST ANNUAL MEAN	--	--	509
LOWEST ANNUAL MEAN	--	--	44.3
HIGHEST DAILY MEAN	1380	May 28 987	3630
LOWEST DAILY MEAN	8.8	May 25 8.9	.00
ANNUAL SEVEN-DAY MINIMUM	14	Jan 1 9.3	.07
ANNUAL RUNOFF (AC-FT)	97750	88860	172500
10 PERCENT EXCEEDS	666	489	786
50 PERCENT EXCEEDS	18	20	42
90 PERCENT EXCEEDS	15	17	8.3

e Estimated.

BEAR RIVER BASIN
10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼ NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi upstream from Twin Creek, 5.0 mi upstream from Utah-Wyoming State line, and 11 mi northeast of Randolph.

DRAINAGE AREA.--1,616 mi².

PERIOD OF RECORD.--December 1943 to September 1992 (discontinued). 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 6,200 ft above NGVD of 1929, from river-profile map. Prior to Aug. 17, 1971, 0.2 mi upstream at different datum. Aug. 17, 1971 to Sept. 30, 1986 at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation of about 94,500 acres upstream from station. Flow regulated by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft³/s, June 4, 1983, gage height, 8.58 ft, datum then in use; minimum, 1.6 ft³/s, Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 363 ft³/s, June 9, gage height, 13.16 ft; minimum daily discharge, 3.7 ft³/s, Aug. 23, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	e52	e34	e50	e43	e59	e57	e26	263	162	14	8.6
2	52	e50	e51	e52	e43	e60	e54	e26	267	173	17	9.5
3	49	e52	e49	e54	e47	e61	e52	e26	311	149	19	9.3
4	48	e60	e48	e51	e49	e61	e52	e26	313	121	18	7.8
5	47	e65	e48	e46	e51	e62	e50	e25	316	106	19	8.0
6	47	63	e53	e64	e53	e62	e43	e25	288	90	26	7.1
7	47	69	e56	e54	e52	e63	e41	e24	243	69	21	7.1
8	44	65	e53	e49	e51	e66	e40	e24	251	69	21	7.4
9	45	66	e52	e48	e50	e70	e42	e24	319	65	20	7.1
10	59	92	e49	e42	e51	e74	e41	e24	340	62	19	7.3
11	51	74	e51	e46	e52	e78	e51	e25	311	55	19	7.6
12	47	69	e52	e45	e51	e78	e73	e26	291	75	16	7.9
13	46	66	e52	e44	e51	e77	e83	e28	288	81	13	7.9
14	47	66	e51	e56	e52	e76	e82	28	280	57	11	7.6
15	47	65	e49	e45	e52	e75	e75	25	263	53	7.3	7.9
16	46	82	e48	e46	e48	e74	e63	24	263	50	6.5	7.7
17	45	68	e49	e46	e47	e74	e54	19	250	47	5.9	7.8
18	44	66	e53	e41	e48	e74	e46	20	224	47	5.9	7.8
19	42	66	e56	e37	e50	68	e42	21	221	46	4.9	7.6
20	42	64	e49	e38	e54	e68	e39	27	214	50	3.8	7.1
21	42	65	e46	e44	e56	e63	e35	39	207	46	3.8	7.0
22	42	e62	e52	e44	e56	e63	e32	83	196	41	3.9	6.8
23	46	e60	e54	e49	e55	63	e31	145	177	39	3.7	6.7
24	46	e64	e52	e51	e55	e61	e30	183	165	32	3.7	7.7
25	44	e67	e50	e58	e55	e60	e29	225	149	28	4.8	8.1
26	44	e61	e50	e53	e55	e60	e28	238	178	25	5.2	8.0
27	48	e56	e49	e49	e56	e59	e28	234	209	22	5.6	7.6
28	53	e48	e49	e44	e56	e60	e27	232	233	23	6.1	7.4
29	54	e43	e49	e46	e57	e58	e27	198	211	37	5.8	7.4
30	52	e38	e54	e48	---	e59	e26	228	178	27	6.6	7.4
31	e50	---	e56	e48	---	e61	---	235	---	18	8.1	---
TOTAL	1474	1884	1564	1488	1496	2047	1373	2533	7419	1965	344.6	230.2
MEAN	47.5	62.8	50.5	48.0	51.6	66.0	45.8	81.7	247	63.4	11.1	7.67
MAX	59	92	56	64	57	78	83	238	340	173	26	9.5
MIN	42	38	34	37	43	58	26	19	149	18	3.7	6.7
AC-FT	2920	3740	3100	2950	2970	4060	2720	5020	14720	3900	684	457

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1992, BY WATER YEAR (WY)

	MEAN	76.5	90.8	80.2	78.6	97.7	209	383	491	632	216	79.9	52.9
MAX	463	475	305	195	273	843	1079	1844	2464	800	409	378	
(WY)	1983	1983	1983	1985	1986	1972	1969	1952	1983	1975	1983	1983	
MIN	5.91	7.37	17.9	18.3	25.4	23.5	10.8	8.62	26.9	6.48	3.50	5.35	
(WY)	1978	1962	1978	1962	1978	1977	1990	1990	1961	1977	1961	1960	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1945 - 1992
ANNUAL TOTAL	29976.3	23817.8	--
ANNUAL MEAN	82.1	65.1	208
HIGHEST ANNUAL MEAN	--	--	586
LOWEST ANNUAL MEAN	--	--	22.8
HIGHEST DAILY MEAN	1240	340	3500
LOWEST DAILY MEAN	5.2	3.7	2.2
ANNUAL SEVEN-DAY MINIMUM	6.1	4.1	2.6
ANNUAL RUNOFF (AC-FT)	59460	47240	150700
10 PERCENT EXCEEDS	189	174	560
50 PERCENT EXCEEDS	47	50	81
90 PERCENT EXCEEDS	12	7.8	17

e Estimated.

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼ SW¼ SE¼ 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
OCT 08...	0905	4.3	750	5.0	360	81	39	38	0.9	2.8	190
NOV 21...	0930	7.3	960	1.0	410	94	42	50	1	3.1	200
FEB 04...	0930	3.6	910	0.0	410	97	41	44	0.9	3.2	240
MAR 18...	1000	12	960	3.5	370	82	40	58	1	3.7	210
APR 13...	1905	4.4	1010	14.5	460	99	52	64	1	4.1	220
MAY 19...	0745	4.3	820	10.5	370	73	46	49	1	3.2	180
JUN 19...	1130	3.6	770	18.0	320	58	43	45	1	3.0	140
JUL 21...	0900	2.2	725	17.5	290	48	41	46	1	2.7	110
AUG 19...	0720	1.9	760	15.0	320	54	44	48	1	3.9	96
SEP 22...	1100	2.5	750	12.0	330	65	40	41	1	3.2	150

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 08...	210	27	0.4	7.8	520	0.71	6.04	<0.1	<0.03	32	0.37
NOV 21...	280	33	0.3	9.6	632	0.86	12.5	<0.1	<0.03	35	0.69
FEB 04...	240	31	0.4	13	614	0.84	5.97	0.2	0.05	37	0.36
MAR 18...	260	34	0.4	8.9	613	0.83	19.9	<0.1	<0.03	114	3.7
APR 13...	300	42	0.4	9.1	704	0.96	8.37	0.4	<0.03	91	1.1
MAY 19...	270	34	0.4	7.6	591	0.80	6.86	<0.1	<0.03	65	0.75
JUN 19...	240	35	0.4	5.3	514	0.70	4.99	<0.1	<0.03	42	0.41
JUL 21...	220	33	0.4	2.2	459	0.62	2.73	<0.1	<0.03	16	0.09
AUG 19...	280	37	0.4	3.5	528	0.72	2.71	<0.1	<0.03	54	0.28
SEP 22...	230	30	0.4	6.6	506	0.69	3.42	<0.1	<0.03	29	0.20

BEAR RIVER BASIN
10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼ SE¼ 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 NGVD of 1929, from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s, Mar. 25, 1956; minimum recorded, 0.24 ft³/s, Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 150 ft³/s, July 2; minimum daily, 1.7 ft³/s, May 18-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	34	2.8	44	e95	39	10
2	---	---	---	---	---	---	33	2.8	47	e150	34	11
3	---	---	---	---	---	---	32	2.7	52	e130	33	13
4	---	---	---	---	---	---	30	2.7	63	e115	35	14
5	---	---	---	---	---	---	28	2.5	74	e100	34	14
6	---	---	---	---	---	---	27	2.4	81	e105	34	14
7	---	---	---	---	---	---	26	2.2	82	e108	41	14
8	---	---	---	---	---	---	26	2.1	79	e102	37	13
9	---	---	---	---	---	---	25	2.3	77	e98	37	12
10	---	---	---	---	---	---	24	2.1	77	e99	36	13
11	---	---	---	---	---	---	23	1.9	103	e104	35	12
12	---	---	---	---	---	---	20	2.0	143	e106	34	13
13	---	---	---	---	---	---	15	2.2	141	e102	31	13
14	---	---	---	---	---	---	2.0	2.1	128	e109	28	13
15	---	---	---	---	---	---	4.4	2.0	122	e116	26	13
16	---	---	---	---	---	---	3.7	1.9	113	e120	24	12
17	---	---	---	---	---	---	4.8	1.9	105	e112	23	12
18	---	---	---	---	---	---	5.7	1.7	97	e102	23	11
19	---	---	---	---	---	98	4.9	1.7	92	e94	22	11
20	---	---	---	---	---	89	4.1	1.7	81	e88	22	11
21	---	---	---	---	---	72	3.8	1.7	83	e94	22	11
22	---	---	---	---	---	63	4.5	1.8	89	86	21	11
23	---	---	---	---	---	67	4.7	1.8	72	78	20	12
24	---	---	---	---	---	67	4.6	1.9	65	71	19	12
25	---	---	---	---	---	65	4.4	2.2	56	62	19	12
26	---	---	---	---	---	49	3.8	8.1	57	55	19	12
27	---	---	---	---	---	30	3.3	17	e63	50	13	12
28	---	---	---	---	---	33	3.0	20	e62	46	6.2	14
29	---	---	---	---	---	38	2.8	24	e60	44	6.6	13
30	---	---	---	---	---	37	2.7	40	e64	56	7.0	13
31	---	---	---	---	---	35	---	44	---	50	9.6	---
TOTAL	---	---	---	---	---	---	410.2	206.2	2472	2847	790.4	371
MEAN	---	---	---	---	---	---	13.7	6.65	82.4	91.8	25.5	12.4
MAX	---	---	---	---	---	---	34	44	143	150	41	14
MIN	---	---	---	---	---	---	2.0	1.7	44	44	6.2	10
AC-FT	---	---	---	---	---	---	814	409	4900	5650	1570	736

e Estimated.

BEAR RIVER BASIN
10032000 SMITHS FORK NEAR BORDER, WY

439

LOCATION.--Lat 42°17'36", long 110°52'18", in NE¼ SW¼ SW¼ sec.28, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobbie Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above NGVD of 1929, from topographic map. Prior to Oct. 16, 1945, at site 1.2 mi downstream at different datum. Oct. 16, 1945 to Nov. 1986 at site 0.4 mi downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. One diversion for irrigation of about 200 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s, June 4, 1986, gage height, 5.66 ft; minimum, 21 ft³/s, Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 333 ft³/s, May 21, gage height, 2.85 ft; minimum daily, 51 ft³/s, Jan. 20, Feb. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	80	e56	e67	e57	62	95	265	236	139	90	76
2	85	80	e70	e60	e59	64	101	258	239	139	90	74
3	85	81	e70	e56	e62	64	109	257	231	133	91	72
4	85	e81	e62	e60	e63	67	123	273	228	128	92	76
5	85	81	e63	e66	e62	70	129	280	222	126	89	77
6	85	89	e66	68	e60	68	119	283	215	124	88	74
7	84	86	69	65	e58	69	112	302	211	122	88	73
8	84	80	68	66	e55	70	113	305	204	120	86	72
9	83	84	e65	e62	51	70	114	e309	199	118	84	71
10	83	85	e67	e58	53	68	128	e298	199	115	83	70
11	83	79	e70	e63	54	70	133	273	186	115	84	70
12	82	78	e74	e62	57	72	133	263	187	125	81	69
13	82	78	78	e62	58	76	139	267	179	123	80	68
14	81	78	e73	e62	56	79	146	265	175	116	80	68
15	81	76	e70	e78	55	81	155	264	181	113	80	67
16	81	72	e77	e70	55	80	155	267	183	109	82	66
17	80	70	e81	e64	55	79	177	273	185	108	84	66
18	79	77	e82	e58	55	80	202	283	167	106	88	66
19	79	73	e74	e55	54	77	171	298	174	105	81	65
20	78	67	e70	e51	55	73	160	299	163	108	80	65
21	78	76	e72	e53	55	72	160	304	158	111	78	64
22	79	71	e77	e57	56	73	167	317	153	105	77	64
23	96	71	e75	e62	55	75	162	300	148	103	76	63
24	81	94	e73	65	55	73	152	294	143	101	75	66
25	80	73	e70	68	57	73	151	294	144	99	75	68
26	80	72	e68	e66	60	77	156	287	154	98	75	66
27	89	71	e67	e61	58	80	177	282	156	97	75	65
28	81	69	e67	e60	57	84	206	275	148	96	73	64
29	77	e63	e68	64	59	85	232	264	138	94	73	64
30	82	e58	e73	e62	---	88	259	260	137	93	72	64
31	93	---	e79	e59	---	94	---	247	---	91	73	---
TOTAL	2567	2293	2194	1930	1646	2313	4536	8706	5443	3480	2523	2053
MEAN	82.8	76.4	70.8	62.3	56.8	74.6	151	281	181	112	81.4	68.4
MAX	96	94	82	78	63	94	259	317	239	139	92	77
MIN	77	58	56	51	51	62	95	247	137	91	72	63
AC-FT	5090	4550	4350	3830	3260	4590	9000	17270	10800	6900	5000	4070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1992, BY WATER YEAR (WY)

	MEAN	92.2	79.6	70.2	64.3	61.3	62.3	162	545	630	296	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	48.4	40.1	38.1	39.5	58.6	99.1	96.2	61.4	55.1	52.1	
(WY)	1978	1978	1988	1988	1988	1988	1975	1977	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1943 - 1992
ANNUAL TOTAL	56059	39684	--
ANNUAL MEAN	154	108	194
HIGHEST ANNUAL MEAN	--	--	324
LOWEST ANNUAL MEAN	--	--	71.1
HIGHEST DAILY MEAN	779	Jun 8	2000
LOWEST DAILY MEAN	40	Jan 22	34
ANNUAL SEVEN-DAY MINIMUM	44	Jan 20	36
ANNUAL RUNOFF (AC-FT)	111200	78710	140800
10 PERCENT EXCEEDS	410	229	521
50 PERCENT EXCEEDS	88	80	91
90 PERCENT EXCEEDS	49	60	59

e Estimated.

BEAR RIVER BASIN

10035000 SMITHS FORK AT COKEVILLE, WY

LOCATION.--Lat 42°05'47", long 110°56'24", in NE¼ NW¼ NW¼ 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 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 21...	1130	75	400	2.0	<1	15	3.0
MAY 19...	1025	306	320	9.5	<1	94	78
JUN 18...	1700	143	380	17.0	<1	42	16
JUL 21...	1230	94	400	17.0	<1	24	6.1

BEAR RIVER BASIN
10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

441

LOCATION.--Lat 42°07'36", long 110°58'21", in NW¼ SE¼ NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi².

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft³/s, June 7, 1983, gage height, 8.75 ft; minimum, 31 ft³/s, Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 499 ft³/s, Mar. 8, gage height, 3.76 ft; minimum discharge, 76 ft³/s, Sept. 22, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	183	e135	e145	e128	218	182	216	260	256	104	91
2	166	161	185	e145	e125	228	179	214	264	393	86	90
3	161	154	172	e145	121	281	187	210	273	363	81	84
4	150	201	e175	143	e135	371	200	219	301	324	77	93
5	148	202	e155	148	e140	401	205	211	320	291	81	105
6	150	229	e145	155	e140	429	198	220	335	271	82	99
7	145	241	e160	158	e140	451	185	242	353	277	82	96
8	124	216	e158	e142	e140	479	180	261	340	327	90	91
9	122	248	e148	e130	e140	467	172	283	334	271	79	90
10	128	242	e138	e122	e160	422	183	287	321	258	78	85
11	133	234	e140	e120	e148	372	200	263	316	300	95	86
12	142	228	e145	e120	e155	352	188	242	357	317	93	92
13	139	218	e148	e125	e150	328	189	238	403	306	91	90
14	135	248	e138	e135	e155	326	190	260	390	349	87	99
15	136	224	e132	e145	154	324	186	266	388	302	85	92
16	135	207	e128	e145	154	310	196	260	381	263	85	89
17	135	194	e126	e135	154	283	205	256	371	233	88	84
18	133	216	e131	e125	155	266	272	259	354	208	88	89
19	124	212	e137	e120	156	253	242	259	336	194	83	86
20	123	200	e126	e115	151	235	219	272	314	198	83	81
21	124	214	e124	e130	153	219	213	283	296	173	80	81
22	125	196	e128	e140	155	177	208	324	293	165	88	79
23	194	156	e131	e145	158	173	229	295	273	152	91	78
24	181	176	e137	e145	163	179	223	280	249	140	91	85
25	165	209	e136	e140	162	176	207	271	239	127	89	89
26	177	218	e135	e140	185	174	189	259	249	120	87	88
27	179	213	e131	e140	195	165	189	251	252	112	90	86
28	174	190	e131	e140	210	160	201	256	247	101	86	84
29	165	179	e131	e138	208	169	210	249	235	96	77	83
30	161	152	e135	e135	---	181	222	255	237	94	85	81
31	161	---	142	e135	---	182	---	270	---	106	86	---
TOTAL	4566	6161	4383	4246	4490	8751	6049	7931	9281	7087	2668	2646
MEAN	147	205	141	137	155	282	202	256	309	229	86.1	88.2
MAX	194	248	185	158	210	479	272	324	403	393	104	105
MIN	122	152	124	115	121	160	172	210	235	94	77	78
AC-FT	9060	12220	8690	8420	8910	17360	12000	15730	18410	14060	5290	5250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1992, BY WATER YEAR (WY)

	MEAN	224	234	204	184	212	375	715	1024	1250	583	238	202
MAX	755	692	536	344	429	1159	1945	2794	3712	1556	707	658	
(WY)	1983	1983	1983	1984	1986	1986	1985	1984	1983	1983	1983	1983	1983
MIN	55.6	83.1	96.5	94.7	91.0	116	69.2	115	96.7	71.4	80.1	55.9	
(WY)	1978	1978	1978	1978	1988	1988	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1955 - 1992
ANNUAL TOTAL	89186	68259	--
ANNUAL MEAN	244	186	454
HIGHEST ANNUAL MEAN	--	--	1049
LOWEST ANNUAL MEAN	--	--	112
HIGHEST DAILY MEAN	1870	479	5400
LOWEST DAILY MEAN	90	77	31
ANNUAL SEVEN-DAY MINIMUM	94	81	36
ANNUAL RUNOFF (AC-FT)	176900	135400	328900
10 PERCENT EXCEEDS	483	307	1120
50 PERCENT EXCEEDS	154	165	225
90 PERCENT EXCEEDS	100	88	115

e Estimated.

BEAR RIVER BASIN
10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼ NE¼ NE¼ 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.

WATER-DISCHARGE RECORDS

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 NGVD of 1929, unadjusted.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s, June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s, Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 456 ft³/s, Mar. 8, gage height, 2.94 ft; minimum daily discharge, 33 ft³/s, Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	e170	e147	e143	e127	e204	160	210	197	207	91	41
2	160	e187	e180	e144	e123	e211	156	210	197	283	77	40
3	172	e183	e180	e145	e124	e250	159	194	200	313	72	39
4	158	e187	e180	e148	e129	e350	171	204	214	284	67	40
5	156	e216	e160	e150	e130	e390	180	199	227	260	66	61
6	159	e218	e150	e152	e138	e415	183	194	238	242	67	103
7	155	246	e165	e156	e139	e440	173	209	254	251	63	98
8	148	226	e160	e153	e141	456	166	212	251	276	53	92
9	132	239	e150	e135	e148	443	163	212	245	255	49	88
10	141	250	e140	e127	e153	419	164	232	237	226	46	84
11	141	235	e145	e122	e152	378	180	218	227	253	44	83
12	147	237	e150	e123	e152	359	171	202	248	297	34	87
13	146	226	e150	e128	e151	342	169	205	284	293	34	87
14	142	241	e140	e133	e150	335	171	217	285	298	34	89
15	140	238	e132	e142	e152	334	168	221	284	297	33	89
16	141	219	e132	e139	e153	332	179	221	302	244	34	88
17	142	208	e126	e130	e150	311	186	217	294	235	36	87
18	139	214	e133	e124	e154	297	233	216	281	227	36	85
19	133	220	e140	e120	e163	284	233	213	268	213	38	88
20	132	206	e130	e121	e151	268	211	220	252	214	38	85
21	131	214	e125	e128	e152	252	202	227	240	200	38	85
22	132	e200	e130	e137	e154	224	186	255	235	189	36	85
23	174	e172	e135	e144	e159	204	204	243	224	175	36	83
24	189	e170	e140	e145	e162	211	209	229	204	159	38	86
25	176	e200	e140	e141	e165	206	222	221	195	151	39	89
26	180	e223	e135	e142	e172	203	202	216	197	137	38	89
27	186	e210	e135	e143	e179	203	198	203	205	126	38	89
28	189	e193	e135	e143	e189	191	202	206	202	110	39	86
29	179	e175	e135	e140	e190	196	209	194	196	93	37	85
30	e166	e160	e140	e139	---	204	213	191	197	88	37	79
31	e156	---	e143	e135	---	202	---	201	---	89	39	---
TOTAL	4783	6283	4483	4272	4402	9114	5623	6612	7080	6685	1427	2410
MEAN	154	209	145	138	152	294	187	213	236	216	46.0	80.3
MAX	189	250	180	156	190	456	233	255	302	313	91	103
MIN	131	160	125	120	123	191	156	191	195	88	33	39
AC-FT	9490	12460	8890	8470	8730	18080	11150	13110	14040	13260	2830	4780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

	MEAN	211	228	202	185	212	389	769	1022	1145	505	218	178
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	94.4	88.8	105	71.2	74.4	62.2	54.2	42.3	38.5	
(WY)	1978	1978	1978	1988	1988	1988	1977	1977	1977	1977	1940	1940	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1938 - 1992
ANNUAL TOTAL	85044	63174	--
ANNUAL MEAN	233	173	439
HIGHEST ANNUAL MEAN	--	--	1068
LOWEST ANNUAL MEAN	--	--	103
HIGHEST DAILY MEAN	1760	Jun 8	456
LOWEST DAILY MEAN	78	Aug 25	33
ANNUAL SEVEN-DAY MINIMUM	91	Aug 21	34
ANNUAL RUNOFF (AC-FT)	168700	125300	317900
10 PERCENT EXCEEDS	442	253	1120
50 PERCENT EXCEEDS	150	167	225
90 PERCENT EXCEEDS	103	82	112

e Estimated.

10039500 BEAR RIVER AT BORDER, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981.

WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,580 microsiemens, Dec. 27, 1975; minimum daily, 312 microsiemens, Apr. 3, 1969.

WATER TEMPERATURES: Maximum, 23.5°C, Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
NOV												
07...	1145	253	610	8.2	9.5	2.0	15	8.7	610	92	180	270
MAR												
24...	1230	210	680	8.4	9.5	7.5	13	9.3	605	K15	69	290
MAY												
14...	1145	216	540	8.4	19.0	16.0	6.7	9.7	607	4	9	250
JUN												
17...	1300	299	780	8.4	16.0	16.0	48	9.4	607	72	56	330
SEP												
02...	1400	39	570	8.3	23.0	16.5	2.5	8.6	608	K18	K10	270

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

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV												
07...	66	25	25	17	0.7	1.8	--	255	209	73	28	0.2
MAR												
24...	73	27	31	19	0.8	2.2	2	275	229	87	38	0.2
MAY												
14...	67	20	20	15	0.6	1.6	0	248	203	63	26	0.2
JUN												
17...	64	40	46	23	1	3.7	3	359	299	68	54	0.3
SEP												
02...	67	24	22	15	0.6	1.7	2	232	194	77	27	0.2

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV												
07...	8.4	351	371	0.48	240	1.25	1.15	0.05	0.05	1.30	1.20	0.10
MAR												
24...	8.7	438	405	0.60	248	--	--	<0.01	<0.01	--	--	0.06
MAY												
14...	6.9	327	327	0.44	191	--	--	<0.01	<0.01	<0.05	<0.05	0.01
JUN												
17...	14	467	471	0.64	377	0.07	--	0.01	<0.01	0.08	0.08	0.05
SEP												
02...	7.2	337	343	0.46	35.9	--	--	<0.01	<0.01	<0.05	<0.05	0.03

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 07...	0.10	0.13	0.40	0.50	1.8	8.0	0.57	0.47	0.48	0.46	1.4
MAR 24...	0.05	0.06	0.34	0.40	--	--	0.05	0.03	0.03	0.03	0.09
MAY 14...	0.01	0.01	0.29	0.30	--	--	0.05	0.01	0.01	<0.01	--
JUN 17...	0.04	0.05	0.85	0.90	0.98	4.3	0.11	0.03	0.02	0.01	0.03
SEP 02...	0.01	0.01	--	<0.20	--	--	<0.01	0.03	0.01	<0.01	--

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 07...	1145	10	96	<3	9	17	12
MAR 24...	1230	100	94	<3	140	19	49
JUN 17...	1300	20	110	<3	26	25	26
SEP 02...	1400	20	82	<3	13	13	21

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 07...	<10	1	<1	<1.0	480	<6
MAR 24...	<10	2	<1	<1.0	560	<6
JUN 17...	<10	1	<1	<1.0	520	<6
SEP 02...	<10	<1	<1	<1.0	650	<6

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 07...	1145	253	2.0	57	59	40
MAR 24...	1230	210	7.5	92	34	19
MAY 14...	1145	216	16.0	--	71	41
JUN 17...	1300	299	16.0	--	60	48
SEP 02...	1400	39	16.5	--	23	2.4

BEAR RIVER BASIN
10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

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LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼ NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming.
Hydrologic Unit 16010102, on right bank 1.3 mi upstream from Wyoming-Idaho State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--October 1949 to September 1992 (discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s, May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft³/s, Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
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Apr. 17	2300	*94	*1.39	No peak greater than base discharge			
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Minimum, 5.4 ft³/s, Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	e12	e12	e13	e17	33	43	24	17	7.2	8.6
2	14	e12	e13	e12	e12	e18	33	41	24	20	7.2	8.3
3	14	e12	e13	e12	e13	e19	35	39	23	17	7.6	7.8
4	13	e12	e12	e12	e13	e20	37	39	22	15	8.1	8.8
5	13	e12	e13	e12	e13	e21	38	38	22	14	7.3	10
6	13	e15	e13	e13	e12	e23	34	37	22	13	7.3	9.3
7	13	e19	e12	e14	e13	e26	31	38	22	13	7.4	8.9
8	13	16	e12	e14	e12	e28	31	38	21	13	6.9	8.4
9	13	18	e12	e14	e12	e29	31	43	21	13	6.6	8.2
10	13	18	e12	e13	e13	e32	36	40	20	12	6.4	7.9
11	13	15	e12	e13	e12	e34	40	36	20	12	6.1	7.8
12	13	14	e12	e13	e13	e33	38	34	20	15	6.2	8.2
13	13	14	e13	e12	e12	e33	40	36	19	15	6.1	8.0
14	13	15	e12	e12	e12	e30	42	36	19	14	5.9	7.9
15	13	14	e12	e13	e13	e29	44	33	21	12	6.0	7.9
16	13	16	e12	e13	e12	e28	43	33	22	11	7.5	7.5
17	13	17	e12	e13	e12	e27	58	30	25	10	8.6	7.4
18	13	14	e12	e13	e12	e27	70	30	21	9.8	9.1	7.5
19	13	13	e12	e12	e12	e27	51	29	20	9.6	8.0	7.4
20	13	e13	e12	e12	e12	e26	46	30	19	10	7.5	7.5
21	13	14	e12	e13	e12	e25	45	35	18	13	7.5	7.2
22	13	e13	e12	e13	e13	e24	52	39	17	11	7.1	7.1
23	e12	e13	e12	e13	e13	e24	50	32	16	9.6	7.4	7.1
24	e14	e13	e12	e13	e14	e24	44	29	16	9.1	7.3	7.9
25	15	e14	e13	e14	e14	26	42	30	16	8.8	7.4	7.9
26	15	e14	e12	e13	e15	28	42	30	19	8.8	7.6	8.1
27	e14	e13	e12	e13	e15	32	43	28	23	8.4	7.9	7.7
28	e14	e13	e13	e13	e16	34	45	27	22	8.3	7.5	7.4
29	15	e12	e13	e12	e16	33	45	27	17	8.1	7.3	7.4
30	e13	e12	e13	e13	---	33	45	27	17	7.5	7.3	7.1
31	e12	---	e13	e13	---	33	---	26	---	7.4	8.2	---
TOTAL	414	423	382	397	376	843	1264	1053	608	365.4	225.5	238.2
MEAN	13.4	14.1	12.3	12.8	13.0	27.2	42.1	34.0	20.3	11.8	7.27	7.94
MAX	15	19	13	14	16	34	70	43	25	20	9.1	10
MIN	12	12	12	12	12	17	31	26	16	7.4	5.9	7.1
AC-FT	821	839	758	787	746	1670	2510	2090	1210	725	447	472

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

MEAN	18.3	16.7	15.7	14.6	15.0	19.3	99.5	256	109	43.8	24.5	19.4
MAX	34.6	28.2	29.3	21.2	27.3	54.1	379	630	275	85.2	48.4	38.1
(WY)	1987	1984	1956	1984	1963	1986	1986	1986	1983	1975	1983	1986
MIN	7.91	8.61	9.17	9.42	9.00	9.10	17.8	14.6	9.57	7.20	7.02	6.92
(WY)	1978	1978	1986	1963	1955	1955	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1950 - 1992
ANNUAL TOTAL	10936	6589.1	--
ANNUAL MEAN	30.0	18.0	54.6
HIGHEST ANNUAL MEAN	--	--	130
LOWEST ANNUAL MEAN	--	--	12.5
HIGHEST DAILY MEAN	142	May 18	1450
LOWEST DAILY MEAN	10	Jan 3	4.9
ANNUAL SEVEN-DAY MINIMUM	11	Jan 3	5.1
ANNUAL RUNOFF (AC-FT)	21690	13070	39550
10 PERCENT EXCEEDS	86	36	125
50 PERCENT EXCEEDS	17	13	19
90 PERCENT EXCEEDS	12	7.6	11

e Estimated.

SNAKE RIVER MAIN STEM
13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY

LOCATION.--Lat 44°05'21", long 110°41'38", in Hydrologic Unit 17040101, Grand Teton National Park, on left bank 50 ft upstream from State Highway 89 bridge, 600 ft downstream from the confluence with Sheffield Creek, and 2 mi downstream from the south boundary of Yellowstone National Park.
DRAINAGE AREA.--486 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year. Prior to 1988 water year, published as station 13010200.

GAGE.--Water-stage recorder. Datum of the gage is 6,801.61 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Coast and Geodetic Survey). A nonrecording cantilever chain gage was used from 1913-18 at a site 2.5 mi upstream at a different datum. In 1918, an auxiliary chain gage was installed at the current site and read periodically. Water-stage recorder installed July 1921 at the current site at a different datum and operated until July 1925. Records probably not comparable.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	e285	e280	e298	e265	330	408	2960	1050	787	327	295
2	322	e280	e310	e290	e260	331	449	2910	1010	692	320	270
3	313	e290	337	e292	e250	330	512	3180	977	660	313	253
4	308	299	346	e295	e255	330	609	3540	915	657	313	283
5	300	314	342	e298	e260	334	604	3870	875	609	303	379
6	300	324	344	303	263	337	520	4210	836	573	295	397
7	297	325	359	299	261	333	477	4390	788	540	282	389
8	298	321	372	298	269	325	471	4330	746	520	275	340
9	297	344	367	e285	273	313	474	3660	715	502	274	314
10	296	360	361	e275	275	309	581	2630	688	486	271	298
11	295	334	355	e260	280	311	589	2430	675	540	269	290
12	293	326	346	e265	285	310	634	2280	664	643	269	294
13	291	333	360	e270	292	312	920	2300	655	621	266	294
14	287	352	355	e275	298	317	1170	2410	626	532	267	280
15	286	328	e345	e270	298	324	1290	2630	767	488	263	275
16	282	314	e335	e275	300	340	1380	2530	953	468	294	266
17	274	318	e330	e270	301	344	1800	2390	992	450	311	260
18	277	339	e332	e270	302	336	1580	2460	1070	434	299	257
19	277	340	e322	e255	307	319	1220	2480	1090	427	277	260
20	276	328	e326	e245	329	322	1060	2450	1050	436	273	259
21	274	e310	e314	e255	338	321	1130	2160	891	465	272	259
22	291	e300	e300	e260	344	304	1270	1900	815	463	281	259
23	326	e290	e310	e265	337	307	1220	1850	759	430	267	257
24	313	e320	e314	272	334	311	1080	1750	716	409	256	264
25	317	335	e306	277	e328	310	1120	1630	720	391	250	298
26	337	337	e300	277	e322	307	1330	1550	741	386	245	300
27	374	353	e298	272	e326	330	2130	1670	785	372	239	289
28	361	e335	311	e270	330	330	2850	1470	809	363	233	282
29	336	e310	314	e265	329	335	3300	1280	692	356	232	277
30	309	e270	313	e260	---	356	3610	1230	749	345	230	273
31	e295	---	302	e260	---	385	---	1120	---	336	235	---
TOTAL	9433	9614	10206	8521	8611	10103	35788	77650	24819	15381	8501	8711
MEAN	304	320	329	275	297	326	1193	2505	827	496	274	290
MAX	374	360	372	303	344	385	3610	4390	1090	787	327	397
MIN	274	270	280	245	250	304	408	1120	626	336	230	253
AC-FT	18710	19070	20240	16900	17080	20040	70990	154000	49230	30510	16860	17280
CFSM	.63	.66	.68	.57	.61	.67	2.45	5.15	1.70	1.02	.56	.60
IN.	.72	.74	.78	.65	.66	.77	2.74	5.94	1.90	1.18	.65	.67

SNAKE RIVER MAIN STEM
13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)												
MEAN	364	370	349	322	334	350	797	2601	2694	727	392	331
MAX	679	607	527	383	429	506	1509	3693	5726	1325	660	523
(WY)	1984	1984	1984	1985	1986	1986	1990	1989	1986	1986	1986	1986
MIN	185	213	247	275	267	279	448	1818	827	331	202	181
(WY)	1989	1988	1988	1992	1989	1988	1984	1987	1992	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1984 - 1992		
ANNUAL TOTAL	318773			227338			--		
ANNUAL MEAN	873			621			803		
HIGHEST ANNUAL MEAN	--			--			1151		
LOWEST ANNUAL MEAN	--			--			526		
HIGHEST DAILY MEAN	7090	Jun	3	4390	May	7	9350	May	31 1984
LOWEST DAILY MEAN	270	Feb	25	230	Aug	30	170	Sep	8 1988
ANNUAL SEVEN-DAY MINIMUM	276	Feb	23	238	Aug	25	175	Sep	4 1988
INSTANTANEOUS PEAK FLOW	--			5680	May	7	11000a	May	31 1984
INSTANTANEOUS PEAK STAGE	--			7.31	May	7	9.41	Jun	6 1986
INSTANTANEOUS LOW FLOW	--			--			165b	Oct	20 1987
ANNUAL RUNOFF (AC-FT)	632300			450900			581900		
ANNUAL RUNOFF (CFSM)	1.80			1.28			1.65		
ANNUAL RUNOFF (INCHES)	24.40			17.40			22.46		
10 PERCENT EXCEEDS	2270			1300			2100		
50 PERCENT EXCEEDS	351			327			380		
90 PERCENT EXCEEDS	288			266			262		

a Gage height, 8.39 ft.

b Minimum discharge observed, gage height, 3.11 ft.

e Estimated.

SNAKE RIVER MAIN STEM

13010065 SNAKE RIVER ABOVE JACKSON LAKE, AT FLAGG RANCH, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
NOV 12...	1500	320	*290	8.2	--	4.5	10.3	101	K2	K2	61
JAN 21...	1500	262	318	8.2	-2.0	0.0	12.6	110	K13	K1	61
MAR 09...	1330	318	289	8.1	14.0	6.0	13.1	135	K7	<1	59
MAY 19...	1145	2480	117	7.8	29.0	13.0	8.9	108	K3	K6	39
JUL 14...	1220	566	232	8.3	22.0	16.0	7.9	121	K15	K4	59
SEP 15...	1600	275	324	8.5	19.0	13.5	8.4	103	K2	--	71

* - Lab value.

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

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WH FET FIELD MG/L AS HCO3	CAR- BONATE WATER WH FET FIELD MG/L AS CO3	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 12...	19	3.3	33	52	4.8	130	0	105	37	--
JAN 21...	19	3.4	36	53	5.3	95	0	78	37	23
MAR 09...	18	3.3	34	53	5.1	89	0	73	32	21
MAY 19...	12	2.1	8.5	30	3.1	60	0	49	8.5	5.9
JUL 14...	18	3.3	22	43	3.4	83	0	68	23	12
SEP 15...	22	3.8	35	50	5.1	93	3	82	37	21

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 12...	2.2	34	191	--	--	--	<0.01	<0.05	0.02	0.03
JAN 21...	2.6	39	191	212	0.26	135	<0.01	0.08	0.02	0.02
MAR 09...	2.6	35	189	195	0.26	162	<0.01	<0.05	0.02	0.02
MAY 19...	0.60	14	--	86	0.12	576	<0.01	0.33	0.05	0.04
JUL 14...	1.7	26	154	150	0.21	235	<0.01	<0.05	0.03	0.02
SEP 15...	2.1	33	205	208	0.28	--	<0.01	<0.05	0.01	0.02

SNAKE RIVER MAIN STEM

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13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 12...	<0.2	0.01	0.01	<0.01	10	36	20	<1	1	<3
JAN 21...	<0.2	0.07	<0.01	<0.01	--	--	--	--	--	--
MAR 09...	<0.2	<0.01	<0.01	<0.01	<10	42	19	<1	<1	<3
MAY 19...	0.3	0.05	0.03	0.02	30	10	15	<1	<1	<3
JUL 14...	0.2	<0.01	0.01	<0.01	--	--	--	--	--	--
SEP 15...	<0.2	<0.01	<0.01	0.01	20	55	23	<1	<1	<3

DATE	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)	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)
NOV 12...	<1	18	<1	160	4	<0.1	<10	<1	<1	<1
JAN 21...	--	--	--	--	--	--	--	--	--	--
MAR 09...	3	19	<1	170	5	<0.1	<10	<1	<1	<1
MAY 19...	11	33	2	40	4	<0.1	<10	<1	<1	<1
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 15...	<1	12	<1	180	6	<0.1	<10	<1	<1	<1

DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)
NOV 12...	140	<6	<10	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--	--
MAR 09...	140	<6	<10	--	--	--	--	--	--	--
MAY 19...	69	<6	20	--	--	--	--	--	--	0.09
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 15...	180	<6	<10	1.7	0.6	5.5	<0.6	4.1	<0.6	0.22

DATE	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SED. BEDLOAD SIEVE DIAM.	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM	% FINER THAN 32.0 MM	% FINER THAN 64.0 MM			
NOV 12...	--	--	--	--	--	--	--	--	--	2	1.7	76
MAR 09...	--	--	--	--	--	--	--	--	--	3	2.6	--
APR 30-30	7	49	76	83	84	85	87	94	100	--	--	--
APR 30-30	10	71	96	100	100	100	100	100	100	237	2090	43
MAY 19-19	10	46	58	63	67	72	80	100	100	56	375	67
MAY 19-19	2	6	16	43	63	76	93	100	100	--	--	--
JUN 02-02	9	48	78	92	97	100	100	100	100	7	19	77
JUN 02-02	4	24	56	79	90	96	100	100	100	--	--	--
JUN 16-16	2	44	64	86	99	100	100	100	100	5	12	42
JUN 16-16	7	74	90	95	98	100	100	100	100	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	10	15	90
SEP 15...	--	--	--	--	--	--	--	--	--	2	1.5	84

SNAKE RIVER MAIN STEM
13010500 JACKSON LAKE NEAR MORAN, WY

451

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¼ SW¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, at Jackson Lake Dam on Snake River, 4.3 mi west of Moran and at mile 988.9. DRAINAGE AREA.--807 mi².

PERIOD OF RECORD.--July 1908 to September 1979, (1908-10 fragmentary), October 1984 to current year. Prior to October 1968, published as "at Moran".

REVISED RECORDS.--WDR Idaho 1974: Drainage area.

GAGE.--Shaft encoder. Datum of gage is 6,700.00 ft, U.S. Bureau of Reclamation datum. National Geodetic Vertical Datum of 1929 is 2.08 ft lower. July 1908 to June 1, 1941, nonrecording gage at site 300 ft upstream at same datum. June 1, 1941, to Feb. 17, 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft. This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-ft. The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft. In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft between elevations 6,730 ft (top of baffles to sluices) and 6,769 ft (top of spillway gates). The dam was rebuilt during 1987-89, with the capacity remaining the same. Reservoir is used to store water for irrigation in Snake River valley, Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 859,530 acre-ft, July 11, 1965, elevation, 6,769.49 ft; no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 850,000 acre-ft, May 20, elevation, 6,769.12 ft; minimum, 131,200 acre-ft, Sept. 30, elevation, 6,737.33 ft.

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

6,735	88,100
6,740	182,500
6,750	392,900
6,760	624,400
6,770	862,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639800	631300	644800	647200	640700	638500	637300	719800	825300	684800	461700	242200
2	638300	631300	645500	646700	640700	638500	637600	726300	821300	678000	454000	238100
3	637800	631600	645800	646700	640200	638500	638500	732700	818200	671900	445100	233900
4	636900	631800	646000	645800	640200	638300	639000	741100	814400	665400	437100	230800
5	636400	632500	646200	646200	640000	638300	639500	749500	809900	659100	428100	225700
6	635900	632800	647000	646000	639800	638500	640200	759200	806400	652300	420000	223200
7	635400	633000	647700	645500	639800	638300	640500	769400	805100	649100	411200	219000
8	635200	633200	647900	645300	639500	638300	642400	780500	797800	642600	402700	215000
9	634500	634500	647900	645000	638500	638100	643600	789500	793300	634500	394000	210800
10	634200	634700	647900	644600	638300	637800	646000	796000	789000	627000	385400	206800
11	633700	635200	648200	644300	637300	637600	646500	801100	784000	621500	377000	202500
12	633500	635900	649400	644300	638300	637600	648200	806100	779700	615300	369000	198800
13	632500	636400	649100	644100	638500	637300	649900	811200	775400	608600	360200	194200
14	631800	636600	649100	643800	638800	637100	652300	817000	770200	601400	351700	189800
15	631600	636600	648900	643600	638500	637100	654900	823600	767000	593800	345400	185300
16	631300	636600	648600	643100	638500	637100	657800	829700	764000	586200	339300	181900
17	631300	637100	648900	642900	638500	637600	665600	835800	759700	578900	331900	176900
18	630800	637800	649100	642900	638500	637600	668500	841900	754800	571600	328200	173000
19	629900	638300	648900	642900	638800	637600	670900	847500	749800	564700	319200	169300
20	629900	638800	648900	642600	639500	637600	673100	850000	745000	557400	311200	164800
21	629200	639300	648600	642600	639500	637600	675300	849500	739900	550800	305900	161300
22	629200	639500	648400	642200	639500	637300	678200	848000	734400	543400	298200	157900
23	629200	639500	648400	642200	639800	637100	680900	847200	728700	535600	291000	153400
24	629200	639800	647700	642600	639800	637100	682900	845700	723500	527500	283800	150600
25	629200	641700	647700	642400	639500	637100	684800	844400	718600	519300	276500	147900
26	630400	642900	647400	642200	639000	637100	687500	842900	713200	511000	269600	143500
27	631100	643600	647400	641900	639300	636900	691600	841900	707600	503300	263700	140600
28	631100	644600	647400	641900	639000	637100	697700	839600	702200	496200	259000	137400
29	631100	644600	647400	641200	638800	637100	705100	836800	696300	486700	254600	134200
30	631300	644800	647200	640700	---	637100	713500	831700	690200	478900	250500	131200
31	631300	---	647200	641000	---	637100	---	829900	---	470400	246100	---
MAX	639800	644800	649400	647200	640700	638500	713500	850000	825300	684800	461700	242200
MIN	629200	631300	644800	640700	637300	636900	637300	719800	690200	470400	246100	131200
(#)	6760.29	6760.85	6760.96	6760.72	6760.60	6760.53	6763.67	6768.33	6762.72	6753.41	6743.16	737.33
(*)	-9900	+13500	+2400	-6200	-2200	-1700	+76400	+116400	-139700	-219800	-224300	-114900

CAL YR 1991 MAX 846200 MIN 542000 (*) +103800
WTR YR 1992 MAX 850000 MIN 131200 (*) -510000

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

SNAKE RIVER MAIN STEM
13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼ SE¼ sec.18, T.45N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 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 National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to June 13, 1917, nonrecording gage, and June 14, 1917 to May 20, 1940, water-stage recorder, at site 1.5 mi downstream at different datums.

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

COOPERATION.--Gage readings for current reporting purposes provided by U.S. Bureau of Reclamation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considerably higher than that of June 12, 1918.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	269	251	439	443	425	431	436	3980	4530	5020	2510
2	1030	269	251	439	443	425	432	439	4000	4520	5020	2500
3	624	269	251	439	443	425	433	439	3970	4520	5020	2500
4	520	269	252	439	441	425	434	440	3970	4510	5020	2510
5	520	266	254	439	439	425	432	444	3980	4510	5010	2500
6	520	254	254	441	439	425	431	448	3990	4520	5010	2490
7	520	243	251	444	439	426	430	448	3980	4520	5010	2490
8	520	242	251	443	439	427	430	448	3980	4830	5000	2480
9	520	255	272	443	436	428	436	449	3970	4820	5020	2480
10	520	257	353	443	434	425	443	453	3980	4800	5000	2490
11	520	254	355	443	432	425	439	453	3970	4790	5000	2490
12	517	254	355	443	430	425	438	452	3960	4800	5020	2490
13	521	255	391	443	430	424	435	454	3960	4810	5000	2480
14	524	255	434	443	430	420	434	457	3960	4810	4820	2440
15	471	254	437	443	430	422	434	458	3980	4820	4020	2410
16	374	253	439	443	428	425	434	461	3990	4820	4000	2380
17	361	251	439	443	425	425	438	461	4140	4820	4000	2350
18	368	251	439	443	425	425	441	543	4450	4820	3980	2320
19	372	251	439	443	425	425	439	1170	4530	4810	4000	2290
20	372	251	439	443	425	425	439	2860	4510	4830	4000	2250
21	372	249	439	443	425	425	439	4200	4510	4830	4030	2210
22	372	248	439	443	425	425	439	4210	4500	4970	4040	2180
23	372	248	439	445	425	425	437	4070	4500	5010	4000	2150
24	372	248	439	448	425	425	437	4010	4510	5020	4000	2120
25	353	248	439	448	425	425	437	4000	4520	5020	4010	2100
26	278	248	439	448	425	425	439	3970	4530	5020	3980	2060
27	269	248	439	448	425	426	439	3960	4530	5020	3310	2020
28	269	248	439	445	425	430	439	3970	4520	5020	2810	2010
29	269	250	439	443	425	430	439	3990	4530	5020	2510	1990
30	269	251	440	443	---	430	439	3980	4530	5010	2510	1880
31	269	---	441	443	---	431	---	3970	---	5010	2500	---
TOTAL	14508	7608	11639	13736	12501	13194	13087	56543	126430	146880	131670	69570
MEAN	468	254	375	443	431	426	436	1824	4214	4738	4247	2319
MAX	1350	269	441	448	443	431	443	4210	4530	5020	5020	2510
MIN	269	242	251	439	425	420	430	436	3960	2240	2500	1880
AC-FT	28780	15090	23090	27250	24800	26170	25960	112200	250800	291300	261200	138000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1904	337	1605	1913	5.06	1948
1905	291	3009	1957	3.00	1949
1906	330	4280	1957	2.00	1945
1907	297	1362	1912	2.00	1945
1908	359	2489	1961	2.00	1945
1909	451	3053	1951	2.00	1945
1910	713	3828	1974	2.53	1945
1911	1430	5658	1971	6.48	1945
1912	3435	8594	1918	51.7	1932
1913	4045	8182	1921	983	1989
1914	3541	7370	1918	987	1919
1915	1950	5265	1984	146	1910

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1904 - 1992
ANNUAL TOTAL	428121	617366	--
ANNUAL MEAN	1173	1687	1438
HIGHEST ANNUAL MEAN	--	--	2154
LOWEST ANNUAL MEAN	--	--	687
HIGHEST DAILY MEAN	7030	5020	14700
LOWEST DAILY MEAN	242	242	.00
ANNUAL SEVEN-DAY MINIMUM	248	248	.00
INSTANTANEOUS PEAK FLOW	--	5110	15100a
INSTANTANEOUS PEAK STAGE	--	7.29	10.74
INSTANTANEOUS LOW FLOW	--	--	.30b
ANNUAL RUNOFF (AC-FT)	849200	1225000	1042000
10 PERCENT EXCEEDS	2210	4800	4360
50 PERCENT EXCEEDS	439	443	486
90 PERCENT EXCEEDS	269	269	17

a Gage height 10.41 ft, site and datum then in use.

b Occurred Oct. 26-28, 1969; gage height, 0.89 ft.

PACIFIC CREEK BASIN
13011500 PACIFIC CREEK AT MORAN, WY

453

LOCATION.--Lat 43°51'04", long 110°30'59", in SW¼ NW¼ sec.23, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929, 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 good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No diversion or regulation. Peak discharges greater than a base discharge of 1300 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	e43	e30	e39	e39	e51	91	901	319	222	70	59
2	65	e28	e38	e38	e46	e54	105	869	302	197	70	56
3	64	e30	e35	e37	e50	e55	129	952	292	185	69	51
4	64	e32	e42	e39	e44	e57	165	1060	272	174	68	63
5	62	35	e36	e40	e41	59	168	e1220	255	163	63	79
6	60	39	e46	e41	e44	61	146	e1350	243	150	60	83
7	60	43	e42	e43	e42	60	134	e1450	222	141	59	80
8	59	45	e37	e44	e46	58	138	e1590	208	136	58	70
9	59	56	e39	e42	e48	e56	148	1240	194	131	56	63
10	59	59	e35	e43	e52	e55	200	908	185	130	53	57
11	58	54	e40	e40	e50	e58	177	798	183	146	52	54
12	58	53	e43	e38	e48	60	176	739	187	188	51	53
13	57	61	e44	e36	e46	62	249	718	175	172	50	55
14	57	62	e39	e35	e48	65	305	698	161	148	47	54
15	57	58	e36	e28	e51	71	319	775	218	131	46	51
16	56	58	e34	e33	e47	74	319	760	309	121	58	49
17	56	62	e35	e30	e39	75	319	722	337	114	62	49
18	56	59	e38	e27	e43	73	319	747	333	109	67	47
19	55	59	e40	e24	e49	65	319	778	345	109	61	47
20	54	e55	e36	e25	e54	64	314	802	304	141	58	46
21	53	e50	e34	e23	e59	66	308	767	267	147	57	45
22	53	e46	e37	e35	e56	57	312	646	234	146	57	45
23	58	e42	e39	e43	e54	58	363	605	214	125	58	44
24	58	e47	e41	e47	e45	64	319	566	197	114	56	47
25	58	e50	e39	e44	e49	63	324	516	200	102	54	59
26	60	e54	e38	e45	e47	62	360	498	235	98	54	66
27	65	e53	e37	e47	e43	67	555	519	235	91	52	64
28	61	e47	e38	e48	e48	70	794	474	243	88	50	61
29	54	e36	e40	e45	e50	73	917	406	212	87	48	57
30	e47	e25	e42	e40	---	78	1090	385	220	81	46	55
31	40	---	e43	e34	---	86	---	350	---	74	47	---
TOTAL	1791	1441	1193	1173	1378	1977	9582	24809	7301	4161	1757	1709
MEAN	57.8	48.0	38.5	37.8	47.5	63.8	319	800	243	134	56.7	57.0
MAX	68	62	46	48	59	86	1090	1590	345	222	70	83
MIN	40	25	30	23	39	51	91	350	161	74	46	44
AC-FT	3550	2860	2370	2330	2730	3920	19010	49210	14480	8250	3490	3390
CFSM	.34	.28	.23	.22	.28	.38	1.89	4.74	1.44	.79	.34	.34
IN.	.39	.32	.26	.26	.30	.44	2.11	5.46	1.61	.92	.39	.38

PACIFIC CREEK BASIN
13011500 PACIFIC CREEK AT MORAN, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1992, BY WATER YEAR (WY)

MEAN	65.8	55.7	49.5	44.7	44.8	51.3	152	925	1230	343	98.9	71.5
MAX	142	105	93.5	70.7	65.5	94.5	418	1606	2383	1527	191	127
(WY)	1973	1973	1984	1951	1962	1972	1946	1954	1974	1982	1982	1972
MIN	34.6	32.6	29.7	25.3	26.6	34.6	56.2	345	243	90.9	43.0	40.7
(WY)	1988	1953	1955	1979	1955	1963	1975	1975	1992	1961	1988	1981

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1917 - 1992

ANNUAL TOTAL	86580					58272				--		
ANNUAL MEAN	237					159				261		
HIGHEST ANNUAL MEAN	--					--				03		1971
LOWEST ANNUAL MEAN	--					--				148		1987
HIGHEST DAILY MEAN	1990	Jun 5				1590	May 8			3870	May 30	1983
LOWEST DAILY MEAN	25	Nov 30				23	Jan 21			19	Dec 31	1978
ANNUAL SEVEN-DAY MINIMUM	35	Nov 29				27	Jan 15			23	Dec 29	1978
INSTANTANEOUS PEAK FLOW	--					1800	May 8			5350	May 29	1983
INSTANTANEOUS PEAK STAGE	--					5.00a	May 8			6.33	May 29	1983
ANNUAL RUNOFF (AC-FT)	171700					115600				189100		
ANNUAL RUNOFF (CFSM)	1.40					.94				1.54		
ANNUAL RUNOFF (INCHES)	19.06					12.83				20.99		
10 PERCENT EXCEEDS	792					353				905		
50 PERCENT EXCEEDS	62					59				66		
90 PERCENT EXCEEDS	40					39				39		

a Extrapolated from gage height record.

e Estimated.

13011500 PACIFIC CREEK AT MORAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1987 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	NUMBER OF SAM- PLING POINTS (COUNT)
OCT									
22...	1700	53	233	9.0	6.5	--	--	--	--
DEC									
17...	1435	35	237	-2.0	0.0	--	--	--	--
FEB									
11...	1250	50	223	3.0	0.0	--	--	--	--
APR									
14...	1245	306	194	19.0	6.5	--	--	--	--
MAY									
01...	1045	913	147	10.0	5.0	1045	1115	32	18
01...	1125	913	--	10.0	5.0	1125	1150	93	18
20...	1050	787	--	--	--	1050	1205	33	19
20...	1220	787	124	20.0	10.5	1220	--	16	19
JUN									
03...	0845	314	148	8.5	8.0	0845	0913	5.4	22
03...	0925	314	--	8.5	8.0	0925	0950	24	22
03...	1000	314	--	8.5	8.0	1000	1030	27	22
17...	0938	332	172	10.0	6.5	0938	1001	22	19
17...	1008	332	--	10.0	6.5	1008	1035	18	19
AUG									
25...	1425	58	238	20.0	14.5	--	--	--	--

DATE	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SAMPLER TYPE (CODE)	SAM- PLING METHOD, CODES	BAG MESH SIZE BEDLOAD SAMPLER (MM)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM
MAY									
01...	71.0	1100	1000	0.250	0.02	0.04	0.5	2	3
01...	71.0	1100	1000	0.250	0.02	0.03	0.4	2	4
20...	80.0	1100	1000	0.250	0.01	0.03	0.4	2	4
20...	80.0	1100	1000	0.250	0.02	0.04	0.7	4	10
JUN									
03...	46.0	1120	1000	0.250	0.05	0.1	0.5	7	21
03...	46.0	1120	1000	0.250	0.01	0.02	0.1	3	10
03...	46.0	1120	1000	0.250	0.02	0.03	0.3	5	17
17...	104	1120	1000	0.250	0.05	0.08	0.5	6	15
17...	104	1120	1000	0.250	0.06	0.1	0.6	6	14

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY									
01...	4	4	6	25	66	100	74	182	73
01...	9	14	25	43	82	100	--	--	--
20...	13	31	51	77	100	100	--	--	--
20...	18	27	43	72	100	100	22	47	61
JUN									
03...	41	57	70	88	100	100	5	4.2	78
03...	23	43	63	84	94	100	--	--	--
03...	36	55	71	83	95	100	--	--	--
17...	32	49	64	77	100	100	18	16	--
17...	29	46	65	82	100	100	--	--	--

BUFFALO FORK BASIN
13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼ NE¼ sec.29, T.45 N., R.113 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, on right bank below bridge on U.S. Highway 26/287, about 2 mi upstream from Lava Creek, 3.5 mi east of Moran, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--323 mi².

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 3 mi downstream.

REVISED RECORDS.--WDR Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft above National Geodetic Vertical Datum of 1929 (Federal Highway Administration bench mark).

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Peak discharges greater than a base discharge of 6,540 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	e165	e115	e125	e120	e140	170	e650	1090	813	295	203
2	217	e125	e140	e115	e125	e150	180	628	1170	722	289	193
3	211	e160	e145	e110	e150	e145	207	672	1330	677	285	184
4	208	e185	e140	e115	e145	e150	255	745	1240	660	280	191
5	203	e200	e165	e125	e140	e155	244	813	1160	635	270	222
6	204	e210	e155	e135	e137	e160	201	972	973	614	260	219
7	203	e195	e150	e140	e133	e150	174	1080	903	579	251	225
8	203	e190	e140	e125	e130	e140	188	e1230	949	547	249	209
9	201	e195	e150	e120	e140	e130	182	e1100	951	518	243	205
10	200	e185	e135	e115	e145	e132	208	983	986	497	238	199
11	198	e180	e130	e110	e140	e137	209	883	1080	503	235	198
12	198	e190	e140	e115	e140	e135	201	837	1120	579	231	196
13	194	e200	e145	e120	e135	e140	279	832	1040	570	224	197
14	191	e195	e125	e110	e140	e145	298	842	963	502	221	193
15	190	e190	e102	e105	e135	e150	313	978	953	477	214	189
16	190	e180	e105	e110	e130	154	330	1010	970	453	226	183
17	195	e190	e110	e105	e125	153	386	1030	897	429	238	184
18	202	e180	e105	e98	e135	149	391	1140	907	414	222	184
19	190	e175	e135	e92	e145	140	335	e1300	1080	410	214	182
20	188	e170	e110	e88	e155	138	306	e1500	1000	441	210	182
21	187	e150	e100	e93	e150	145	316	1700	1010	520	210	182
22	188	e140	e115	e110	e145	e125	324	1550	1050	498	211	182
23	199	e130	e120	e125	e140	e130	318	1430	1140	443	203	184
24	191	e150	e120	e135	e130	e135	294	1600	1200	414	193	186
25	187	e175	e115	e130	e140	e130	293	1540	1280	385	187	207
26	190	e185	e112	e125	e130	e135	315	1660	1160	369	185	210
27	199	e190	e110	e120	e110	146	e380	1710	1020	351	182	207
28	190	e180	e108	e135	e120	149	e460	1480	999	337	181	202
29	e175	e165	e120	e130	e130	153	558	1320	938	331	177	197
30	e165	e130	e115	e115	---	160	672	1200	924	313	177	192
31	e160	---	e120	e110	---	170	---	1120	---	304	179	---
TOTAL	6039	5255	3897	3606	3940	4471	8987	35535	31483	15305	6980	5887
MEAN	195	175	126	116	136	144	300	1146	1049	494	225	196
MAX	221	210	165	140	155	170	672	1710	1330	813	295	225
MIN	160	125	100	88	110	125	170	628	897	304	177	182
AC-FT	11980	10420	7730	7150	7810	8870	17830	70480	62450	30360	13840	11680
CFSM	.60	.54	.39	.36	.42	.45	.93	3.55	3.25	1.53	.70	.61
IN.	.70	.61	.45	.42	.45	.51	1.04	4.09	3.63	1.76	.80	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	216	171	140	121	118	127	224	991	2263	1343	417	260															
MAX	304	229	180	143	191	175	367	1768	4113	3056	946	428															
(WY)	1973	1984	1985	1966	1984	1984	1987	1969	1974	1975	1982	1982															
MIN	128	122	99.5	87.3	93.1	101	124	397	1049	230	163	141															
(WY)	1988	1988	1980	1989	1969	1973	1967	1975	1992	1977	1977	1977															

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1966 - 1992
ANNUAL TOTAL	189317	131385	--
ANNUAL MEAN	519	359	534
HIGHEST ANNUAL MEAN	--	--	751
LOWEST ANNUAL MEAN	--	--	286
HIGHEST DAILY MEAN	4580	1710	5880
LOWEST DAILY MEAN	100	88	73
ANNUAL SEVEN-DAY MINIMUM	109	99	81
INSTANTANEOUS PEAK FLOW	--	1850	6540
INSTANTANEOUS PEAK STAGE	--	3.97	8.61
ANNUAL RUNOFF (AC-FT)	375500	260600	386600
ANNUAL RUNOFF (CFSM)	1.61	1.11	1.65
ANNUAL RUNOFF (INCHES)	21.80	15.13	22.45
10 PERCENT EXCEEDS	1630	999	1610
50 PERCENT EXCEEDS	190	191	195
90 PERCENT EXCEEDS	120	120	112

e Estimated

GROS VENTRE RIVER BASIN
13015000 GROS VENTRE RIVER AT ZENITH, WY

457

LOCATION.--Lat 43°33'00", long 110°47'00", in SW¼ NW¼ SW¼ 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, Wyoming.

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions of about 300 ft³/s for irrigation upstream from station. No regulation.

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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	57	---	---	---	---	26	267	248	71	11	.00
2	45	e32	---	---	---	---	19	275	233	53	10	.00
3	48	e36	---	---	---	---	18	214	220	33	10	.00
4	49	e40	---	---	---	---	22	214	e190	23	9.8	.00
5	52	e47	---	---	---	---	26	259	e150	22	9.6	.00
6	59	e56	---	---	---	---	27	369	e130	22	8.6	.00
7	61	e66	---	---	---	---	25	546	e105	21	8.3	.00
8	64	e73	---	---	---	---	19	594	e86	21	8.0	.00
9	57	e74	---	---	---	---	25	562	e70	20	7.7	.00
10	54	e75	---	---	---	---	30	444	e72	19	7.0	.00
11	53	76	---	---	---	---	32	287	e75	19	6.7	.00
12	48	72	---	---	---	---	31	197	e79	18	6.3	.00
13	47	70	---	---	---	---	31	95	e68	17	5.7	.00
14	47	76	---	---	---	---	33	72	e61	17	5.1	.06
15	48	74	---	---	---	---	41	66	e55	16	4.6	4.5
16	50	67	---	---	---	---	57	74	e54	15	4.6	4.9
17	55	59	---	---	---	---	78	89	51	15	4.4	4.8
18	60	59	---	---	---	---	98	100	51	15	4.0	4.7
19	67	63	---	---	---	---	91	130	36	14	3.6	5.0
20	67	65	---	---	---	---	62	201	31	13	2.8	5.0
21	65	65	---	---	---	---	42	285	37	13	2.6	5.3
22	62	64	---	---	---	---	38	583	43	12	2.1	6.4
23	64	e54	---	---	---	---	41	625	45	12	1.8	4.7
24	68	50	---	---	---	---	39	518	45	12	1.6	.05
25	70	53	---	---	---	---	33	476	46	12	1.2	1.1
26	74	65	---	---	---	---	32	483	48	12	1.4	2.0
27	75	68	---	---	---	---	40	569	64	12	1.2	3.8
28	82	68	---	---	---	---	65	555	104	12	1.2	3.2
29	74	65	---	---	---	---	73	372	81	12	.62	2.8
30	e62	62	---	---	---	---	160	287	71	11	.45	1.9
31	56	---	---	---	---	---	---	264	---	11	.17	---
TOTAL	1829	1851	---	---	---	---	1354	10072	2649	595	152.14	60.21
MEAN	59.0	61.7	---	---	---	---	45.1	325	88.3	19.2	4.91	2.01
MAX	82	76	---	---	---	---	160	625	248	71	11	6.4
MIN	45	32	---	---	---	---	18	66	31	11	.17	.00
AC-FT	3630	3670	---	---	---	---	2690	19980	5250	1180	302	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1992, BY WATER YEAR (WY)

	MEAN	64.9	64.4	29.5	---	---	---	150	624	855	178	123	69.9
MAX	89.4	81.3	29.5	---	---	---	---	219	920	1554	404	406	209
(WY)	1990	1990	1988	---	---	---	---	1990	1989	1991	1989	1917	1917
MIN	50.3	49.2	29.5	---	---	---	---	45.1	325	88.3	13.4	4.42	.70
(WY)	1988	1988	1988	---	---	---	---	1992	1992	1992	1988	1988	1988

SUMMARY STATISTICS

	a FOR 1992 WATER YEAR	WATER YEARS 1917 - 1992
HIGHEST DAILY MEAN	---	2680 Jun 13 1991
LOWEST DAILY MEAN	b .00 Sep 1	c .00 Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 1	.00 Sep 9 1988
INSTANTANEOUS PEAK FLOW	d 665 May 22	3400 Jun 7 1991
INSTANTANEOUS PEAK STAGE	18.16 May 22	20.69 Jun 7 1991
10 PERCENT EXCEEDS	---	846
50 PERCENT EXCEEDS	---	82
90 PERCENT EXCEEDS	---	8.2

a Summary of incomplete water year; no winter records.

b No flow Sept. 1-13.

c No flow Sept. 9-17, 1988, Sept. 1-13, 1992.

d Also occurred May 23.

e Estimated

FLAT CREEK BASIN
13018000 FLAT CREEK NEAR JACKSON, WY

LOCATION.--Lat 43°33'24", long 110°37'15", in SW¼ NW¼ SW¼ sec.35, T.42 N., R.115 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.1 mi upstream from forest boundary and 9 mi northeast of Jackson.

DRAINAGE AREA.--40.1 mi².

PERIOD OF RECORD.--June 1933 to November 1941, April 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,770 ft above National Geodetic Vertical Datum of 1929, from topographic map. June 1933 to November 1941, nonrecording gages at sites 0.7 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No diversion upstream 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. 09 . . . 20.6
Mar. 26 . . . 9.04

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8.8	10	88	46	25	15
2	---	---	---	---	---	---	8.7	9.8	82	45	25	15
3	---	---	---	---	---	---	8.6	10	77	44	24	15
4	---	---	---	---	---	---	8.8	11	72	45	23	15
5	---	---	---	---	---	---	8.8	12	69	44	23	15
6	---	---	---	---	---	---	8.8	13	67	44	22	15
7	---	---	---	---	---	---	8.8	14	64	44	21	14
8	---	---	---	---	---	---	8.9	17	62	41	21	14
9	---	---	---	---	---	---	9.5	19	58	42	21	14
10	---	---	---	---	---	---	10	23	56	41	21	14
11	---	---	---	---	---	---	9.6	28	54	40	21	14
12	---	---	---	---	---	---	9.3	41	52	40	20	14
13	---	---	---	---	---	---	9.2	58	51	39	20	14
14	---	---	---	---	---	---	9.2	62	50	38	20	13
15	---	---	---	---	---	---	9.4	62	51	37	19	13
16	---	---	---	---	---	---	9.6	61	50	34	18	13
17	---	---	---	---	---	---	9.7	60	47	34	17	13
18	---	---	---	---	---	---	10	65	46	34	16	13
19	---	---	---	---	---	---	10	67	44	33	17	13
20	---	---	---	---	---	---	9.9	69	44	32	17	12
21	---	---	---	---	---	---	9.5	78	44	32	17	12
22	---	---	---	---	---	---	9.3	91	45	31	17	12
23	---	---	---	---	---	---	9.2	103	45	29	17	12
24	---	---	---	---	---	---	9.2	107	45	29	17	12
25	---	---	---	---	---	---	9.9	112	47	29	17	12
26	---	---	---	---	---	---	9.9	116	48	29	17	12
27	---	---	---	---	---	---	9.6	113	47	28	16	12
28	---	---	---	---	---	---	9.6	112	46	27	16	12
29	---	---	---	---	---	---	9.7	108	45	26	16	11
30	---	---	---	---	---	---	9.6	103	46	26	15	11
31	---	---	---	---	---	---	---	94	---	26	15	---
TOTAL	---	---	---	---	---	---	281.1	1848.8	1642	1109	591	396
MEAN	---	---	---	---	---	---	9.37	59.6	54.7	35.8	19.1	13.2
MAX	---	---	---	---	---	---	10	116	88	46	25	15
MIN	---	---	---	---	---	---	8.6	9.8	44	26	15	11
AC-FT	---	---	---	---	---	---	558	3670	3260	2200	1170	785

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1992, BY WATER YEAR (WY)*

	MEAN	22.4	20.1	15.0	---	---	---	14.1	55.1	145	80.1	36.9	25.3
MAX	30.5	26.7	15.0	---	---	---	---	19.5	96.7	222	135	56.6	37.3
(WY)	1942	1942	1940	---	---	---	---	1939	1936	1989	1938	1938	1938
MIN	15.2	13.2	15.0	---	---	---	---	8.32	22.6	54.5	27.1	18.4	13.2
(WY)	1935	1935	1940	---	---	---	---	1991	1990	1934	1934	1934	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

116 May 26
8.6 Apr 3
--
116 May 25
3.86 May 25
--
--
--
--

WATER YEARS 1933 - 1992*

320 Jun 12 1989
6.7 Apr 1 1991
7.4 Apr 1 1989
438a Jun 15 1935
4.86b Jun 12 1989
132
30
14

* During period of operation.

a Gage height, 3.48 ft, site and datum then in use.

b From floodmarks.

FLAT CREEK BASIN
13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

459

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼ SW¼ SE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 2, Nov. 16, 17, 22-25, Nov. 29 to Dec. 3, Dec. 10-17, Feb. 24, 26-29, Mar. 9-12, 22, 23, and Apr. 13 to May 12. Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 52 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	Unknown	ice jam	*3.55	No peak greater than base discharge.			
May 22	0100	*19	3.15				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.8	3.3	3.2	2.3	2.8	4.5	9.4	13	8.4	5.1	3.9
2	5.8	3.2	3.6	3.2	2.3	2.9	5.0	9.4	13	8.2	5.1	3.7
3	5.8	2.6	4.1	3.2	2.3	2.8	5.7	9.6	13	8.3	5.1	3.7
4	5.7	3.8	4.1	3.3	2.3	2.8	6.1	9.8	13	8.0	5.1	4.1
5	5.6	7.2	4.1	3.3	2.3	3.0	6.1	10	12	7.8	5.0	4.1
6	5.6	5.7	4.1	3.3	2.3	3.1	5.7	11	12	7.7	4.5	4.3
7	5.6	5.2	4.1	3.3	2.3	3.1	5.9	12	12	7.6	4.4	3.9
8	5.6	5.1	4.1	3.2	2.3	3.1	5.5	13	12	7.5	4.4	3.9
9	5.5	5.6	3.8	2.9	2.3	3.0	6.0	14	12	7.5	4.3	3.9
10	5.4	5.3	3.5	2.9	2.3	3.0	7.1	14	12	7.3	4.3	3.8
11	5.4	5.1	3.2	2.9	2.2	3.0	6.5	15	11	7.3	4.3	3.8
12	5.4	5.0	2.9	3.0	2.1	3.2	7.5	15	11	7.9	4.1	3.8
13	5.3	4.9	3.0	3.0	2.0	3.3	7.6	15	10	7.5	4.1	3.7
14	5.2	4.7	2.3	3.0	1.9	3.3	7.6	15	10	7.2	4.0	3.7
15	5.2	4.6	2.3	2.9	1.8	3.3	7.6	15	11	7.0	4.0	3.7
16	5.2	4.6	3.0	2.8	1.8	3.4	7.4	15	11	6.9	4.2	3.6
17	5.3	4.6	3.3	2.8	1.8	3.4	7.2	15	10	6.7	4.3	3.7
18	5.2	4.5	3.3	2.7	1.8	3.4	7.0	15	9.8	6.6	4.1	3.8
19	5.0	4.3	3.3	2.7	1.8	3.3	6.8	15	9.7	6.5	4.0	3.8
20	5.0	4.2	3.2	2.7	1.9	3.3	7.0	16	9.7	6.6	3.9	3.8
21	5.0	4.3	3.1	2.8	1.8	3.3	7.4	16	9.6	6.7	3.9	3.8
22	4.8	4.1	3.2	2.8	1.8	3.3	7.8	16	9.4	6.4	3.9	3.7
23	5.2	3.9	3.3	2.8	1.9	3.2	7.6	15	9.3	6.3	3.8	3.8
24	4.8	4.1	3.3	2.8	1.6	3.2	7.6	15	9.2	6.1	3.7	3.9
25	4.9	4.2	3.2	2.8	1.4	3.2	7.9	15	9.4	6.0	3.7	4.1
26	5.1	4.2	3.2	2.8	1.8	3.6	8.2	14	9.0	5.9	3.8	4.1
27	5.2	4.2	3.2	2.8	2.2	3.8	8.6	14	9.1	5.7	3.8	3.9
28	5.0	4.1	3.2	2.5	2.5	3.6	8.8	14	8.7	5.7	3.7	3.6
29	4.8	3.9	3.3	2.2	2.6	3.8	9.0	14	8.5	5.5	3.7	3.7
30	4.6	3.6	3.3	2.2	---	4.0	9.3	13	8.4	5.3	3.7	3.6
31	4.8	---	3.2	2.2	---	4.3	---	13	---	5.2	3.8	---
TOTAL	162.9	135.6	104.1	89.0	59.7	101.8	212.0	422.2	317.8	213.3	129.8	114.9
MEAN	5.25	4.52	3.36	2.87	2.06	3.28	7.07	13.6	10.6	6.88	4.19	3.83
MAX	5.9	7.2	4.1	3.3	2.6	4.3	9.3	16	13	8.4	5.1	4.3
MIN	4.6	2.6	2.3	2.2	1.4	2.8	4.5	9.4	8.4	5.2	3.7	3.6
AC-FT	323	269	206	177	118	202	421	837	630	423	257	228

FLAT CREEK BASIN
13018300 CACHE CREEK NEAR JACKSON, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)												
MEAN	6.84	5.67	4.90	4.32	3.98	4.03	6.50	25.1	49.2	24.1	12.0	8.26
MAX	9.43	7.29	6.65	5.91	6.09	7.25	14.2	47.1	103	42.0	18.5	12.3
(WY)	1972	1987	1984	1981	1984	1984	1987	1969	1971	1965	1971	1971
MIN	4.09	3.14	1.53	2.42	2.06	2.23	3.21	5.86	10.6	6.51	4.19	3.83
(WY)	1978	1978	1991	1978	1992	1991	1991	1977	1992	1977	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1962 - 1992		
ANNUAL TOTAL	3536.9			2063.1			--		
ANNUAL MEAN	9.69			5.64			12.9		
HIGHEST ANNUAL MEAN	--			--			20.2		
LOWEST ANNUAL MEAN	--			--			5.64		
HIGHEST DAILY MEAN	72	Jun 5		16	May 20-22		161	Jun 24	1971
LOWEST DAILY MEAN	1.8	Mar 2		1.4	Feb 25		1.1	Dec 23	1990
ANNUAL SEVEN-DAY MINIMUM	2.1	Mar 21		1.7	Feb 19		1.3	Dec 20	1990
INSTANTANEOUS PEAK FLOW	--			19a	May 22		225c	Jun 24	1971
INSTANTANEOUS PEAK STAGE	--			3.55b	Nov 30		3.97	Jun 7	1972
ANNUAL RUNOFF (AC-FT)	7020			4090			9360		
10 PERCENT EXCEEDS	25			11			32		
50 PERCENT EXCEEDS	4.8			4.3			6.5		
90 PERCENT EXCEEDS	2.2			2.7			3.6		

a Gage height, 3.15 ft.

b Backwater from ice.

c Gage height, 3.90 ft.

FLAT CREEK BASIN

461

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic benchmark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 13...	0900	5.1	314	8.5	2.5	586	1.5	10.7	102	K4	11
JAN 15...	1430	2.9	--	8.2	0.0	605	3.1	11.0	--	K1	10
MAR 18...	1430	4.6	345	8.4	1.0	596	1.0	11.4	103	<1	22
MAY 12...	1500	15	334	8.6	7.0	595	3.4	9.6	102	K1	K4
JUL 06...	1330	7.4	295	8.7	11.5	598	2.4	9.3	109	K4	43
SEP 14...	1530	3.7	299	8.5	7.5	595	15	9.8	105	K2	20

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 13...	170	46	14	2.3	0.1	0.70	5	195	168	176	4.9
JAN 15...	180	48	14	2.7	0.1	0.90	0	219	179	174	11
MAR 18...	190	50	15	3.0	0.1	0.70	1	208	172	182	13
MAY 12...	180	50	13	3.0	0.1	0.60	5	203	174	176	4.0
JUL 06...	160	43	13	2.0	0.1	0.60	4	188	161	163	3.9
SEP 14...	160	42	13	2.0	0.1	0.50	8	189	168	168	3.8

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 13...	2.4	0.1	4.7	155	176	0.21	2.13	<0.01	<0.01	0.08	0.08
JAN 15...	3.5	0.2	5.2	167	194	0.23	1.31	<0.01	<0.01	0.12	0.12
MAR 18...	0.10	<0.1	4.7	190	190	0.26	2.36	<0.01	<0.01	<0.05	<0.05
MAY 12...	0.10	<0.1	4.2	177	180	0.24	7.17	<0.01	<0.01	<0.05	<0.05
JUL 06...	3.2	0.1	4.1	159	167	0.22	3.18	<0.01	<0.01	<0.05	<0.05
SEP 14...	1.1	0.1	4.3	166	168	0.23	1.66	<0.01	<0.01	<0.05	<0.05

FLAT CREEK BASIN

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 13...	0.02	0.02	<0.2	0.01	<0.01	0.02	<0.01	4	0.05	59
JAN 15...	0.02	0.02	0.2	0.02	0.02	0.01	0.02	5	0.04	88
MAR 18...	0.02	0.02	<0.2	<0.01	<0.01	<0.01	<0.01	10	0.12	58
MAY 12...	0.02	0.01	<0.2	0.03	<0.01	0.01	<0.01	26	1.1	78
JUL 06...	0.01	0.01	<0.2	0.01	<0.01	0.02	<0.01	7	0.14	67
SEP 14...	<0.01	0.02	<0.2	0.02	<0.01	<0.01	0.01	6	0.06	61

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 13...	0900	10	31	<3	3	4	<1
MAR 18...	1430	10	32	<3	8	5	<1
MAY 12...	1500	10	49	<3	5	<4	1
SEP 14...	1530	<10	29	<3	4	<4	1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 13...	<10	<1	<1	<1.0	59	<6
MAR 18...	<10	<1	<1	<1.0	96	<6
MAY 12...	<10	<1	<1	<1.0	83	<6
SEP 14...	<10	<1	<1	<1.0	55	<6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 12...	1500	15	<0.6	<0.6	1.1	1.1	0.9	1.1	0.06	0.41
SEP 14...	1530	3.7	1.0	<0.6	1.0	1.0	0.8	1.0	0.05	0.43

FLAT CREEK BASIN
13018350 FLAT CREEK BELOW CACHE CREEK, NEAR JACKSON, WY

463

LOCATION.--Lat 43°27'30", long 110°47'46", in SW¼ SE¼ NE¼ sec.6, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 8 ft upstream from county bridge on High School Road, 2.1 mi southwest of Post Office in Jackson, and 3.0 mi downstream from Cache Creek.

DRAINAGE AREA.--129 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,130 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for April, which are poor. Natural flow of stream affected by diversions for irrigation. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 10 . . . 89.0
Mar. 25 . . . 55.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	53	121	68	53	54	30
2	---	---	---	---	---	---	53	121	62	49	48	29
3	---	---	---	---	---	---	54	112	66	44	47	28
4	---	---	---	---	---	---	54	105	65	40	48	30
5	---	---	---	---	---	---	55	100	66	36	47	33
6	---	---	---	---	---	---	55	101	61	34	45	35
7	---	---	---	---	---	---	55	103	57	38	44	35
8	---	---	---	---	---	---	55	104	53	36	44	34
9	---	---	---	---	---	---	55	106	50	45	44	34
10	---	---	---	---	---	---	55	105	49	62	43	32
11	---	---	---	---	---	---	55	95	48	60	42	31
12	---	---	---	---	---	---	55	91	50	65	42	31
13	---	---	---	---	---	---	55	83	53	67	42	33
14	---	---	---	---	---	---	56	79	54	67	41	34
15	---	---	---	---	---	---	57	77	57	69	40	30
16	---	---	---	---	---	---	57	79	56	69	43	25
17	---	---	---	---	---	---	57	80	58	66	44	25
18	---	---	---	---	---	---	57	79	53	65	44	26
19	---	---	---	---	---	---	58	82	53	63	43	27
20	---	---	---	---	---	---	58	89	56	65	44	26
21	---	---	---	---	---	---	58	93	58	67	42	27
22	---	---	---	---	---	---	58	101	54	67	41	29
23	---	---	---	---	---	---	58	102	52	68	39	29
24	---	---	---	---	---	---	58	100	53	69	37	29
25	---	---	---	---	---	---	58	99	55	67	35	30
26	---	---	---	---	---	---	58	97	59	67	30	31
27	---	---	---	---	---	---	58	98	63	65	29	34
28	---	---	---	---	---	---	59	99	64	65	29	34
29	---	---	---	---	---	---	61	96	62	61	28	36
30	---	---	---	---	---	---	95	91	57	59	28	35
31	---	---	---	---	---	---	---	77	---	59	30	---
TOTAL	---	---	---	---	---	---	1730	2965	1712	1807	1257	922
MEAN	---	---	---	---	---	---	57.7	95.6	57.1	58.3	40.5	30.7
MAX	---	---	---	---	---	---	95	121	68	69	54	36
MIN	---	---	---	---	---	---	53	77	48	34	28	25
AC-FT	---	---	---	---	---	---	3430	5880	3400	3580	2490	1830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	62.1	87.7	126	106	76.1
MAX	70.1	95.6	168	154	127
(WY)	1990	1992	1991	1989	1991
MIN	57.7	82.1	57.1	58.3	40.5
(WY)	1992	1989	1992	1992	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN

FOR 1992 WATER YEAR*

121 May 1
25 Sep 16, 17

WATER YEARS 1988 - 1992*

225 Jun 16 1991
23 Aug 30,
Sep 1 1990
24 Aug 29 1990
233 Jun 16 1991
2.61 Jun 16 1991
145
71
41

ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

--
142 May 1
2.21 May 1
--
--
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* During period of operation.

FLAT CREEK BASIN
13018500 FLAT CREEK NEAR CHENEY, WY

LOCATION.--Lat 43°23'54", long 110°45'19", in SW¼ NE¼ SE¼ 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.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--July to September 1917, June to September 1918 (monthly discharge only, published in WSP 1317), April 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,940 ft above National Geodetic Vertical Datum of 1929, from topographic map. July 1917 to September 1918, nonrecording gage at site 1 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by diversions for irrigation. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 10 . . . 109.0
Mar. 26 . . . 63.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	63	102	59	88	56	27
2	---	---	---	---	---	---	60	101	54	85	46	33
3	---	---	---	---	---	---	60	99	83	70	55	25
4	---	---	---	---	---	---	58	77	56	68	41	35
5	---	---	---	---	---	---	60	50	66	81	47	24
6	---	---	---	---	---	---	57	51	54	63	34	25
7	---	---	---	---	---	---	56	40	60	58	37	25
8	---	---	---	---	---	---	62	46	50	66	27	27
9	---	---	---	---	---	---	64	45	47	50	34	42
10	---	---	---	---	---	---	74	53	53	62	24	30
11	---	---	---	---	---	---	65	52	40	51	20	40
12	---	---	---	---	---	---	62	56	49	71	29	31
13	---	---	---	---	---	---	61	52	40	63	19	30
14	---	---	---	---	---	---	65	39	49	62	24	42
15	---	---	---	---	---	---	62	48	47	79	16	33
16	---	---	---	---	---	---	61	39	50	68	22	41
17	---	---	---	---	---	---	74	43	69	79	17	31
18	---	---	---	---	---	---	71	36	53	65	16	36
19	---	---	---	---	---	---	65	32	67	75	27	27
20	---	---	---	---	---	---	62	41	54	68	17	25
21	---	---	---	---	---	---	66	38	65	72	29	30
22	---	---	---	---	---	---	62	55	53	88	21	22
23	---	---	---	---	---	---	62	55	52	76	22	25
24	---	---	---	---	---	---	63	64	65	87	23	19
25	---	---	---	---	---	---	59	63	59	70	23	24
26	---	---	---	---	---	---	61	68	79	80	39	31
27	---	---	---	---	---	---	57	81	71	65	25	30
28	---	---	---	---	---	---	57	69	68	62	33	39
29	---	---	---	---	---	---	56	83	87	79	24	28
30	---	---	---	---	---	---	75	72	75	62	22	33
31	---	---	---	---	---	---	---	69	---	68	35	---
TOTAL	---	---	---	---	---	---	1880	1819	1774	2181	904	910
MEAN	---	---	---	---	---	---	62.7	58.7	59.1	70.4	29.2	30.3
MAX	---	---	---	---	---	---	75	102	87	88	56	42
MIN	---	---	---	---	---	---	56	32	40	50	16	19
AC-FT	---	---	---	---	---	---	3730	3610	3520	4330	1790	1800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	69.1	61.0	107	94.2
MAX	85.9	68.1	139	129
(WY)	1990	1991	1989	1989
MIN	62.7	54.5	59.1	70.4
(WY)	1992	1990	1992	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1992 WATER YEAR*

102 May 1
16 Aug 15,18
--
129a May 1
3.02 Jul 24
--
--
--
--

WATER YEARS 1989 - 1992*

167 Jun 17 1991
16 Aug 15,18 1992
20 Aug 14 1992
500b Jun 13 1918
--
130
72
40

* During period of operation.

a Gage height, 2.35 ft.

b Estimated. For period of record 1917, 1918, 1989-92.

SNAKE RIVER MAIN STEM
13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

465

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼ SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft upstream from county road bridge, about 1 mi downstream from Flat Creek, 4.8 mi upstream from Hoback River, 7.0 mi south of Jackson, and at mile 938.9.

DRAINAGE AREA.--2,627 mi².

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,950 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3030	e1260	e1200	e1200	e1280	1320	1490	3590	7000	7140	6040	3600
2	2530	e1200	e1250	e1160	e1260	1330	1470	3460	6940	6940	6060	3610
3	2240	1260	e1200	e1130	e1270	1360	1490	3380	7110	6760	6050	3560
4	1950	1260	e1250	e1240	e1260	1370	1500	3500	7130	6630	6040	3560
5	1840	1330	e1200	e1270	e1250	1390	1550	3690	7030	6540	6020	3560
6	1790	1460	e1240	e1290	e1280	1470	1530	3970	6910	6460	6010	3580
7	e1770	1440	e1280	e1320	e1250	1500	1480	4290	6690	5500	6000	3580
8	e1770	1390	1300	e1350	e1250	1500	1460	4630	6590	5190	6000	3580
9	e1770	1410	1280	e1300	1280	1480	1550	4790	6530	6420	6010	3580
10	e1770	1470	1270	e1290	1280	1450	1670	4420	6540	6380	6000	3580
11	e1770	1440	e1250	e1260	1290	1440	1730	3890	6600	6370	5980	3580
12	e1770	1380	e1300	e1280	1300	1440	1680	3580	6740	6610	5970	3580
13	e1770	1400	e1370	e1270	1310	1460	1680	3370	6690	6680	5980	3600
14	e1770	1450	e1350	e1260	1300	1470	1780	3270	6660	6550	5960	3600
15	e1740	1390	e1330	e1240	1290	1500	1840	3400	6830	6420	5510	3600
16	e1680	1320	e1300	e1260	1290	1520	1920	3630	7060	6360	5200	3620
17	e1550	1280	e1250	e1240	1280	1520	2130	3700	7050	6290	5240	3590
18	e1520	1320	e1320	e1220	1270	1530	2520	3780	7120	6240	5220	3540
19	1530	1340	e1350	e1190	1280	1500	2350	4160	7350	6220	5160	3490
20	1520	1320	e1240	e1230	1340	1450	2140	5450	7370	6320	5140	3440
21	1520	e1280	e1080	e1200	1390	1440	2030	7440	7280	6500	5140	3420
22	1530	e1220	e1140	e1270	1370	1430	2040	8240	7180	6520	5150	3360
23	1580	e1200	e1240	e1300	1370	1400	2070	8000	7140	6570	5100	3350
24	1580	1250	e1270	1330	1310	1410	2000	7840	7240	6440	5070	3330
25	1560	1270	e1230	1310	1290	1420	1920	7910	7460	6400	5070	3320
26	1560	1360	e1210	1300	1290	1400	1920	7910	7570	6370	5080	3320
27	1580	1370	e1180	1280	1290	1430	2040	8000	7500	6300	4860	3280
28	1540	1320	e1160	1290	1290	1460	2470	8000	7410	6270	4330	3250
29	1470	1290	e1210	1310	1290	1470	2870	7640	7240	6250	3890	3210
30	1410	e1180	e1180	1300	---	1480	3300	7400	7210	6180	3690	3170
31	1330	---	e1240	1300	---	1480	---	7140	---	6130	3680	---
TOTAL	53740	39860	38670	39190	37500	44820	57620	163470	211170	197950	166650	104440
MEAN	1734	1329	1247	1264	1293	1446	1921	5273	7039	6385	5376	3481
MAX	3030	1470	1370	1350	1390	1530	3300	8240	7570	7140	6060	3620
MIN	1330	1180	1080	1130	1250	1320	1460	3270	6530	5190	3680	3170
AC-FT	106600	79060	76700	77730	74380	88900	114300	324200	418900	392600	330600	207200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1814	1558	1399	1277	1291	1510	2648	6620	10740	6685	4080	3258					
MAX	3093	2747	1998	1899	1612	2689	5435	10840	19590	14090	7253	6464					
(WY)	1983	1984	1984	1983	1983	1986	1985	1976	1986	1982	1976	1984					
MIN	977	967	846	879	825	910	1292	2570	5426	3245	2305	1801					
(WY)	1989	1988	1988	1988	1989	1977	1977	1977	1987	1988	1981	1979					

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1976 - 1992
ANNUAL TOTAL	1168590	1155080	--
ANNUAL MEAN	3202	3156	3511
HIGHEST ANNUAL MEAN	--	--	5015
LOWEST ANNUAL MEAN	--	--	2469
HIGHEST DAILY MEAN	18500	8240	24900
LOWEST DAILY MEAN	1060	1080	690
ANNUAL SEVEN-DAY MINIMUM	1120	1180	785
INSTANTANEOUS PEAK FLOW	--	--	25600
INSTANTANEOUS PEAK STAGE	--	--	10.22
ANNUAL RUNOFF (AC-FT)	2318000	2291000	2544000
10 PERCENT EXCEEDS	7710	6750	8520
50 PERCENT EXCEEDS	1570	1770	2040
90 PERCENT EXCEEDS	1170	1250	1130

e Estimated.

HOBACK RIVER BASIN
13019438 LITTLE GRANITE CREEK AT MOUTH, NEAR BONDURANT, WY

LOCATION.--Lat 43°17'56", long 110°31'33", NW¼ SW¼ sec.34, T.39 N., R.114 W., Teton County, Teton National Forest, Hydrologic Unit 17040103, 11.3 mi east of Hoback Junction on U.S. 187/189 and 1.4 mi northeast of U.S. 187/189 on Granite Creek Road.

DRAINAGE AREA.--21.1 mi².

PERIOD OF RECORD.--December 1981 to October 1992 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,390 ft above National Geodetic Vertical Datum 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	e4.0	e5.8	e3.3	e3.6	e4.5	e11	61	29	21	9.9	7.1
2	7.2	e3.0	8.8	e3.1	e3.7	e6.0	15	55	28	20	9.8	6.7
3	7.1	e3.2	9.2	e2.6	e3.9	e6.6	17	57	29	19	10	6.6
4	7.1	e3.5	9.2	e3.5	e3.7	e6.5	19	66	27	18	9.6	8.3
5	7.1	e4.0	8.7	e3.9	e3.8	e7.2	19	76	25	17	9.1	8.0
6	7.1	e6.0	9.2	e4.2	e3.7	7.5	17	83	23	16	9.1	8.7
7	7.0	8.2	9.5	e4.4	e3.9	7.4	17	89	23	15	8.9	6.9
8	6.9	e7.4	9.3	e4.7	e4.0	7.4	17	93	23	15	8.7	6.5
9	6.9	8.5	9.1	e4.3	e3.9	e7.2	18	87	23	15	8.4	6.4
10	6.8	e7.7	e3.5	e3.9	e3.8	e7.0	21	72	24	15	8.2	6.3
11	6.6	e7.8	e3.0	e3.6	e4.1	e7.4	21	63	26	14	8.1	6.2
12	6.6	e8.2	e3.3	e4.1	e4.0	e7.6	24	60	25	17	8.1	6.1
13	6.6	8.4	e4.2	e3.8	e3.8	e7.5	25	58	25	15	7.9	6.0
14	6.6	8.2	e3.9	e4.0	e4.0	e7.2	26	59	25	14	7.8	6.0
15	6.5	8.1	e3.7	e3.0	e3.9	e8.4	28	60	29	14	7.7	5.9
16	6.3	e7.3	e3.5	e3.2	e3.7	e8.9	29	60	26	13	7.8	5.8
17	6.5	e7.5	e3.6	e3.0	e3.4	e9.1	36	60	26	13	8.0	5.7
18	6.5	e8.1	e3.8	e2.8	e3.8	e8.7	33	61	24	13	7.8	5.6
19	6.4	e7.4	e4.0	e2.4	e3.9	e8.4	29	61	24	13	7.4	5.6
20	6.4	e7.2	e3.2	e2.8	e4.1	e9.3	28	63	23	14	7.2	5.5
21	6.3	e5.2	e2.5	e3.0	e4.0	e8.4	28	59	23	16	7.2	5.5
22	6.2	e3.5	e3.0	e3.6	e3.9	e7.5	29	57	22	13	7.1	5.4
23	7.1	e3.0	e3.3	e4.1	e3.8	e8.8	29	49	21	13	7.0	5.4
24	6.7	e4.0	e3.6	e4.3	e3.6	e9.2	28	47	21	12	6.9	5.6
25	7.0	8.9	e3.3	e3.7	e3.9	e8.6	28	44	25	12	7.1	6.2
26	7.1	9.2	e3.1	e3.5	e3.8	e8.5	30	43	24	12	7.4	5.6
27	7.6	9.1	e3.0	e3.2	e3.6	e9.8	35	40	24	11	7.3	5.4
28	7.0	9.2	e2.9	e3.6	e3.5	11	41	37	22	11	7.0	5.2
29	e5.8	e4.0	e3.6	e3.8	e3.4	12	47	36	22	11	6.7	5.1
30	e4.5	e3.0	e3.1	e3.6	---	12	57	33	22	10	6.7	5.0
31	e6.0	---	e3.8	e3.2	---	13	---	30	---	10	7.2	---
TOTAL	207.0	192.8	153.7	110.2	110.2	258.6	802	1819	733	442	247.1	184.3
MEAN	6.68	6.43	4.96	3.55	3.80	8.34	26.7	58.7	24.4	14.3	7.97	6.14
MAX	7.6	9.2	9.5	4.7	4.1	13	57	93	29	21	10	8.7
MIN	4.5	3.0	2.5	2.4	3.4	4.5	11	30	21	10	6.7	5.0
AC-FT	411	382	305	219	219	513	1590	3610	1450	877	490	366

HOBACK RIVER BASIN
13019438 LITTLE GRANITE CREEK AT MOUTH, NEAR BONDURANT, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)												
MEAN	8.80	7.75	6.49	5.39	5.26	7.61	34.6	119	117	36.3	15.6	9.99
MAX	17.2	16.6	13.6	10.4	8.71	17.3	61.1	187	249	79.9	28.3	15.2
(WY)	1984	1984	1984	1984	1984	1986	1986	1982	1986	1982	1983	1983
MIN	4.83	4.66	4.19	3.21	3.35	4.32	14.1	58.7	24.4	14.3	7.97	5.74
(WY)	1989	1989	1989	1982	1982	1982	1991	1992	1992	1992	1992	1988

SUMMARY STATISTICS			FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1982 - 1992		
ANNUAL TOTAL			8513.9			5259.9			--		
ANNUAL MEAN			23.3			14.4			29.5		
HIGHEST ANNUAL MEAN			--			--			49.4		1986
LOWEST ANNUAL MEAN			--			--			14.4		1992
HIGHEST DAILY MEAN			204	Jun	5	93	May	8	656	May	29 1983
LOWEST DAILY MEAN			2.5	Dec	21	2.4	Jan	19	2.4	Jan	19 1992
ANNUAL SEVEN-DAY MINIMUM			3.1	Dec	21	2.9	Jan	15	2.9	Jan	15 1992
INSTANTANEOUS PEAK FLOW			--			--			a 876	May	29 1983
INSTANTANEOUS PEAK STAGE			--			--			b 4.10	Feb	25 1982
ANNUAL RUNOFF (AC-FT)			16890			10430			21360		
10 PERCENT EXCEEDS			64			31			83		
50 PERCENT EXCEEDS			8.4			7.5			9.5		
90 PERCENT EXCEEDS			4.3			3.6			4.5		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT
1	5.0	9	4.8	17	4.9	25	4.3
2	5.0	10	4.9	18	4.9	26	4.4
3	4.9	11	4.9	19	4.7	27	4.6
4	5.0	12	4.9	20	4.7	28	4.5
5	5.0	13	4.8	21	4.6	29	e4.4
6	4.9	14	4.5	22	4.5	30	e4.4
7	4.9	15	4.5	23	4.7	31	e4.3
8	e4.8	16	e4.6	24	e4.6		
						TOTAL	145.9
						MEAN	4.71
						MAX	5.0
						MIN	4.3
						AC-FT	289

a Gage height, 3.86 ft.
b Backwater from ice.
e Estimated

LOCATION.--Lat 43°18'06", long 110°46'32" in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on U.S. Highways 26,18, 17 mi south of Jackson, and 21 miles northeast of Alpine Junction.

PERIOD OF RECORD.--July to September 1992.

[illegible]

SNAKE RIVER MAIN STEM
13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

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LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi downstream from Wolf Creek, 6.4 mi upstream from Greys River, 7.4 mi east of Alpine, 16.1 mi upstream from Palisades Dam, and at mile 917.5.

DRAINAGE AREA.--3,465 mi².

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft above National Geodetic Vertical Datum of 1929.

Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi downstream at different datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3560	e1550	e1580	e1500	e1540	1570	1840	4900	8070	7860	6360	3940
2	3030	e1490	e1620	e1440	e1520	1590	1840	4680	7960	7620	6360	3920
3	2700	1550	e1590	e1420	e1540	1610	1870	4530	8100	7420	6340	3870
4	2350	1610	e1630	e1490	e1580	1620	1910	4700	8180	7240	6330	3950
5	2170	1680	e1600	e1520	e1600	1650	1990	5000	8010	7130	6300	4060
6	2110	1830	e1680	e1550	e1550	1710	1940	5330	7840	7040	6250	4110
7	2080	1810	1750	e1620	e1500	1780	1860	5710	7580	6450	6220	4040
8	2040	1740	1760	e1700	e1520	1780	1830	6180	7440	5330	6200	4050
9	2030	1760	1720	e1650	e1540	1770	1900	6420	7350	6940	6200	4170
10	2000	1860	1660	e1600	e1550	1720	2090	5890	7350	6920	6170	4130
11	1970	1810	e1600	e1540	e1560	1710	2200	5150	7430	6900	6150	4080
12	1970	1740	e1680	e1560	e1570	1730	2160	4840	7580	7170	6110	4060
13	1950	1760	e1780	e1550	e1580	1750	2170	4560	7550	7270	6120	4030
14	1940	1830	e1760	e1540	e1570	1780	2300	4500	7450	7130	6090	3980
15	1930	1780	e1740	e1550	1560	1820	2410	4600	7580	6990	5720	3930
16	1900	1690	e1700	e1600	1550	1860	2520	4860	7830	6880	5300	3880
17	1850	1640	e1650	e1500	1530	1860	2890	5050	7800	6830	5350	3830
18	1830	1710	e1600	e1470	1510	1880	3500	5260	7810	6770	5330	3780
19	1820	1710	e1670	e1450	1510	1840	3170	5730	8040	6720	5240	3740
20	1820	1700	e1520	e1580	1580	1790	2850	6990	8120	6810	5220	3690
21	1810	e1640	e1400	e1510	1640	1740	2720	9040	8030	7040	5200	3650
22	1820	e1600	e1450	e1550	1630	e1700	2760	9990	7980	7020	5230	3600
23	1890	1580	e1530	e1600	1620	1690	2820	9650	7910	7050	5170	3570
24	1900	1670	e1600	e1660	1540	1690	2690	9440	8000	6910	5240	3550
25	1880	1680	e1520	e1630	e1500	e1660	2580	9450	8240	6830	5430	3580
26	1900	1780	e1470	e1590	e1520	1690	2600	9450	8450	6790	5430	3550
27	1960	1790	e1430	e1580	1530	1750	2810	9480	8360	6700	5250	3490
28	1890	1740	e1380	e1590	1540	1810	3370	9360	8190	6660	4710	3450
29	1790	e1640	e1470	e1600	1550	1820	3940	8900	8010	6640	4260	3410
30	1700	e1520	e1430	e1580	---	1830	4470	8620	7960	6550	4010	3380
31	1630	---	e1580	e1560	---	1840	---	8280	---	6500	4020	---
TOTAL	63220	50890	49550	48280	45030	54040	76000	206540	236200	214110	173310	114470
MEAN	2039	1696	1598	1557	1553	1743	2533	6663	7873	6907	5591	3816
MAX	3560	1860	1780	1700	1640	1880	4470	9990	8450	7860	6360	4170
MIN	1630	1490	1380	1420	1500	1570	1830	4500	7350	5330	4010	3380
AC-FT	125400	100900	98280	95760	89320	107200	150700	409700	468500	424700	343800	227100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

MEAN	2163	1868	1713	1497	1596	1804	3332	8798	13240	8620	5340	4003
MAX	3605	4244	5795	2225	3381	3475	6820	15410	24090	15790	7541	7595
(WY)	1983	1957	1957	1983	1961	1986	1985	1971	1986	1982	1956	1984
MIN	1325	1225	1101	1069	1071	1099	1506	2995	6849	3802	2494	2241
(WY)	1978	1978	1988	1964	1938	1955	1955	1977	1987	1988	1981	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1937 - 1992
ANNUAL TOTAL	1420130	1331640	--
ANNUAL MEAN	3891	3638	4522
HIGHEST ANNUAL MEAN	--	--	6587
LOWEST ANNUAL MEAN	--	--	2726
HIGHEST DAILY MEAN	21400	9990	31300
LOWEST DAILY MEAN	1280	1380	900
ANNUAL SEVEN-DAY MINIMUM	1330	1460	957
INSTANTANEOUS PEAK FLOW	--	10200	--
INSTANTANEOUS PEAK STAGE	--	6.99	--
INSTANTANEOUS LOW FLOW	--	--	740a
ANNUAL RUNOFF (AC-FT)	2817000	2641000	3276000
10 PERCENT EXCEEDS	9630	7580	10800
50 PERCENT EXCEEDS	1950	2010	2430
90 PERCENT EXCEEDS	1400	1540	1320

a Gage height, 2.19 ft.
e Estimated.

GREYS RIVER BASIN
13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼ SE¼ sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.0 mi upstream from maximum flowline of Palisades Reservoir and 3.6 mi southeast of Alpine.

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 National Geodetic Vertical Datum of 1929, 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. October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi downstream at different datums.

REMARKS.--Records fair except for estimated daily discharges which are poor. Station equipment includes satellite telemetry. Less than 500 acres irrigated by diversions from Greys River and tributaries upstream station. Peak discharges greater than a base discharge of 2,000 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e290	e195	e145	e188	e190	203	349	985	777	414	241	234
2	e288	e170	e170	e175	e195	214	366	882	757	402	240	239
3	e275	179	e195	e168	e205	213	400	875	758	390	240	227
4	e255	239	e230	e184	e195	218	437	912	745	371	242	237
5	e250	288	e220	e195	e180	232	450	968	716	360	230	275
6	e265	339	250	e200	e188	243	419	1020	679	345	230	296
7	e280	304	250	e210	e190	249	389	1080	646	336	229	264
8	e270	258	236	e220	e195	244	383	1110	622	330	222	252
9	e280	287	214	e198	e200	253	388	1150	603	330	216	245
10	e295	298	176	e190	e195	248	466	1010	586	322	212	241
11	e280	271	157	e175	e190	250	493	919	578	317	209	236
12	e265	248	175	e185	e196	261	487	893	566	349	208	238
13	e250	266	e190	e190	e188	271	518	880	551	356	207	246
14	e240	263	184	e184	e192	284	522	887	530	331	203	242
15	e260	252	177	e172	e198	292	547	915	535	316	199	238
16	e270	220	e170	e188	e204	301	561	958	536	306	201	238
17	e250	218	e178	e182	e185	292	738	977	538	296	213	235
18	e240	256	e180	e160	e175	289	875	993	490	294	277	235
19	e225	237	e195	e145	e195	276	690	1030	474	294	239	239
20	e230	216	e210	e135	e210	262	613	1080	471	300	223	237
21	e235	247	e166	e168	e215	261	594	1120	454	349	218	240
22	e245	209	e172	e178	207	257	620	1160	441	319	211	240
23	e255	157	e185	e198	181	269	595	1080	432	302	214	241
24	e275	218	e190	e200	166	265	539	1050	426	293	218	256
25	270	250	e178	e190	179	e275	532	1050	431	293	219	284
26	271	251	e172	e178	171	e285	549	1030	442	289	218	284
27	308	241	e170	e170	175	e295	662	1000	448	277	213	271
28	280	226	e168	e195	182	292	805	941	429	261	209	275
29	247	e190	e182	e200	189	309	870	893	408	258	201	273
30	217	e165	e170	e190	---	319	975	848	413	249	202	279
31	224	---	e184	e180	---	337	---	803	---	245	210	---
TOTAL	8085	7158	5839	5691	5531	8259	16832	30499	16482	9894	6814	7537
MEAN	261	239	188	184	191	266	561	984	549	319	220	251
MAX	308	339	250	220	215	337	975	1160	777	414	277	296
MIN	217	157	145	135	166	203	349	803	408	245	199	227
AC-FT	16040	14200	11580	11290	10970	16380	33390	60490	32690	19620	13520	14950
CFSM	.58	.53	.42	.41	.43	.59	1.25	2.20	1.23	.71	.49	.56
IN.	.67	.59	.48	.47	.46	.69	1.40	2.53	1.37	.82	.57	.63

GREYS RIVER BASIN
13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)												
MEAN	317	269	236	214	207	227	623	1759	2008	940	477	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	194	175	164	144	150	173	238	333	387	228	205	198
(WY)	1978	1978	1970	1991	1991	1967	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1937 - 1992	
ANNUAL TOTAL	193422		128621		--	
ANNUAL MEAN	530		351		642	
HIGHEST ANNUAL MEAN	--		--		1022	
LOWEST ANNUAL MEAN	--		--		259	
HIGHEST DAILY MEAN	2800	Jun 5	1160	May 22	6170	Jun 19 1971
LOWEST DAILY MEAN	125	Jan 29	135	Jan 20	92	Jan 2 1978
ANNUAL SEVEN-DAY MINIMUM	131	Jan 24	164	Jan 15	125	Feb 17 1978
INSTANTANEOUS PEAK FLOW	--		1240a	May 22	7230b	Jun 19 1971
INSTANTANEOUS PEAK STAGE	--		6.97c	Dec 4	19.10d	Dec 18 1965
INSTANTANEOUS LOW FLOW	--		--		84f	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	383700		255100		465100	
ANNUAL RUNOFF (CFSM)	1.18		.78		1.43	
ANNUAL RUNOFF (INCHES)	16.06		10.68		19.47	
10 PERCENT EXCEEDS	1520		764		1720	
50 PERCENT EXCEEDS	280		251		314	
90 PERCENT EXCEEDS	150		180		190	

a Gage height, 3.25 ft.

b Gage height, 6.33 ft.

c Backwater from ice jam.

d At former site and datum, about Dec, 18, 1965 (backwater from ice jam).

e Estimated.

f Result of current meter measurement.

SALT RIVER BASIN

13026000 STUMP CREEK NEAR AUBURN, WY

LOCATION.--Lat 42°47'00", long 111°03'10, sec.26, T.7 S., R.46 E., Caribou County, Idaho, Hydrologic Unit 17040105, 0.6 mi upstream from Wyoming-Idaho State line, 0.8 mi downstream from Tygee Creek, and 2.5 mi west of Auburn.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--October 1989 to September 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
NOV 13...	1230	29	1000	8.5	4.0	600	11.0	107	270	75
JAN 16...	1000	28	1000	8.1	1.0	605	11.5	102	270	75
MAR 12...	1510	36	1440	8.3	8.0	605	9.8	105	270	77
MAY 13...	1715	42	660	8.5	12.0	605	9.1	107	210	59
JUL 07...	1100	15	850	8.5	14.0	616	9.0	109	250	67
SEP 15...	1030	13	956	8.5	9.0	610	9.4	102	270	72

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 13...	19	110	3	1.2	210	63	160	0.2	9.0	566
JAN 16...	19	100	3	1.1	200	64	160	0.1	9.6	551
MAR 12...	18	180	5	1.8	200	66	280	0.2	8.8	754
MAY 13...	14	54	2	1.0	180	40	80	0.2	8.0	377
JUL 07...	19	76	2	1.2	200	64	110	0.2	9.9	468
SEP 15...	21	87	2	1.2	200	73	130	0.2	9.3	515

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P)
NOV 13...	0.77	44.3	0.06	0.3	0.02	--	<0.2	0.03	0.02
JAN 16...	0.75	41.7	0.14	0.3	0.06	0.24	0.3	0.08	0.03
MAR 12...	1.02	73.2	0.09	0.2	0.03	0.27	0.3	0.05	0.03
MAY 13...	0.51	42.8	0.13	2.8	0.03	--	<0.2	0.03	0.02
JUL 07...	0.64	19.0	<0.05	<0.1	0.02	0.18	0.2	0.03	0.03
SEP 15...	0.70	18.1	<0.05	<0.1	<0.01	--	<0.2	0.02	0.01

13026000 STUMP CREEK NEAR AUBURN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 13...	1230	<10	<1	80	<0.5	30	<1.0	7	<3	<1
JAN 16...	1000	<10	<1	73	<0.5	30	<1.0	20	<3	2
MAR 12...	1510	<10	<1	90	<0.5	20	1.0	1	<3	2
MAY 13...	1715	20	<1	92	<0.5	20	<1.0	<1	<3	3
JUL 07...	1100	30	1	78	<0.5	20	<1.0	<1	<3	<1
SEP 15...	1030	<10	<1	73	<0.5	30	<1.0	<1	<3	<1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 13...	10	<1	10	31	0.1	<1	<1.0	810	6
JAN 16...	6	<1	12	29	0.1	<1	<1.0	830	<3
MAR 12...	16	<1	11	67	<0.1	<1	1.0	740	12
MAY 13...	27	2	8	17	0.2	<1	<1.0	580	14
JUL 07...	7	<1	7	20	<0.1	<1	<1.0	820	<3
SEP 15...	3	<1	8	10	0.2	<1	<1.0	900	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 13...	1715	42	1.7	<0.6	2.0	0.9	1.5	0.9	0.06	0.40
SEP 15...	1030	13	1.3	<0.6	2.3	<0.6	1.7	<0.6	0.06	0.60

SALT RIVER BASIN
13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼ NE¼ 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes 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 below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	553	530	482	e375	372	411	500	606	323	409	318	323
2	548	526	510	e355	377	416	503	594	316	419	314	324
3	546	516	509	369	385	425	512	575	316	423	313	330
4	543	516	512	379	377	429	528	567	314	417	312	344
5	544	541	510	383	360	445	524	564	314	431	318	352
6	545	615	512	393	e365	468	508	512	312	421	317	358
7	543	624	518	407	e350	503	492	500	313	415	301	347
8	542	600	520	409	e360	517	487	474	313	415	291	358
9	536	592	514	381	e365	530	489	478	313	445	291	361
10	535	614	504	379	e370	538	523	477	313	445	287	367
11	533	606	480	386	e372	531	552	458	308	440	285	370
12	527	586	477	397	375	533	535	428	311	453	286	373
13	525	577	491	387	364	535	545	408	311	425	285	373
14	525	584	466	e372	366	530	544	384	313	414	285	381
15	525	572	e455	e365	375	530	549	348	327	407	283	380
16	518	555	e445	e380	376	522	551	342	345	390	288	379
17	508	547	457	e365	375	513	586	329	391	379	295	380
18	503	548	455	e348	375	516	679	321	387	369	306	378
19	503	540	475	e355	374	507	629	297	372	364	306	376
20	510	534	439	358	387	509	595	294	377	366	298	372
21	510	544	412	365	405	507	576	303	376	376	297	372
22	510	542	411	370	411	491	583	318	374	365	296	373
23	522	525	e405	375	417	488	593	324	370	363	298	373
24	529	523	e412	381	409	495	571	321	368	357	303	372
25	521	542	428	390	406	487	557	324	364	353	306	374
26	520	572	416	382	407	483	555	324	368	349	310	378
27	546	572	406	375	406	491	569	330	382	344	312	377
28	546	571	398	375	408	497	589	329	391	340	311	377
29	535	554	400	386	410	490	593	331	395	339	317	375
30	526	525	388	378	---	489	606	337	393	335	321	377
31	525	---	393	375	---	496	---	328	---	325	319	---
TOTAL	16402	16793	14200	11695	11099	15322	16623	12525	10370	12093	9369	10974
MEAN	529	560	458	377	383	494	554	404	346	390	302	366
MAX	553	624	520	409	417	538	679	606	395	453	321	381
MIN	503	516	388	348	350	411	487	294	308	325	283	323
AC-FT	32530	33310	28170	23200	22010	30390	32970	24840	20570	23990	18580	21770
CFSM	.64	.68	.55	.46	.46	.60	.67	.49	.42	.47	.36	.44
IN.	.74	.75	.64	.52	.50	.69	.75	.56	.47	.54	.42	.49

SALT RIVER BASIN
13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)												
MEAN	625	594	519	449	441	475	952	1693	1413	845	627	645
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	370	324	337	362	503	306	275	271	266	342
(WY)	1978	1978	1991	1978	1978	1988	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1954 - 1992			
ANNUAL TOTAL	227509				157465				--			
ANNUAL MEAN	623				430				774			
HIGHEST ANNUAL MEAN	--				--				1266			
LOWEST ANNUAL MEAN	--				--				430			
HIGHEST DAILY MEAN	2090	Jun	8		679	Apr	18		5030	Jun	2	1986
LOWEST DAILY MEAN	324	Jan	3		283	Aug	15		180	Jan	7	1971
ANNUAL SEVEN-DAY MINIMUM	334	Jan	1		286	Aug	10		226	May	10	1977
INSTANTANEOUS PEAK FLOW					691	Apr	18		5090	Jun	2	1986
INSTANTANEOUS PEAK STAGE					2.28	Apr	18		5.71	Jun	2	1986
INSTANTANEOUS LOW FLOW	--				--				160a	Jan	7	1971
ANNUAL RUNOFF (AC-FT)	451300				312300				560900			
ANNUAL RUNOFF (CFSM)	.75				.52				.93			
ANNUAL RUNOFF (INCHES)	10.21				7.07				12.69			
10 PERCENT EXCEEDS	1090				551				1490			
50 PERCENT EXCEEDS	520				406				574			
90 PERCENT EXCEEDS	354				314				384			

a Occurred Jan. 7, 8, 1971; gage height, 1.53 ft.
e Estimated.

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD:

WATER TEMPERATURES: May 1977 to September 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
APR 29...	1445	602	455	12.0	K15	170	39	17	12
MAY 13...	1400	423	425	12.0	K9	230	60	19	11
JUL 07...	1400	438	488	14.5	44	240	61	21	13
SEP 15...	1230	433	495	11.0	K16	240	63	21	10

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

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
APR 29...	0.4	1.1	190	34	15	0.2	5.8	240	0.33
MAY 13...	0.3	1.1	180	30	14	0.2	4.6	250	0.34
JUL 07...	0.4	1.0	200	36	14	0.2	7.0	277	0.38
SEP 15...	0.3	1.2	210	40	13	0.2	7.7	286	0.39

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	
APR 29...	390	0.51	0.5	0.02	<0.2	0.03	<0.01	46	75
MAY 13...	286	0.63	0.6	0.01	<0.2	0.03	<0.01	16	18
JUL 07...	327	0.87	0.8	0.02	<0.2	0.03	0.01	15	18
SEP 15...	335	0.96	1.0	0.02	<0.2	0.02	<0.01	11	13

HENRYS FORK BASIN
13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY

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LOCATION.--Lat 44°11'09", long 111°00'19", T.49 N., R.118 W., Teton County, Hydrologic Unit 17040203, Yellowstone National Park, 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 National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	68	65	63	61	62	98	143	96	84	65	68
2	66	67	68	63	61	62	105	134	92	80	65	63
3	65	66	65	62	61	62	116	130	90	79	65	62
4	65	66	65	63	61	63	124	132	87	76	64	65
5	65	69	65	63	61	65	126	149	84	75	64	69
6	65	69	66	63	60	65	114	164	83	74	63	72
7	65	68	68	63	61	64	104	178	81	73	64	67
8	65	68	66	63	61	64	100	192	78	72	64	64
9	64	79	65	63	61	64	104	196	77	72	63	63
10	64	75	65	62	61	64	126	171	76	72	63	63
11	64	71	65	63	62	63	150	150	75	76	63	62
12	65	69	66	62	62	63	175	140	75	86	63	62
13	65	75	66	63	62	63	246	140	81	83	62	62
14	65	72	65	62	62	64	312	139	79	75	63	62
15	65	69	64	62	62	66	328	153	93	72	62	62
16	65	68	64	63	62	68	294	161	159	71	65	61
17	64	68	64	62	62	69	343	165	167	70	66	60
18	64	70	65	62	61	68	330	176	138	70	64	60
19	64	68	65	62	62	66	207	195	159	69	63	60
20	64	68	64	62	65	65	163	213	101	70	63	60
21	65	68	64	61	64	65	166	205	91	69	63	60
22	71	66	64	62	63	65	184	173	84	70	63	61
23	77	66	64	62	62	64	170	162	81	68	63	60
24	69	67	64	62	61	64	149	161	78	68	63	61
25	70	67	64	62	61	65	134	157	81	67	63	63
26	73	68	63	62	61	67	133	149	85	66	62	62
27	79	71	64	61	60	71	146	159	89	66	62	61
28	71	67	64	61	61	74	154	139	80	68	61	60
29	68	67	65	61	62	78	153	119	78	67	60	60
30	68	65	63	61	---	84	155	109	83	66	61	60
31	68	---	63	61	---	94	---	101	---	65	62	---
TOTAL	2074	2065	2008	1927	1786	2081	5209	4855	2801	2239	1957	1875
MEAN	66.9	68.8	64.8	62.2	61.6	67.1	174	157	93.4	72.2	63.1	62.5
MAX	79	79	68	63	65	94	343	213	167	86	66	72
MIN	64	65	63	61	60	62	98	101	75	65	60	60
AC-FT	4110	4100	3980	3820	3540	4130	10330	9630	5560	4440	3880	3720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	79.1	78.0	74.2	71.1	67.9	69.8	135	247	212
MAX	101	97.9	94.0	88.4	82.8	87.9	215	394	566
(WY)	1985	1985	1985	1985	1986	1986	1990	1989	1986
MIN	61.8	66.0	61.5	58.4	53.7	58.5	68.8	150	83.3
(WY)	1989	1989	1989	1989	1989	1989	1991	1990	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1984 - 1992
ANNUAL TOTAL	34373	30877	--
ANNUAL MEAN	94.2	84.4	106
HIGHEST ANNUAL MEAN	--	--	157
LOWEST ANNUAL MEAN	--	--	84.4
HIGHEST DAILY MEAN	540 May 18	343 Apr 17	810 Jun 2 1986
LOWEST DAILY MEAN	55 Mar 29	60a Feb 6	53b Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	56 Mar 25	60 Sep 17	53 Feb 12 1989
INSTANTANEOUS PEAK STAGE	--	--	5.11c May 9 1989
INSTANTANEOUS LOW FLOW	--	59d Jan 21	--
ANNUAL RUNOFF (AC-FT)	68180	61240	76580
10 PERCENT EXCEEDS	208	150	181
50 PERCENT EXCEEDS	67	66	77
90 PERCENT EXCEEDS	60	61	61

a Also occurred Feb. 27, Aug. 29, Sept. 18-23, 28-30.

b Occurred Feb. 4-6, 13-18, 21-24, Mar. 5, Apr. 5, 1989.

c Result of backwater from Bechler River.

d Also occurred Feb. 6; gage height, 2.10 ft.

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 1992

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Yellowstone River Basin						
Horse Creek at Dubois 06219500	Wind River	Lat 43°32'01", long 109°37'56", in NW¼ SW¼ NW¼ sec.7, T.41 N., R.106 W., Fremont County, Hydrologic Unit 10080001, at bridge on U.S. Highway 287-26, in Dubois, and 800 ft upstream from mouth.		1910-12# 1991	10-16-91	23.5
					11-13-91	25.9
					3-18-92	18.8
					4-09-92	19.4
					5-20-92	111
Jakeys Fork	Wind River	Lat 43°30'51", long 109°34'10", in SW¼ NW¼ NE¼ sec.15, T.41 N., R.106 W., Fremont County, Hydrologic Unit 10080001, at bridge on U.S. Highway 287-26, 0.4 mi upstream from mouth, and 3.3 mi southeast of Dubois.		1991	10-16-91	13.1
					11-13-91	9.28
					3-17-92	4.62
					4-09-92	4.70
					5-20-92	123
Torrey Creek	Wind River	Lat 43°30'08", long 109°33'19", in NE¼ SE¼ SE¼ sec.22, T.41 N., R.106 W., Fremont County, Hydrologic Unit 10080001, at bridge on U.S. Highway 287-26, 0.2 mi upstream from mouth, and 4.3 mi southeast of Dubois.		1991	10-16-91	13.6
					11-13-91	11.3
					3-17-92	.48
					4-09-92	.45
					5-20-92	2.29
Bear Creek	East Fork Wind River	Lat 43°35'00", long 109°27'20", in SE¼ SE¼ NE¼ sec.21, T.42 N., R.105 W., Fremont County, Hydrologic Unit 10080001, at bridge on East Fork Road, about 0.5 mi upstream from mouth, and 9.5 mi northeast of Dubois.		1991	10-16-91	4.98
					11-13-91	5.54
					3-17-92	8.13
					4-09-92	7.86
					5-19-92	44.8
Wiggins Fork	East Fork Wind River	Lat 43°32'22", long 109°27'54", in SW¼ SE¼ NE¼ sec.4, T.41 N., R.105 W., Fremont County, Hydrologic Unit 10080001, at bridge on East Fork Road. 0.25 mi upstream from mouth, and 8.3 mi east of Dubois.		1991	10-16-91	61.6
					11-13-91	59.6
					3-17-92	44.4
					4-09-92	43.1
					5-19-92	365
Red Creek near Dubois 432430109252001	Wind River	Lat 43°24'30", long 109°25'20", in SW¼ NE¼ SW¼ sec.13, T.5 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, at culvert on dirt road, 0.5 mi upstream from mouth, 3.0 mi southeast of Wilderness, and 13.6 mi southeast of Dubois.		1990-91	10-16-91	2.11
					11-13-91	2.29
					3-18-92	2.36
					4-09-92	2.18
					5-19-92	2.16
Dinwoody Canal 432302109215601	Wind River	Lat 43°23'02", long 109°21'56", in NE¼ SW¼ NW¼ 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.		1988-91	5-20-92	116
					7-01-92	163
					8-17-92	209
Upper Wind River "A" Canal 432609109205001	Wind River	Lat 43°26'09", long 109°20'50", in NW¼ SW¼ SW¼ 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.		1988-91	5-28-92	80.5
					7-01-92	53.3
					8-12-92	71.8
Lower Wind River "A" Canal 432208109151401	Wind River	Lat 43°22'08", long 109°15'14", in NW¼ SE¼ NE¼ 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.		1989-91	5-28-92	48.9
					7-01-92	22.3
					8-12-92	18.9

Operated as a continuous-record gaging station.

DISCHARGE AT MISCELLANEOUS SITES

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Discharge measurements made at special study and miscellaneous sites during water year 1992--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Yellowstone River Basin--Continued						
Meadow Creek Canal 431744109123001	Wind River	Lat 43°17'44", long 109°12'30", in SW¼ SW¼ NW¼ 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 1.3 mi southwest of Crowheart.		1989-91	5-19-92 7-01-92 8-13-92	28.0 109 68.1
Willow Creek Canal 431707109105201	Wind River	Lat 43°17'07", long 109°10'52", in NE¼ NE¼ NW¼ 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.		1988-91	5-19-92 7-01-92 8-13-92	18.6 86.4 55.3
Dry Creek 433155109054301	Wind River	Lat 43°31'55", long 109°05'43", in NE¼ NE¼ SW¼ sec.3, T.6 N., R.3 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, at bridge on Maverick Spring Road, 0.5 mi upstream from confluence with Little Dry Creek, and 26.7 mi east of Dubois.		1990-91	10-16-91 11-13-91 3-17-92 4-08-92 5-19-92	1.54 1.90 .91 1.63 6.97
Crooked Creek	South Fork Little Wind River	Lat 42°58'42", long 108°55'57", in NE¼ SE¼ NE¼ sec.13, T.1 S., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, at culvert on Moccasin Lake Road, 2.7 mi west of Wind River, and 3.3 mi southwest of Fort Washakie.		1991	10-15-91 11-12-91 3-16-92 4-08-92 5-18-92	.02 0 0 0 0
Trout Creek below Ray Canal 425850108550701	Little Wind River	Lat 42°58'50", long 108°55'07", in SE¼ NW¼ NE¼ 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.		1988-91	4-07-92 5-05-92 7-02-92 8-12-92	6.92 30.1 22.1 40.8
Ray Canal below Trout Creek 425849108550701	Trout Creek	Lat 42°58'49", long 108°55'07", in SE¼ NW¼ NE¼ sec.18, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 180 ft down- stream from Trout Creek, and 2.5 mi southwest of Ft. Washakie.		1991	5-20-92 7-02-92 8-12-92	169 129 137
Coolidge Canal below Trout Creek 430045108480001	Little Wind River	Lat 43°00'45", long 108°48'00", in SE¼ SW¼ SE¼ sec.31, T.1 N., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 0.9 mi downstream from Trout Creek, 0.4 mi upstream from bridge on light-duty road, and 1.6 mi southwest of Ethete.		1989-91	5-20-92 7-01-92 8-18-92	116 110 81.3
37-C Lateral 425716108520401	Little Wind River	Lat 42°57'16", long 108°52'04", in SW¼ SE¼ SW¼ 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.		1988-91	5-20-92 7-02-92 8-18-92	43.8 33.5 41.4
Ray Reservoir Outlet 425713108485601	Little Wind River	Lat 42°57'13", long 108°48'56", in SE¼ SE¼ SE¼ 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.		1989-91	5-21-92 7-02-92 8-12-92	69.0 .59 70.0

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Yellowstone River Basin--Continued						
Ray Canal at Siphon 425709108521201	Little Wind River	Lat 42°57'09", long 108°52'12", in NE¼ NW¼ NW¼ 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.		1988-91	5-20-92 7-02-92 8-18-92	117 88.0 81.6
Mill Creek below Coolidge Canal 425710108460701	Little Wind River	Lat 42°57'10", long 108°46'07", in NW¼ NE¼ NW¼ 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.		1988-91	4-07-92 5-19-92 7-08-92 8-12-92	3.25 50.2 87.3 74.1
14-B Lateral below Mill Creek 425955108405301	Little Wind River	Lat 42°59'55", long 108°40'53", in SE¼ SW¼ SE¼ sec.6, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 150 ft down- stream from headworks, 500 ft upstream from culvert on 17-Mile Road, and 5 mi southeast of Ethete.		1991	5-20-92 7-01-92 8-18-92	44.5 3.14 50.6
Mill Creek below 14-B Lateral 425956108405201	Little Wind River	Lat 42°59'56", long 108°40'52", in SE¼ SW¼ SE¼ 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	5-20-92 7-07-92 8-18-92	51.0 118 107
65-C Lateral at Headworks 425515108485401	Little Wind River	Lat 42°55'15", long 108°48'54", in NE¼ SE¼ NE¼ 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.		1988-91	5-13-92 7-07-92 8-17-92	32.2 31.0 35.4
65-C-19 Lateral at Headworks 425524108465701	Coolidge Canal	Lat 42°55'24", long 108°46'57", in NW¼ NW¼ NE¼ sec.5, T.2 S., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 235 ft down- stream from headworks, 0.6 mi east of U.S. Highway 287, and 33 mi north of Milford.		1991	5-19-92 8-17-92	29.7 23.8
Ray Canal below 65 "C" Lateral 425513108485801	Little Wind River	Lat 42°55'13", long 108°48'58", in NE¼ SE¼ NE¼ 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.		1988-91	5-13-92 7-07-92 8-17-92	13.9 9.62 11.1
Sub Agency Canal at Auxillary Gage 425857108352101	Little Wind River	Lat 42°58'57", long 108°35'21", in NE¼ NE¼ NW¼ sec.13, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 0.1 mi downstream from State Highway 137, 1.7 mi downstream from headgates, and 5.3 mi northwest of Arapahoe.		1988-91	5-20-92 7-02-92 8-14-92	93.6 114 98.5
Baldwin Creek	Middle Popo Agle River	Lat 42°50'53", long 108°44'58", in NE¼ SW¼ SE¼ sec.12, T.33 N., R.100 W., Fremont County, Hydrologic Unit 10080003, at culvert on U.S. Highway 287, in Lander, 1.1 mi upstream from confluence with Squaw Creek, and 2.0 mi northwest of intersection of U.S. Highway 287 and State Highway 789.		1991	10-15-91 11-12-91 3-16-92 4-08-92 5-18-92	9.57 5.01 4.22 3.44 6.47

Discharge measurements made at special study and miscellaneous sites during water year 1992--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Yellowstone River Basin--Continued						
Squaw Creek	Baldwin Creek	Lat 42°50'36", long 108°44'47", in SE¼ NE¼ SE¼ sec.12, T.33 N., R.100 W., Fremont County, Hydrologic Unit 10080003, at culvert on U.S. Highway 287, in Lander, about 1 mi upstream from mouth, and 1.6 mi northwest of intersection of U.S. Highway 287 and State Highway 789.		1991	10-15-91	10.1
					11-12-91	5.93
					3-16-92	5.03
					4-08-92	4.24
					5-18-92	7.79
Red Creek	South Fork Owl Creek	Lat 43°42'23", long 108°39'04", in NW¼ NW¼ NE¼ sec.4, T.8 N., R.2 E., Hot Springs County, Hydrologic Unit 10080007, Wind River Indian Reservation, at culvert on Hot Springs County Road 1, 1.2 mi south-east of Embar, and 1.5 mi upstream from confluence with Cottonwood Creek.		1991	10-17-91	3.57
					11-14-91	5.57
					3-18-92	3.10
					4-10-92	4.20
					5-21-92	2.06
Mud Creek	Owl Creek	Lat 43°38'58" long 108°24'07", in SE¼ SE¼ SW¼ sec.21, T.8 N., R.4 E., Hot Springs County, Hydrologic Unit 10080007, Wind River Indian Reservation, at culvert on dirt trail, 1.8 mi upstream from Spring Creek, 2.2 mi downstream from South Fork Mud Creek, and 9.5 mi west of Thermopolis.		1991	10-17-91	1.16
					11-14-91	2.36
					3-18-92	2.20
					4-10-92	1.06
					5-21-92	.64
Tongue River 06297480	Yellowstone River	Lat 44°50'45", long 107°19'56", in SE¼ NE¼ NW¼ sec.10, T.56 N., R.87 W., Sheridan County, Hydrologic Unit 10090101, at footbridge, 0.2 mi upstream from Tongue Canyon Campground, 1.0 mi upstream from diversion to Highline ditch, and 3.8 mi southwest of Dayton.	202	1974	10-12-91	75.6
				1975-79#		
				1985		
				1991		
Rapid Creek	Goose Creek	Lat 44°39'37", long 107°10'01", in NW¼ NE¼ NW¼ sec.13, T.54 N., R.86 W., Sheridan County, Hydrologic Unit 10090101, at Bighorn National Forest boundary, 0.8 mi upstream from Big Goose and Beaver Ditch diversion, and 8.6 mi west of Big Horn.		1974-75	10-11-91	.96
				1985-86		
Rapid Creek	Goose Creek	Lat 44°39'47", long 107°09'40", in NE¼ SW¼ SE¼ sec.12, T.54 N., R.86 W., Sheridan County, Hydrologic Unit 10090101, 0.3 mi downstream from Bighorn National Forest boundary, 0.5 mi upstream from Big Goose Creek and Beaver Ditch diversions, and 8.2 mi west of Big Horn. Discharge includes flow in two ditches that divert water upstream from this site.		1974-75	10-11-91	1.28
				1985-86		
Clear Creek	Powder River	Lat 44°19'15", long 106°49'52", in NE¼ SE¼ NW¼ sec.10, T.50 N., R.83 W., Johnson County, Hydrologic Unit 10090206, 0.5 mi east of Bighorn National Forest boundary, 1.3 mi downstream from Grommund Creek, and 7.2 mi west of Buffalo.		1974-75	10-14-91	33.5
				1985		
Clear Creek	Powder River	Lat 44°19'23", long 106°49'40", in NE¼ NW¼ NE¼ sec.10, T.50 N., R.83 W., Johnson County, Hydrologic Unit 10090206, 0.6 mi east of Bighorn National Forest boundary, 1.0 mi upstream from Mosier Gulch, and 7.0 mi west of Buffalo.		1974-75	10-14-91	30.4
				1985		
Cheyenne River Basin						
Inyan Kara Creek 06427700	Belle Fourche River	Lat 44°13'45", long 104°26'45", in S¼ sec.17, T.49 N., R.63 W., Crook County, Hydrologic Unit 10120201, at bridge on State Highway 116 and 13.0 mi northeast of Upton.	96.5	1959-85	12-10-91	1.91

Operated at a continuous-record gaging station.

Discharge measurements made at special study and miscellaneous sites during water year 1992--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Platte River Basin						
Carlson Creek	Rock Creek	Lat 41°29'40", long 106°16'42", T.18 N., R.79 W. (unsurveyed), Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, upstream from diversion into Carlson Canal.			04-24-92	0.73
					06-09-92	6.74
					06-09-92	6.61
					07-09-92	1.58
					08-10-92	.68
					09-08-92	1.24
Carlson Creek Canal	Carlson Creek	Lat 41°30'50", long 106°17'19", T.18 N., R.79 W. (unsurveyed), Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, at culvert crossing forest road, and 7.1 mi southwest of Arlington.			07-09-92	.21
					08-10-92	.02
Carlson Creek Canal	Carlson Creek	Lat 41°30'40", long 106°17'18", T.18 N., R.79 W. (unsurveyed), Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, ½ mi upstream from culvert crossing on forest road, and 7.3 mi southwest of Arlington. Flow in canal 90 ft upstream from breakout.			06-09-92	.63
Boles Spring	Little Medicine Bow River	Lat 41°57'40", long 106°12'31", in NW¼ SW¼ SW¼ sec.17, T.23 N., R.78 W., Carbon County, Hydrologic Unit 10180005, 3.9 mi downstream from State Highway 487, and 4.3 mi north of Medicine Bow.		1985 1988-91	12-06-91	.37
					09-08-92	.38
Box Elder Creek	North Platte River	Lat 42°45'22", long 105°46'52", in SE¼ sec.12, T.32 N., R.75 W., Converse County, Hydrologic Unit 10180007, Converse County Park, at Madison- Precambrian Contact, 1.5 mi upstream from canals at canyon mouth, and 8.3 mi southeast of Glenrock.		1974-75 1981-85 1991	11-12-91	6.12
Box Elder Creek	North Platte River	Lat 42°45'46", long 105°46'35", in NW¼ NW¼ sec.7, T.32 N., R.74 W., Converse County, Hydrologic Unit 10180007, Converse County Park, at Madison-Casper Contact, 0.8 mi upstream from canals at canyon mouth, and 8.1 mi southeast of Glenrock.		1974-75 1981-85 1991	11-12-91	6.94
Box Elder Creek	North Platte River	Lat 42°46'11", long 105°46'21", in SW¼ sec.6, T.32 N., R.74 W., Converse County, Hydrologic Unit 10180007, Converse County Park, 0.1 mi upstream from canals at canyon mouth, and 7.8 mi southeast of Glenrock.	138	1981-84#	11-12-91	6.42
Box Elder Creek	North Platte River	Lat 42°46'19", long 105°46'19", in W¼ sec.6, T.32 N., R.74 W., Converse County, Hydrologic Unit 10180007, at Converse County Park boundary, 20 ft upstream from canals at canyon mouth, and 7.6 mi southeast of Glenrock.		1981-85 1991	11-12-91	7.82

Operated as a continuous-record gaging station.

Water-quality miscellaneous sites are locations where chemical-quality, biological and/or sediment data are collected on a limited frequency and are not expected to be monitored for a long-term basis. Water-quality analyses that are collected as part of a special study may be grouped under a title descriptive of that study and may be listed in order of increasing magnitude of the station number (latitude/longitude and/or eight digit downstream order number) rather than in the conventional downstream order.

YELLOWSTONE RIVER BASIN

06228510 RAY CANAL AT HEADWORKS, NEAR FORT WASHAKIE, WY (LAT 43 00 02 LONG 108 55 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 10...	1600	185	77	8.4	21.0	616	6.9	96	34	9.1
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
AUG 10...		2.7	1.8	0.1	0.6	35	1.4	3.9	<0.1	39
DATE		SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)
AUG 10...		0.05	19.5	40	<0.01	<0.05	<0.01	0.01	<1	310
DATE		CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
AUG 10...		<1.0	10	1	<1	<0.1	<1	<1	2	21
DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
AUG 10...	1600	185	21.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

425713108485601 RAY RESERVOIR OUTLET NEAR WIND RIVER, WY (LAT 42 57 13 LONG 108 48 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 10...	1800	17	762	8.5	21.0	621	7.1	99	240	53

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
AUG 10...	27	67	2	2.1	113	7.3	260	0.2	477

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)
AUG 10...	0.65	21.9	485	<0.01	0.06	0.01	<0.01	<1	90

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
AUG 10...	<1.0	<1	1	<1	<0.1	1	2	2	4

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-DON) VEL D TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 10...	1800	17	21.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425646108473901 UNNAMED DRAIN TO MILL CREEK ON ETHETE ROAD, NEAR FORT WASHAKIE, WY (LAT 42 56 46 LONG 108 47 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 11...	1130	1.3	1110	8.1	23.0	626	8.2	118	290	50

YELLOWSTONE RIVER BASIN--Continued

425646108473901 UNNAMED DRAIN TO MILL CREEK ON ETHETE ROAD, NEAR FORT WASHAKIE, WY--Continued
(LAT 42 56 46 LONG 108 47 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 11...	39	140	4	3.3	201	7.3	370	0.2	764

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 11...	1.04	2.68	741	<0.01	<0.05	0.04	0.15	2	190

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 11...	<1.0	<1	1	<1	<0.1	<1	<1	9	6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- DON) VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 11...	1130	1.3	23.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425730108461201 MCCARKEY DRAIN ABOVE COOLIDGE CANAL, NEAR WIND RIVER, WY (LAT 42 57 30 LONG 108 46 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 11...	1530	0.20	1220	7.6	22.5	626	6.4	91	610	130	

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 11...	70	43	0.8	3.3	128	15	540	0.4	918

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

425730108461201 MCCARKEY DRAIN ABOVE COOLIDGE CANAL, NEAR WIND RIVER, WY (LAT 42 57 30 LONG 108 46 12)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 11...	1.25	0.5	879	<0.01	<0.05	0.02	0.04	1	80

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 11...	<1.0	<1	1	<1	<0.1	1	3	5	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 11...	1530	0.20	22.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

430045108480001 COOLIDGE CANAL BELOW TROUT CREEK, NEAR ETHETE, WY (LAT 43 00 45 LONG 108 48 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 11...	0930	42	315	8.3	18.0	627	8.0	103	130	32

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 11...	11	15	0.6	1.4	89	3.6	67	0.2	175

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 11...	0.24	19.8	187	<0.01	<0.05	<0.01	0.02	1	80

YELLOWSTONE RIVER BASIN--Continued

430045108480001 COOLIDGE CANAL BELOW TROUT CREEK, NEAR ETHETE, WY (LAT 43 00 45 LONG 108 48 00)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 11...	<1.0	<1	1	<1	0.1	<1	<1	3	6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 11...	0930	42	18.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

430114108431001 ETHETE DRAIN ABOVE LITTLE WIND RIVER, NEAR ETHETE, WY (LAT 43 01 14 LONG 108 43 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 11...	1330	0.30	1270	8.2	18.5	630	7.9	103	450	110

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 11...	42	110	2	4.2	229	9.3	450	0.7	892

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 11...	1.21	0.72	869	<0.01	<0.05	0.01	0.05	1	290

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 11...	<1.0	<1	<1	<1	0.1	1	<1	4	<3

YELLOWSTONE RIVER BASIN--Continued

425901108372101 SHARP NOSE DRAIN ABOVE LITTLE WIND RIVER, NEAR ARAPAHOE, WY (LAT 42 59 01 LONG 108 37 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 12...	0930	5.3	1170	8.1	12.0	632	9.9	111	450	98

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
AUG 12...	50	81	2	4.3	237	9.6	360	0.9	788

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)
AUG 12...	1.07	11.3	748	0.02	0.52	<0.01	0.02	<1	180

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
AUG 12...	<1.0	<1	1	<1	<0.1	3	3	3	3

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 12...	0930	5.3	12.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425850108355001 SHARPNSE DRAW NEAR MOUTH, NEAR ARAPAHOE, WY (LAT 42 58 50 LONG 108 35 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
AUG 12...	1030	3.2	1390	8.2	13.5	633	8.7	101	470	99

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

425850108355001 SHARPNOSE DRAW NEAR MOUTH, NEAR ARAPAHOE, WY (LAT 42 58 50 LONG 108 35 50)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 12...	55	130	3	6.7	262	17	470	0.5	988

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- *SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 12...	1.34	8.54	941	0.02	1.20	0.03	0.17	2	230

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 12...	<1.0	<1	<1	<1	<0.1	2	4	5	5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 12...	1030	3.2	13.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425857108352101 SUB AGENCY CANAL AT AUXILIARY GAGE, NEAR ARAPAHOE, WY (LAT 42 58 57 LONG 108 35 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 12...	1145	61	737	8.6	19.0	631	10.0	131	290	67

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 12...	29	46	1	2.6	162	7.2	210	0.5	425

YELLOWSTONE RIVER BASIN--Continued

425857108352101 SUB AGENCY CANAL AT AUXILIARY GAGE, NEAR ARAPAHOE, WY (LAT 42 58 57 LONG 108 35 21)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHOPHOSPHATE, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 12...	0.58	70.0	460	<0.01	<0.05	<0.01	0.01	1	120

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)	SELENIUM, DIS- SOLVED (UG/L AS SE)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 12...	<1.0	<1	<1	<1	0.1	1	1	3	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- DON) VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 12...	1145	61	19.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425803108295601 BLUE CLOUD ROAD DRAIN NEAR ARAPAHOE, WY (LAT 42 58 03 LONG 108 29 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATURATION)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 12...	1300	3.2	1050	8.0	17.0	635	10.2	128	390	100

DATE	MAGNESIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORPTION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY LAB (MG/L AS CaCO3)	CHLORIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 12...	34	79	2	3.9	248	9.1	300	0.8	721

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHOPHOSPHATE, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 12...	0.98	6.23	686	0.01	2.3	0.03	0.07	2	160

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

425803108295601 BLUE CLOUD ROAD DRAIN NEAR ARAPAHOE, WY (LAT 42 58 03 LONG 108 29 56)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 12...	<1.0	<1	1	<1	<0.1	2	4	12	5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 12...	1300	3.2	17.0	0.20	<0.01	<0.01	<0.01	<0.01	<0.01

425744108294901 ARAPAHOE POND WETLAND NEAR ARAPAHOE, WY (LAT 42 57 44 LONG 108 29 49)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	
AUG 12...	1400	1100	8.1	20.0	635	15.0	200	400	92	41	92	2
SEP 09...	1520	1140	8.1	15.0	636	8.8	105	450	110	42	92	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINE- LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
AUG 12...	3.5	255	9.6	320	0.8	740	1.01	712	<0.01	<0.05	0.04	<0.01
SEP 09...	3.9	301	9.7	320	0.9	784	1.07	759	<0.01	<0.05	0.04	<0.01

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	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)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 12...	2	190	<1.0	<1	<1	<1	<0.1	2	<1	6	3
SEP 09...	2	170	<1.0	<1	2	<1	0.2	1	1	3	<3

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

425852108252201 ST STEPHENS DRAIN NEAR MOUTH, NEAR RIVERTON, WY (LAT 42 58 52 LONG 108 25 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 13...	0800	2.9	1160	8.1	13.0	635	8.4	96	400	110

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
AUG 13...	31	98	2	2.9	287	11	310	0.7	794

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)
AUG 13...	1.08	6.22	738	<0.01	0.56	0.03	0.03	3	160

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
AUG 13...	<1.0	<1	<1	<1	<0.1	2	2	11	4

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-DON) VEL D TOTAL (UG/L)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 13...	0800	2.9	13.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

425923108245301 DRAIN BELOW ORE PILE, WIND RIVER INDIAN RESERVATION, WY (LAT 42 59 23 LONG 108 24 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 13...	0930	1.5	914	7.8	17.0	636	5.2	65	290	81

YELLOWSTONE RIVER BASIN--Continued

425923108245301 DRAIN BELOW ORE PILE, WIND RIVER INDIAN RESERVATION, WY (LAT 42 59 23 LONG 108 24 53)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 13...	21	89	2	3.7	280	12	200	0.6	601

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 13...	0.82	2.43	575	<0.01	<0.05	<0.01	0.02	2	120

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 13...	<1.0	<1	<1	<1	<0.1	1	<1	5	5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- DON) VEL D TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 13...	0930	1.5	17.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY (LAT 43 26 30 LONG 109 27 29)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 20...	1130	367	253	8.6	17.0	600	7.8	103	110	31	

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 20...	8.5	8.5	0.3	2.5	114	1.5	22	0.2	157

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY (LAT 43 26 30 LONG 109 27 29)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 20...	0.21	156	143	<0.01	<0.05	0.02	0.02	1	20

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 20...	<1.0	<1	1	<1	<0.1	<1	<1	3	5

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 20...	1130	367	17.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

06222510 DRY CREEK CANAL AT HEADGATE, NEAR BURRIS, WY (LAT 43 20 38 LONG 109 17 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 20...	1400	204	40	8.2	18.0	600	7.8	105	17	4.8

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 20...	1.3	0.7	0.1	0.6	19	0.2	2.5	<0.1	21

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 20...	0.03	11.6	22	<0.01	<0.05	0.03	<0.01	<1	<10

YELLOWSTONE RIVER BASIN--Continued

06222510 DRY CREEK CANAL AT HEADGATE, NEAR BURRIS, WY (LAT 43 20 38 LONG 109 17 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 20...	<1.0	<1	<1	<1	<0.1	<1	<1	<1	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 20...	1400	204	18.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

432050109115601 LITTLE COTTONWOOD DRAIN NEAR CROWHEART, WY (LAT 43 20 50 LONG 109 11 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 21...	1130	21	408	8.4	18.0	610	10.4	138	190	50

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 21...	16	14	0.4	2.6	170	1.0	55	0.3	240

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 21...	0.33	13.6	241	<0.01	<0.05	0.02	0.03	1	50

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 21...	<1.0	<1	1	1	<0.1	1	<1	4	4

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

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YELLOWSTONE RIVER BASIN--Continued

431945109115501 KANE DRAW NEAR CROWHEART, WY (LAT 43 19 45 LONG 109 11 55)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 24...	1000	15	342	8.2	13.0	610	8.7	104	150	39

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
AUG 24...	12	21	0.8	1.8	174	0.6	18	0.7	212

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)
AUG 24...	0.29	8.59	198	<0.01	0.07	0.02	0.02	1	70

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
AUG 24...	<1.0	<1	<1	<1	<0.1	2	<1	3	<3

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DICAMBA (MED-IBEN) (BAN-DON) VEL D) TOTAL (UG/L)	PICLO-RAM (TOR-DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 24...	1000	15	13.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

431911109094101 44-C DRAW NEAR CROWHEART, WY (LAT 43 19 11 LONG 109 09 41)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
AUG 24...	1245	15	383	8.4	16.0	613	7.9	100	170	42

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

431911109094101 44-C DRAW NEAR CROWHEART, WY (LAT 43 19 11 LONG 109 09 41)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 24...	16	21	0.7	2.2	200	0.7	16	0.6	240

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 24...	0.33	9.72	219	<0.01	0.12	0.01	0.02	1	70

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 24...	<1.0	<1	<1	<1	<0.1	1	<1	6	4

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- DON) VEL D) (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 24...	1245	15	16.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

431758109082301 WILLOW CREEK ABOVE WIND RIVER, NEAR CROWHEART, WY (LAT 43 17 58 LONG 109 08 23)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG 24...	1545	28	339	8.6	18.0	615	8.0	105	160	46	

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
AUG 24...	12	7.2	0.2	1.2	119	0.7	64	0.3	214

YELLOWSTONE RIVER BASIN--Continued

431758109082301 WILLOW CREEK ABOVE WIND RIVER, NEAR CROWHEART, WY (LAT 43 17 58 LONG 109 08 23)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
AUG 24...	0.29	16.2	203	<0.01	<0.05	0.02	<0.01	1	30

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
AUG 24...	<1.0	<1	<1	<1	<0.1	1	<1	2	6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
AUG 24...	1545	28	18.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNEAR, WY (LAT 43 09 02 LONG 108 43 41)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CAO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
SEP 08...	1440	11	231	8.6	16.0	620	9.1	114	98	27

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
SEP 08...	7.5	11	0.5	1.6	89	3.3	35	0.2	132

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
SEP 08...	0.18	3.92	139	<0.01	<0.05	0.02	<0.01	1	20

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNEAR, WY (LAT 43 09 02 LONG 108 43 41)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 08...	1.0	<1	1	<1	0.2	<1	<1	2	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 08...	1440	11	16.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

430636108410701 18-A DRAIN NEAR KINNEAR, WY (LAT 43 06 36 LONG 108 41 07)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SEP 09...	1100	E0.10	740	7.9	10.0	633	9.2	99	360	110	20	28
E-Estimate.												

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CA CO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
SEP 09...	0.6	5.2	332	6.7	89	0.4	458	0.62	466	0.01	1.8	0.02

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	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)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 09...	<0.01	2	60	2.0	<1	<1	<1	0.2	<1	<1	2	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 09...	1100	E0.10	10.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

E-Estimate.

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

434227108425401 SOUTH FORK OWL CREEK AT BRIDGE ON HIGHWAY 170, NEAR THERMOPOLIS, WY (LAT 43 42 27 LONG 108 42 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 14...	1000	0.75	1710	7.6	4.5	1.0	950	290	55	69

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 14...	1	3.2	203	1000	5.0	0.3	0.05	15	1560

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 14...	2.12	3.16	<0.05	<1	36	100	-133.0	-17.05	13.00

434250108402101 SOUTH FORK OWL CREEK NEAR EMBAR, WY (LAT 43 42 50 LONG 108 40 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 13...	1300	2.1	1560	7.2	3.5	1.5	800	240	49	83

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 13...	1	4.2	240	660	7.1	0.3	0.03	19	1210

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 13...	1.64	6.84	<0.05	<1	9	110	-130.0	-16.60	12.80

YELLOWSTONE RIVER BASIN--Continued

434223108390401 REN CREEK AT HIGHWAY 170 CROSSING, BELOW EMBAR, WY (LAT 43 42 23 LONG 108 39 04)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 15...	0830	4.6	361	6.7	0.5	0.5	230	52	24	4.5

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 15...	0.1	1.5	204	37	2.9	0.2	<0.01	9.1	254

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 15...	0.35	3.15	0.08	<1	16	170	-139.0	-18.15	7.40

434326108355101 SOUTH FORK OWL CREEK AT TRAILER, NEAR HAMILTON DOME, WY (LAT 43 43 26 LONG 108 35 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 15...	1100	6.8	910	6.6	1.5	2.0	430	110	37	48

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 15...	1	2.8	256	310	5.1	0.2	0.02	16	683

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 15...	0.93	12.5	<0.05	<1	20	150	-136.0	-17.60	9.10

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

434204108473201 NORTH FORK OWL CREEK ABOVE RATTLESNAKE CREEK, NEAR ANCHOR DAM, WY (LAT 43 42 04 LONG 108 47 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)
NOV 13...	0730	5.4	330	7.0	0.5	4.0	88	25	6.3	46

DATE	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 13...	2	1.6	130	56	2.2	0.2	0.02	26	241

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 13...	0.33	3.52	<0.05	3	<4	99	-129.0	-16.70	-0.9

434406108393201 NORTH FORK OWL CREEK IN SECTION 31, NEAR EMBAR, WY (LAT 43 44 06 LONG 108 39 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)
NOV 13...	1230	5.2	463	6.9	0.5	9.0	140	40	9.1	55

DATE	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
NOV 13...	2	2.0	171	100	3.0	0.3	<0.01	24	336

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 13...	0.46	4.72	<0.05	2	8	99	-128.0	-16.35	-4.70

YELLOWSTONE RIVER BASIN--Continued

434357108342201 NORTH FORK OWL CREEK AT KNOB, ABOVE ARAPAHOE RANCH, NEAR HAMILTON DOME, WY
(LAT 43 43 57 LONG 108 34 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 13...	1600	5.8	655	7.0	1.5	5.0	190	53	15	85

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 13...	3	2.4	193	200	3.1	0.3	0.01	24	499

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 13...	0.68	7.81	<0.05	2	16	92	-127.0	-16.35	-8.70

434327108320501 OWL CREEK AT ARAPAHOE RANCH, NEAR HAMILTON DOME, WY (LAT 43 43 27 LONG 108 32 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 15...	1400	16	940	7.6	3.0	4.0	400	100	36	76

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 15...	2	2.8	253	260	6.3	0.2	0.03	20	653

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 15...	0.89	28.2	<0.05	1	20	130	-133.0	-17.10	2.90

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

434207108281701 OWL CREEK AT MIDDLETON SCHOOL, NEAR HAMILTON DOME, WY (LAT 43 42 07 LONG 108 28 17)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 15...	1615	13	1170	7.2	3.5	3.0	450	110	43	110

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 15...	2	3.2	277	380	9.5	0.3	0.04	21	843

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 15...	1.15	29.6	<0.05	1	27	140	-131.0	-17.05	0.80

434134108275701 PUMPKIN DRAW NEAR THOMPSON RESERVOIR, NEAR THERMOPOLIS, WY (LAT 43 41 34 LONG 108 27 57)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 16...	1145	0.21	1450	7.9	0.5	3.5	510	140	39	190

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 16...	4	4.9	287	560	7.2	0.6	0.06	21	1140

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 16...	1.55	0.65	0.87	2	77	79	-130.0	-16.80	-8.80

YELLOWSTONE RIVER BASIN--Continued

434037108225201 PUMPKIN CREEK AT DITCH, NEAR THOMPSON RESERVOIR, NEAR THERMOPOLIS, WY
(LAT 43 40 37 LONG 108 22 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 16...	1430	0.02	3400	6.9	2.0	6.0	920	210	96	490

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 16...	7	4.8	405	1600	17	0.9	0.09	32	2690

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 16...	3.66	0.15	<0.05	<1	220	140	-132.0	-16.95	-3.70

434104108200501 MUD CREEK AT MOUTH, NEAR THERMOPOLIS, WY (LAT 43 41 04 LONG 108 20 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 16...	1600	0.06	3500	7.6	0.5	3.5	1700	370	180	280

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV 16...	3	7.8	338	2000	16	0.5	0.10	13	3070

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	LITHIUM DIS-SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 16...	4.18	0.51	0.23	<1	110	94	-133.0	-16.75	5.20

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

YELLOWSTONE RIVER BASIN--Continued

434128108233301 OWL CREEK AT STEEL BUILDING, NEAR THOMPSON RESERVOIR, NEAR THERMOPOLIS, WY
(LAT 43 41 28 LONG 108 23 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 17...	0930	4.0	1640	7.6	0.5	-0.5	580	140	56	180

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 17...	3	4.0	336	610	12	0.4	0.05	23	1230

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	LITHIUM DIS- SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 17...	1.67	13.3	<0.05	<1	39	130	-132.0	-17.00	-1.60

434106108180401 OWL CREEK AT HIGHWAY 120, NEAR THERMOPOLIS, WY (LAT 43 41 06 LONG 108 18 04)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 17...	1130	15	2630	7.8	0.5	7.0	950	200	110	340

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 17...	5	5.4	367	1300	19	0.6	0.08	25	2220

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	LITHIUM DIS- SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 17...	3.02	90.0	0.20	<1	100	130	-131.0	-16.75	-5.50

YELLOWSTONE RIVER BASIN--Continued

434112108160901 OWL CREEK AT SAND POINTS, NEAR THERMOPOLIS, WY (LAT 43 41 12 LONG 108 16 09)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 17...	1400	17	2550	7.6	1.0	7.0	890	190	100	320

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 17...	5	5.2	350	1100	15	0.5	0.08	24	1970

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	LITHIUM DIS- SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 17...	2.67	90.2	0.17	2	90	120	-131.0	-16.75	-5.20

434206108133501 OWL CREEK AT SUNNYSIDE LANE, NEAR THERMOPOLIS, WY (LAT 43 42 06 LONG 108 13 35)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 17...	1600	18	2440	7.9	2.0	-1.0	870	190	97	310

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 17...	5	5.4	344	1100	15	0.4	0.08	24	1950

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	LITHIUM DIS- SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
NOV 17...	2.65	94.7	0.19	<1	80	130	-130.0	-16.70	-4.20

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

BEDLOAD SEDIMENT SAMPLING

All bedload samples were collected using a Helley-Smith type sampler of sheet-metal construction, 3.22 flare, 3 inch square nozzle, and equipped with 0.25 mm mesh collection bag.

YELLOWSTONE RIVER BASIN

06227600 WIND RIVER NEAR KINNEAR, WY (LAT 43 08 34 LONG 108 42 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GAGE HEIGHT (FEET)	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS (COUNT)	SAMPLER TYPE (CODE)	SAM- PLING METHOD, CODES	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN											
24...	1300	247	2630	5.80	19.5	24	--	10	5600	39800	45
24...	1335	247	2280	5.67	19.5	24	--	10	6590	40600	--
SEP											
03...	1345	191	513	4.64	16.0	20	3001	10	156	216	56
03...	1355	192	781	4.88	16.5	20	3001	10	934	1970	50
03...	1420	193	975	5.02	17.0	20	3001	10	1700	4480	55
03...	1430	193	945	5.00	17.0	20	3001	10	1640	4180	--
03...	1515	192	719	4.83	18.0	20	3001	10	1250	2430	72
03...	1525	192	695	4.81	18.0	20	3001	10	1170	2200	--

DATE	TIME	STREAM WIDTH (FT)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GAGE HEIGHT (FEET)	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS (COUNT)	SAMPLER TYPE (CODE)	SAM- PLING METHOD, CODES	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	BAG MESH SIZE BEDLOAD SAMPLER (MM)
JUN										
24...	1255	247	2630	5.80	19.5	24	1100	1000	119	0.25
24...	1350	247	2040	5.57	19.5	24	1100	1000	430	0.25
SEP										
03...	1350	191	584	4.71	16.0	18	1130	1000	61	0.25
03...	1405	192	931	4.99	16.5	18	1130	1000	67	0.25
03...	1425	193	960	5.01	17.0	18	1130	1000	61	0.25
03...	1440	193	902	4.97	17.0	18	1130	1000	65	0.25
03...	1520	192	695	4.81	18.0	18	1130	1000	55	0.25
03...	1535	192	649	4.77	18.0	18	1130	1000	69	0.25

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JUN									
24...	4	14	37	91	99	100	--	--	--
24...	1	6	23	84	100	--	--	--	--
SEP									
03...	0.7	1	16	74	98	100	--	--	--
03...	1	4	10	78	96	98	100	--	--
03...	2	5	33	81	97	99	100	--	--
03...	0.8	2	22	76	97	98	100	--	--
03...	0.8	2	22	64	81	84	85	86	100
03...	0.4	0.9	4	60	96	100	--	--	--

BEDLOAD SEDIMENT SAMPLING--Continued

YELLOWSTONE RIVER BASIN--Continued

431252108520501 WIND RIVER AT SWINGING BRIDGE, NEAR MORTON, WY (LAT 43 12 52 LONG 108 52 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	STREAM DEPTH, MEAN (FT)	STREAM VELOC- ITY, MEAN (F/S)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS (COUNT)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 24...	1030	222	2.7	4.40	2590	--	54	6530	45700
SEP 03...	1035	145	2.3	5.06	1710	15.0	22	4260	19700

DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM
JUN 24...	30	40	0.25	3	9	20	75	98	100	
SEP 03...	28	49	0.25	2	9	42	95	99	100	

431319108565401 WIND RIVER BELOW DIVERSION DAM, NEAR MORTON, WY (LAT 43 13 19 LONG 108 56 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	STREAM DEPTH, MEAN (FT)	STREAM VELOC- ITY, MEAN (F/S)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS (COUNT)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN 24...	0920	155	3.3	4.68	2380	18.0	11	29300	188000	12
JUN 24...	1000	140	3.0	4.51	1900	18.0	11	25100	129000	--
SEP 03...	0930	160	2.0	4.19	1370	15.0	8	11300	41800	15
SEP 03...	1000	152	1.7	4.19	1060	15.0	8	5500	15700	11
SEP 03...	1045	139	0.88	3.02	371	15.0	13	2910	2910	30

DATE	TIME	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM
JUN 24...	764	0.25	7	37	75	93	98	99	100	
JUN 24...	--	0.25	--	--	--	--	--	--	--	
SEP 03...	247	0.25	4	25	80	96	99	100	--	
SEP 03...	555	0.25	2	16	78	95	99	100	--	
SEP 03...	128	0.25	3	16	78	97	99	100	--	

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

BEDLOAD SEDIMENT SAMPLING--Continued

SNAKE RIVER BASIN

13012500 SPREAD CREEK NEAR MORAN, WY (LAT 43 47 26 LONG 110 32 14)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	NUMBER OF SAM- PLING POINTS (COUNT)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TUR- BID- ITY (NTU)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SAMPLER TYPE (CODE)
JUN										
02...	0735	--	--	26	210	7.9	0.7	9.0	12.0	--
02...	0800	28.0	27	26	--	--	--	9.0	12.0	1130
02...	0830	28.0	27	26	--	--	--	9.0	12.0	1130

DATE	SAM- PLING METHOD, CODES	BAG MESH SIZE BEDLOAD SAMPLER (MM)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SEDI- MENT, DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM
JUN										
02...	10	--	4	0.25	--	--	--	--	--	--
02...	1010	0.25	4	0.25	0.03	2	8	10	31	100
02...	1010	0.25	4	0.25	0.04	10	100	100	100	100

434714110313801 SPREAD CREEK ABOVE U.S. HIGHWAY 187, NEAR ELK, WY (LAT 43 47 14 LONG 110 31 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	NUMBER OF SAM- PLING POINTS (COUNT)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SAMPLER TYPE (CODE)	SAM- PLING METHOD, CODES	BAG MESH SIZE BEDLOAD SAMPLER (MM)
JUN										
01...	1315	--	--	26	1.9	17.0	19.0	--	30	--
01...	1345	22.0	27	26	--	17.0	19.0	1130	1010	0.25
01...	1415	22.0	27	26	--	17.0	19.0	1130	1010	0.25

DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SEDI- MENT, DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM
JUN										
01...	5	0.33	--	--	--	--	--	--	--	--
01...	5	0.33	0.03	2	4	25	75	85	90	100
01...	5	0.33	0.06	--	0.9	16	97	99	100	--

BEDLOAD SEDIMENT SAMPLING--Continued

SNAKE RIVER BASIN--Continued

434748110322901 SPREAD CREEK BELOW U.S. HIGHWAY 187, NEAR ELK, WY (LAT 43 47 48 LONG 110 32 29)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	STREAM WIDTH (FT)	NUMBER OF SAM- PLING POINTS (COUNT)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SAMPLER TYPE (CODE)	SAM- PLING METHOD, CODES	BAG MESH SIZE BEDLOAD SAMPLER (MM)
JUN										
02...	1035	--	--	28	0.7	11.0	17.0	--	30	--
02...	1055	30.0	29	28	--	11.0	17.0	1130	1010	0.25
02...	1125	30.0	29	28	--	11.0	17.0	1130	1010	0.25
DATE		SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JUN										
02...	3	0.23	--	--	--	--	--	--	--	--
02...	3	0.23	0.12	2	12	20	33	58	100	--
02...	3	0.23	0.05	1	6	10	17	53	53	100

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

FREMONT COUNTY WEED AND PEST DISTRICT STUDY

YELLOWSTONE RIVER BASIN

424807108493801 SQUAW CREEK ABOVE FERGUSON GULCH, NEAR LANDER, WY (LAT 42 48 07 LONG 108 49 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 26...	0925	1.3	3.0	<0.01	0.02	<0.01	<0.01	<0.01	<0.01

424856108484601 SQUAW CREEK ABOVE GRIMMETTS GULCH, NEAR LANDER, WY (LAT 42 48 56 LONG 108 48 46)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 26...	1105	2.9	7.0	<0.01	0.11	<0.01	<0.01	<0.01	<0.01

424858108484701 GRIMMETTS GULCH NEAR LANDER, WY (LAT 42 48 58 LONG 108 48 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 26...	1130	0.68	7.0	<0.01	0.03	<0.01	<0.01	<0.01	<0.01

FREMONT COUNTY WEED AND PEST DISTRICT STUDY--Continued

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 11...	1455	7.1	708	16.5	11	471	65	1.2
JUL 02...	1015	21	880	12.0	50	541	539	31
AUG 05...	1325	11	840	18.0	14	587	111	3.2

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 26...	1320	4.9	6.0	<0.01	0.28	<0.01	<0.01	<0.01	<0.01
FEB 24...	1440	3.5	2.0	<0.01	0.24	0.07	<0.01	<0.01	<0.01
MAY 11...	1455	7.1	16.5	0.03	0.07	0.66	<0.01	<0.01	<0.01
JUL 02...	1015	21	12.0	0.30	0.28	0.70	<0.01	<0.01	<0.01
AUG 05...	1325	11	18.0	0.10	0.35	1.4	<0.01	<0.01	<0.01

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION DRAINAGE 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE-NIUM, TOTAL (UG/L AS SE)
MAR 17...	0900	527	460	8.4	4.5	620	12.4	118	10	135	127	<1
MAY 04...	1015	560	490	8.5	9.0	635	10.2	106	7	145	131	1
JUL 15...	0945	2270	518	3.1	15.5	630	9.8	119	0	175	140	2

06643000 BATES CREEK NEAR ALCOVA, WY (LAT 42 40 34 LONG 106 36 09)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)
MAY 05...	0750	1.3	1700	8.1	11.0	630	8.8	97	730
JUL 14...	0745	1.2	1650	8.2	17.0	630	7.7	97	740

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3
MAY 05...	210	49	110	2	8.1	234	278	0	339
JUL 14...	210	52	110	2	8.5	236	270	0	330

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, TOTAL RECOV-ERABLE (UG/L AS B)	SELE-NIUM, TOTAL (UG/L AS SE)
MAY 05...	650	30	0.4	25	1250	1.70	4.38	220	5
JUL 14...	650	16	0.3	24	1230	1.68	3.99	--	7

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

424121106345301 NORTH PLATTE RIVER OXBOW BELOW BATES CREEK, NEAR ALCOVA, WY (LAT 42 41 21 LONG 106 34 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	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)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
JUN 17...	0940	1870	8.8	13.0	630	7.0	81	36	62	111	1
AUG 19...	0740	3680	7.7	15.0	635	1.4	17	0	253	207	1

06643060 POISON SPRING CREEK AT CASPER CANAL, NEAR ALCOVA, WY (LAT 42 43 33 LONG 106 39 13)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD CO3	BICAR- BONATE WATER DIS IT FIELD HCO3	ALKA- LITY WAT DIS TOT IT FIELD CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 05...	0950	0.19	2450	8.1	8.5	630	8.6	90	0	517	424	<1
JUL 14...	1130	0.22	2080	8.0	17.0	630	7.5	95	0	500	410	<1

424423106363801 RASMUS LEE LAKE NEAR ISLAND ON EAST END, NEAR GOOSE EGG, WY (LAT 42 44 23 LONG 106 36 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
			WHOLE FIELD (STAND- ARD UNITS)								
AUG 19...	0900	3720	8.6	17.0	635	9.8	124	8	238	209	68

424414106365201 RASMUS LEE LAKE NEAR OUTLET, NEAR GOOSE EGG, WY (LAT 42 44 14 LONG 106 36 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH	TEMPER- ATURE WATER (DEG C)	BARO- METRIC	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN,	CAR-	BICAR-	ALKA-	SELE- NIUM, TOTAL (UG/L AS SE)
			WATER WHOLE FIELD (STAND- ARD UNITS)		PRES- SURE (MM OF HG)		(PER- CENT SATUR- ATION)	BONATE WATER DIS IT FIELD MG/L AS CO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	
JUN 17...	1110	25000	9.2	15.0	630	9.6	127	180	183	450	250

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

424509106361801 GOOSE LAKE NEAR EAST END, NEAR GOOSE EGG, WY (LAT 42 45 09 LONG 106 36 18)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	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)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)
JUN 17...	1320	19100	9.4	19.0	628	10.0	141	288	409	815	150	34
AUG 19...	1000	20200	9.1	23.0	630	8.9	126	300	460	877	75	10

06643100 POISON SPRING CREEK NEAR ALCOVA, WY (LAT 42 42 55 LONG 106 34 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 19 ..	0800	1.2	4220	8.1	3.0	628	11.1	102	0	556	456	85
MAY 05...	1125	0.69	4750	8.3	13.5	634	10.3	121	0	576	472	78
JUL 14...	1130	0.94	4190	8.3	18.0	630	10.1	131	0	559	458	39

06643510 NORTH PLATTE RIVER ABOVE POISON SPIDER CREEK, NEAR GOOSE EGG, WY (LAT 42 46 18 LONG 106 31 48)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 17...	1150	555	580	8.4	9.0	615	9.5	102	4	165	141	2
MAY 04...	1330	580	565	8.5	16.0	635	9.0	110	5	161	140	3
JUL 15...	1545	2190	520	8.6	18.0	632	11.0	141	18	129	136	2

06643900 POISON SPIDER CREEK NEAR MILLS, WY (LAT 42 49 25 LONG 106 40 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 05...	0820	1.8	4820	8.2	10.5	629	9.1	101	0	317	260	9
JUL 14...	1000	1.5	4390	8.1	17.0	630	8.7	111	0	295	242	17

KENDRICK IRRIGATION DRAINAGE 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)
MAR 19...	0940	11	3000	8.1	6.0	630	11.8	116	--
MAY 11...	1105	18	1900	8.1	13.5	627	8.7	102	610
JUL 14...	1015	15	2240	8.3	15.0	630	9.7	118	--

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CaCO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)
MAR 19...	--	--	--	--	--	--	358	0	437
MAY 11...	130	70	260	5	7.0	249	241	0	294
JUL 14...	--	--	--	--	--	--	299	0	365

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, TOTAL RECOV-ERABLE (UG/L AS B)	SELE-NIUM, TOTAL (UG/L AS SE)
MAR 19...	--	--	--	--	--	--	--	--	85
MAY 11...	760	41	0.6	13	1430	1.94	69.3	280	44
JUL 14...	--	--	--	--	--	--	--	--	34

06644040 OREGON TRAIL DRAIN NEAR GOOSE EGG, WY (LAT 42 49 41 LONG 106 24 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)
MAR 19...	1250	1.3	6600	8.5	5.5	631	16.2	159	--
MAY 05...	1020	4.6	5000	8.4	11.0	635	9.0	100	2400
JUL 14...	1420	21	1100	8.2	21.0	631	7.2	98	400

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

06644040 OREGON TRAIL DRAIN NEAR GOOSE EGG, WY (LAT 42 49 41 LONG 106 24 51)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3
MAR 19...	--	--	--	--	--	--	400	26	434
MAY 05...	370	360	840	7	12	371	370	0	452
JUL 14...	82	47	91	2	5.1	183	205	19	211

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 19...	--	--	--	--	--	--	--	--	250
MAY 05...	3500	98	0.7	4.7	5410	7.35	67.2	1200	450
JUL 14...	370	18	0.5	12	749	1.02	42.4	--	10

06644085 NORTH PLATTE RIVER AT MILLS, WY (LAT 42 50 31 LONG 106 21 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 17...	1550	555	640	8.7	10.0	620	10.8	118	1	156	130	6
JUL 16...	0830	2400	545	8.6	16.0	638	8.0	97	18	145	149	4

430157106304701 NORTH FORK CASPER CREEK NEAR BUCKNUM, WY (LAT 43 01 57 LONG 106 30 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND
MAY 04...	1005	0.0
JUL 13...	1020	0.0

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

06644120 MIDDLE FORK CASPER CREEK NEAR BUCKNUM, WY (LAT 43 01 10 LONG 106 36 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 04...	0900	E0.05	5150	8.4	12.5	633	8.1	93	26	495	450	<1
JUL 13...	1005	0.0	--	--	--	--	--	--	--	--	--	--

E-Estimate.

430018106300201 ILLCO SEEP NEAR OUTLET, NEAR ILLCO, WY (LAT 43 00 18 LONG 106 30 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE-CIFIC CON- DUCT- ANCE (US/CM)	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, (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
JUN 18...	0915	4610	8.6	13.5	630	8.4	99	18	200	194	8
AUG 18...	0945	3750	8.3	18.0	635	7.1	92	0	306	251	10

425834106271301 CASPER CREEK ABOVE CONFLUENCE WITH SOUTH FORK CASPER CREEK, NEAR CASPER, WY (LAT 42 58 34 LONG 106 27 13)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 05...	1515	0.57	8980	8.2	26.5	633	12.0	186	0	439	360	15
JUL 13...	1440	E8.0	7500	8.3	23.5	629	18.4	271	5	417	350	10

E-Estimate.

425733106392001 SOUTH FORK CASPER CREEK ABOVE CASPER CANAL, NEAR BUCKNUM, WY (LAT 42 57 33 LONG 106 39 20)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 04...	0825	0.0	--	--	--	--	--	--	--	--	--	--
JUL 13...	0835	0.11	880	8.3	13.5	623	8.0	94	0	212	174	2

ANALYSES OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

425818106302701 THIRTY-THREE MILE RESERVOIR NEAR OUTLET, NEAR ILLCO, WY (LAT 42 58 18 LONG 106 30 27)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)
JUN 17...	1450	1250	8.5	15.5	630	9.0	110	12	195	180	4	<1
AUG 18...	1110	2560	8.3	21.0	635	7.8	106	10	231	205	11	<1

425818106293401 SOUTH FORK CASPER CREEK BELOW 33 MILE RESERVOIR, NEAR CASPER, WY (LAT 42 58 18 LONG 106 29 34)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 04...	1200	0.55	6500	8.2	16.0	634	11.6	145	0	330	270	30
JUL 13...	1100	2.1	2760	8.1	18.0	630	9.6	124	0	317	260	13

06644490 SIX MILE DRAW NEAR MILLS, WY (LAT 42 53 47 LONG 106 25 57)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAY 06...	0815	1.9	4250	8.1	8.5	634	9.6	100	0	434	356	340
JUL 14...	0750	7.4	3820	7.9	15.0	632	7.1	86	0	337	276	50

06644500 CASPER CREEK AT CASPER, WY (LAT 42 50 52 LONG 106 21 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 19...	1410	11	5650	8.2	12.0	631	10.2	117	17	410	364	150
MAY 04...	1400	6.4	5200	8.3	22.5	638	7.6	107	26	347	328	92
JUL 14...	1420	17	4150	8.4	24.0	630	7.4	109	17	336	303	45

KENDRICK IRRIGATION DRAINAGE STUDY--Continued

PLATTE RIVER BASIN--Continued

06644550 NORTH PLATTE RIVER AT CASPER, WY (LAT 42 51 26 LONG 106 19 09)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)
MAR 18...	0755	568	700	8.2	7.0	635	9.6	95	--
JUL 15...	1540	2540	593	8.6	20.0	633	8.5	113	210

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3
MAR 18...	--	--	--	--	--	--	--	--	--
JUL 15...	54	18	40	1	3.1	140	144	7	161

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 18...	--	--	--	--	--	--	--	7
JUL 15...	140	8.1	0.3	11	361	0.49	2480	2

06645000 NORTH PLATTE RIVER BELOW CASPER, WY (LAT 42 51 40 LONG 106 12 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SELE- NIUM, TOTAL (UG/L AS SE)
MAR 18...	1045	583	745	7.7	7.0	635	10.5	104	0	199	163	7
MAY 05...	1415	530	650	8.8	18.0	635	10.5	134	14	150	147	4
JUL 15...	1020	2310	585	8.7	17.0	635	8.8	110	5	162	140	3

GROUND-WATER LEVELS

GOSHEN COUNTY

414348104101301. Local number, 20-061-03dad01.

LOCATION.--Lat 41°43'48", long 104°10'13", in NE¼ SE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

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.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.95	23.66	24.06	24.11	23.67	22.79	21.80	21.29	21.17	21.50	22.09	22.88
10	23.10	23.76	24.09	24.03	23.54	22.60	21.71	21.22	21.19	21.56	22.21	22.97
15	23.17	23.82	24.13	24.04	23.41	22.40	21.61	21.19	21.19	21.59	22.32	23.09
20	23.31	23.91	24.17	24.03	23.28	22.20	21.50	21.19	21.25	21.60	22.42	23.21
25	23.44	23.95	24.18	23.95	23.13	22.03	21.44	21.18	21.32	21.75	22.54	23.36
EOM	23.57	24.02	24.16	23.80	22.98	21.93	21.33	21.17	21.44	21.82	22.64	23.52

WTR YR 1992 HIGHEST 21.15 JUNE 3 LOWEST 24.18 DEC. 21-26

LARAMIE COUNTY

41011104223102. Local number, 12-063-15aaa02.

LOCATION.--Lat 41°01'11", long 104°22'31", in NE¼ NE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, 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.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.80	26.52	24.58	23.01	21.89	21.01	20.24	21.47	24.39	22.58	27.06	28.48
10	28.42	26.15	24.32	22.83	21.72	20.89	20.26	22.55	24.43	23.12	27.53	29.44
15	28.09	25.80	24.09	22.64	21.54	20.73	20.23	23.06	24.55	23.99	28.13	29.63
20	27.94	25.45	23.73	22.43	21.41	20.62	20.07	23.65	23.58	25.33	28.06	30.06
25	27.50	25.14	23.50	22.25	21.28	20.48	20.33	24.44	23.08	25.86	27.70	29.77
EOM	26.95	24.88	23.24	22.05	21.15	20.37	20.54	24.21	22.68	25.90	27.82	29.36

WTR YR 1992 HIGHEST 20.06 APR 21 LOWEST 30.18 SEPT 21

411210104452001 Local number, 14-066-10aba01.

LOCATION.--Lat 41°12'10", long 104°45'20", in NE¼ NW¼ NE¼ 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 National Geodetic Vertical Datum of 1929, 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, 131.81 ft below land-surface datum, Aug. 31, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.31	131.07	131.03	130.93	130.97	130.71	130.93	131.64	131.23	131.38	131.70	131.52
10	131.48	131.16	130.98	131.07	130.92	131.02	130.93	131.27	131.48	131.73	131.99	131.84
15	131.17	131.01	131.29	131.13	130.85	130.96	131.14	131.42	131.19	131.61	131.87	131.62
20	131.21	131.09	131.15	131.06	130.98	130.93	131.03	131.55	131.59	131.72	131.69	131.48
25	131.01	130.98	131.03	131.06	131.23	131.02	131.48	131.64	131.49	131.65	131.72	131.47
EOM	131.14	130.97	131.03	131.15	131.02	131.08	131.29	131.45	131.19	131.77	131.57	131.97

WTR YR 1992 HIGHEST 130.55 JAN 7 LOWEST 131.91 AUG 10

GROUND-WATER LEVELS

527

NIOBRARA COUNTY

424244104202001. Local number, 32-062-32bbb01.

LOCATION.--Lat 42°42'44", long 104°20'20", in NW¼ NW¼ NW¼ 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 National Geodetic Vertical Datum of 1929, 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.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.67	34.23	33.91	33.71	---	33.41	33.15	32.99	33.51	33.66	34.46	35.66
10	34.59	34.21	33.88	33.74	---	33.25	33.11	33.00	33.94	33.74	35.02	35.66
15	34.49	34.16	33.83	33.71	---	33.29	33.09	33.17	33.96	34.22	35.88	35.89
20	34.40	34.08	33.78	33.66	---	33.21	33.07	33.73	33.80	34.37	36.26	35.65
ECM	34.34	34.00	33.86	33.61	33.28	33.18	32.99	33.55	33.65	35.25	36.02	35.80

WTR YR 1992 HIGHEST 32.93 MAY 9 LOWEST 36.50 AUG 25

PLATTE COUNTY

420613105024401. Local number, 25-068-31aaa01.

LOCATION.--Lat 42°06'13", long 105°02'44", in NE¼ NE¼ NE¼ 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 National Geodetic Vertical Datum of 1929, 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, 34.62 ft below land-surface datum, Aug. 9, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.93	27.62	27.28	27.16	27.23	27.25	27.29	28.82	30.67	32.14	34.30	---
10	28.49	27.53	27.21	27.18	27.22	27.28	27.29	29.50	30.60	31.80	---	---
15	28.37	27.48	27.27	27.21	27.21	27.24	27.38	30.05	30.84	31.62	---	---
20	28.34	27.36	27.20	27.21	27.34	27.29	27.62	30.91	31.61	32.42	---	---
25	28.07	27.30	27.27	27.19	27.38	27.35	27.74	31.11	32.09	33.37	---	---
ECM	27.84	27.29	27.21	27.20	27.37	27.30	27.93	30.65	32.28	33.70	---	---

WTR YR 1992 HIGHEST 27.14 JAN 24 LOWEST 34.62 AUG 9

QUALITY OF GROUND WATER

CAMPBELL COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
445510105590401	57-76-15ddb01	JX	125FRUN	GW	08-06-92	1140	2180	8.0

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
445510105590401		08-06-92	20.0	30	6.4	3.5	590	47	5.5	1260

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
445510105590401		08-06-92	7.4	27	2.7	8.9	1410	1.91	<0.1	0.06

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
445510105590401	57-76-15ddb01	JX	125FRUN	GW	08-06-92	1140

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
445510105590401		08-06-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

GEOLOGIC UNIT (AQUIFER)

111ALVM	HOLOCENE SERIES	124WDRV	WIND RIVER FORMATION	211ASPN	ASPEN SHALE OR FORMATION
111LDLD	LANDSLIDE DEPOSITS	124WGBD	WAGON BED FORMATION	217BRRV	BEAR RIVER FORMATION
111TRRC	TERRACE DEPOSITS	124WLWD	WILLWOOD FORMATION	217LKOT	LAKOTA FORMATION
112GLCL	GLACIAL DEPOSITS	124WSTC	WASATCH FORMATION	231CGTR	CHUGWATER FORMATION
112RYLT	RHYOLITE FLOWS	125FRUN	FORT UNION FORMATION		OR GROUP
121CPDV	CAMP DAVIS FORMATION	210CRCS	CRETACEOUS SYSTEM	311PSPR	PHOSPHORIA FORMATION
121TWNT	TEEWINOT FORMATION	211CODY	CODY SHALE	317TSLP	TENSLEEP SANDSTONE
122ARKR	ARIKAREE FORMATION	211FRNR	FRONTIER FORMATION	331MDSN	MADISON GROUP
122CLTR	COLTER FORMATION	211FXHL	FOX HILLS FORMATION	337PHSP	PAHASAPA LIMESTONE
122MOCN	MIOCENE SERIES	211HRBL	HAREBELL FORMATION	361BGRN	BIGHORN DOLOMITE
123WRVR	WHITE RIVER FORMATION OR GROUP	211LNCE	LANCE FORMATION	370CMBR	CAMBRIAN SYSTEM
124TPTL	TEPEE TRAIL FORMATION				

FREMONT COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	FLOW RATE (G/M)	FLOW RATE, INSTAN- TANEOUS (G/M)
22745107350301	29-090-27aab01		122MOCN	GW	06-04-92	1145	36.23	115.00	17	--
22903107401801	29-091-13cab01		111ALVM	GW	06-04-92	1245	--	40.00	--	--
23539107355801	30-090-03ccc01		122MOCN	GW	06-04-92	1000	--	--	--	--
31004107411701	37-090-19bab01		124WDRV	GW	06-01-92	1730	--	--	--	--
31746107352201	38-090-01bbc01		124WDRV	GW	06-01-92	1525	--	--	--	--
31732108023101	38-093-06acc01		124WDRV	GW	06-03-92	1900	--	565.00	--	--
32528109332601	40-106-22aca01		331MDSN	SP	05-20-92	1145	--	--	--	10
32044107344602	39-090-13dca02		124WDRV	GW	06-01-92	1325	--	--	--	--
32055107491301	39-092-13dbd01		124WDRV	GW	06-03-92	0930	--	125.00	50	--
32345107334401	40-089-31acb01		124WGBD	GW	06-01-92	1020	--	--	10	--
32516107394001	40-090-20dbb01		231CGTR	GW	06-02-92	1615	--	50.00	--	--
32456107474801	40-091-19ddb01		370CMER	SP	06-03-92	1245	--	--	--	1.0
32404107553701	40-092-31bab01		124WGBD	GW	06-03-92	1730	--	400.00	--	--
32902109295501	41-105-30dba01		111ALVM	GW	05-19-92	1230	--	55.00	--	--
32823109282401	41-105-33bcb01		111ALVM	SP	05-22-92	0810	--	--	--	--
33139109362401	41-106-08cac01		124WDRV	GW	05-20-92	1730	67.01	645.00	--	--
33117109352601	41-106-16bba01		111ALVM	GW	05-19-92	1800	16.35	42.00	--	--
33044109341801	41-106-15cbd01		112GLCL	GW	05-19-92	0930	--	--	--	--
33400109372201	42-106-30dcc02		111ALVM	GW	05-21-92	0930	5.49	8.60	--	--
33727109360001	42-106-08aba02		111ALVM	GW	05-21-92	1215	11.49	25.00	--	--
33514109440801	42-107-19daa01		124WDRV	GW	05-22-92	1440	13.47	90.00	--	--
33510109400201	42-107-23ca 01		124WDRV	GW	05-20-92	1530	15.14	101.00	--	--
33319109430601	42-107-32dbd01		311PSPR	GW	05-22-92	1220	24.91	80.00	--	--
33742109513601	42-108-06dbc01		124WDRV	GW	05-21-92	1545	15.06	--	--	--
34235109492501	43-108-09baa01		111ALVM	GW	05-22-92	1800	3.26	40.00	--	--
34056109480701	43-108-22abb01		111LDLD	SP	05-22-92	1900	--	--	--	21

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
22745107350301	06-04-92	230	7.8	11.5	87	29	3.5	14	0.7	4.7	107	
22903107401801	06-04-92	402	7.7	9.5	130	41	6.9	28	1	4.7	156	
23539107355801	06-04-92	458	8.2	9.0	73	20	5.6	65	3	3.3	182	
31004107411701	06-01-92	1320	8.9	10.5	14	5.5	0.11	240	28	0.60	118	
31746107352201	06-01-92	1820	8.0	11.5	180	35	23	320	10	4.5	283	
31732108023101	06-03-92	1100	8.7	14.0	18	7.1	0.12	220	22	<0.10	137	
32528109332601	05-20-92	349	8.1	5.0	170	33	22	3.0	0.1	1.6	172	
32044107344602	06-01-92	2380	7.6	11.5	83	19	8.6	540	26	13	1220	
32055107491301	06-03-92	1850	7.2	15.5	770	160	91	120	2	17	286	
32345107334401	06-01-92	458	7.7	20.0	230	54	22	10	0.3	3.9	199	
32516107394001	06-02-92	670	7.5	9.0	330	79	32	12	0.3	4.6	302	
32456107474801	06-03-92	200	7.0	10.0	84	25	5.1	4.5	0.2	1.1	74	
32404107553701	06-03-92	330	7.2	10.5	130	41	6.4	17	0.7	1.5	135	
32902109295501	05-19-92	435	7.6	9.0	200	52	17	9.2	0.3	2.7	191	
32823109282401	05-22-92	575	7.7	9.0	240	66	18	32	0.9	4.0	259	
33139109362401	05-20-92	830	7.8	10.5	97	29	6.0	150	7	3.3	284	
33117109352601	05-19-92	712	7.5	10.5	260	71	21	41	1	3.8	291	
33044109341801	05-19-92	438	8.0	9.0	200	52	16	9.3	0.3	2.2	157	
33400109372201	05-21-92	305	7.8	7.0	150	45	9.1	5.1	0.2	2.3	158	
33727109360001	05-21-92	218	8.1	4.5	100	31	6.5	3.1	0.1	1.9	112	
33514109440801	05-22-92	2440	7.7	6.5	350	80	36	400	9	5.5	360	
33510109400201	05-20-92	1960	7.5	7.5	380	93	35	260	6	4.7	395	
33319109430601	05-22-92	840	7.3	19.5	430	120	31	20	0.4	8.6	377	
33742109513601	05-21-92	455	8.1	7.0	160	46	11	32	1	6.7	231	
34235109492501	05-22-92	211	7.8	10.0	110	29	8.9	2.3	0.1	2.5	115	
34056109480701	05-22-92	171	7.9	5.0	73	23	3.8	6.4	0.3	1.3	84	

QUALITY OF GROUND WATER
FREMONT COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
22745107350301	06-04-92	9.9	3.3	0.4	54	185	0.25	<0.01	0.45	0.02	0.02	0.02
22903107401801	06-04-92	43	7.0	0.4	43	269	0.37	<0.01	0.41	0.02	0.02	0.02
23539107355801	06-04-92	36	16	0.5	24	287	0.39	<0.01	0.93	2.60	0.12	0.12
31004107411701	06-01-92	420	20	1.1	7.0	765	1.04	<0.01	<0.05	0.05	<0.01	<0.01
31746107352201	06-01-92	570	26	0.9	8.7	1160	1.58	<0.01	0.12	0.02	<0.01	<0.01
31732108023101	06-03-92	350	7.6	0.7	8.8	--	--	<0.01	<0.05	0.08	<0.01	<0.01
32528109332601	05-20-92	9.3	4.3	0.2	7.5	188	0.26	<0.01	0.92	0.01	0.01	0.01
32044107344602	06-01-92	25	94	2.0	6.2	1440	1.96	<0.01	<0.05	0.51	<0.01	<0.01
32055107491301	06-03-92	710	12	1.9	8.4	1290	1.76	<0.01	<0.05	0.48	0.04	0.04
32345107334401	06-01-92	49	3.8	0.5	10	273	0.37	<0.01	<0.05	0.06	<0.01	<0.01
32516107394001	06-02-92	71	5.2	0.6	17	403	0.55	<0.01	0.07	0.02	0.01	0.01
32456107474801	06-03-92	16	2.2	0.2	17	119	0.16	<0.01	0.64	0.02	0.02	0.02
32404107553701	06-03-92	30	5.4	0.5	24	207	0.28	<0.01	<0.05	0.04	<0.01	<0.01
32902109295501	05-19-92	34	3.9	0.3	18	253	0.34	<0.01	0.28	0.02	0.02	0.02
32823109282401	05-22-92	44	4.8	0.2	33	364	0.49	<0.01	1.40	0.01	0.08	0.08
33139109362401	05-20-92	160	6.9	1.1	13	540	0.73	<0.01	<0.05	0.05	<0.01	<0.01
33117109352601	05-19-92	64	7.9	<0.1	28	414	0.56	<0.01	0.60	0.01	0.03	0.03
33044109341801	05-19-92	61	4.2	0.3	11	251	0.34	<0.01	0.23	0.01	<0.01	<0.01
33400109372201	05-21-92	9.5	<0.10	0.2	26	--	--	<0.01	<0.05	0.02	0.03	0.03
33727109360001	05-21-92	2.8	<0.10	<0.1	28	--	--	<0.01	0.07	<0.01	0.07	0.07
33514109440801	05-22-92	780	31	0.8	7.6	1560	2.12	<0.01	0.09	<0.01	<0.01	<0.01
33510109400201	05-20-92	520	19	<0.1	13	1180	1.61	<0.01	<0.05	0.17	<0.01	<0.01
33319109430601	05-22-92	86	28	1.3	16	537	0.73	<0.01	<0.05	0.06	<0.01	<0.01
33742109513601	05-21-92	12	3.2	<0.1	39	289	0.39	<0.01	<0.05	0.05	0.05	0.05
34235109492501	05-22-92	4.5	<0.10	0.2	30	--	--	<0.01	0.10	0.01	0.08	0.08
34056109480701	05-22-92	6.4	<0.10	0.1	29	--	--	<0.01	<0.05	0.01	0.11	0.11

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)
432528109332601	40-106-22aca01		331MDSN	SF	05-20-92	1145	<10	<1
432456107474801	40-091-19ddb01		370CMER	SP	06-03-92	1245	10	<1

STATION	NUMBER	DATE	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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
432528109332601	05-20-92	62	<0.5	20	<1.0	<1	<3	<1	<3	<3
432456107474801	06-03-92	28	<0.5	20	<1.0	<1	<3	<1	12	12

STATION	NUMBER	DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
432528109332601	05-20-92	<1	<4	<1	--	<1	<1.0	68	12	12
432456107474801	06-03-92	<1	7	<1	<0.1	<1	3.0	130	5	5

QUALITY OF GROUND WATER

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FREMONT COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	RA-226, DIS- SOLVED, PLAN- CHET COUNT (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
432456107474801	40-091-19ddb01		370CMBR	SP	06-03-92	1245	0.4	1.1
432404107553701	40-092-31bab01		124WGBD	GW	06-03-92	1730	0.4	1.3
433319109430601	42-107-32dbd01		311PSPR	GW	05-22-92	1220	2.6	<0.40

GOSHEN COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
423527104112901	30-61-09acc01	TADEWALD	122ARKR	GW	06-17-92	1500	295	8.1

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
423527104112901	06-17-92	14.0	130	32	12	13	0.5	6.1	110	

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
423527104112901	06-17-92	20	5.2	0.6	74	250	0.34	4.8	0.03	

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
423527104112901	30-61-09acc01	TADEWALD	122ARKR	GW	06-17-92	1500

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
423527104112901	06-17-92	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

HOT SPRINGS COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
433744108323401	8N-3E-32abc01		--	SP	10-11-91	--	--	2.0	1480
433828108341601	8N-3E-30bca01		--	SP	10-11-91	--	--	8.0	805
434113108363001	9N-2E-11bac01		211FRNR	SP	03-19-92	--	--	0.5	2410
434220108441301	43-099-09-dac01		231CGTR	SP	03-20-92	--	--	150	2290
434334108355501	43-098-03acd01		211CODY	GW	03-18-92	--	60.00	--	1000
434337108315101	43-097-05bca01		111ALVM	GW	03-18-92	7.37	12.00	--	2140

STATION	NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT
433744108323401		10-11-91	7.0	10.0	580	140	55	22	0.4	8
433828108341601		10-11-91	6.7	9.5	380	90	37	17	0.4	9
434113108363001		03-19-92	6.8	9.0	550	150	42	360	7	58
434220108441301		03-20-92	6.4	9.0	1400	500	43	170	2	21
434334108355501		03-18-92	7.4	7.0	98	27	7.4	200	9	81
434337108315101		03-18-92	6.9	4.0	510	95	67	350	7	59

STATION	NUMBER	DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
433744108323401		10-11-91	6.2	172	470	11	0.90	0.07	16	825
433828108341601		10-11-91	5.7	105	320	5.3	0.70	0.10	13	552
434113108363001		03-19-92	6.9	124	1100	3.9	1.4	0.03	8.3	1750
434220108441301		03-20-92	3.6	295	1300	9.7	0.80	0.05	23	2230
434334108355501		03-18-92	1.7	273	240	11	0.40	0.04	8.7	660
434337108315101		03-18-92	5.8	457	670	34	1.0	0.08	40	1540

STATION	NUMBER	DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	LITHIUM DIS- SOLVED (UG/L AS LI)	TRITIUM TOTAL (PCI/L)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL
433744108323401		10-11-91	1.12	0.17	<1	96	110	-17.55	-138.0	-8.90
433828108341601		10-11-91	0.75	0.05	<1	80	4.8	-17.30	-136.0	3.40
434113108363001		03-19-92	2.38	0.08	1	240	55	-16.30	-127.0	-13.50
434220108441301		03-20-92	3.04	1.20	3	40	120	-16.90	-130.0	10.60
434334108355501		03-18-92	0.90	<0.05	<1	51	130	-17.85	-136.0	7.00
434337108315101		03-18-92	2.09	0.22	6	40	120	-17.40	-133.0	-0.2

QUALITY OF GROUND WATER

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JOHNSON COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
434215106174601	43-79-12dec01		111ALVM	GW	08-09-92	1320	80.00	4700	8.1
440933106421401	48-082-03bdc02		211FRNR	GW	08-09-92	0945	--	610	7.8

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
434215106174601		08-09-92	14.0	1800	360	220	420	4	21	370
440933106421401		08-09-92	13.0	240	55	25	32	0.9	1.2	180

STATION	NUMBER	DATE	SULFATE	CHLO-	FLUO-	SILICA,	SOLIDS,	SOLIDS,	NITRO-	PHOS-
			DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	DIS- SOLVED (TONS PER AC-FT)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	
434215106174601		08-09-92	2000	230	0.3	10	3560	4.84	17.0	<0.03
440933106421401		08-09-92	110	3.7	0.3	13	348	0.47	<0.1	<0.03

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
434215106174601	43-79-12dec01		111ALVM	GW	08-09-92	1320
440933106421401	48-082-03bdc02		211FRNR	GW	08-09-92	0945

STATION	NUMBER	DATE	DICAMBA	PICLO-	SILVEX,	2,4-D,	2, 4-DP	2,4,5-T
			(MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	RAM (TOR- DON) (AMDON) TOTAL (UG/L)				
434215106174601		08-09-92	0.02	0.38	<0.01	<0.01	<0.01	<0.01
440933106421401		08-09-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

NIOBRARA COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
424303104070701	32-60-30cbd01	SHOULTS	122ARKR	GW	06-17-92	1300	426.00	340	7.8
424654104182501	32-62-04aca01	BRUCH	122ARKR	GW	08-04-92	1045	--	395	7.8
424859104073001	33-61-24ddc01	STORY	122ARKR	GW	06-17-92	0955	--	315	8.0

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
424303104070701		06-17-92	14.0	160	46	11	7.4	0.3	6.1	160
424654104182501		08-04-92	14.0	180	53	12	6.4	0.2	6.6	170
424859104073001		06-17-92	14.0	150	46	8.4	740	26	5.5	160

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
424303104070701		06-17-92	3.9	2.2	0.3	56	241	0.33	2.7	<0.03
424654104182501		08-04-92	10	3.6	0.3	56	264	0.36	3.3	0.07
424859104073001		06-17-92	0.06	1.5	0.2	56	959	1.30	2.0	0.07

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
424303104070701	32-60-30cbd01	SHOULTS	122ARKR	GW	06-17-92	1300
424654104182501	32-62-04aca01	BRUCH	122ARKR	GW	08-04-92	1045
424859104073001	33-61-24ddc01	STORY	122ARKR	GW	06-17-92	0955

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
424303104070701		06-17-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
424654104182501		08-04-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
424859104073001		06-17-92	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

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PARK COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
443253109045101	53-102-25aad01		111TRRC	GW	08-08-92	0845	150.00	1250	7.4
444217108390901	55-98-34bcb		125FRUN	GW	08-07-92	1445	100.00	1900	7.5

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
443253109045101		08-08-92	17.0	630	190	37	30	0.5	2.8	150
444217108390901		08-07-92	14.0	280	68	26	290	8	5.0	430

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
443253109045101		08-08-92	530	1.6	1.2	37	924	1.26	0.9	<0.03
444217108390901		08-07-92	440	18	0.9	17	1140	1.56	4.9	0.06

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME
443253109045101	53-102-25aad01		111TRRC	GW	08-08-92	0845
444217108390901	55-98-34bcb		125FRUN	GW	08-07-92	1445

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
443253108045101		08-08-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
444217108390901		08-07-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

SHERIDAN COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
443904107005201	54-84-18ada01		111ALVM	GW	08-08-92	1430	--	700	8.5
443938106565601	54-84-14bb01		125FRUN	GW	08-05-92	1345	190.00	950	8.7
443938106565602	54-84-14bb02		124WSTC	GW	08-05-92	1300	100.00	495	7.5
444155106561801	55-84-35acd01		111ALVM	GW	08-05-92	1210	--	1750	7.3
445131106033901	56-76-06cab01	KENDRICK RAN	125FRUN	GW	08-06-92	1250	--	1730	8.0
445436107163401	57-86-17ccc01		125FRUN	GW	08-05-92	0915	--	1010	7.5

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
443904107005201		08-08-92	12.0	27	5.5	3.2	150	13	2.5	340
443938106565601		08-05-92	20.0	19	5.9	1.1	180	18	1.3	240
443938106565602		08-05-92	13.5	270	74	20	8.3	0.2	1.2	270
444155106561801		08-05-92	18.0	710	120	99	170	3	7.9	420
445131106033901		08-06-92	14.5	35	6.5	4.5	440	32	4.0	930
445436107163401		08-05-92	14.0	490	110	53	28	0.5	4.2	380

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
443904107005201		08-08-92	6.4	1.8	1.1	6.6	389	0.53	1.9	<0.03
443938106565601		08-05-92	180	3.3	0.4	7.5	523	0.71	<0.1	<0.03
443938106565602		08-05-92	14	1.2	0.2	12	295	0.40	0.4	<0.03
444155106561801		08-05-92	580	5.6	0.3	8.8	1250	1.70	0.7	<0.03
445131106033901		08-06-92	3.9	26	2.1	7.6	1050	1.43	<0.1	0.04
445436107163401		08-05-92	150	15	0.2	14	602	0.82	<0.1	<0.03

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
443904107005201	54-84-18ada01		111ALVM	GW	08-08-92	1430
443938106565601	54-84-14bb01		125FRUN	GW	08-05-92	1345
443938106565602	54-84-14bb02		124WSTC	GW	08-05-92	1300
444155106561801	55-84-35acd01		111ALVM	GW	08-05-92	1210
445131106033901	56-76-06cab01	KENDRICK RAN	125FRUN	GW	08-06-92	1250
445436107163401	57-86-17ccc01		125FRUN	GW	08-05-92	0915

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
443904107005201		08-08-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
443938106565601		08-05-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
443938106565602		08-05-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
444155106561801		08-05-92	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
445131106033901		08-06-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
445436107163401		08-05-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

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TETON COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	FLOW RATE, INSTAN- TANEOUS (G/M)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
431522110154201	45-112-23aab01		111TRRC	GW	06-26-92	1500	--	9.0	420	8.6
431645110393801	38-115-05dcd01		121CPDV	SP	07-24-92	1615	--	--	380	7.0
431928110434601	39-116-23cca01		111LDLD	GW	07-27-92	1130	147.00	--	1160	7.7
432027110432801	39-116-14cad01		217BRRV	GW	07-23-92	1645	--	--	1630	8.9
432347110445801	40-116-27cca01		111ALVM	GW	07-23-92	1315	53.00	--	863	7.3
432450110542601	40-117-20cba01		217ASPN	SP	07-28-92	1100	--	--	325	7.5
432517110462401	40-116-20aaa01		111ALVM	GW	07-27-92	0900	180.00	--	660	7.7
432522110470001	40-116-17cdd01		111ALVM	GW	07-24-92	1300	50.00	--	610	7.6
432805110524001	41-117-34cca01		111ALVM	GW	07-27-92	1700	--	--	350	7.6
432820110463201	41-116-33cab01		111ALVM	GW	07-20-92	1030	148.00	--	517	7.6
432821110463701	41-116-33cba01		111ALVM	GW	07-29-92	1315	--	--	435	7.7
432828110470201	41-116-32add01		361BGRN	GW	07-28-92	1400	--	--	530	7.5
432901110493801	41-117-25dca01		111ALVM	GW	07-24-92	1000	--	--	--	--
432908110523401	41-117-27cba01		111ALVM	GW	07-21-92	1130	48.00	--	365	7.6
433026110452101	41-116-22bab01		111ALVM	GW	07-25-92	1100	--	--	268	8.1
433034110413101	41-115-18dcc01		111ALVM	GW	07-22-92	1700	86.00	--	--	--
433043110393101	41-115-16cca01		370CMER	SP	07-22-92	1430	--	--	183	8.1
433104110515101	41-117-15adc01		111ALVM	GW	07-21-92	0845	60.00	--	268	8.0
433106110491301	41-116-18bcb01		111ALVM	GW	07-29-92	1500	180.00	--	540	7.6
433108110505701	41-117-14acb01		111ALVM	GW	07-21-92	1600	--	--	265	7.9
433120110502601	41-117-13bbb01		111ALVM	GW	07-28-92	1600	--	--	270	7.8
433151110460901	41-116-09acd01		111ALVM	GW	07-23-92	0930	50.00	--	430	7.7
433215110435001	41-116-11abb01		111ALVM	GW	07-25-92	1415	90.00	--	275	8.0
433305110380401	41-115-03baa01		111ALVM	SP	07-29-92	1030	--	--	225	8.0
433306110355201	41-115-01bba01		317TSLP	SP	06-22-92	1630	--	1.5	530	8.0
433357110444701	42-116-34bda01		111ALVM	GW	07-22-92	1000	101.00	--	370	7.9
433510110493201	42-117-24dac01		111ALVM	GW	07-20-92	1445	--	--	283	7.8
434210110360001	43-115-12cbd01		121TWNT	SP	06-25-92	1600	--	--	380	7.8
434415110350501	44-114-31bbc01		121TWNT	GW	07-26-92	1545	--	--	245	8.0
434437110213501	44-113-25cda01		121TWNT	GW	06-22-92	1230	--	1.0	940	9.2
434629110134901	44-112-13dad01		111TRRC	SP	06-25-92	1315	--	--	295	7.8
434709110062401	LAT-LONG 4347091100624		124PTL	SP	06-28-92	0930	--	--	94	7.7
434914110114201	45-111-33cbb01		112GLCL	SP	06-25-92	1015	--	--	415	7.8
434928110211401	45-112-31bca01		111ALVM	GW	06-22-92	1010	75.00	14	335	7.9
434955110240301	45-113-27dac01		111ALVM	GW	07-26-92	1300	--	--	330	7.5
435054110245301	45-113-22cbb01		210CRCS	GW	06-24-92	1700	153.75	20	530	7.4
435233110274701	45-113-07dbd01		111TRRC	GW	06-24-92	1430	45.00	12	260	8.0
435434110104001	46-111-33add01		370CMER	SP	06-26-92	1130	--	--	1400	6.5
435626110330301	46-114-20ada01		122CLTR	SP	06-24-92	1045	--	--	170	8.1
435628110262501	46-113-20aac01		211HRBL	GW	06-23-92	1630	130.00	--	475	9.4
440348111011501	47-118-04dbd01		112GLCL	GW	06-27-92	1215	--	--	112	7.8
440601110355201	LAT-LONG 4406011103552		121TWNT	SP	06-23-92	1230	--	--	112	7.7
440701110544601	48-117-16ccc01		112RYLT	SP	06-27-92	1545	--	--	22	6.1

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
431522110154201		06-26-92	8.0	15	4.7	0.69	94	11	0.6	218	8.9	3.1
431645110393801		07-24-92	6.5	200	67	8.5	4.9	0.1	1.4	194	22	4.1
431928110434601		07-27-92	12.5	240	67	17	170	5	2.4	479	25	91
432027110432801		07-23-92	12.0	5	1.1	0.51	410	81	0.7	699	210	12
432347110445801		07-23-92	9.0	460	100	51	13	0.3	4.7	427	62	16
432450110542601		07-28-92	8.0	160	52	7.8	7.6	0.3	1.0	178	3.1	0.9
432517110462401		07-27-92	10.0	350	82	35	6.4	0.1	6.6	199	170	6.3
432522110470001		07-24-92	8.0	320	81	28	4.1	0.1	2.1	221	110	4.7
432805110524001		07-27-92	6.5	170	35	19	5.5	0.2	5.3	180	9.1	2.1
432820110463201		07-20-92	9.0	260	69	22	5.7	0.2	2.1	228	48	13
432821110463701		07-29-92	10.0	230	60	19	4.3	0.1	2.0	216	25	4.9
432828110470201		07-28-92	10.5	260	70	21	9.8	0.3	2.4	236	41	13
432901110493801		07-24-92	0.0	260	66	23	29	0.8	6.2	286	1.0	38
432908110523401		07-21-92	8.5	180	52	13	4.0	0.1	1.2	191	4.7	4.8
433026110452101		07-25-92	8.5	140	35	12	2.4	0.1	2.5	145	4.2	2.8
433034110413101		07-22-92	8.0	270	71	22	2.3	0.1	1.6	174	100	2.8
433043110393101		07-22-92	12.0	89	24	7.0	2.0	0.1	0.7	94	2.1	1.1
433104110515101		07-21-92	8.5	130	37	8.8	3.0	0.1	1.4	134	4.7	3.5
433106110491301		07-29-92	10.0	230	56	21	26	0.8	2.6	200	62	23
433108110505701		07-21-92	9.5	130	38	7.9	6.0	0.2	1.6	131	8.5	5.3
433120110502601		07-28-92	9.0	120	37	7.5	7.4	0.3	1.9	126	10	5.9
433151110460901		07-23-92	9.0	210	62	14	7.4	0.2	1.5	175	56	1.9
433215110435001		07-25-92	8.0	140	37	12	2.4	0.1	1.0	145	7.4	2.8
433305110380401		07-29-92	5.5	120	32	10	0.90	0.0	0.4	122	3.6	2.3
433306110355201		06-22-92	6.0	280	64	28	5.9	0.2	1.7	284	10	4.7
433357110444701		07-22-92	9.0	190	56	13	7.2	0.2	1.1	149	63	0.9
433510110493201		07-20-92	10.0	150	42	9.9	1.9	0.1	1.0	151	2.9	3.0
434210110360001		06-25-92	5.0	190	57	12	2.3	0.1	3.9	197	6.2	0.9
434415110350501		07-26-92	8.0	120	34	8.6	2.7	0.1	3.4	125	2.6	1.2
434437110213501		06-22-92	6.0	5	1.3	0.32	220	45	1.2	502	9.7	2.4
434629110134901		06-25-92	5.0	140	43	7.6	6.9	0.3	1.3	150	5.0	0.4
434709110062401		06-28-92	3.0	40	13	1.9	2.0	0.1	1.7	46	1.1	0.5
434914110114201		06-25-92	4.0	210	63	13	1.9	0.1	2.5	215	5.0	1.8
434928110211401		06-22-92	12.0	140	40	9.8	19	0.7	1.6	174	11	0.4
434955110240301		07-26-92	9.0	170	48	11	7.4	0.3	3.3	180	5.4	1.8
435054110245301		06-24-92	7.5	240	68	16	22	0.6	3.2	271	15	4.1
435233110274701		06-24-92	6.5	120	36	7.0	6.3	0.3	2.2	124	12	0.4
435434110104001		06-26-92	8.5	500	160	24	91	2	25	622	17	100
435626110330301		06-24-92	7.0	87	27	4.8	2.1	0.1	1.2	91	2.2	0.8
435628110262501		06-23-92	9.5	3	1.1	0.02	110	28	0.2	230	2.4	6.1
440348111011501		06-27-92	7.0	48	13	3.7	4.0	0.3	0.9	55	1.4	0.4
440601110355201		06-23-92	--	47	15	2.3	3.9	0.2	0.4	46	12	0.5
440701110544601		06-27-92	9.0	7	2.1	0.51	1.1	0.2	0.6	11	0.8	0.2

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
431522110154201	06-26-92	0.5	13	261	0.35	--	<0.01	0.99	0.08	<0.01	
431645110393801	07-24-92	0.1	9.4	234	0.32	--	<0.01	0.11	0.05	0.03	
431928110434601	07-27-92	1.9	12	707	0.96	7.23	0.27	7.50	0.12	0.01	
432027110432801	07-23-92	3.3	7.2	1060	1.45	--	<0.01	<0.05	0.17	0.04	
432347110445801	07-23-92	0.3	31	538	0.73	--	<0.01	0.79	0.03	0.02	
432450110542601	07-28-92	0.2	9.3	191	0.26	--	<0.01	0.55	0.03	<0.01	
432517110462401	07-27-92	0.9	42	469	0.64	--	<0.01	<0.05	0.15	0.02	
432522110470001	07-24-92	0.6	19	383	0.52	--	<0.01	0.29	0.02	<0.01	
432805110524001	07-27-92	0.4	48	233	0.32	--	<0.01	<0.05	0.18	0.14	
432820110463201	07-20-92	0.2	14	314	0.43	--	<0.01	0.80	0.02	0.03	
432821110463701	07-29-92	0.2	14	261	0.36	--	<0.01	0.54	0.03	<0.01	
432828110470201	07-28-92	0.2	16	319	0.43	--	<0.01	0.81	0.02	0.02	
432901110493801	07-24-92	0.4	40	378	0.51	--	<0.01	<0.05	1.40	0.19	
432908110523401	07-21-92	0.2	12	208	0.28	--	<0.01	0.32	0.03	<0.01	
433026110452101	07-25-92	0.2	21	168	0.23	--	<0.01	0.14	0.02	0.01	
433034110413101	07-22-92	0.1	8.2	316	0.43	--	<0.01	0.79	0.01	0.01	
433043110393101	07-22-92	<0.1	7.8	102	0.14	--	<0.01	0.12	0.02	<0.01	
433104110515101	07-21-92	0.2	12	152	0.21	--	<0.01	0.20	0.02	<0.01	
433106110491301	07-29-92	0.5	17	331	0.45	--	<0.01	0.68	0.02	<0.01	
433108110505701	07-21-92	0.3	12	159	0.22	--	<0.01	0.20	0.03	0.01	
433120110502601	07-28-92	0.4	15	161	0.22	--	<0.01	0.16	0.02	<0.01	
433151110460901	07-23-92	0.2	9.7	258	0.35	--	<0.01	0.13	0.02	0.01	
433215110435001	07-25-92	0.1	10	160	0.22	--	<0.01	0.13	0.02	<0.01	
433305110380401	07-29-92	0.1	4.5	127	0.17	--	<0.01	0.11	0.04	<0.01	
433306110355201	06-22-92	0.2	26	312	0.42	--	<0.01	0.29	0.02	0.02	
433357110444701	07-22-92	0.2	7.2	238	0.32	--	<0.01	0.09	0.02	<0.01	
433510110493201	07-20-92	0.1	9.3	162	0.22	--	<0.01	0.24	0.02	<0.01	
434210110360001	06-25-92	0.4	43	244	0.33	--	<0.01	0.11	0.01	0.02	
434415110350501	07-26-92	0.3	37	166	0.23	--	<0.01	0.16	0.04	0.04	
434437110213501	06-22-92	1.6	9.4	548	0.74	--	<0.01	<0.05	0.31	0.06	
434629110134901	06-25-92	<0.1	18	173	0.24	--	<0.01	0.16	0.02	0.02	
434709110062401	06-28-92	0.2	35	84	0.11	--	<0.01	0.12	0.01	0.12	
434914110114201	06-25-92	<0.1	25	242	0.33	--	<0.01	0.25	0.02	0.02	
434928110211401	06-22-92	0.2	15	202	0.27	--	<0.01	0.12	0.02	0.02	
434955110240301	07-26-92	0.2	24	209	0.28	--	<0.01	<0.05	0.04	0.03	
435054110245301	06-24-92	0.2	20	314	0.43	--	<0.01	0.53	0.03	0.06	
435233110274701	06-24-92	<0.1	25	163	0.22	--	<0.01	<0.05	0.03	0.02	
435434110104001	06-26-92	0.2	39	829	1.13	--	<0.01	<0.05	0.08	<0.01	
435626110330301	06-24-92	0.2	21	114	0.16	--	<0.01	0.07	0.03	0.03	
435628110262501	06-23-92	8.2	13	280	0.38	--	<0.01	<0.05	0.01	<0.01	
440348111011501	06-27-92	0.2	32	91	0.12	--	<0.01	0.39	0.01	0.02	
440601110355201	06-23-92	0.2	17	80	0.11	--	<0.01	0.31	0.04	0.02	
440701110544601	06-27-92	0.1	10	22	0.03	--	<0.01	<0.05	0.02	<0.01	

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
432027110432801	39-116-14cad01		217BRRV	GW	07-23-92	1645	10	<1	410
432347110445801	40-116-27cca01		111ALVM	GW	07-23-92	1315	<10	4	40
432522110470001	40-116-17cdd01		111ALVM	GW	07-24-92	1300	10	1	30
432820110463201	41-116-33cab01		111ALVM	GW	07-20-92	1030	<10	3	20
432901110493801	41-117-25dca01		111ALVM	GW	07-24-92	1000	<10	2	130
432908110523401	41-117-27cba01		111ALVM	GW	07-21-92	1130	<10	1	20
433026110452101	41-116-22bab01		111ALVM	GW	07-25-92	1100	10	2	<10
433104110515101	41-117-15adc01		111ALVM	GW	07-21-92	0845	<10	1	20
433108110505701	41-117-14acb01		111ALVM	GW	07-21-92	1600	10	2	40
433215110435001	41-116-11abb01		111ALVM	GW	07-25-92	1415	<10	<1	10
433306110355201	41-115-01bba01		317TSLP	SP	06-22-92	1630	20	4	20
433357110444701	42-116-34bda01		111ALVM	GW	07-22-92	1000	20	<1	20
433510110493201	42-117-24dac01		111ALVM	GW	07-20-92	1445	<10	<1	10
434629110134901	44-112-13dad01		111TRRC	SP	06-25-92	1315	<10	<1	10
434928110211401	45-112-31bca01		111ALVM	GW	06-22-92	1010	10	<1	30
435626110330301	46-114-20ada01		122CLTR	SP	06-24-92	1045	20	4	<10
435628110262501	46-113-20aac01		211HRBL	GW	06-23-92	1630	<10	<1	620
440348111011501	47-118-04dbd01		112GLCL	GW	06-27-92	1215	10	<1	<10

STATION	NUMBER	DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
432027110432801		07-23-92	<10	<1	<1	28	<1	4	<0.1	<1	5
432347110445801		07-23-92	<10	<1	1	5	<1	<1	<0.1	2	13
432522110470001		07-24-92	<10	<1	3	85	<1	2	<0.1	1	15
432820110463201		07-20-92	<10	<1	2	6	<1	<1	<0.1	<1	6
432901110493801		07-24-92	<10	<1	<1	220	<1	520	<0.1	<1	7
432908110523401		07-21-92	<10	<1	<1	<3	<1	<1	<0.1	<1	9
433026110452101		07-25-92	<10	<1	<1	63	<1	<1	<0.1	<1	14
433104110515101		07-21-92	<10	<1	3	<3	<1	<1	<0.1	<1	26
433108110505701		07-21-92	<10	<1	<1	<3	<1	<1	<0.1	<1	4
433215110435001		07-25-92	<10	<1	<1	<3	<1	<1	<0.1	<1	<3
433306110355201		06-22-92	<10	<1	2	<3	<1	<1	<0.1	<1	<3
433357110444701		07-22-92	<10	<1	<1	<3	<1	<1	<0.1	<1	4
433510110493201		07-20-92	<10	<1	2	<3	<1	<1	<0.1	<1	11
434629110134901		06-25-92	<10	<1	<1	<3	<1	<1	<0.1	<1	<3
434928110211401		06-22-92	<10	<1	3	<3	<1	<1	<0.1	<1	37
435626110330301		06-24-92	<10	<1	1	7	<1	6	<0.1	<1	<3
435628110262501		06-23-92	<10	<1	1	53	<1	1	<0.1	<1	<3
440348111011501		06-27-92	<10	<1	1	30	3	16	<0.1	<1	980

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME
433357110444701	42-116-34bda01		111ALVM	GW	07-22-92	1000

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
433357110444701		07-22-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER

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WASHAKIE COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
435724108010901	46-093-15bdd01	WY Boys Sch	124WLWD	GW	08-07-92	1140	65.00	2150	7.7

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)
435724108010901	08-07-92	15.0	290	76	25	410	10	6.8	400	

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
435724108010901	08-07-92	670	29	1.2	22	1490	2.03	3.4	<0.03	

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
435724108010901	46-093-15bdd01	WY Boys Sch	124WLWD	GW	08-07-92	1140

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
435724108010901	08-07-92	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	

QUALITY OF GROUND WATER

WESTON COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
435722104210701	46-62-19bca01		337PHSP	GW	06-16-92	1155	--	340	7.3
440610104471901	48-66-33abc01		211LNCE	GW	06-16-92	0910	--	1080	7.1
440632104455603	48 66 26CCB03		211FXHL	GW	04-01-92	1300	160.00	1240	8.8
			211FXHL	GW	06-11-92	1330	160.00	3400	7.9
			211FXHL	GW	07-16-92	0910	160.00	3300	8.0
			211FXHL	GW	09-23-92	1010	160.00	3550	8.0
440636104451804	T48N-R66W-S26cbd		211FXHL	GW	05-07-92	1330	--	980	9.4
			211FXHL	GW	09-23-92	1000	--	1070	9.2
440640104450001	48 66 26CAD01		111ALVM	GW	11-06-91	1025	27.00	1400	7.5
			111ALVM	GW	12-10-91	1440	27.00	1650	7.4
			111ALVM	GW	02-21-92	0930	27.00	1590	7.3
			111ALVM	GW	04-01-92	1225	27.00	1360	7.4
			111ALVM	GW	05-07-92	1220	27.00	1450	7.5
			111ALVM	GW	06-11-92	1300	27.00	1580	7.6
			111ALVM	GW	07-16-92	0935	27.00	1550	7.5
			111ALVM	GW	08-19-92	0845	27.00	1440	7.1

STATION	NUMBER	DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
435722104210701		06-16-92	18.0	270	64	27	2.8	0.1	1.2	240
440610104471901		06-16-92	11.0	570	120	66	32	0.6	5.9	490
440632104455603		04-01-92	8.5	270	62	28	79	2	2.9	370
		06-11-92	10.0	--	--	--	--	--	--	--
		07-16-92	11.5	--	--	--	--	--	--	--
		09-23-92	13.0	--	--	--	--	--	--	--
440636104451804		05-07-92	18.0	--	--	--	--	--	--	--
		09-23-92	12.0	--	--	--	--	--	--	--
440640104450001		11-06-91	7.5	480	110	51	180	4	3.0	470
		12-10-91	10.0	--	--	--	--	--	--	--
		02-21-92	7.0	--	--	--	--	--	--	--
		04-01-92	7.0	--	--	--	--	--	--	--
		05-07-92	12.0	--	--	--	--	--	--	--
		06-11-92	10.0	--	--	--	--	--	--	--
		07-16-92	10.0	--	--	--	--	--	--	--
		08-19-92	11.0	--	--	--	--	--	--	--

QUALITY OF GROUND WATER

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WESTON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
435722104210701		06-16-92	21	1.0	0.2	12	274	0.37	0.3	<0.03
440610104471901		06-16-92	140	2.0	0.2	15	675	0.92	<0.1	<0.03
440632104455603		04-01-92	64	3.2	0.3	8.8	480	0.65	2.3	0.03
		06-11-92	--	--	--	--	--	--	--	--
		07-16-92	--	--	--	--	--	--	--	--
		09-23-92	--	--	--	--	--	--	--	--
440636104451804		05-07-92	--	--	--	--	--	--	--	--
		09-23-92	--	--	--	--	--	--	--	--
440640104450001		11-06-91	320	13	0.3	11	990	1.35	4.6	0.03
		12-10-91	--	--	--	--	--	--	--	--
		02-21-92	--	--	--	--	--	--	--	--
		04-01-92	--	--	--	--	--	--	--	--
		05-07-92	--	--	--	--	--	--	--	--
		06-11-92	--	--	--	--	--	--	--	--
		07-16-92	--	--	--	--	--	--	--	--
		08-19-92	--	--	--	--	--	--	--	--

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME
435722104210701	46-62-19bca01		337FHSP	GW	06-16-92	1155
440610104471901	48-66-33abc01		211LNCE	GW	06-16-92	0910
440632104455603	48 66 26CCB03		211FXHL	GW	04-01-92	1300
			211FXHL	GW	06-11-92	1330
			211FXHL	GW	07-16-92	0910
			211FXHL	GW	09-23-92	1010
440636104451804	T48N-R66W-S26cbd		211FXHL	GW	05-07-92	1330
			211FXHL	GW	09-23-92	1000
440640104450001	48 66 26CAD01		111ALVM	GW	11-06-91	1025
			111ALVM	GW	12-10-91	1440
			111ALVM	GW	02-21-92	0930
			111ALVM	GW	04-01-92	1225
			111ALVM	GW	05-07-92	1220
			111ALVM	GW	06-11-92	1300
			111ALVM	GW	07-16-92	0935
			111ALVM	GW	08-19-92	0845

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
435722104210701		06-16-92	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
440610104471901		06-16-92	0.01	<0.01	<0.01	0.06	<0.01	<0.01
440632104455603		04-01-92	0.01	0.06	<0.01	<0.01	<0.01	<0.01
		06-11-92	<0.01	0.07	<0.01	<0.01	<0.01	<0.01
		07-16-92	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
		09-23-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
440636104451804		05-07-92	<0.01	0.14	<0.01	<0.01	<0.01	<0.01
		09-23-92	<0.01	0.09	<0.01	<0.01	<0.01	<0.01
440640104450001		11-06-91	<0.01	8.1	<0.01	<0.01	<0.01	<0.01
		12-10-91	<0.01	5.4	<0.01	<0.01	<0.01	<0.01
		02-21-92	0.01	1.4	<0.01	<0.01	<0.01	<0.01
		04-01-92	0.01	5.0	<0.01	<0.01	<0.01	<0.01
		05-07-92	<0.01	19	<0.01	<0.01	<0.01	<0.01
		06-11-92	<0.01	4.3	<0.01	<0.01	<0.01	<0.01
		07-16-92	<0.01	7.0	<0.01	<0.01	<0.01	<0.01
		08-19-92	<0.01	1.0	<0.01	<0.01	<0.01	<0.01

QUALITY OF GROUND WATER
 FREMONT COUNTY WEED AND PEST DISTRICT STUDY
 FREMONT COUNTY
 WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	SITE	DATE	TIME	TEMPER- ATURE WATER (DEG C)
424829108485901	33-100-28abb01		GW	11-26-91	1022	10.0
424908108485001	33-100-21adb01		GW	11-26-91	1150	10.0
424854108480201	33-100-22bbc01		GW	11-26-91	1205	9.0
424905108460001	33-100-23cda01		GW	11-26-91	1215	9.0

STATION	NUMBER	DATE	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	PICLO- RAM (TOR- DON) (AMDON) TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
424829108485901		11-26-91	<0.01	0.80	<0.01	<0.01	<0.01	<0.01
424908108485001		11-26-91	<0.01	0.22	<0.01	<0.01	<0.01	<0.01
424854108480201		11-26-91	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
424905108460001		11-26-91	<0.01	0.07	<0.01	<0.01	<0.01	<0.01

PLATTE RIVER BASIN
424440106315601 GOOSE EGG SPRING (UPPER POOL) NEAR GOOSE EGG, WY

LOCATION.--Lat 42°44'40", long 106°31'56", in NE¼ NE¼ SE¼ sec.15, T.32 N., R.81 W., Natrona County, Hydrologic Unit 10180007, in upper pool on left bank of Goose Egg Spring, 13.3 mi southwest of Casper.

PERIOD OF RECORD.--June 3 to Sept. 22, 1992 (gage heights only).

GAGE.--Water-stage recorder and steel sheet piling weir. Elevation of gage is 5,260 ft above sea level, from topographic map.

REMARKS.--Records good. Gage heights listed below are for stage upstream from the weir crest. Flow over the weir is about 70 to 85 percent of the total flow of Goose Egg Spring. Results of discharge measurements, listed below, are the total outflow from the spring. The weir crest is affected at times by algae growth.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 24	1400	18.5	--	July 6	1030	19.1	2.09
Apr. 18	1130	15.8	--	July 17	1115	17.5	2.08
Apr. 22	0710	15.9	--	July 17	1530	18.1	2.08
May 22	0945	17.1	--	July 29	1520	18.4	2.09
May 27	1245	17.1	--	Aug. 29	1010	17.3	2.08
June 5	0900	16.5	2.08				

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.10 ft, several days; minimum, 2.08 ft, several days.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	2.08	2.08	2.08
2	---	---	---	---	---	---	---	---	---	2.09	2.08	2.08
3	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.08
4	---	---	---	---	---	---	---	---	2.08	2.09	2.08	2.08
5	---	---	---	---	---	---	---	---	2.08	2.09	2.08	2.09
6	---	---	---	---	---	---	---	---	2.08	2.08*	2.08	2.09
7	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
8	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
9	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
10	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
11	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
12	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
13	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
14	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
15	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
16	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
17	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
18	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
19	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
20	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
21	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.10
22	---	---	---	---	---	---	---	---	2.08	2.08	2.09	2.10
23	---	---	---	---	---	---	---	---	2.08	2.09	2.09	2.10
24	---	---	---	---	---	---	---	---	2.08	2.09	---	2.10
25	---	---	---	---	---	---	---	---	2.08	2.09	---	2.10
26	---	---	---	---	---	---	---	---	2.08	2.09	---	2.10
27	---	---	---	---	---	---	---	---	2.08	2.09	2.08*	2.10
28	---	---	---	---	---	---	---	---	2.08	2.09	2.08	2.09
29	---	---	---	---	---	---	---	---	2.08	2.09*	2.08	2.09
30	---	---	---	---	---	---	---	---	2.08	2.08	2.08	2.09
31	---	---	---	---	---	---	---	---	---	2.08	2.08	---
MEAN	---	---	---	---	---	---	---	---	---	2.08	---	2.09
MAX	---	---	---	---	---	---	---	---	---	2.09	---	2.10
MIN	---	---	---	---	---	---	---	---	---	2.08	---	2.08

* Crest cleared.

GOOSE EGG SPRING DISCHARGE AND WATER QUALITY STUDY

PLATTE RIVER BASIN

424440106315601 GOOSE EGG SPRING (UPPER POOL) NEAR GOOSE EGG, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)
424440106315601	GOOSE EGG SPG NR GOOSE EGG		111ALVM	SP	10-24-91	1330	18	610
			111ALVM	SP	05-27-92	1130	17	--
			111ALVM	SP	07-17-92	1000	18	670
			111ALVM	SP	08-27-92	0855	--	640

STATION	NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
424440106315601		10-24-91	--	--	--	--	15.5	0.3	280	79
		05-27-92	7.7	628	5.9	70	14.5	--	280	77
		07-17-92	7.6	636	6.7	81	15.5	--	280	78
		08-27-92	--	--	--	--	16.0	0.5	280	77

STATION	NUMBER	DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)
424440106315601		10-24-91	21	24	0.6	2.4	--	--	--	190
		05-27-92	21	24	0.6	2.4	0	242	198	194
		07-17-92	21	23	0.6	2.5	0	236	193	197
		08-27-92	21	22	0.6	2.5	--	--	--	190

STATION	NUMBER	DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
424440106315601		10-24-91	75	42	0.2	12	372	0.51	0.40	<0.03
		05-27-92	78	47	0.3	13	385	0.52	0.49	0.03
		07-17-92	81	48	0.2	12	384	0.52	0.45	<0.01
		08-27-92	80	43	0.3	12	374	0.51	0.40	<0.03

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	SITE	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)
424440106315601	GOOSE EGG SPG NR GOOSE EGG		111ALVM	SP	10-24-91	1330	18	<10	3
			111ALVM	SP	05-27-92	1130	17	20	3
			111ALVM	SP	07-17-92	1000	18	<10	3
			111ALVM	SP	08-27-92	0855	--	10	4

PLATTE RIVER BASIN

424440106315601 GOOSE EGG SPRING (UPPER POOL) NEAR GOOSE EGG, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	DATE	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)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
424440106315601		10-24-91	68	<0.5	50	<1.0	<1	<3	<1	23
		05-27-92	63	<0.5	50	<1.0	4	<3	2	8
		07-17-92	62	<0.5	50	<1.0	<1	<3	5	<3
		08-27-92	64	<0.5	50	<1.0	<1	<3	<1	4

STATION	NUMBER	DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
424440106315601		10-24-91	<1	38	<1	<0.1	1	<1.0	780	9
		05-27-92	<1	36	<1	0.2	<1	<1.0	800	3
		07-17-92	1	33	<1	0.5	1	<1.0	800	14
		08-27-92	<1	35	<1	<0.1	1	<1.0	760	<3

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	SITE	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
424440106315601		111ALVM	GOOSE EGG SPG NR	GOOSE EGG	SP	10-24-91	1330	14
		111ALVM			SP	07-17-92	1000	--

STATION	NUMBER	DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	TRITIUM TOTAL (PCI/L)
424440106315601		10-24-91	<0.6	6.4	1.2	4.8	1.1	1.1	5.8	--
		07-17-92	--	--	--	--	--	--	--	35

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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