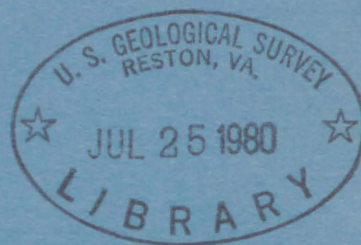


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Water Resources Data for Wyoming

Volume 2. Green River Basin, Bear
River Basin, and Snake
River Basin



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-79-2
WATER YEAR 1979

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

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). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

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



Water Resources Data for Wyoming

Volume 2. Green River Basin, Bear
River Basin, and Snake
River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-79-2

WATER YEAR 1979

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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

1980

PREFACE

This report was prepared by personnel of the Wyoming district of the Water Resources Division of the U.S. Geological Survey under the supervision of William W. Dudley, Jr., District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Wyoming and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and Robert J. Dingman, Assistant Chief Hydrologist for the Scientific Publications and Data Management.

Data for Wyoming are in two volumes as follows:

- Volume 1. Missouri River Basin
- Volume 2. Green River, Bear River, and Snake River Basins

BIBLIOGRAPHIC DATA SHEET	1. Report No. USGS/WRD/HD-80/050	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for Wyoming, Water Year 1979 Volume 2. Green River, Bear River, and Snake River Basins		5. Report Date June 1980	
7. Author(s)		6.	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division P.O. Box 1125 Cheyenne, WY 82001		8. Performing Organization Rept. No. USGS-WDR-WY-79-2	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division P.O. Box 1125 Cheyenne, WY 82001		10. Project/Task/Work Unit No.	
		11. Contract/Grant No.	
		13. Type of Report & Period Covered Annual - Oct. 1, 1978 to Sept. 30, 1979	
		14.	
15. Supplementary Notes Prepared in cooperation with the State of Wyoming and with other agencies.			
16. Abstracts Water resources data for the 1979 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells. Volume 2 of this report contains discharge records for 62 gaging stations; stage and contents for 5 lakes and reservoirs; water quality for 39 gaging stations and 30 ungaged stations; and water levels for 8 observation wells. Also included are 25 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. 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. Key Words and Document Analysis. 17a. Descriptors *Wyoming, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow-rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.			
17b. Identifiers/Open-Ended Terms			
17c. COSATI Field/Group			
18. Availability Statement This report may be purchased from: National Technical Information Service Springfield, VA 22161		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 283
		20. Security Class (This Page) UNCLASSIFIED	22. Price

CONTENTS

	Page
Preface.....	III
List of gaging stations, in downstream order, for which records are published.....	VI
Introduction.....	1
Cooperation.....	1
Hydrologic conditions.....	2
Definition of terms.....	2
Downstream order and station number.....	9
Numbering system for wells and miscellaneous sites.....	9
Special networks and programs.....	10
Explanation of stage and water-discharge records.....	10
Collection and computation of data.....	10
Accuracy of field data and computed results.....	12
Other data available.....	13
Records of discharge collected by agencies other than the Geological Survey.....	13
Explanation of water-quality records.....	13
Collection and examination of data.....	13
Water analysis.....	13
Water temperature.....	13
Sediment.....	14
Explanation of ground-water level records.....	14
Collection of the data.....	14
Publications of techniques of water-resources investigations.....	15
Gaging station records.....	21
Discharge at crest-stage partial-record stations and miscellaneous sites.....	246
Analyses of samples collected at water-quality miscellaneous sites.....	250
Ground-water records.....	279
Ground-water level records.....	279
Index.....	281

ILLUSTRATIONS

Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude).....	9
2. System for numbering wells and miscellaneous sites (township and range).....	10
3. Discharge during 1979 water year compared with median discharge for period 1941-70 for two representative gaging stations.....	16
4. Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins.....	17
5. Location of gaging stations and peak-flow partial-record stations in the Snake River basin.....	18
6. Location of selected observation wells in the Green River and Bear River basins..	19

Letter after station name designates type of data: [(d) discharge, (e) elevation, gage height, or contents, (c) chemical, (b) biological, (m) microbiological, (p) pesticides, (t) water temperature, (s) sediment]

COLORADO RIVER BASINGREEN RIVER BASIN

Green River at Warren Bridge, near Daniel, WY (dcbm)	21
Green River near Big Piney, WY (c)	24
New Fork River:	
Pine Creek above Fremont Lake, WY (d)	25
East Fork River near Big Sandy, WY (d)	26
New Fork River near Big Piney, WY (dcb)	27
La Barge Creek near La Barge Meadows ranger station, WY (d)	31
Green River near La Barge, WY (dcbmps)	32
Fontenelle Creek near Herschler Ranch, near Fontenelle, WY (d)	39
Fontenelle Reservoir near Fontenelle, WY (e)	40
Green River below Fontenelle Reservoir, WY (dcbm)	41
Big Sandy River at Leckie Ranch, near Big Sandy, WY (d)	52
Big Sandy River near Parson, WY (dcs)	53
Little Sandy Creek above Eden, WY (dcs)	55
Big Sandy River below Eden, WY (dcmps)	59
Big Sandy River at Gasson Bridge, near Eden, WY (dcs)	65
Green River at Big Island, near Green River, WY (cs)	68
Bitter Creek:	
Great Divide basin:	
Separation Creek near Riner, WY (dcms)	70
Bitter Creek near Bitter Creek, WY (dcbms)	75
Bitter Creek above Salt Wells Creek, near Salt Wells, WY (dcms)	85
Salt Wells Creek near South Baxter, WY (dcmts)	91
Dry Canyon Creek near South Baxter, WY (s)	101
Salt Wells Creek near Salt Wells, WY (dcms)	102
Killpecker Creek at Rock Springs, WY (cm)	107
Bitter Creek below Little Bitter Creek, near Kanda, WY (cbms)	110
Green River near Green River, WY (dcmts)	114
Green River below Green River, WY (cbmp)	123
Blacks Fork near Robertson, WY (d)	129
Blacks Fork near Millburne, WY (d)	130
East Fork of Smiths Fork, near Robertson, WY (d)	131
West Fork of Smiths Fork, near Robertson, WY (d)	132
Smiths Fork near Lyman, WY (cmps)	133
Blacks Fork near Lyman, WY (dcmps)	135
Muddy Creek:	
Little Muddy Creek near Glencoe, WY (dcms)	141
Muddy Creek near Hampton, WY (dcms)	148
Hams Fork below Pole Creek, near Frontier, WY (d)	153
Hams Fork near Diamondville, WY (cm)	154
Hams Fork near Granger, WY (cs)	158
Blacks Fork near Little America, WY (dcmps)	160
Henrys Fork:	
Burnt Fork near Burntfork, WY (d)	165
Henrys Fork near Manila, UT (dct)	166
Flaming Gorge Reservoir at Flaming Gorge Dam, UT (e)	170
Green River near Greendale, UT (dcbmts)	171
Vermillion Creek near Hiawatha, CO (dcms)	177
Yampa River:	
Little Snake River near Slater, CO (dcp)	182
Slater Fork near Slater, CO (d)	185
Little Snake River near Dixon, WY (ds)	186
Willow Creek near Dixon, WY (d)	188
Little Snake River near Baggs, WY (cp)	189

GREAT SALT LAKE BASINBEAR RIVER BASINBear River:

East Fork Bear River near Evanston, WY (d)	191
Hilliard-East Fork Canal near State line, near Evanston, WY (d)	192
West Fork Bear River at Whitney Dam, near Oakley, UT (d)	193
West Fork Bear River below Deer Creek, near Evanston, WY (d)	194
Bear River near Utah-Wyoming State line (d)	195
Sulphur Creek above reservoir, near Evanston, WY (d)	196
Sulphur Creek below reservoir, near Evanston, WY (d)	197
Chapman Canal at State line, near Evanston, WY (d)	198
Bear River above reservoir, near Woodruff, UT (dcm)	199
Woodruff Narrows Reservoir near Woodruff, UT (e)	202
Bear River below reservoir, near Woodruff, UT (d)	203
Bear River near Randolph, UT (d)	204
Twin Creek at Sage, WY (dcms)	205
Bear River below Pixley Dam, near Cokeville, WY (d)	212
Smiths Fork near Border, WY (d)	213

GREAT SALT LAKE BASIN--ContinuedBEAR RIVER BASIN--Continued

Bear River below Smiths Fork, near Cokeville, WY (d)	214
Bear River at Border, WY (dcbmpts)	215
Thomas Fork near Wyoming-Idaho State line (d).	223

SNAKE RIVER BASINSnake River:

Jackson Lake near Moran, WY (e).	224
Snake River near Moran, WY (d)	225
Pacific Creek near Moran, WY (d)	226

BUFFALO FORK BASIN

Buffalo Fork above Lava Creek, near Moran, WY (d).	227
--	-----

FLAT CREEK BASINFlat Creek:

Cache Creek near Jackson, WY (dcmps)	228
Snake River below Flat Creek, near Jackson, WY (d)	232
Snake River above reservoir, near Alpine, WY (dcm)	233

GREYS RIVER BASIN

Greys River above reservoir, near Alpine, WY (dt).	236
--	-----

SALT RIVER BASINSalt River:

Swift Creek near Afton, WY (d)	239
Salt River above reservoir, near Etna, WY (dcmtpt).	240

HENRYS FORK BASIN

Grassy Lake near Moran, WY (e)	245
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WATER RESOURCES DATA FOR WYOMING, 1979

VOLUME 1: MISSOURI RIVER BASIN VOLUME 2: GREEN RIVER, BEAR RIVER, AND SNAKE RIVER BASINS

INTRODUCTION

Water resources data for the 1979 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This volume contains discharge records for 62 gaging stations; stage and contents for 5 lakes and reservoirs, water quality for 39 gaging stations, and 30 ungaged stations; and water levels for 8 observation wells. Also included are 25 crest-stage partial-record stations. In Volume 1 (Missouri River basin) locations of gaging stations and peak-flow partial-record stations are shown in figures 4-6, and locations of observation wells are shown in figures 7-9. In Volume 2 (Green River, Bear River, and Snake River basins) locations of gaging stations and peak-flow partial-record stations are shown in figures 4 and 5, and locations of observation wells are shown in figure 6. 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.

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 Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report WY-79-2." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

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

Wyoming State Engineer, George L. Christopoulos

Wyoming Department of Agriculture, Larry J. Bourret, Commissioner of Agriculture

Wyoming Highway Department, Leno H. Menghini, Superintendent and Chief Engineer

Wyoming Department of Environmental Quality, Robert E. Sundin, Director

Wyoming Department of Economic Planning and Development, Myron W. Goodson, Chief of Water Development

Wyoming Game and Fish Department, Earl M. Thomas, Director

Wyoming Water Resources Research Institute, Paul A. Rechard, Director

City of Cheyenne, Board of Public Utilities, Ray L. Sherard, Director

Assistance in the form of funds and services was given by the Bureau of Land Management, U.S. Department of the Interior, in collecting records for 9 gaging stations, 10 water-quality stations, and 10 sediment stations; by the Environmental Protection Agency for 9 water-quality stations; and by the Water and Power Resources Service, U.S. Department of the Interior for 4 gaging stations and 1 water-quality station, published in this report.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow at the beginning of the 1979 water year was near normal at the four index stations. The index stations are Tongue River near Dayton, North Platte River above Seminoe Reservoir near Sinclair, Green River at Warren Bridge near Daniel, and Bear River at Border. Monthly and annual means are compared with the median flows for the index sites in figure 3. The median is computed from the flows for the period 1941-70. The normal trend continued through the first half of the water year. Through the months of May, June, and July the runoff was deficient for the Tongue River, Green River, and Bear River. This was indicative of the below normal snowpacks in the respective watersheds. The snowpack in the Upper North Platte River watershed was above normal and this is reflected in the above normal runoff for the months of May, June, and July. The precipitation in August was above normal in most watersheds which is indicated by the above or near normal runoff at the index sites.

Reservoir storage in the Yellowstone River basin decreased 317,600 acre-feet (392 hm³) during the year. This includes the Anchor, Bull Lake, Boysen, Buffalo Bill, and Bighorn reservoirs. Storage in Keyhole Reservoir decreased 11,000 acre-feet (13.6 hm³) with a maximum storage of 171,600 acre-feet (212 hm³) on April 22. In the North Platte River basin, storage in the major reservoirs increased 131,100 acre-feet (162 hm³). In the Green River basin, the storage contents decreased 31,800 acre-feet (39.2 hm³) in the Fontenelle Reservoir and decreased 254,000 acre-feet (313 hm³) in the Flaming Gorge Reservoir during the water year.

DEFINITION OF TERMS

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

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

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. 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 multi-celled 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, 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 the organisms which produce colonies within 24 hours when incubated at 35°C ± 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 intestines 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 which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Bed material is the unconsolidated material 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 microorganisms, 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 60°C for zooplankton and 105°C for 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 ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

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

Bottom material: See Bed material.

Recoverable from bottom material 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 only 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.

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

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 pigments in plants.

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

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

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

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

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

Cubic foot per second (ft^3/s , 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 approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

Dissolved that material in a representative water sample which passes through a 0.45 μ 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.

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

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

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

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution 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 a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

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 substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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 represent 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 sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) 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.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. 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 milliliters (mL) or liters (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.

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 suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

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

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

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

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

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

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

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/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of 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 community is dominated by small crustaceans and rotifers.

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

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 [mg C/(m².time) for periphyton and macrophytes and mg C/(m³.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactivity 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 [mg O₂/(m².time) for periphyton and macrophytes and mg O₂/(m³.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.

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.

Suspended, recoverable 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 would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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

Suspended 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).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Suspended, total 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.

Total 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 determines all of the constituent in the sample.)

Total, recoverable 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 would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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 weight or volume, that passes a section during a given time.

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

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks 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 micromhos 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 micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

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 lived.

Natural substrates refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

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 multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

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 planimeted. All areas shown are those for the stage when the planimeted map was made.

Surficial bed material is that 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 the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

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

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the 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 in milligrams per liter by 0.00136.

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

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1978, is called the "1978 water year."

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station 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 8-digit number for each station such as 06630000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream order number "630000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

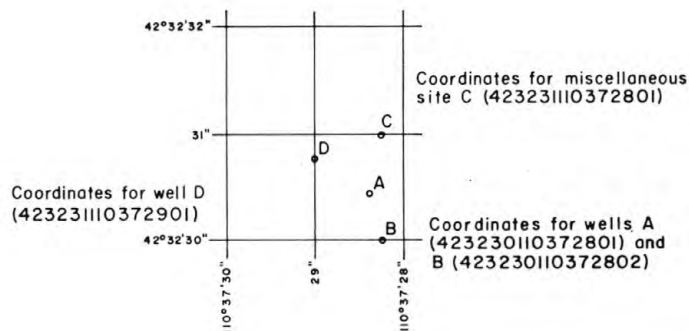


Figure 1.—System for numbering wells and miscellaneous sites (latitude and longitude).

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 figure 2. 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 26N-063W-32CDA is in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.26 N., R.63 W. Consecutive terminal numbers are added if more than one well is recorded within a 10-acre tract.

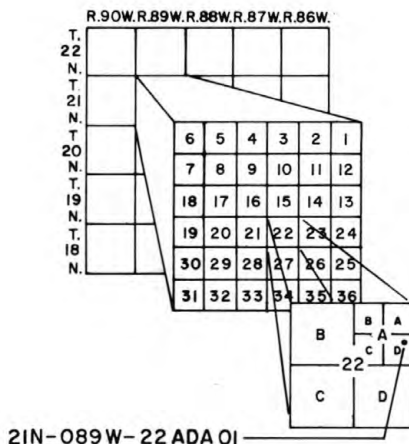


Figure 2.—System for numbering wells and miscellaneous sites (township and range).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

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

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

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

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

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations 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 revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS".

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be 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, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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

Other data available

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

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

Records of discharge collected by agencies other than the Geological Survey

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, 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 district office.

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 daily 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.

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 loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment 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 in predicting long-term sediment-discharge characteristics of the stream.

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figures 1 and 2.

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

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is explained in the Definition of Terms paragraph. Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 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 in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehrlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

WATER RESOURCES DATA FOR WYOMING, 1979

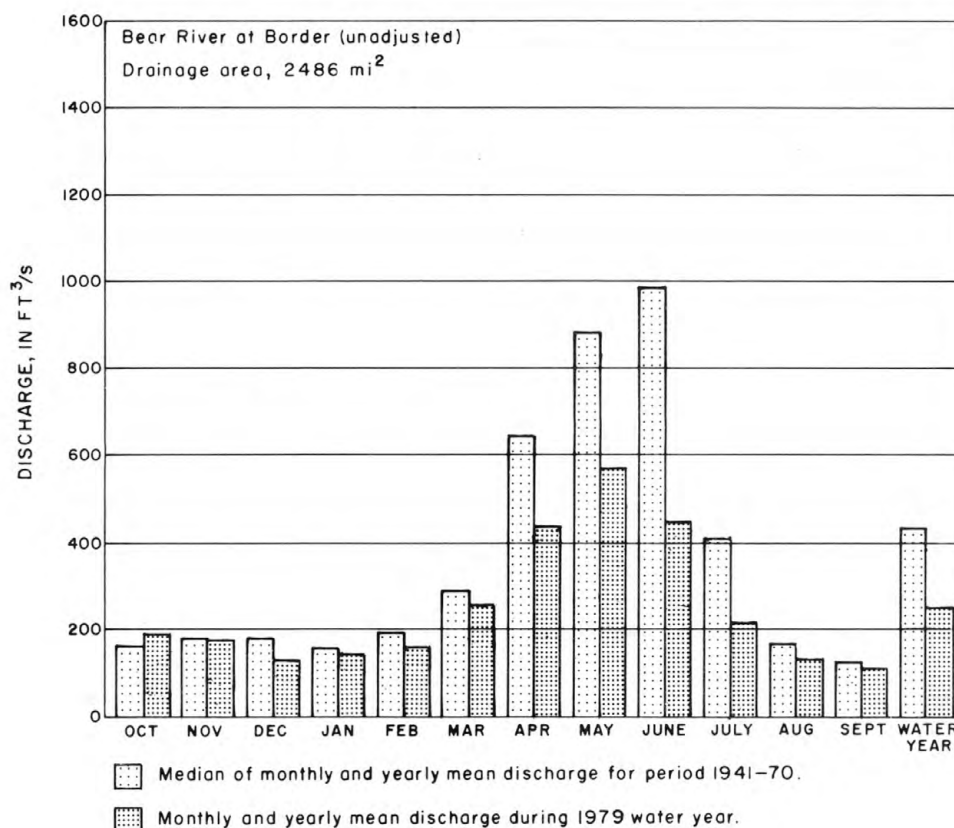
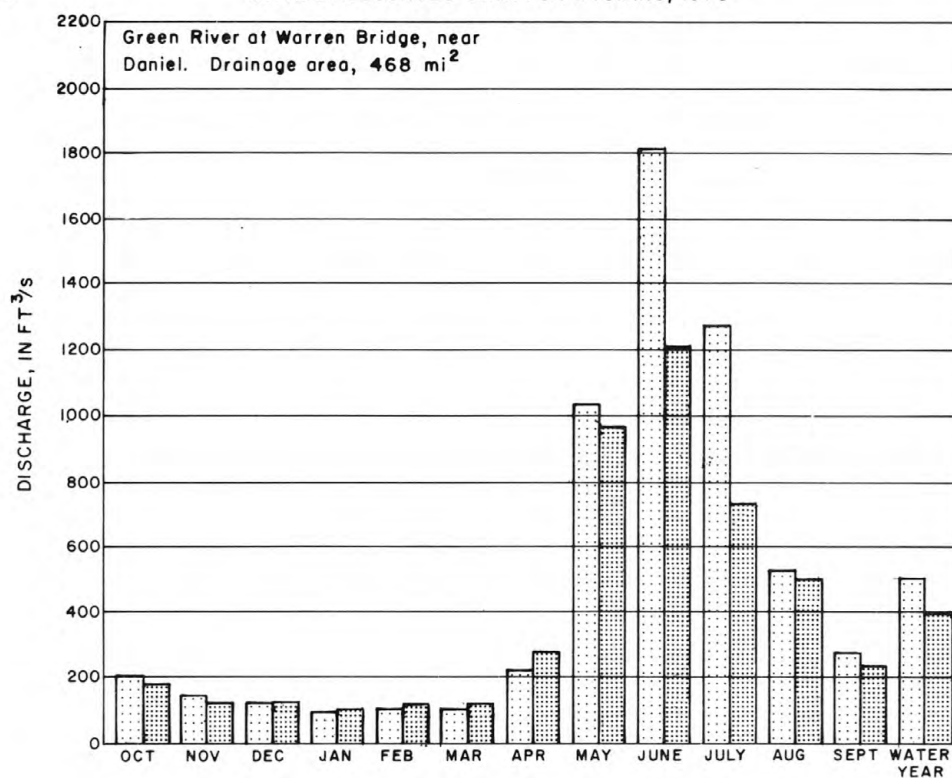


Figure 3.—Discharge during 1979 water year compared with median discharge for period 1941-70 for two representative gaging stations.

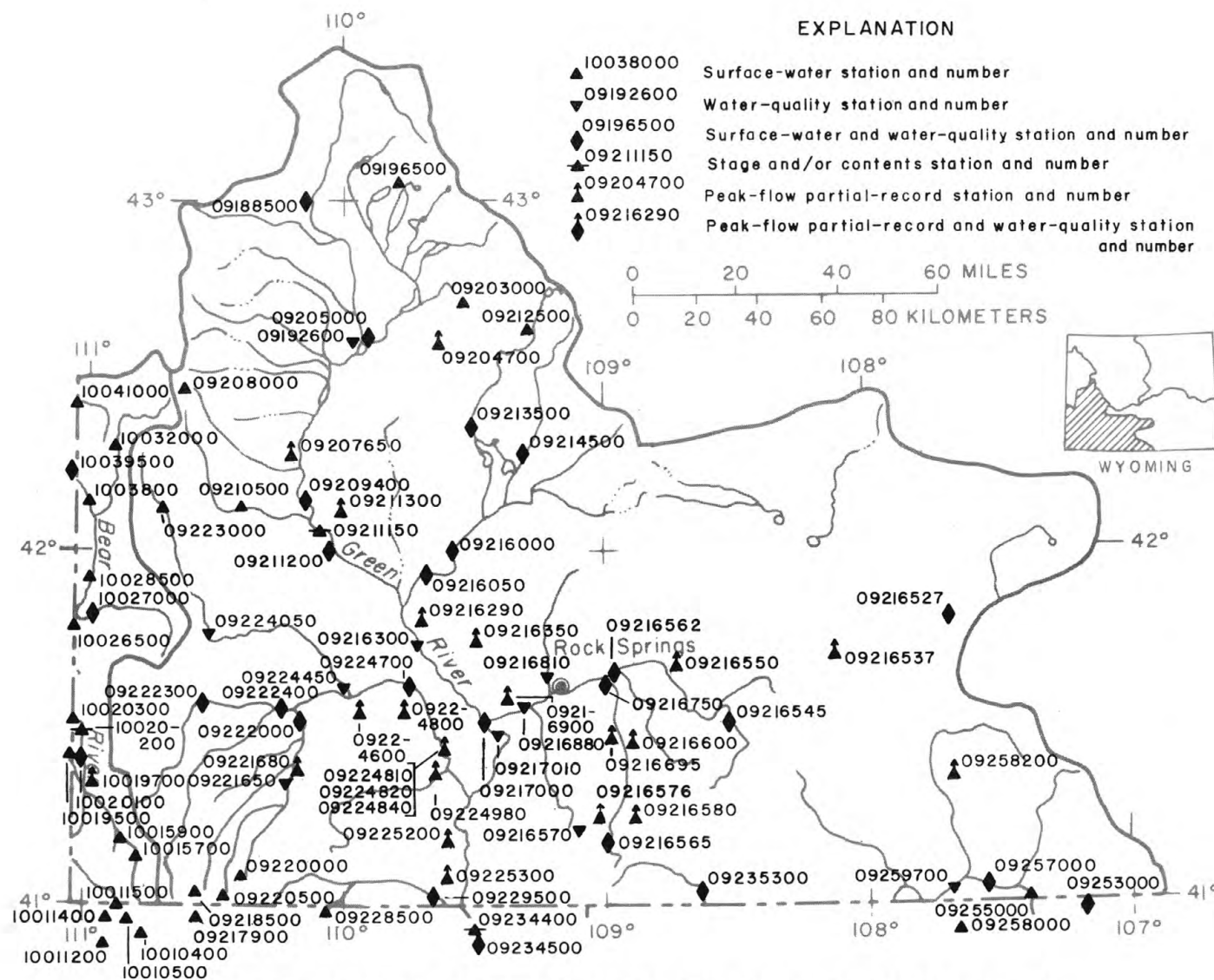


Figure 4.—Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins.

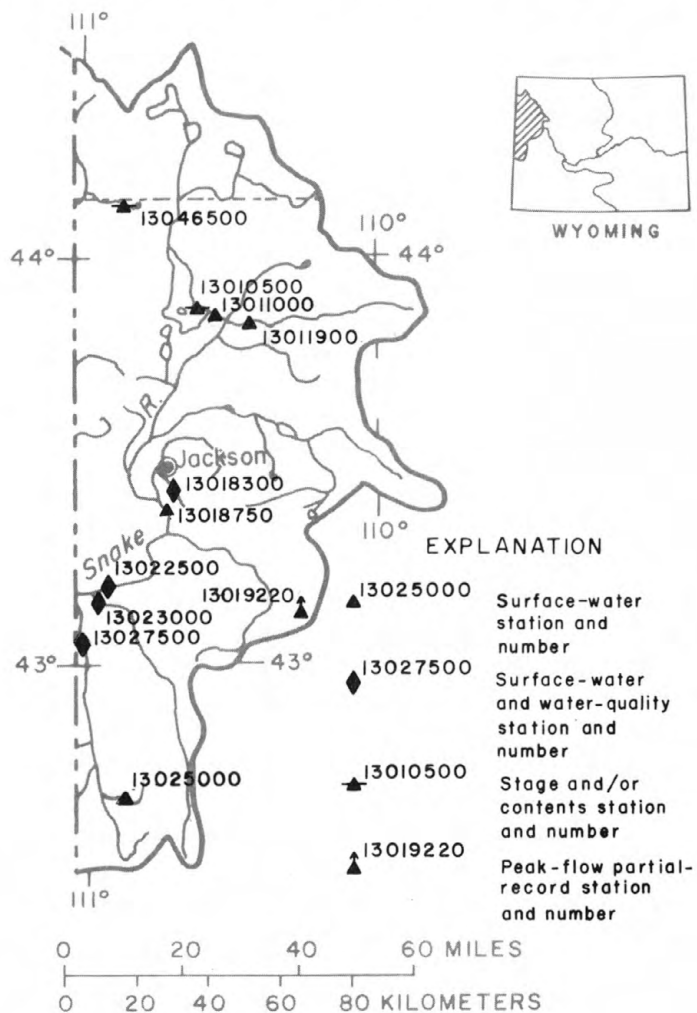


Figure 5.—Location of gaging stations and peak-flow partial-record stations in the Snake River basin.

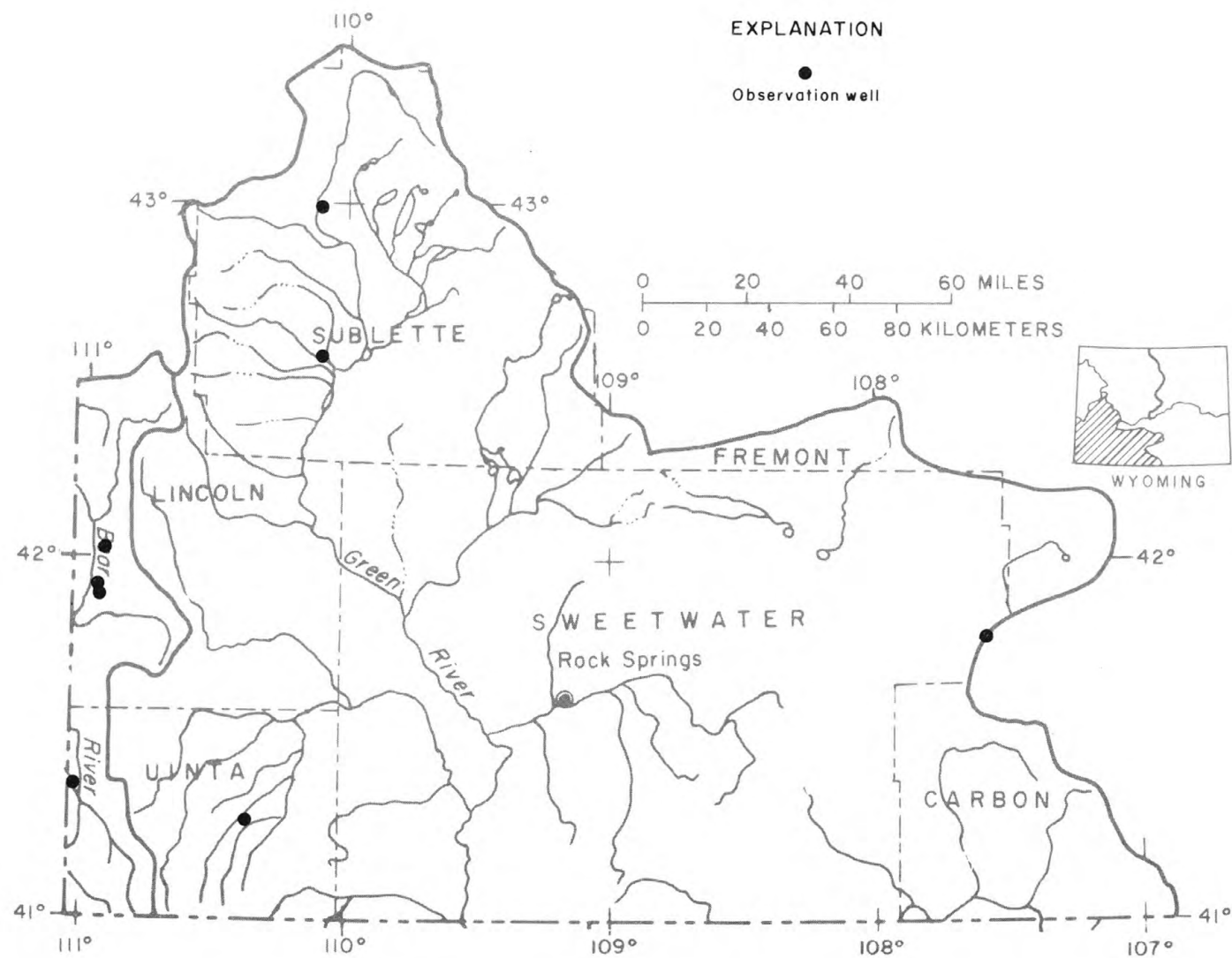


Figure 6.—Location of selected observation wells in the Green River and Bear River basins.

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

LOCATION (REVISED).--Lat 43°01'08", long 110°07'03", in SE¼SE¼NE¼ sec.8, T.35 N., R.111 W., Sublette County, Hydrologic Unit 14040101, on right bank 100 ft (30 m) upstream from bridge on U.S. Highways 187 and 189, 3.4 mi (5.5 km) upstream from Beaver Creek, and 12 mi (19 km) north of Daniel.

DRAINAGE AREA.--468 mi² (1,212 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft (2,276.274 m), National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1977, on left bank at same datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 10,200 acres (41.3 km²), of which about 6,100 acres (24.7 km²) are below station.

AVERAGE DISCHARGE.--48 years, 509 ft³/s (14.41 m³/s), 368,800 acre-ft/yr (455 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,840 ft³/s (137 m³/s) June 9, 1972, gage height, 5.77 ft (1.759 m); minimum recorded, 31 ft³/s (0.88 m³/s) Nov. 26, 1933, gage height, 0.70 ft (0.213 m), from rating curve extended below 120 ft³/s (3.40 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft³/s (66.0 m³/s) May 29, gage height, 4.29 ft (1.308 m); minimum daily, 90 ft³/s (2.55 m³/s) Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	144	120	97	94	114	145	498	1200	1340	493	311
2	232	142	118	95	94	116	140	551	933	1300	471	307
3	224	142	114	93	95	110	130	515	833	1170	455	287
4	214	142	114	92	96	105	124	569	882	1030	435	267
5	214	142	108	90	97	110	122	661	1100	899	425	267
6	204	118	100	91	99	108	130	748	1440	841	415	255
7	197	115	100	93	102	105	140	575	1680	833	410	251
8	191	130	106	97	106	105	160	493	1510	801	435	251
9	188	140	110	100	108	104	200	455	1140	762	455	255
10	185	130	115	104	112	100	240	410	874	740	510	255
11	182	110	115	108	116	100	260	370	825	725	504	255
12	176	100	120	110	122	104	250	360	1000	725	471	255
13	170	100	115	110	125	108	247	370	1330	703	488	259
14	165	97	115	108	129	112	260	410	1630	682	601	255
15	165	100	115	108	130	114	271	476	1870	682	748	235
16	162	105	115	106	127	122	311	634	1900	647	778	221
17	167	115	120	104	124	124	346	778	1700	601	668	207
18	170	125	120	102	120	118	400	899	1440	608	557	197
19	170	130	120	100	118	116	420	942	1300	620	527	194
20	170	135	125	102	114	114	395	995	1070	627	521	191
21	167	135	120	104	110	114	365	1020	865	601	608	188
22	167	130	120	106	110	112	385	1140	801	582	710	185
23	165	125	115	106	108	114	425	1280	841	601	661	182
24	160	135	115	104	106	116	360	1420	899	640	557	179
25	157	130	115	100	104	122	263	1530	977	647	493	179
26	157	125	115	97	104	126	255	1700	1080	601	440	182
27	154	122	112	96	106	135	287	1930	1170	569	405	191
28	154	117	110	95	108	150	333	2100	1230	569	370	194
29	154	115	108	94	---	155	385	2280	1310	545	351	191
30	147	120	108	94	---	155	455	2130	1330	521	338	188
31	132	---	100	95	---	150	---	1640	---	504	315	---
TOTAL	5495	3716	3523	3101	3084	3658	8204	29879	36160	22716	15615	6834
MEAN	177	124	114	100	110	118	273	964	1205	733	504	228
MAX	235	144	125	110	130	155	455	2280	1900	1340	778	311
MIN	132	97	100	90	94	100	122	360	801	504	315	179
AC-FT	10900	7370	6990	6150	6120	7260	16270	59260	71720	45060	30970	13560

CAL YR 1978 TOTAL 201670 MEAN 553 MAX 2570 MIN 78 AC-FT 400000
WTR YR 1979 TOTAL 141985 MEAN 389 MAX 2280 MIN 90 AC-FT 281600

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT												
01...	1030	--	235	370	8.0	8.0	1	8.8	25	190	83	56
29...	1040	--	154	460	8.0	3.5	1	10.3	K82	260	120	75
NOV												
26...	1100	125	--	500	7.7	.0	1	10.4	K7	280	150	83
DEC												
22...	1030	120	--	540	7.6	.0	1	9.7	K9	290	160	83
JAN												
20...	1200	102	--	540	7.6	.0	1	9.1	K2	270	150	78
FEB												
25...	1100	104	--	590	7.7	.0	1	9.5	25	310	200	92
APR												
02...	1100	140	--	570	7.9	.0	2	10.3	K1	290	180	86
30...	1040	--	435	445	7.9	6.0	4	9.8	22	210	70	59
JUN												
04...	1000	--	882	280	8.0	11.0	3	8.7	54	140	62	42
25...	1020	--	968	175	8.0	13.5	2	8.1	K83	83	35	24
AUG												
04...	0915	--	440	205	8.0	13.0	1	8.2	21	90	46	28
29...	1300	--	351	245	8.2	16.0	1	8.2	K7	110	62	33
SEP												
26...	1300	--	188	360	8.1	12.0	1	10.4	33	190	100	54

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

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (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											
01...	12	3.4	.1	--	1.6	130	0	110	84	1.8	.2
29...	17	4.0	.1	--	1.5	170	0	140	130	1.9	.2
NOV											
26...	18	4.2	.1	--	1.3	160	0	130	170	1.5	.3
DEC											
22...	19	4.1	.1	--	1.4	150	0	120	150	1.5	.3
JAN											
20...	18	3.6	.1	--	1.4	150	0	120	150	1.5	.3
FEB											
25...	20	2.4	.1	--	4.0	140	0	110	200	1.4	.3
APR											
02...	19	4.1	.1	--	1.4	140	0	110	180	1.4	.4
30...	15	4.6	.1	--	1.9	170	0	140	82	2.3	.2
JUN											
04...	9.4	2.4	.1	3.7	1.3	100	0	82	48	1.4	.2
25...	5.7	1.6	.1	--	1.0	59	0	48	32	.9	.1
AUG											
04...	4.8	1.3	.1	2.4	1.1	53	0	43	48	1.2	.1
29...	7.2	2.6	.1	3.8	1.2	61	0	50	63	1.2	.2
SEP											
26...	14	3.0	.1	4.1	1.1	--	--	90	95	1.6	.2

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT											
01...	4.5	228	.31	145	.12	.06	--	--	39	.000	.000
29...	6.8	321	.44	133	.22	.01	--	--	--	--	--
NOV											
26...	7.1	365	.50	123	.27	.01	--	--	--	--	--
DEC											
22...	7.5	342	.47	111	.19	.02	--	--	--	--	--
JAN											
20...	7.3	334	.45	92.0	.08	.01	--	--	--	--	--
FEB											
25...	8.0	398	.54	112	.18	.01	--	--	--	--	--
APR											
02...	7.4	369	.50	139	.11	.01	--	--	--	--	--
30...	7.0	256	.35	301	.12	.04	.12	.12	--	--	--
JUN											
04...	3.9	158	.21	376	.06	.03	.09	.09	--	--	--
25...	3.1	97	.13	254	.00	.01	.03	.03	--	--	--
AUG											
04...	1.8	112	.15	133	.00	.01	--	.03	--	--	--
29...	2.0	141	.19	134	.01	.01	--	.03	--	--	--
SEP											
26...	.6	224	.30	114	.04	.01	--	.03	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO OCTOBER 1978

DATE	OCT 1,78
TIME	1030
TOTAL CELLS/ML	39
DIVERSITY: DIVISION	0.9
..CLASS	0.9
...ORDER	1.2
...FAMILY	1.6
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	2	5
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	9#	23
....COCCONEIS	7#	18
....RHOICOSPHEA	2	5
....NITZSCHACEAE		
....NITZSCHIA	5	14
CYANOPHYTA (BLUE-GREEN ALGAE)		
..CYANOPHYCEAE		
...HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	14#	36

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09192600 GREEN RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'14", long 109°56'58", in NE¼NE¼NE¼ sec.21, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040101, at bridge on State Secondary Highway 1801, 1.9 mi (3.1 km) upstream from New Fork River, 8.4 mi (13.5 km) northeast of Big Piney, and 16.2 mi (26.1 km) southwest of Boulder.

DRAINAGE AREA.--1,260 mi² (3,260 km²), approximately.

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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 06...	1100	124	400	8.1	6.5	190	67	55	12	7.7	.2	1.1
NOV 01...	1045	58	430	8.0	4.5	260	100	74	19	12	.3	.9
NOV 30...	1400	234	530	8.5	.0	270	90	78	19	12	.3	1.7
JAN 04...	1400	149	520	8.3	.0	280	110	81	18	6.9	.2	1.1
FEB 09...	1430	190	--	--	.0	280	110	83	18	8.7	.2	1.0
MAR 08...	1610	194	300	--	.0	260	88	77	16	7.9	.2	1.1
APR 05...	1130	241	520	--	1.0	260	71	71	19	19	.5	1.6
MAY 01...	1225	1100	--	--	10.5	210	38	58	15	10	.3	2.2
JUN 08...	0800	1760	240	8.3	7.0	130	--	38	9.5	7.0	.3	1.1
JUL 03...	1040	1600	--	--	15.0	59	0	17	4.0	6.7	.4	.5
JUL 30...	1110	368	325	8.5	18.0	140	25	41	9.9	8.7	.3	.8
SEP 04...	1000	262	340	--	14.0	150	60	43	9.5	6.0	.2	.8

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 06...	150	0	120	71	8.5	.1	3.8	309	.42	103	.00	.01
NOV 01...	190	0	160	120	2.9	.3	4.5	327	.44	51.2	.00	.02
NOV 30...	220	0	180	120	2.2	.3	6.4	350	.48	221	.00	.00
JAN 04...	210	0	170	110	.0	.1	8.0	326	.44	131	.09	.01
FEB 09...	210	0	170	130	2.0	.4	6.2	350	.48	180	.09	.02
MAR 08...	210	0	170	95	2.5	.3	6.4	306	.42	160	.05	.00
APR 05...	230	0	190	110	4.9	.3	5.7	342	.47	223	.00	.00
MAY 01...	210	0	170	62	4.1	.3	6.2	258	.35	766	.00	.06
JUN 08...	--	--	--	35	--	.5	8.2	--	--	--	.00	--
JUL 03...	76	0	62	9.9	2.0	.1	8.5	86	.12	372	.05	.02
JUL 30...	140	0	120	40	1.7	.2	--	--	.23	170	.00	.00
SEP 04...	110	0	90	65	.5	.2	2.2	181	.25	128	.00	.00

09196500 PINE CREEK ABOVE FREMONT LAKE, WY

LOCATION.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., Sublette County, Hydrologic Unit 14040102, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Fremont Lake, 0.5 mi (0.8 km) downstream from Fremont Creek, and 12 mi (19 km) northeast of Pinedale.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WSP 1443: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (2,298 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--25 years, 177 ft³/s (5.013 m³/s), 128,200 acre-ft/yr (158 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, 1959, gage height, 7.15 ft (2.179 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Apr. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 27	0300	*1,370 38.8	5.82 1.774	June 15	0200	1,350 38.2	5.79 1.765
June 6	2300	1,030 29.2	5.35 1.631				

Minimum daily discharge, 11 ft³/s (0.31 m³/s) Mar. 21-27, Apr. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	24	19	22	15	14	13	63	415	678	144	85
2	81	22	19	23	15	15	12	71	344	595	137	82
3	76	21	18	22	14	14	11	72	368	519	130	80
4	73	20	19	22	14	14	11	80	527	431	125	76
5	68	19	20	21	13	14	12	96	788	395	120	73
6	64	18	21	20	12	14	12	107	986	371	116	68
7	61	17	19	18	13	14	12	94	912	374	111	65
8	57	17	19	17	14	14	12	87	636	360	113	62
9	54	17	21	16	14	14	13	79	450	345	112	59
10	51	17	22	16	13	13	13	72	419	337	112	56
11	49	17	22	16	12	13	13	66	570	330	112	54
12	47	16	23	18	12	12	13	63	758	309	111	52
13	44	16	22	18	12	12	13	65	1000	287	120	51
14	42	16	22	18	14	12	14	84	1210	282	136	50
15	39	17	21	18	15	12	15	121	1200	272	144	49
16	37	18	21	19	15	12	18	165	973	251	150	47
17	38	19	21	19	14	12	23	218	837	240	149	45
18	37	20	21	19	15	12	27	266	778	242	141	43
19	36	20	22	19	14	12	26	301	592	242	135	41
20	35	20	22	19	14	12	26	338	430	231	136	39
21	33	20	21	19	14	11	27	398	375	213	140	38
22	32	20	21	18	14	11	31	508	434	200	142	36
23	31	20	22	19	14	11	34	707	552	201	140	34
24	31	20	22	19	14	11	33	895	612	215	133	31
25	30	19	22	18	14	11	33	938	674	211	124	30
26	29	19	21	17	14	11	32	1110	685	194	117	30
27	28	18	22	16	14	11	36	1330	692	183	109	29
28	27	18	23	16	13	12	43	1280	730	173	103	28
29	26	18	22	16	---	12	51	1230	735	164	97	27
30	25	19	22	15	---	12	58	824	735	157	92	27
31	24	---	23	15	---	13	---	577	---	151	88	---
TOTAL	1389	562	655	568	385	387	687	12305	20417	9153	3839	1487
MEAN	44.8	18.7	21.1	18.3	13.8	12.5	22.9	397	681	295	124	49.6
MAX	84	24	23	23	15	15	58	1330	1210	678	150	85
MIN	24	16	18	15	12	11	11	63	344	151	88	27
AC-FT	2760	1110	1300	1130	764	768	1360	24410	40500	18150	7610	2950
CAL YR 1978	TOTAL	77125	MEAN 211	MAX 1410	MIN 16	AC-FT 153000						
WTR YR 1979	TOTAL	51834	MEAN 142	MAX 1330	MIN 11	AC-FT 102800						

09203000 EAST FORK RIVER NEAR BIG SANDY, WY

LOCATION.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., Sublette County, Hydrologic Unit 14040102, on left bank 1.0 mi (1.6 km) downstream from Jim Creek and 4.0 mi (6.4 km) northeast of Big Sandy.

DRAINAGE AREA.--79.2 mi² (205 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as East Fork near Big Sandy. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Oct. 1-5, Dec. 8-29, Dec. 31 to Mar. 12, June 4-6, which are poor. No diversion above station.

AVERAGE DISCHARGE.--41 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s (50.7 m³/s) June 11, 1965, gage height, 7.16 ft (2.182 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage height 6.88 ft (2.097 m); minimum observed, 1.2 ft³/s (0.034 m³/s) Jan. 4, 1940, Jan. 25, 1977 (discharge measurements).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 27	0330	*1,310 37.1	6.40 1.951	June 14	0530	908 25.7	5.75 1.753
aJune 6	0500	b790 22.4	b5.53 1.686				

a-about.

b-at least.

Minimum daily discharge, 6.3 ft³/s (0.18 m³/s) Jan. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	13	11	6.6	6.5	9.5	10	61	312	236	36	32
2	22	13	10	6.3	6.6	9.8	10	68	288	213	34	29
3	21	13	9.7	6.3	6.7	9.9	10	61	370	188	31	25
4	20	12	9.4	6.6	6.6	9.6	12	72	480	159	29	23
5	19	11	9.0	6.5	6.7	9.3	14	93	620	145	27	21
6	18	10	8.6	6.4	7.0	9.4	15	114	860	136	26	19
7	17	9.6	8.1	6.6	7.3	9.7	17	98	656	175	26	18
8	17	10	7.5	6.8	7.6	9.5	21	88	439	182	27	17
9	16	12	7.8	7.0	8.1	9.1	26	78	318	143	31	17
10	16	15	8.2	7.2	8.5	8.8	23	72	314	131	33	16
11	15	9.6	8.5	7.5	8.9	9.0	16	68	451	122	32	16
12	14	9.2	8.9	7.7	9.3	9.2	13	64	545	112	29	15
13	14	8.8	9.2	8.0	9.5	9.6	12	66	715	106	37	15
14	44	8.5	9.5	8.1	9.8	9.9	11	81	790	101	58	15
15	49	8.2	9.3	8.0	10	10	14	129	672	90	63	15
16	47	8.2	8.9	7.9	10	11	18	186	485	85	54	15
17	46	8.5	8.8	7.7	9.9	11	23	238	435	83	47	13
18	45	9.0	9.0	7.5	9.8	10	27	337	409	82	46	13
19	42	9.4	9.2	7.3	9.6	10	26	407	292	77	71	12
20	38	9.8	9.4	7.1	9.5	10	22	484	229	73	136	11
21	34	10	9.6	7.1	9.3	10	25	568	228	68	169	11
22	30	11	9.9	7.3	9.2	10	28	758	277	66	117	11
23	24	11	10	7.5	9.0	11	30	819	287	73	87	10
24	18	10	9.9	7.6	8.9	10	32	903	290	68	72	9.5
25	17	9.9	9.8	7.6	8.9	10	30	903	296	62	61	9.5
26	16	10	9.7	7.5	9.0	10	32	981	279	56	54	10
27	15	10	9.5	7.3	9.0	10	38	1170	283	53	48	12
28	15	9.8	9.2	7.1	9.3	10	44	1020	264	51	43	12
29	14	10	8.8	6.9	---	10	49	1040	261	47	39	11
30	13	11	8.2	6.7	---	10	55	630	258	43	36	10
31	11	---	7.4	6.5	---	10	---	412	---	39	33	---
TOTAL	750	310.5	282.0	222.2	240.5	305.3	703	12069	12403	3265	1632	463.0
MEAN	24.2	10.4	9.10	7.17	8.59	9.85	23.4	389	413	105	52.6	15.4
MAX	49	15	11	8.1	10	11	55	1170	860	236	169	32
MIN	11	8.2	7.4	6.3	6.5	8.8	10	61	228	39	26	9.5
AC-FT	1490	616	559	441	477	606	1390	23940	24600	6480	3240	918
CAL YR 1978	TOTAL	49271.9	MEAN	135	MAX	1210	MIN	7.4	AC-FT	97730		
WTR YR 1979	TOTAL	32645.5	MEAN	89.4	MAX	1170	MIN	6.3	AC-FT	64750		

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼NE¼NE¼ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 35 ft (11 m) downstream from old highway bridge, 3.4 mi (5.5 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Big Piney.

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Nov. 5-29, Jan. 3 to Feb. 9, Aug. 1 to Sept. 1, Sept. 28-30, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres (251 km²) above station.

AVERAGE DISCHARGE.--25 years, 722 ft³/s (20.45 m³/s), 523,100 acre-ft/yr (645 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,170 ft³/s (260 m³/s) June 10, 1972, gage height, 8.15 ft (2.484 m); minimum daily, 90 ft³/s (2.55 m³/s) Jan. 13, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,440 ft³/s (154 m³/s) May 30, gage height, 6.08 ft (1.853 m); minimum daily, 170 ft³/s (4.81 m³/s) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	308	280	180	180	290	365	403	3350	1480	533	395
2	389	308	270	175	175	290	350	427	2420	1460	516	383
3	384	311	260	170	175	280	340	458	1960	1410	493	366
4	385	310	250	180	180	265	330	438	1820	1380	474	352
5	384	311	240	175	185	270	325	464	1860	1270	450	343
6	377	280	230	180	190	275	350	496	2310	1150	432	334
7	378	260	225	182	195	270	510	534	2850	1130	425	323
8	377	280	235	186	200	265	710	543	2860	1030	473	316
9	375	300	250	190	202	255	646	566	2590	945	477	309
10	369	300	260	195	210	250	407	561	2130	916	493	301
11	362	270	270	200	220	255	364	532	1790	887	457	301
12	358	240	270	205	235	265	331	490	1620	886	432	332
13	353	220	260	210	250	275	326	449	1830	873	447	348
14	349	215	255	210	280	285	330	419	2410	835	480	346
15	346	225	250	205	310	300	374	401	3000	789	477	340
16	359	240	250	200	310	310	473	432	3260	790	457	331
17	366	250	260	195	305	315	613	526	3050	774	459	318
18	374	265	260	195	300	310	758	676	2770	751	456	320
19	366	285	255	190	295	300	756	912	2680	741	447	324
20	361	300	260	190	290	295	619	1190	2430	748	482	324
21	357	310	250	195	285	290	523	1570	2020	746	558	327
22	352	300	245	195	280	290	506	2020	1640	748	589	326
23	348	280	240	200	275	290	519	2470	1450	748	533	317
24	348	290	235	200	270	300	509	2890	1340	746	511	317
25	345	295	230	195	260	315	471	3310	1340	683	505	317
26	330	280	220	195	265	330	443	3650	1380	642	478	326
27	321	270	215	190	270	350	433	4150	1420	620	469	349
28	319	260	201	185	280	380	428	4980	1480	637	448	350
29	317	270	200	180	---	400	423	5330	1490	606	430	345
30	316	280	195	175	---	395	410	5410	1480	559	420	340
31	311	---	185	180	---	380	---	4630	---	539	410	---
TOTAL	11068	8313	7506	5903	6872	9340	13942	51327	64030	27519	14711	10020
MEAN	357	277	242	190	245	301	465	1656	2134	888	475	334
MAX	392	311	280	210	310	400	758	5410	3350	1480	589	395
MIN	311	215	185	170	175	250	325	401	1340	539	410	301
AC-FT	21950	16490	14890	11710	13630	18530	27650	101800	127000	54580	29180	19870
CAL YR 1978 TOTAL	346602			MEAN 950	MAX 6210	MIN 170	AC-FT 687500					
WTR YR 1979 TOTAL	230551			MEAN 632	MAX 5410	MIN 170	AC-FT 457300					

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT											
01...	0950	--	398	--	--	--	96	0	30	5.4	11
01...	1200	--	398	200	8.0	9.5	80	0	23	5.3	8.5
NOV											
01...	0950	--	305	210	8.1	2.5	--	--	--	--	--
DEC											
04...	1500	250	--	200	7.3	.0	96	0	29	5.9	9.7
28...	1530	201	--	190	8.3	.0	86	0	25	5.7	9.6
FEB											
09...	1200	--	--	--	--	--	87	0	26	5.4	9.1
MAR											
09...	1200	255	--	170	--	.0	87	5	24	6.8	8.5
APR											
05...	1500	325	--	210	--	.0	86	0	25	5.6	12
MAY											
01...	1400	--	398	--	--	11.5	89	0	26	5.9	11
JUN											
08...	1100	--	2850	75	7.3	8.5	26	1	7.4	1.8	3.0
JUL											
03...	1000	--	1410	--	--	16.0	110	20	31	8.4	11
30...	1505	--	555	225	8.6	20.0	85	0	26	5.2	8.7
SEP											
04...	1110	--	347	200	9.0	14.5	83	0	25	5.1	10

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (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 CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT											
01...	.5	1.3	120	0	98	14	1.5	.3	8.5	135	.18
01...	.4	1.9	100	0	82	12	.7	.1	3.9	104	.14
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
04...	.4	1.5	120	3	100	14	1.5	.3	10	134	.18
28...	.5	1.3	120	0	98	13	1.1	.0	11	124	.17
FEB											
09...	.4	1.3	110	0	90	11	2.2	.3	8.5	119	.16
MAR											
09...	.4	1.2	100	0	82	13	2.0	.2	8.0	116	.16
APR											
05...	.6	1.4	120	0	98	13	1.5	.2	5.9	125	.17
MAY											
01...	.5	1.8	110	0	90	14	3.7	.2	6.5	124	.17
JUN											
08...	.3	.0	31	0	25	4.9	1.0	.2	4.8	38	.05
JUL											
03...	.5	.5	110	0	90	41	2.4	.1	4.6	155	.21
30...	.4	1.5	110	5	99	7.4	1.7	.2	7.4	117	.16
SEP											
04...	.5	1.5	110	6	100	8.2	.5	.2	6.3	123	.17

GREEN RIVER BASIN
09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

29

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO- FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO- FLUOROM (UG/L)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)
OCT											
01...	145	.63	.02	--	--	--	--	--	--	--	--
01...	112	.05	.01	210	2.30	3.00	182	.000	.000	5.61	.000
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
04...	90.5	.07	.02	--	--	--	--	--	--	--	--
28...	67.3	.09	.02	--	--	--	--	--	--	--	--
FEB											
09...	--	.14	.03	--	--	--	--	--	--	--	--
MAR											
09...	79.9	.09	.01	--	--	--	--	--	--	--	--
APR											
05...	110	.00	.01	--	--	--	--	--	--	--	--
MAY											
01...	133	.00	.01	--	--	--	--	--	--	--	--
JUN											
08...	292	.00	.04	--	--	--	--	--	--	--	--
JUL											
03...	590	.07	.02	--	--	--	--	--	--	--	--
30...	175	.00	.01	--	--	--	--	--	--	--	--
SEP											
04...	115	.07	.00	--	--	--	--	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO OCTOBER 1978

DATE	OCT 1,78
TIME	1200
TOTAL CELLS/ML	210
DIVERSITY: DIVISION	1.4
..CLASS	1.4
..ORDER	1.7
...FAMILY	2.1
....GENUS	2.3

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
....OOCYSTACEAE		
....ANKISTRODESMUS	12	6
....WESTELLA	14	7
...SCENEDESMACEAE		
....SCENEDESMUS	11	5
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIMUM	7	3
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	11	5
...STEPHANODISCUS	4	2
..PENNALES		
...ACHNANTHACEAE		
...COCONEIS	2	1
...CYMBELLACEAE		
...EPITHEMIA	4	2
...GOMPHONEMACEAE		
...GOMPHONEMA	2	1
...NAVICULACEAE		
...NAVICULA	2	1
...NITZSCHACEAE		
...NITZSCHIA	18	8

CYANOPHYTA (BLUE-GREEN ALGAE)		
..CYANOPHYCEAE		
...HORMOGONALES		
...NOSTOCACEAE		
...ANABAENA	130#	60

EUGLENOPHYTA (EUGLENOIDS)		
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
...TRACHELOMONAS	2	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT. 1, 1978
1200 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
...SCENEDESMUS	
...OEDOGONIALES	
...OEDOGONIACEAE	
...OEDOGONIUM	
..TETRASPORALES	
...PALMELLACEAE	
...SPHAEROCYSTIS	
..ULOTRICHALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
..ZYGNEMATALES	
...ZYGNEMATAACEAE	
...MOUGEOTIA	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
...CYCLUTELLA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
& ...COCCONEIS	
...RHOICOSPHENIA	
...CYMBELLACEAE	
& ...EPITHEMIA	
...DIATOMACEAE	
...DIATOMA	
...FRAGILARIACEAE	
...SYNEDRA	
...GOMPHONEMATAACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHACEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
...ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY

LOCATION.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., Lincoln County, Hydrologic Unit 14040101, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Crystal Creek, 2.0 mi (3.2 km) southeast of La Barge Meadows ranger station, and 29 mi (47 km) northwest of La Barge.

DRAINAGE AREA.--6.3 mi² (16.3 km²), approximately.

PERIOD OF RECORD.--October 1940 to September 1942, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (2,563 m), from topographic map. Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft (91 m) upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--31 years, 14.2 ft³/s (0.402 m³/s), 10,290 acre-ft/yr (12.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 196 ft³/s (5.55 m³/s) June 9, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 7.08 ft (2.158 m) Nov. 26, 1967 (backwater from snow); minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Jan. 29 to Feb. 2, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft³/s (3.40 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 28	2030	*132 3.74	4.93 1.503

Minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Mar. 31, Apr. 10, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	6.2	5.7	4.8	4.2	3.0	2.8	7.6	55	18	6.7	5.1
2	6.2	6.2	5.5	4.8	4.2	2.8	3.2	8.4	53	17	6.2	5.1
3	6.2	6.2	5.3	5.1	4.2	3.0	3.2	8.8	55	16	5.9	5.1
4	6.2	6.2	5.5	5.1	3.9	3.2	3.1	11	59	16	5.9	5.5
5	6.2	6.2	5.7	5.5	4.2	3.5	3.0	15	62	15	5.9	5.1
6	5.9	6.2	5.5	4.2	3.9	3.7	3.1	18	68	15	5.9	5.5
7	5.9	6.2	5.0	4.2	4.2	3.9	3.3	16	65	14	6.2	5.1
8	5.9	6.2	4.6	4.2	4.4	3.9	3.1	14	59	13	6.2	4.8
9	5.9	6.2	4.5	4.2	4.6	3.5	2.8	13	53	13	7.6	5.1
10	5.9	6.2	3.9	4.4	4.8	3.9	2.6	12	50	13	7.6	5.1
11	5.9	6.5	3.7	4.8	5.0	3.5	2.8	12	50	12	6.2	5.5
12	5.9	6.7	4.2	5.1	5.2	3.5	2.6	12	51	12	6.2	5.9
13	5.9	6.7	4.2	5.4	5.5	3.5	3.2	14	54	11	8.0	6.2
14	5.9	6.2	4.2	5.2	5.8	3.5	2.8	18	56	11	6.7	6.2
15	5.9	6.2	3.9	5.0	6.0	3.7	2.8	24	53	11	6.7	5.9
16	5.9	6.2	3.9	4.6	4.8	3.9	3.7	34	49	10	6.7	5.5
17	7.1	6.2	3.9	4.3	3.9	3.5	4.2	42	44	10	6.2	5.5
18	7.6	5.9	4.2	4.2	3.6	3.9	4.5	48	40	9.6	6.7	5.5
19	8.3	5.1	4.2	4.2	3.5	3.9	4.2	53	39	10	8.0	5.9
20	8.8	4.8	4.9	4.2	3.5	3.9	3.7	57	36	9.6	7.6	5.9
21	9.0	4.5	5.2	4.2	3.7	4.2	3.5	62	32	9.2	6.7	5.9
22	9.0	4.5	5.5	4.2	3.5	4.2	3.7	70	30	10	7.1	5.5
23	9.0	4.8	5.8	4.2	2.8	3.9	4.5	72	28	9.6	6.2	5.5
24	8.8	4.2	6.0	3.9	2.8	4.2	4.2	73	27	8.8	5.9	5.5
25	8.5	4.2	5.9	4.2	3.0	4.5	4.2	76	26	8.0	5.9	5.9
26	8.0	4.5	5.7	4.2	3.2	4.2	3.9	82	24	7.6	5.9	8.8
27	7.6	4.8	5.5	4.2	3.2	3.9	4.5	91	24	8.4	5.5	7.6
28	7.1	4.8	5.3	3.9	3.0	3.7	6.2	104	22	8.0	5.9	6.7
29	6.2	5.1	5.2	3.7	---	3.5	7.1	89	21	7.1	5.5	6.7
30	6.2	5.5	5.0	4.2	---	2.8	7.6	70	20	7.1	4.8	6.2
31	6.2	---	4.8	4.1	---	2.6	---	60	---	6.7	5.1	---
TOTAL	213.3	169.4	152.4	138.5	114.6	112.9	114.1	1286.8	1305	346.7	197.6	173.8
MEAN	6.88	5.65	4.92	4.47	4.09	3.64	3.80	41.5	43.5	11.2	6.37	5.79
MAX	9.0	6.7	6.0	5.5	6.0	4.5	7.6	104	68	18	8.0	8.8
MIN	5.9	4.2	3.7	3.7	2.8	2.6	2.6	7.6	20	6.7	4.8	4.8
AC-FT	423	336	302	275	227	224	226	2550	2590	688	392	345
CAL YR 1978	TOTAL	6706.0	MEAN	18.4	MAX	142	MIN	2.8	AC-FT	13300		
WTR YR 1979	TOTAL	4325.1	MEAN	11.8	MAX	104	MIN	2.6	AC-FT	8580		

LOCATION.--Lat 42°11'34", long 110°09'45", in SE₄SE₄NW₄ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi (2.7 km) upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft (1,985.2 m), 4.0 mi (6.4 km) upstream from Muddy Creek, and 5.0 mi (8.0 km) south of La Barge.

WATER-DISCHARGE RECORDS

REMARKS.--Records good except those for winter period and periods of no gage-height record, Dec. 8 to Jan. 3, Jan. 7 to Feb. 5, Feb. 25 to Mar. 16, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres (801 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s (510 m³/s) June 11, 1972, gage height, 10.34 ft (3.152 m); minimum daily, 188 ft³/s (5.32 m³/s) May 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,940 ft³/s (225 m³/s) May 30, gage height, 8.06 ft (2.457 m); minimum daily, 410 ft³/s (11.6 m³/s) Jan. 5.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	834	653	610	480	445	620	1100	1810	5730	2490	1100	809
2	822	653	600	460	440	630	1080	1860	4270	2520	1070	788
3	822	678	570	450	435	640	1030	1970	3340	2460	1020	770
4	822	683	550	425	435	620	990	1910	2930	2410	994	734
5	810	678	530	410	430	600	950	1840	2820	2290	965	700
6	799	653	510	420	440	600	940	2000	3110	2100	917	670
7	798	618	490	435	450	620	1100	2210	3920	2000	915	644
8	789	618	470	450	460	620	1500	1950	4600	1890	982	626
9	788	637	490	460	475	590	2000	1820	4550	1720	1060	617
10	779	600	510	470	490	580	1750	1720	3830	1600	1100	613
11	770	580	530	480	510	570	1500	1630	3120	1540	1120	603
12	758	560	560	495	540	580	1300	1450	2700	1510	1070	616
13	729	520	580	510	570	600	1220	1350	2710	1460	1070	632
14	720	490	580	520	600	610	1220	1300	3210	1380	1150	637
15	711	475	570	520	620	630	1350	1290	3990	1280	1250	606
16	707	470	540	520	640	660	1580	1350	4700	1250	1320	589
17	729	490	530	510	650	680	1820	1500	4830	1260	1350	580
18	762	520	550	490	640	700	2060	1720	4520	1220	1290	566
19	779	550	570	480	630	700	2200	2020	4250	1200	1200	562
20	763	590	580	470	620	700	2010	2260	4090	1230	1160	546
21	764	620	590	475	600	680	1710	2670	3530	1270	1220	544
22	759	650	600	480	590	660	1610	3060	2930	1340	1300	532
23	747	640	600	490	590	640	1650	3540	2510	1350	1370	532
24	744	600	590	500	580	650	1710	3970	2310	1380	1300	528
25	744	580	580	505	580	670	1650	4430	2230	1390	1200	535
26	727	620	560	495	580	720	1540	4900	2240	1340	1120	546
27	709	600	560	490	590	770	1500	5400	2310	1340	1050	548
28	700	580	540	480	600	840	1600	6390	2430	1320	985	546
29	701	560	530	470	---	930	1690	7210	2490	1290	931	532
30	688	590	510	460	---	1050	1750	7720	2520	1190	880	537
31	662	---	500	450	---	1150	---	7350	---	1140	837	---
TOTAL	23436	17756	17080	14750	15230	21310	45110	91600	102720	49160	34296	18288
MEAN	756	592	551	476	544	687	1504	2955	3424	1586	1106	610
MAX	834	683	610	520	650	1150	2200	7720	5730	2520	1370	809
MIN	662	470	470	410	430	570	940	1290	2230	1140	837	528
AC=FT	46490	35220	33880	29260	30210	42270	89480	181700	203700	97510	68030	362700
CAL YR 1978	TOTAL	733126	MEAN	2009	MAX	10500	MIN	410	AC=FT	1454000		
WTR YR 1979	TOTAL	450736	MEAN	1235	MAX	7720	MIN	410	AC=FT	894000		

GREEN RIVER BASIN
09209400 GREEN RIVER NEAR LA BARGE, WY--Continued
WATER-QUALITY RECORDS
PERIOD OF RECORD.--Water years 1964 to current year.
WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT										
01...	1300	--	834	360	8.4	11.0	2	9.5	K5	160
04...	1230	--	822	380	--	9.0	1	--	--	--
29...	1300	--	711	420	8.2	5.0	2	10.7	K2	190
30...	1330	--	690	370	--	5.0	1	--	--	--
NOV										
26...	1315	620	--	440	8.0	.0	4	10.8	K3	220
DEC										
22...	1230	600	--	430	7.6	.0	--	9.7	--	190
JAN										
03...	1430	450	--	380	--	.0	5	--	--	--
20...	1330	470	--	440	7.4	.0	2	8.7	K9	200
FEB										
05...	1430	430	--	280	--	.0	2	--	--	--
MAR										
16...	1325	660	--	450	--	.0	3	--	--	--
APR										
02...	1230	1080	--	490	8.0	.0	9	10.2	K3	180
06...	1230	940	--	470	--	.0	20	--	--	--
30...	1230	--	1740	440	8.2	10.0	15	9.0	K5	200
MAY										
02...	1200	--	1860	370	--	6.5	20	--	--	--
29...	1400	--	7260	162	--	13.0	50	--	--	--
JUN										
04...	1200	--	2930	265	8.0	14.0	7	8.6	24	110
25...	1200	--	2230	305	8.2	17.5	3	8.0	K17	130
JUL										
02...	1630	--	2530	250	--	19.0	3	--	--	--
AUG										
01...	1630	--	1090	320	--	22.0	3	--	--	--
04...	1100	--	995	310	8.4	17.5	4	9.0	27	130
29...	1050	--	932	300	8.2	16.0	2	8.2	K15	120
SEP										
05...	1735	--	690	340	--	18.0	2	--	--	--
17...	1130	--	592	355	--	17.5	2	--	--	--
26...	1040	--	546	335	8.4	14.0	1	7.9	46	140

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

DATE	HARD- NESS, NONCAR- BONATE (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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
01...	29	43	12	16	.6	1.4	160	0	130	56
04...	--	--	--	--	--	--	--	--	--	--
29...	42	51	16	18	.6	1.8	180	0	150	77
30...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	56	59	16	16	.5	1.7	200	0	160	80
DEC										
22...	42	52	15	16	.5	1.6	180	0	150	76
JAN										
03...	--	--	--	--	--	--	--	--	--	--
20...	44	56	16	13	.4	1.7	190	0	160	72
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
02...	16	47	16	31	1.0	2.3	200	0	160	84
06...	--	--	--	--	--	--	--	--	--	--
30...	28	52	16	20	.6	2.5	210	0	170	56
MAY										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	12	32	8.0	6.0	.2	.0	120	0	98	26
25...	7	34	9.9	14	.5	.0	150	0	120	35
JUL										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
04...	0	36	9.8	17	.6	2.2	160	0	130	35
29...	13	34	9.5	12	.5	.0	130	0	110	39
SEP										
05...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
26...	17	40	10	17	.6	1.8	150	0	120	44

GREEN RIVER BASIN

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED AS SiO ₂	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)
OCT										
01...	3.3	.2	.8	208	.28	468	--	5	.07	.03
04...	--	--	--	--	--	--	--	--	--	--
29...	4.1	.3	6.7	265	.36	509	--	10	.36	.04
30...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	4.1	.3	2.1	280	.38	469	--	1	.09	.05
DEC										
22...	2.9	.4	6.0	258	.35	418	--	5	.32	.16
JAN										
03...	--	--	--	--	--	--	--	--	--	--
20...	2.6	.3	8.1	265	.36	336	--	7	.27	.18
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
02...	5.9	.3	5.6	289	.39	843	--	7	.00	.05
06...	--	--	--	--	--	--	--	--	--	--
30...	5.9	.3	7.1	260	.35	1220	--	30	.02	.02
MAY										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	3.4	.2	6.1	140	.19	1110	--	16	.00	.02
25...	3.4	.2	8.1	179	.24	1080	--	10	.00	.04
JUL										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
04...	6.9	.2	2.6	187	.25	502	--	4	.00	.02
29...	4.0	.2	4.3	166	.23	418	--	5	.00	.01
SEP										
05...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
26...	4.3	.3	6.2	199	.27	293	0	--	--	.02

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH ₄)	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 NO ₃)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT										
01...	--	.04	--	1.3	1.3	1.3	5.9	.02	--	--
04...	--	--	--	--	--	--	--	--	--	--
29...	--	.07	--	.54	.61	.65	2.9	.03	2.4	.4
30...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	--	.02	--	.36	.38	.43	1.9	.02	--	--
DEC										
22...	--	.06	--	.26	.32	.48	2.1	.03	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
20...	--	.28	--	.49	.77	.95	4.2	.01	--	--
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
02...	--	.04	--	.25	.29	.34	1.5	.02	--	--
06...	--	--	--	--	--	--	--	--	--	--
30...	--	.01	.01	.26	.27	.29	1.3	.05	--	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	--	.05	.06	.42	.47	.49	2.2	.04	--	--
25...	--	.07	.08	.56	.63	.67	3.0	.02	4.6	--
JUL										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
04...	--	.07	.08	.76	.83	.85	3.8	.01	--	--
29...	--	.04	.05	.20	.24	.25	1.1	.00	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
26...	.07	.04	.05	.62	.66	.68	3.0	.02	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

GREEN RIVER BASIN

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 01...	--	--	--	--	--	--	--	--	--	--	--
29...	0	4	2	2	0	0	0	.0	10	0	10
NOV 26...	--	--	--	--	--	--	--	--	--	--	--
DEC 22...	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--	--
APR 02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUN 04...	--	--	--	--	--	--	--	--	--	--	--
25...	<10	3	0	3	0	0	0	.0	20	20	<3
AUG 04...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP 26...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 24...	1030	744	7.0	.0	0	.00	.00	.0	.0	0	.00
JUN 11...	1345	3080	18.0	.0	0	--	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DOE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 24...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
JUN 11...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 24...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00
JUN 11...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 24...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0
JUN 11...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0

GREEN RIVER BASIN

37

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

					DICAMBA IN BOTTOM MA- TERIAL (UG/KG)			PICLORAM IN BOTTOM MA- TERIAL (UG/KG)					
DATE			TOTAL DICAMBA (UG/L)		TOTAL PICLORAM (UG/L)								
OCT 24...			.00	0	.00			0					
JUN 11...			.00	0	.00			0					
DATE		TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM			
OCT													
04...	1230	9.0	--	822	10	22	--	--	--	--			
30...	1330	5.0	--	690	12	22	--	--	--	--			
JAN													
03...	1430	.0	450	--	82	100	--	--	--	--			
FEB													
05...	1430	.0	430	--	10	12	--	--	--	--			
MAR													
16...	1325	.0	660	--	17	30	--	--	--	--			
APR													
06...	1230	.0	940	--	64	162	--	--	--	--			
MAY													
02...	1200	6.5	--	1860	70	352	--	--	--	--			
29...	1400	13.0	--	7260	274	5370	25	40	61				
JUL													
02...	1630	19.0	--	2530	15	102	--	--	--	--			
AUG													
01...	1630	22.0	--	1090	9	26	--	--	--	--			
SEP													
05...	1735	18.0	--	690	40	75	--	--	--	--			
17...	1130	17.5	--	592	4	6.4	--	--	--	--			
DATE		SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	NUMBER OF SAM- PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM			
OCT													
04...	--	--	--	--	100	1	6	16	39	85			
30...	--	--	--	--	--	--	--	--	--	--			
JAN													
03...	--	--	--	--	--	--	--	--	--	--			
FEB													
05...	--	--	--	--	--	--	--	--	--	--			
MAR													
16...	--	--	--	--	--	--	--	--	--	--			
APR													
06...	--	--	--	--	--	--	--	--	--	--			
MAY													
02...	--	--	--	--	--	--	--	--	--	--			
29...	81	98	100	--	--	--	--	--	--	--			
JUL													
02...	--	--	--	--	--	--	--	--	--	--			
AUG													
01...	--	--	--	--	--	--	--	--	--	--			
SEP													
05...	--	--	--	--	--	--	--	--	--	--			
17...	--	--	--	--	100	--	2	7	38	91			

GREEN RIVER BASIN

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

JUNE 4, 1979
1200 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	
..CHLOROPHYCEAE	GREEN ALGAE
..ULOTRICHIALES	
...COLEOCHAETACEAE	
& ...COLEOCHAETE	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNIALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...CYMBELLACEAE	
...EPITHEMIA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NEIDIUM	

JUNE 25, 1979
1200 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNIALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...CYMBELLACEAE	
& ...EPITHEMIA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHIA	
...NITZSCHIA	

AUG. 4, 1979
1100 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	
..CHLOROPHYCEAE	GREEN ALGAE
..ULOTRICHIALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
..ZYGNEMATALES	
...ZYGNEMATAEAE	
...SPIROGYRA	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNIALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...CYMBELLACEAE	
& ...EPITHEMIA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHIA	
& ...DENTICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼SW¼NE¼ sec.2, T.24 N., R.115 W., Lincoln County, Hydrologic Unit 14040101, on left bank 2.0 mi (3.2 km) downstream from Dutch George Creek and 14 mi (23 km) west of Fontenelle.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Prior to May 5, 1970, at site 300 ft (91 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 780 acres (3.16 km²) above station.

AVERAGE DISCHARGE.--28 years, 71.6 ft³/s (2.028 m³/s), 51,870 acre-ft/yr (64.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 821 ft³/s (23.3 m³/s) June 13, 1965, gage height, 6.87 ft (2.094 m); maximum gage height, 8.03 ft (2.448 m) June 16, 1978; minimum daily discharge, 8.8 ft³/s (0.25 m³/s) Aug. 14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Apr. 17	1930	156	4.42	6.17	1.881	May 29	1100	*404	11.4	7.36	2.243
May 6	0500	283	8.01	6.82	2.079						

Minimum daily discharge, 19 ft³/s (0.54 m³/s) Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	33	34	19	26	32	29	161	238	79	35	28
2	35	34	33	23	27	33	31	177	218	78	35	28
3	35	33	33	27	29	30	30	158	214	73	34	26
4	36	33	34	29	31	28	29	172	216	80	33	25
5	35	33	34	29	33	30	30	210	228	73	32	25
6	35	28	32	27	35	31	31	244	242	70	31	25
7	35	28	30	25	37	32	37	174	246	70	32	23
8	36	28	28	24	39	33	43	149	252	62	38	22
9	35	29	26	25	41	31	50	136	236	57	37	23
10	34	26	28	27	42	29	47	132	204	56	37	25
11	33	24	29	29	44	27	44	129	188	52	36	25
12	33	22	29	32	45	26	43	129	183	52	35	26
13	33	22	30	34	47	27	44	150	183	53	42	26
14	34	24	30	34	48	28	49	176	181	51	44	27
15	35	27	31	32	48	28	71	200	179	48	44	29
16	35	29	29	30	44	29	97	218	170	48	39	28
17	35	32	28	29	40	28	122	240	163	45	38	27
18	35	35	29	30	37	27	134	240	154	44	38	26
19	35	34	30	31	34	27	122	242	158	48	37	27
20	35	33	31	33	33	28	94	248	152	46	40	27
21	35	32	33	35	33	28	97	256	134	46	38	27
22	34	30	35	35	34	28	115	266	120	52	36	27
23	34	31	34	34	35	27	120	277	113	48	35	26
24	34	33	33	33	36	27	113	290	110	44	33	25
25	33	34	31	33	35	27	105	294	104	41	32	30
26	33	33	29	32	34	28	113	310	96	39	31	37
27	33	32	27	31	32	32	127	318	94	39	31	29
28	33	33	25	30	31	32	143	336	91	39	30	29
29	33	34	23	29	---	31	156	376	86	37	29	28
30	33	35	21	28	---	31	161	312	82	35	28	27
31	29	---	20	27	---	30	---	266	---	34	27	---
TOTAL	1059	914	919	916	1030	905	2427	6986	5035	1639	1087	803
MEAN	34.2	30.5	29.6	29.5	36.8	29.2	80.9	225	168	52.9	35.1	26.8
MAX	36	35	35	35	48	33	161	376	252	80	44	37
MIN	29	22	20	19	26	26	29	129	82	34	27	22
AC-FT	2100	1810	1820	1820	2040	1800	4810	13860	9990	3250	2160	1590
CAL YR 1978	TOTAL	36416	MEAN 99.8	MAX 531	MIN 14	AC-FT	72230					
WTR YR 1979	TOTAL	23720	MEAN 65.0	MAX 376	MIN 19	AC-FT	47050					

GREEN RIVER BASIN

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 (4.8 km) north of Fontenelle, and 3.5 mi (5.6 km) upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi² (11,085 km²), 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 (425 hm³) between elevations 6,506.0 ft (1,983.03 m), crest of spillway, and 6,408.0 ft (1,953.16 m), invert of outlet pipe. Dead storage, below elevation 6,408.0 ft (1,953.16 m), 563 acre-ft (0.694 hm³). Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 387,000 acre-ft (477 hm³) June 29, 1965, elevation, 6,511.01 ft (1,984.556 m); minimum daily, 5,680 acre-ft (7.00 hm³) July 28, 1967, elevation, 6,423.98 ft (1,958.029 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 323,000 acre-ft (398 hm³) Oct. 9, 10, elevation, 6,503.15 ft (1,982.160 m); minimum daily, 197,100 acre-ft (243 hm³) Apr. 5, elevation, 6,485.37 ft (1,976.741 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,503.06	322,200	-
Oct. 31	6,502.95	321,500	-700
Nov. 30	6,501.39	309,300	-12,200
Dec. 31	6,498.11	284,700	-24,600
CAL YR 1978	-	-	-900
Jan. 31	6,494.08	255,700	-29,000
Feb. 28	6,489.98	227,500	-28,200
Mar. 31	6,485.61	199,200	-28,300
Apr. 30	6,486.61	205,400	+6,200
May 31	6,495.97	269,100	+63,700
June 30	6,495.80	267,900	-1,200
July 31	6,499.54	295,300	+27,400
Aug. 31	6,500.87	305,300	+10,000
Sept. 30	6,498.88	290,400	-14,900
WTR YR 1979	-	-	-31,800

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼NW¼NE¼ sec.31, T.24 N., R.111 W., Sweetwater County, Hydrologic Unit 14040103, on right bank 1.0 mi (1.6 km) downstream from Fontenelle Dam, 2.5 mi (4.0 km) upstream from Slate Creek, and 6.0 mi (9.7 km) southeast of Fontenelle.

DRAINAGE AREA.--4,280 mi² (11,090 km²), 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 (1,944.054 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi (1.6 km) upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres (817 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,400 ft³/s (549 m³/s) Sept. 5, 1965, gage height, 18.74 ft (5.712 m), from floodmarks, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 209 ft³/s (5.92 m³/s) Nov. 22-24, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,820 ft³/s (137 m³/s) June 4, gage height, 13.85 ft (4.221 m); minimum daily, 338 ft³/s (9.57 m³/s) Sept. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	740	940	920	1020	1020	1020	1640	4700	1320	900	980
2	749	740	940	920	1020	1020	1020	1640	4780	1320	900	970
3	749	740	940	910	1020	1020	1020	1640	4780	1220	900	970
4	749	740	848	910	1020	1020	1020	1640	4800	1110	900	970
5	758	749	940	920	1020	1020	1030	1650	4800	1100	900	970
6	758	749	950	920	1010	1020	1030	1650	4780	1020	920	970
7	767	749	950	930	1010	1020	1030	1650	4760	920	930	970
8	767	749	960	930	1010	1020	1030	1650	4780	920	940	970
9	767	749	960	940	1010	1020	1130	1650	4780	920	940	980
10	767	749	960	940	1010	1020	1340	1670	4780	920	940	980
11	758	758	960	940	1010	1020	1430	1670	4780	920	950	980
12	758	767	960	930	1010	1030	1430	1670	4780	920	950	980
13	758	758	960	930	1010	1030	1430	1670	4780	920	960	980
14	749	758	950	930	1010	1030	1450	1670	4780	920	970	990
15	749	758	950	930	1000	1020	1450	1670	4560	920	980	1000
16	749	758	950	930	1000	1020	1460	1670	3920	920	980	1000
17	740	785	960	930	1000	1020	1470	1650	3750	920	980	990
18	740	900	960	930	1000	1120	1470	1670	3770	1070	990	990
19	740	940	950	930	980	1320	1560	1670	3470	1180	1000	990
20	740	940	940	930	1010	1430	1670	1680	2950	1200	1000	990
21	740	940	940	930	1010	1430	1670	1700	2420	1210	1000	980
22	740	940	940	920	1020	1430	1670	1700	1920	1220	990	980
23	740	940	940	960	1020	1420	1640	1700	1710	1240	980	776
24	740	950	940	1020	1020	1420	1640	1700	1710	1250	980	420
25	732	950	940	1030	1020	1420	1640	1840	1710	1250	1020	338
26	732	950	940	1030	1010	1250	1640	2480	1710	1240	970	338
27	740	950	940	1030	1020	1020	1640	3320	1700	1120	970	338
28	740	950	940	1020	1020	1050	1640	3750	1520	920	970	406
29	740	940	940	1020	---	1030	1640	3750	1300	910	970	492
30	740	940	930	1020	---	1020	1640	3740	1310	900	970	620
31	740	---	930	1020	---	1020	---	4130	---	900	970	---
TOTAL	23194	25026	29248	29550	28320	34750	41950	62980	106290	32820	29720	25318
MEAN	748	834	943	953	1011	1121	1398	2032	3543	1059	959	844
MAX	767	950	960	1030	1020	1430	1670	4130	4800	1320	1020	1000
MIN	732	740	848	910	980	1020	1020	1640	1300	900	900	338
AC-FT	46010	49640	58010	58610	56170	68930	83210	124900	210800	65100	58950	50220
CAL YR 1978	TOTAL	748838	MEAN	2052	MAX	8480	MIN	296	AC-FT	1485000		
WTR YR 1979	TOTAL	469166	MEAN	1285	MAX	4800	MIN	338	AC-FT	930600		

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT												
01...	1420	758	470	8.4	11.0	1	9.5	--	170	47	46	14
29...	1440	740	430	8.5	10.0	1	10.3	K3	180	57	46	15
NOV												
26...	1445	950	440	8.5	4.0	2	11.0	K1	160	35	44	13
DEC												
22...	1415	950	400	8.5	2.0	--	12.1	<1	170	34	46	13
JAN												
20...	1430	930	450	8.5	2.5	1	12.6	<1	180	32	49	14
FEB												
25...	1415	1020	460	8.2	3.0	1	11.8	--	180	27	48	15
APR												
02...	1400	1020	490	8.2	4.0	4	11.6	<1	190	29	51	14
30...	1340	1640	510	7.9	5.0	2	10.0	<1	190	42	49	18
JUN												
04...	1330	4800	350	8.0	12.0	4	8.6	--	140	25	40	11
25...	1330	1710	340	8.2	15.0	2	9.0	<1	130	23	36	10
AUG												
04...	1230	900	380	8.1	17.0	1	8.8	--	150	35	40	11
29...	0930	970	415	8.0	17.0	1	7.1	K1	160	45	41	13
SEP												
26...	0930	338	535	8.2	14.0	1	8.1	K3	200	69	56	15

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

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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												
01...	29	1.0	1.9	150	0	120	110	4.8	.2	1.3	280	.38
29...	26	.9	1.0	150	0	120	100	2.9	.3	4.4	270	.37
NOV												
26...	22	.7	1.3	140	6	120	81	3.3	.3	--	--	--
DEC												
22...	21	.7	1.4	160	3	140	70	4.8	.4	3.9	244	.33
JAN												
20...	18	.6	1.4	180	0	150	64	4.2	.3	6.4	249	.34
FEB												
25...	20	.6	1.5	180	3	150	61	--	.3	7.4	--	--
APR												
02...	24	.8	1.4	190	3	160	65	4.4	.3	5.6	263	.36
30...	38	1.2	2.5	180	0	150	100	7.8	.4	7.1	313	.43
JUN												
04...	14	.5	--	140	0	120	49	5.4	.3	6.3	--	.27
25...	17	.6	1.0	130	0	110	58	3.4	.2	6.2	196	.27
AUG												
04...	21	.8	1.8	140	0	120	72	4.7	.1	7.3	228	.31
29...	22	.8	--	140	0	120	77	4.0	.2	5.8	--	.32
SEP												
26...	37	1.1	1.8	160	0	130	130	4.3	.3	6.3	331	.45

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

		ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT												
01...	1420	--	--	--	--	--	--	--	--	90	--	--
29...	1440	70	70	0	1	1	0	0	0	90	0	0
NOV												
26...	1445	--	--	--	--	--	--	--	--	60	--	--
DEC												
22...	1415	--	--	--	--	--	--	--	--	60	--	--
JAN												
20...	1430	--	--	--	--	--	--	--	--	80	--	--
FEB												
25...	1415	--	--	--	--	--	--	--	--	110	--	--
APR												
02...	1400	--	--	--	--	--	--	--	--	100	--	--
30...	1340	--	--	--	--	--	--	--	--	170	--	--
JUN												
04...	1330	--	--	--	--	--	--	--	--	50	--	--
25...	1330	100	100	0	1	1	0	0	<1	30	2	0
AUG												
04...	1230	--	--	--	--	--	--	--	--	50	--	--
29...	0930	--	--	--	--	--	--	--	--	50	--	--
SEP												
26...	0930	--	--	--	--	--	--	--	--	70	--	--

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible][illegible]

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON ANALYSES

DATE	OCT	1,78
TIME		1420
TOTAL CELLS/ML		76
DIVERSITY: DIVISION		0.3
.CLASS		0.3
..ORDER		0.6
...FAMILY		2.6
....GENUS		2.8
ORGANISM	CELLS	PER-
	/ML	CENT
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	5	7
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	11	14
....COCCONEIS	7	9
...CYMBELLACEAE		
....CYMBELLA	5	7
...DIATOMACEAE		
....DIATOMA	5	7
...GOMPHONEMATACEAE		
....GOMPHONEMA	7	9
...NAVICULACEAE		
....NAVICULA	27#	35
...NITZSCHIACEAE		
....NITZSCHIA	5	7
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOMONADACEAE		
....CRYPTOMONAS	4	5

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT. 1, 1978
1420 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
...ANKISTRODESMUS	
...SCENEDESMACEAE	
...SCENEDESMUS	
..ULOTRICHIALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
..VOLVOCALES	
...CHLAMYDOMONADACEAE	
...CARTERIA	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCEAE	
...CYCLOTILLA	
...MELOSIRA	
...STEPHANODISCUS	
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
& ...COCCONEIS	
...RHOICOSPHENTIA	
...CYMBELLACEAE	
...AMPHORA	
...CYMBELLA	
...EPITHEMIA	
...DIATOMACEAE	
...DIATOMA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ...NAVICULA	
...NITZSCHIAEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..CHROCOCCOCCALES	COCCOID BLUE-GREENS
...CHROCOCCOCCAEAE	
...ANACYSTIS	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: GLASS CHAMBER(12MM CIRC), 200-X MICROSCOPE

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

JUNE 4, 1979
1330 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
...SCENEDESMACEAE	
....SCENEDESMUS	
..ULOTRICHIALES	
...ULOTRICHACEAE	
....ULOTHRIX	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
....MELOSTRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ...ACHNANTHES	
& ...COCCONEIS	
...CYMBELLACEAE	
& ...CYMBELLA	
...DIATOMACEAE	
& ...DIATOMA	
...FRAGILARIACEAE	
...FRAGILARIA	
...SYNEDRA	
...GOMPHONEMACEAE	
...GOMPHONEIS	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ...NAVICULA	
...NITZSCHIA	
...NITZSCHIA	
...SURIRELLACEAE	
...SURIRELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
...HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
....OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

JUNE 25, 1979
1330 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
...OOCYSTACEAE	
....ANKISTRODESMUS	
...ULOTRICHALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
...ULOTRICHACEAE	
...ULOTHRIX	
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
...CYCLOTELLA	
...MELOSIRA	
...STEPHANODISCUS	
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
...COCCONEIS	
...RHODICOSPHENIA	
...CYMBELLACEAE	
...AMPHORA	
...CYMBELLA	
...DIATOMACEAE	
& ...DIATOMA	
...FRAGILARIACEAE	
...ASTERTONELLA	
...FRAGILARIA	
...SYNEDRA	
...GOMPHONEMATACEAE	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ...NAVICULA	
...PINNULARIA	
...NITZSCHACEAE	
& ...NITZSCHIA	
...SURIPELLACEAE	
...SURIPELLA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
...HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
...OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

AUG. 4, 1979
1230 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
...SCENEDESMUS	
...ULOTRICHALES	
...CHAEOTOPHORACEAE	
& ...STIGEOCLONIUM	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
& ...MELOSIRA	
...STEPHANODISCUS	
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
& ...COCCONEIS	
...RHOICOSPHENIA	
...CYMBELLACEAE	
...CYMBELLA	
& ...EPITHEMIA	
...DIATOMACEAE	
& ...DIATOMA	
...FRAGILARIACEAE	
...FRAGILARIA	
...GOMPHONEMACEAE	
...GOMPHONEIS	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ...NAVICULA	
...NITZSCHIACEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
& ...OSCILLATORIA	

AUG. 29, 1979
0930 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..ULOTRICHALES	
...CHAEOTOPHORACEAE	
& ...PSEUDODULVELLA	
& ...STIGEOCLONIUM	
...COLEOCHAETACEAE	
...COLEOCHAETE	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...RHOICOSPHENIA	
...GOMPHONEMACEAE	
...GOMPHONEMA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SEP. 26, 1979
0930 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...OEDOGONIALES	
...OEDOGONIACEAE	
...OEDOGONIUM	
...ULOTRICHALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
...COLEOCHAETACEAE	
& ...COLEOCHAETE	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
...CYCLOTELLA	
...STEPHANODISCUS	
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...RHODOSPHENIA	
...CYMBELLACEAE	
...CYMBELLA	
...EPITHEMIA	
...DIATOMACEAE	
...DIATOMA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHACEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
...HORMOGONIALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
...LYNGBYA	
...OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

GREEN RIVER BASIN

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY

LOCATION.--Lat 42°34'17", long 109°16'58", in sec.17, T.30 N., R.104 W., Sublette County, Hydrologic Unit 14040104, on left bank at Leckie Ranch, 0.1 mi (0.2 km) downstream from Squaw Creek, and 10.1 mi (16.3 km) southeast of Big Sandy.

DRAINAGE AREA.--94 mi² (243 km²).

PERIOD OF RECORD.--July to November 1910, May to August 1911, July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Published as Big Sandy Creek near Big Sandy 1910-11 and in WSP 618, and as Big Sandy Creek at Leckie Ranch, near Big Sandy July 1939 to October 1968.

REVISED RECORDS.--WSP 2125: 1963, 1964(P), 1965.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer. See WSP 1733 for history of changes prior to July 24, 1939. July 24, 1939, to June 1, 1961, water-stage recorder at site 75 ft (23 m) downstream at present datum.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Feb. 28 to Apr. 4, May 15 to June 6, June 19 to July 2, July 9-17, July 20 to Aug. 10, Aug. 13-17, which are poor. Diversions for irrigation of about 750 acres (3.04 km²) above station. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 5 . . 24
Feb. 28 . . 14

AVERAGE DISCHARGE.--32 years (water years 1940-71), 86.0 ft³/s (2.436 m³/s), 62,310 acre-ft/yr (76.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) June 10, 1965, gage height, 9.06 ft (2.761 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) Dec. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
aMay 29	--	*746 21.1	7.23 2.204	June 14	0530	592 16.8	6.77 2.063
aJune 6	--	b528 15.0	b6.56 1.999				

a-About.

b-At least.

Minimum daily discharge during period of operation, 13 ft³/s (0.37 m³/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						14	17	78	290	200	42	43
2						15	16	84	250	185	40	41
3						15	16	78	280	168	37	38
4						14	17	89	350	165	35	34
5						13	18	103	450	156	32	32
6						14	19	113	500	148	30	30
7						15	20	89	422	166	28	30
8						15	21	82	305	143	27	28
9						15	21	72	251	130	27	28
10						15	20	72	241	115	28	29
11						15	19	78	309	108	29	27
12						15	19	89	358	100	28	25
13						15	18	88	457	96	32	25
14						15	19	111	525	92	48	27
15						15	20	140	454	88	89	28
16						16	25	180	358	85	80	25
17						16	31	230	323	80	66	23
18						15	35	300	307	73	74	21
19						15	34	350	260	71	83	20
20						15	35	400	240	70	174	19
21						15	41	440	210	70	179	19
22						15	43	500	220	68	123	20
23						16	48	520	230	72	99	20
24						15	47	550	230	74	87	19
25						15	47	580	240	74	77	19
26						15	52	650	250	70	71	20
27						15	64	700	250	65	62	22
28						16	67	680	230	60	58	20
29						16	69	650	220	55	52	20
30						17	76	450	210	50	49	20
31						17	---	350	---	46	46	---
TOTAL						469	994	8896	9220	3143	1932	772
MEAN						15.1	33.1	287	307	101	62.3	25.7
MAX						17	76	700	525	200	179	43
MIN						13	16	72	210	46	27	19
AC-FT						930	1970	17650	18290	6230	3830	1530

09213500 BIG SANDY RIVER NEAR FARSON, WY

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼SE¼NW¼ 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 (1.6 km) upstream from high-water line of Big Sandy Reservoir, 14.5 mi (23.3 km) north of Farson, and 24.5 mi (39.4 km) upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi² (834 km²).

WATER-DISCHARGE RECORDS

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. Altitude of gage is 6,770 ft (2,063 m), 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 (0.8 km) upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records fair. Diversions for irrigation of about 1,000 acres (4.05 km²) above station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation are given below:

Oct. 2 . . . 26

AVERAGE DISCHARGE.--33 years (water years 1915-17, 1921-24, 1927-34, 1954-71), 86.5 ft³/s (2.450 m³/s), 62,700 acre-ft/yr (77.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) June 9, 1972, gage height, 8.10 ft (2.469 m); no flow Jan. 27-31, 1963, and may have also reached no flow in previous years during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 30	0415	*825 23.4	7.28 2.219	June 15	0415	574 16.3	6.65 2.027
June 7	0330	517 14.6	6.54 1.993				

Minimum daily discharge during period of operation, 15 ft³/s (0.42 m³/s) Sept. 23, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							24	87	350	195	45	44
2							24	93	275	185	42	39
3							24	102	242	171	39	37
4							25	90	277	160	35	36
5							27	95	361	151	32	33
6							29	111	433	140	29	30
7							32	129	491	133	27	28
8							35	111	416	148	26	26
9							40	108	315	129	26	24
10							50	88	247	117	26	22
11							50	86	229	108	27	20
12							48	80	294	102	26	20
13							46	78	365	95	29	23
14							45	76	458	89	30	21
15							45	86	510	84	45	21
16							60	114	456	81	88	21
17							90	159	370	81	79	21
18							150	209	319	76	63	19
19							200	291	310	72	59	17
20							140	330	256	71	94	17
21							130	391	217	70	162	17
22							120	428	195	68	207	16
23							105	479	205	65	143	15
24							96	525	207	71	115	16
25							80	536	210	72	97	15
26							70	554	216	66	85	16
27							69	651	221	62	74	17
28							75	732	223	60	66	17
29							86	718	212	57	58	21
30							81	704	203	52	54	20
31							---	453	---	48	49	---
TOTAL							2096	8694	9083	3079	1977	689
MEAN							69.9	280	303	99.3	63.8	23.0
MAX							200	732	510	195	207	44
MIN							24	76	195	48	26	15
AC-FT							4160	17240	18020	6110	3920	1370

GREEN RIVER BASIN

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
OCT						
02...	1010	--	26	110	5.0	3
APR						
02...	1500	24	--	250	.0	4
19...	1505	--	262	270	.5	280
25...	1235	--	82	280	8.5	110
MAY						
03...	1600	--	103	180	13.0	85
21...	1135	--	368	60	13.0	110
JUN						
01...	1500	--	344	50	12.0	50
JUL						
03...	1055	--	175	70	17.0	20
31...	1600	--	48	110	27.5	4
AUG						
23...	1120	--	144	80	17.0	95
SEP						
04...	1230	--	36	140	19.0	4
25...	1010	--	16	130	11.0	3

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT								
02...	1010	5.0	--	26	49	3.4	--	--
APR								
02...	1500	.0	24	--	32	2.1	--	--
19...	1505	.5	--	262	609	431	71	88
25...	1235	8.5	--	82	332	74	--	--
MAY								
03...	1600	13.0	--	103	222	62	--	--
21...	1135	13.0	--	368	756	751	--	--
JUN								
01...	1500	12.0	--	344	316	294	--	--
JUL								
03...	1055	17.0	--	175	112	53	--	--
31...	1600	27.5	--	48	26	3.4	--	--
AUG								
23...	1120	17.0	--	144	260	101	--	--
SEP								
04...	1230	19.0	--	36	90	8.7	--	--
25...	1010	11.0	--	16	15	.65	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM
OCT								
02...	--	--	--	--	--	--	--	--
APR								
02...	--	--	--	--	--	--	--	--
19...	100	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
MAY								
03...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
JUN								
01...	--	--	--	--	--	--	--	--
JUL								
03...	--	42	0	22	75	96	99	100
31...	--	--	--	--	--	--	--	--
AUG								
23...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY

LOCATION.--Lat 42°14'12", long 109°18'44", in SE¼SW¼SW¼ sec.11, T.26 N., R.105 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 1.6 mi (2.6 km) upstream from diversion to Eden No. 2 Reservoir, 11 mi (18 km) northeast of Farson, and 14 mi (23 km) northeast of Eden.

DRAINAGE AREA.--134 mi² (347 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 1,220 acres (4.94 km²), of which about 150 acres (61 hm²) are below station.

AVERAGE DISCHARGE.--25 years, 18.6 ft³/s (0.527 m³/s), 13,480 acre-ft/yr (16.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 386 ft³/s (10.9 m³/s) June 17, 1963, gage height, 8.57 ft (2.612 m); maximum gage height, 10.34 ft (3.152 m) Apr. 6, 1976 (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 181 ft³/s (5.13 m³/s) May 31, gage height, 8.02 ft (2.444 m); maximum gage height, 9.28 ft (2.829 m) Mar. 6 (backwater from ice); minimum daily discharge, 0.90 ft³/s (0.025 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.0	3.1	1.0	1.0	1.8	7.0	44	128	47	3.1	12
2	5.5	5.3	3.2	.90	1.0	1.9	9.0	44	92	42	3.0	11
3	5.5	5.1	3.3	1.0	1.1	1.9	11	45	72	38	2.7	11
4	5.5	5.1	3.2	1.1	1.2	1.8	14	36	60	38	2.5	9.4
5	5.3	4.9	3.0	1.1	1.2	1.8	17	34	56	33	2.5	9.0
6	5.5	4.6	2.8	1.0	1.3	2.0	21	40	58	29	2.2	8.9
7	5.5	4.8	2.7	1.1	1.4	2.1	25	46	68	25	1.9	8.4
8	5.5	4.4	2.7	1.2	1.5	2.1	24	38	87	23	2.0	8.2
9	6.0	4.3	2.8	1.2	1.6	2.0	22	36	83	20	2.5	7.9
10	6.7	4.1	2.8	1.3	1.7	1.9	20	31	62	18	2.9	7.5
11	6.7	3.8	2.9	1.3	1.8	1.9	23	28	50	14	2.9	7.3
12	6.5	3.7	2.9	1.4	1.9	2.0	26	27	42	11	4.1	7.3
13	6.2	3.5	3.0	1.4	2.0	2.1	30	25	43	9.6	12	7.4
14	6.2	3.3	3.1	1.3	2.1	2.2	40	23	54	9.6	25	7.9
15	6.2	3.4	3.2	1.3	2.1	2.3	60	24	80	9.0	25	8.4
16	6.2	3.6	3.2	1.3	2.0	2.3	80	27	111	7.8	16	8.3
17	6.0	3.8	3.1	1.2	1.9	2.4	95	35	102	7.5	11	7.4
18	6.2	4.0	3.1	1.2	1.9	2.4	115	42	77	7.2	9.6	6.9
19	6.5	4.1	2.9	1.2	1.8	2.5	125	47	62	6.2	14	6.5
20	6.2	3.9	2.9	1.3	1.8	2.7	63	48	55	5.3	19	6.2
21	6.2	3.8	2.8	1.3	1.7	2.8	56	47	45	4.9	71	6.1
22	6.2	3.7	2.7	1.3	1.7	3.0	50	47	36	4.7	37	5.9
23	6.0	3.6	2.6	1.3	1.8	3.2	45	52	32	4.3	22	5.8
24	5.8	3.7	2.5	1.2	1.9	3.4	40	57	32	4.1	18	5.5
25	6.0	3.6	2.4	1.2	1.9	3.6	36	57	35	4.3	16	4.9
26	6.0	3.4	2.3	1.2	1.8	3.8	35	63	38	4.3	15	4.1
27	6.2	3.2	2.1	1.2	1.7	4.4	36	86	44	3.9	14	4.5
28	6.2	3.1	1.8	1.1	1.8	4.6	38	112	49	3.7	13	4.9
29	6.0	3.2	1.5	1.1	---	5.2	43	150	51	3.7	13	4.5
30	5.5	3.2	1.3	1.1	---	5.0	39	172	48	3.4	13	4.3
31	5.2	---	1.1	1.0	---	5.5	---	175	---	3.4	12	---
TOTAL	184.5	119.2	83.0	36.80	46.6	86.6	1245.0	1738	1852	444.9	407.9	217.4
MEAN	5.95	3.97	2.68	1.19	1.66	2.79	41.5	56.1	61.7	14.4	13.2	7.25
MAX	6.7	5.3	3.3	1.4	2.1	5.5	125	175	128	47	71	12
MIN	5.2	3.1	1.1	.90	1.0	1.8	7.0	23	32	3.4	1.9	4.1
AC-FT	366	236	165	73	92	172	2470	3450	3670	882	809	431
CAL YR 1978 TOTAL	9091.00			MEAN 24.9	MAX 173	MIN 1.1	AC-FT 18030					
WTR YR 1979 TOTAL	6461.90			MEAN 17.7	MAX 175	MIN .90	AC-FT 12820					

GREEN RIVER BASIN

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1969, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT												
02...	1220	--	5.8	260	--	9.0	2	--	--	--	--	--
25...	0900	--	6.0	300	7.7	1.0	--	83	19	26	4.5	30
30...	1200	--	5.5	330	--	3.0	2	--	--	--	--	--
NOV												
22...	0930	3.7	--	610	7.5	.0	--	170	54	52	9.5	75
DEC												
14...	1355	3.1	--	400	--	.0	4	--	--	--	--	--
JAN												
10...	1400	1.3	--	410	--	.0	3	--	--	--	--	--
FEB												
07...	1330	1.4	--	520	--	.0	2	--	--	--	--	--
MAR												
14...	1400	2.2	--	600	--	.0	1	180	49	54	11	70
29...	0915	5.2	--	680	7.3	.0	--	200	37	64	10	72
APR												
12...	1145	26	--	860	--	.5	8	--	--	--	--	--
19...	1105	--	103	550	--	1.5	240	--	--	--	--	--
26...	0830	--	38	550	7.7	4.0	--	130	44	37	8.2	57
MAY												
03...	1230	--	48	390	--	8.0	35	--	--	--	--	--
21...	1445	--	52	160	--	18.0	50	--	--	--	--	--
31...	0920	--	180	130	7.5	7.0	--	36	13	11	2.0	9.7
JUN												
01...	1125	--	128	100	--	9.0	70	--	--	--	--	--
21...	0930	--	47	130	7.5	12.0	--	43	22	14	2.0	8.9
JUL												
03...	1300	--	38	100	--	21.0	20	--	--	--	--	--
AUG												
01...	0900	--	3.5	320	7.9	13.0	2	90	25	28	4.9	24
23...	1545	--	21	360	--	21.0	230	--	--	--	--	--
28...	0700	--	14	250	7.7	13.0	--	69	13	22	3.3	19
SEP												
04...	1000	--	9.9	210	--	16.0	25	--	--	--	--	--
25...	0730	--	5.3	315	7.7	9.0	--	78	77	24	4.3	25

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT												
02...	--	--	--	--	--	--	--	--	--	--	--	--
25...	1.4	--	1.5	78	0	64	77	5.1	.2	7.1	190	.26
30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
22...	2.5	--	2.9	140	0	110	200	15	.3	12	436	.59
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	2.3	--	3.5	160	--	130	170	13	.3	16	417	.57
29...	2.2	--	2.9	200	0	160	170	16	.3	16	450	.61
APR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
26...	2.2	--	3.3	100	0	82	130	16	.4	14	316	.43
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.7	11	.9	28	0	23	21	1.8	.1	5.6	66	.09
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.6	10	1.1	26	0	21	23	1.5	.2	5.2	69	.09
JUL												
03...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	1.1	25	1.1	79	0	65	81	4.0	.4	4.8	187	.25
23...	--	--	--	--	--	--	--	--	--	--	--	--
28...	1.0	21	1.9	68	0	56	56	3.8	.2	7.9	148	.20
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	1.2	27	1.5	--	--	1	120	4.8	.2	4.3	185	.25

DATE	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 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
25...	3.08	.02	.06	.00	.00	.81	.83	3.7	.02	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV											
22...	4.36	--	.01	--	--	--	--	--	.03	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	2.48	--	.13	--	--	--	--	--	.11	--	--
29...	6.32	.04	.06	.00	.00	.44	.48	2.1	.03	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	32.4	.08	.07	.06	.08	.66	.74	3.3	.17	.52	.52
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
31...	32.1	--	.04	--	--	--	--	--	.20	.61	.61
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
21...	8.76	--	.00	--	--	--	--	--	.15	.46	.46
JUL											
03...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	1.77	.01	.00	.07	.09	.18	.19	.84	.18	--	.55
23...	--	--	--	--	--	--	--	--	--	--	--
28...	5.59	--	.01	--	--	--	--	--	.12	--	.37
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	2.65	--	.02	--	--	--	--	--	.02	--	.06

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

		GROSS ALPHA, DIS- SOLVED (UG/L AS	GROSS ALPHA, SUSP. TOTAL (UG/L AS	GROSS BETA, DIS- SOLVED (PCI/L AS	GROSS BETA, SUSP. TOTAL (PCI/L AS	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)		
DATE	TIME	U-NAT)	U-NAT)	CS-137)	CS-137)	YT-90)	YT-90)	(PCI/L)			
OCT 25...	0900	<1.6	<.4	2.2	.5	2.1	.6	.11	1.1		
DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	
OCT 02...	1220	9.0	--	5.8	12	.19	--	--	--	--	
30...	1200	3.0	--	5.5	16	.24	--	--	--	--	
DEC 14...	1355	.0	3.1	--	10	.08	--	--	--	--	
JAN 10...	1400	.0	1.3	--	14	.05	--	--	--	--	
FEB 07...	1330	.0	1.4	--	4	.02	--	--	--	--	
MAR 14...	1400	.0	2.2	--	6	.04	--	--	--	--	
APR 12...	1145	.5	26	--	28	2.0	--	--	--	--	
19...	1105	1.5	--	103	839	233	41	58	80	95	
MAY 03...	1230	8.0	--	48	132	17	--	--	--	--	
21...	1445	18.0	--	52	156	22	--	--	--	--	
JUN 01...	1125	9.0	--	128	376	130	--	--	--	--	
JUL 03...	1300	21.0	--	38	72	7.4	--	--	--	--	
AUG 01...	0900	13.0	--	3.5	16	.15	--	--	--	--	
23...	1545	21.0	--	21	377	21	--	--	--	--	
SEP 04...	1000	16.0	--	9.9	72	1.9	--	--	--	--	
DATE		SED. SUSP. FALL DIAM. % FINER THAN .250 MM	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM	BED MAT. FALL DIAM. % FINER THAN 8.00 MM
OCT 02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
19...	100	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
JUN 01...	--	--	--	--	--	--	--	--	--	--	--
JUL 03...	--	--	20	1	2	24	38	59	87	99	100
AUG 01...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--	--

LOCATION.--Lat 42°00'37", long 109°34'57", in NE¼SE¼SW¼ sec.31, T.24 N., R.107 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 0.1 mi (0.2 km) downstream from Simpson Gulch, 8.0 mi (12.9 km) southwest of Eden, and 12.5 mi (20.1 km) downstream from Little Sandy Creek.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, Feb. 27 to Apr. 12, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

AVERAGE DISCHARGE.--25 years, 46.8 ft³/s (1.325 m³/s), 33,910 acre-ft/yr (41.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 28, 1971, gage height, 6.47 ft (1.972 m), from floodmarks; maximum gage height, 7.22 ft (2.201 m) Mar. 20, 1956 (backwater from ice); minimum daily discharge, 0.1 ft³/s (0.003 m³/s) Feb. 24, Feb. 26 to Mar. 1, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 534 ft³/s (15.1 m³/s) Apr. 19, gage height, 4.25 ft (1.295 m); minimum daily, 9.3 ft³/s (0.26 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	39	22	10	14	17	87	47	53	70	62	64
2	42	40	20	9.3	14	18	83	45	58	73	58	61
3	42	40	21	10	14	17	77	43	53	71	55	63
4	42	39	22	11	14	16	70	43	57	73	54	63
5	42	39	20	10	15	17	73	41	60	74	59	61
6	42	37	19	11	15	19	85	40	64	78	63	58
7	42	36	18	13	16	20	110	40	66	84	63	53
8	41	37	17	15	17	20	135	41	70	79	64	54
9	41	38	16	17	18	19	170	40	79	75	66	53
10	41	38	17	19	19	18	190	38	71	74	69	52
11	42	36	18	21	20	19	190	37	69	73	65	51
12	42	33	19	23	22	21	176	36	61	69	60	51
13	42	29	20	24	24	23	142	35	58	70	63	61
14	42	26	22	23	24	24	138	35	58	63	88	65
15	42	23	22	22	22	25	145	35	61	59	98	57
16	42	25	23	21	21	26	215	35	66	58	78	53
17	42	27	23	20	20	28	349	38	71	61	63	54
18	42	29	24	19	19	30	416	44	75	66	55	53
19	42	32	23	18	18	33	422	38	81	65	55	50
20	42	31	22	18	17	36	294	34	86	65	58	48
21	42	28	21	19	17	39	168	36	79	66	60	48
22	42	26	20	20	16	43	115	35	77	64	58	48
23	42	26	20	21	17	48	98	35	78	61	57	46
24	41	27	19	20	16	65	93	36	74	60	52	45
25	41	26	19	19	16	100	90	37	75	61	49	47
26	41	24	18	18	15	86	79	40	71	69	49	47
27	41	22	17	17	15	70	64	45	66	64	50	47
28	41	21	15	17	16	67	59	47	66	57	50	43
29	40	21	14	16	---	70	59	54	71	57	50	41
30	40	23	12	16	---	78	57	57	70	59	52	40
31	39	---	11	15	---	84	---	53	---	58	60	---
TOTAL	1287	918	594	532.3	491	1196	4449	1260	2044	2076	1883	1577
MEAN	41.5	30.6	19.2	17.2	17.5	38.6	148	40.6	68.1	67.0	60.7	52.6
MAX	42	40	24	24	24	100	422	57	86	84	98	65
MIN	39	21	11	9.3	14	16	57	34	53	57	49	40
AC-FT	2550	1820	1180	1060	974	2370	8820	2500	4050	4120	3730	3130
CAL YR 1978	TOTAL	14576.0	MEAN	39.9	MAX	217	MIN	11	AC-FT	28910		
WTR YR 1979	TOTAL	18307.3	MEAN	50.2	MAX	422	MIN	9.3	AC-FT	36310		

GREEN RIVER BASIN
09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT										
02...	1500	--	42	2400	--	13.0	2	--	--	--
25...	1045	--	41	2700	8.1	4.0	2	10.9	22	820
30...	1515	--	41	2800	--	6.0	3	--	--	--
NOV										
22...	1115	26	--	2800	8.0	1.0	4	10.6	36	1000
DEC										
06...	1045	19	--	2000	--	.0	5	--	--	--
14...	1025	22	--	340	--	.0	3	--	--	--
JAN										
10...	1215	19	--	2000	--	.0	2	--	--	--
FEB										
22...	1330	16	--	2500	--	1.0	6	--	--	1100
MAR										
15...	1515	25	--	2100	--	2.0	10	--	--	--
APR										
12...	1450	--	172	2100	--	2.0	330	--	--	--
20...	1115	--	273	950	--	6.0	600	--	--	--
26...	1000	--	80	2100	8.0	5.0	85	10.2	K20	450
MAY										
04...	1100	--	44	2300	--	10.0	45	--	--	--
31...	1115	--	50	2500	8.1	11.5	15	9.1	74	490
JUN										
08...	1110	--	66	1900	--	9.0	15	--	--	--
21...	1045	--	79	1750	8.1	15.0	8	9.4	110	470
JUL										
13...	1205	--	74	1700	--	19.0	8	--	--	--
AUG										
01...	1015	--	64	2060	8.1	15.0	8	10.2	110	610
01...	1240	--	64	2000	--	17.5	20	--	--	--
28...	0900	--	50	2600	8.0	11.0	4	9.1	K200	850
SEP										
05...	1030	--	61	2400	--	19.0	5	--	--	--
25...	0900	--	47	2600	8.1	9.5	2	9.3	80	840

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

DATE	HARD- NESS, NONCAR- BONATE (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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
25...	590	210	74	370	5.6	3.6	280	0	230	1300
30...	--	--	--	--	--	--	--	--	--	--
NOV										
22...	750	260	87	370	5.1	.4	300	0	250	1400
DEC										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
10...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	850	260	110	400	5.2	3.6	300	0	250	1600
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	240	110	44	320	6.5	25	260	0	210	830
MAY										
04...	--	--	--	--	--	--	--	--	--	--
31...	290	110	53	290	5.7	3.5	250	0	200	830
JUN										
08...	--	--	--	--	--	--	--	--	--	--
21...	310	120	40	230	4.6	3.0	200	0	160	770
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	430	160	50	250	4.4	4.0	220	0	180	920
01...	--	--	--	--	--	--	--	--	--	--
28...	620	220	72	280	4.2	.5	280	0	230	1200
SEP										
05...	--	--	--	--	--	--	--	--	--	--
25...	610	220	71	300	4.5	3.8	280	0	230	1200

GREEN RIVER BASIN

61

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
25...	48	1.1	4.5	2150	2.92	238	--	12	.70	.60
30...	--	--	--	--	--	--	--	--	--	--
NOV										
22...	46	1.1	9.1	2330	3.17	164	--	8	.97	.88
DEC										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
10...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	34	1.1	12	2570	3.50	111	--	--	.95	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	38	1.0	11	1510	2.05	326	--	380	.23	.31
MAY										
04...	--	--	--	--	--	--	--	--	--	--
31...	48	1.1	8.6	1460	1.99	197	--	--	.02	.06
JUN										
08...	--	--	--	--	--	--	--	--	--	--
21...	34	.7	11	1310	1.78	279	--	13	.09	.10
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	37	.8	12	1540	2.09	266	--	21	.25	.30
01...	--	--	--	--	--	--	--	--	--	--
28...	43	.9	11	1970	2.68	266	--	6	.41	.47
SEP										
05...	--	--	--	--	--	--	--	--	--	--
25...	43	.9	9.9	2000	2.72	254	5	--	--	.02

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
25...	--	.02	--	.58	.60	1.2	5.3	.06	5.4	.3
30...	--	--	--	--	--	--	--	--	--	--
NOV										
22...	--	.07	--	.58	.65	1.5	6.8	.01	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
10...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	--	--	--	--	--	--	--	.05	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	--	.08	.10	1.0	1.1	1.4	6.2	1.7	7.6	1.9
MAY										
04...	--	--	--	--	--	--	--	--	--	--
31...	--	.05	.06	--	--	--	--	.04	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
21...	--	.05	.06	.54	.59	.69	3.1	.03	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	.15	.18	.95	1.1	1.4	6.2	.03	--	--
01...	--	--	--	--	--	--	--	--	--	--
28...	--	.04	.05	1.3	1.3	1.8	7.8	.01	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--
25...	.50	.01	.01	.50	.51	.53	2.3	.02	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT 25...	1045	120	120	0	2	1	0	0	0	450	1	0
NOV 22...	1115	--	--	--	--	--	--	--	--	410	--	--
APR 26...	1000	11000	11000	20	8	4	0	0	<1	290	6	5
MAY 31...	1115	--	--	--	--	--	--	--	--	110	--	--
JUN 21...	1045	--	--	--	--	--	--	--	--	320	--	--
AUG 01...	1015	--	--	--	--	--	--	--	--	330	--	--
28...	0900	--	--	--	--	--	--	--	--	370	--	--
SEP 25...	0900	--	--	--	--	--	--	--	--	370	--	--

[illegible][illegible]

09216000 GREEN RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 25...	7	2	0	2	3	0	3	.0	20	0	20
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
APR 26...	<10	21	21	0	2	1	1	1.2	70	70	<3
MAY 31...	--	--	--	--	--	--	--	--	--	--	--
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
MAY 31...	1115	.0	0	.00	.0	.0	0	.00	.0	.00	.0
SEP 25...	0900	.0	0	.00	.0	.0	0	.00	.0	.00	.0

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
MAY 31...	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00	.0
SEP 25...	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00	.0

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
MAY 31...	.00	.0	.00	.0	.00	--	--	.00	.00	.00	.00
SEP 25...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00	.00

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
MAY 31...	.00	0	0	.00	.02	0	.00	0	.00	.0
SEP 25...	.00	0	0	.00	.02	0	.00	0	.00	.0

GREEN RIVER BASIN

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

				DICAMBA IN BOTTOM MA- TERIAL (UG/KG)			PICLORAM IN BOTTOM MA- TERIAL (UG/KG)		
DATE			TOTAL DICAMBA (UG/L)		TOTAL PICLORAM (UG/L)				
MAY 31...			.04	0	.00		0		
SEP 25...			.00	0	.00		0		
DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT									
02...	1500	13.0	--	42	66	7.5	--	--	--
30...	1515	6.0	--	41	21	2.3	--	--	--
DEC									
06...	1045	.0	19	--	49	2.5	--	--	--
14...	1025	.0	22	--	32	1.9	--	--	--
JAN									
10...	1215	.0	19	--	76	3.9	--	--	--
FEB									
22...	1330	1.0	16	--	68	2.9	--	--	--
MAR									
15...	1515	2.0	25	--	76	5.1	--	--	--
APR									
12...	1450	2.0	--	172	662	307	66	89	100
20...	1115	6.0	--	273	2870	2120	--	--	--
MAY									
04...	1100	10.0	--	44	238	28	--	--	--
JUN									
08...	1110	9.0	--	66	83	15	--	--	--
JUL									
13...	1205	19.0	--	74	34	6.8	--	--	--
AUG									
01...	1240	17.5	--	64	102	18	--	--	--
SEP									
05...	1030	19.0	--	61	60	9.9	--	--	--

DATE	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM	BED MAT. FALL DIAM. % FINER THAN 8.00 MM
OCT 02...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--
FEB 22...	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
MAY 04...	--	--	--	--	--	--	--	--
JUN 08...	23	0	2	39	62	84	96	100
JUL 13...	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼SW¼NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi (0.3 km) upstream from Gasson Bridge and 14.5 mi (23.3 km) southwest of Eden.

DRAINAGE AREA.--1,720 mi² (4,450 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Oct. 6-31, Jan. 17 to Feb. 22, May 11 to June 8, Aug. 21 to Sept. 5, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

AVERAGE DISCHARGE.--7 years, 69.7 ft³/s (1.974 m³/s), 50,500 acre-ft/yr (62.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 31, 1976, gage height, 8.15 ft (2.484 m); minimum daily, 17 ft³/s (0.48 m³/s) Feb. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 515 ft³/s (14.6 m³/s) Apr. 19, gage height, 6.53 ft (1.990 m); maximum gage height, 7.48 ft (2.280 m) Mar. 16 (backwater from ice); minimum daily discharge, 13 ft³/s (0.37 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	52	30	14	19	21	100	73	75	85	78	80
2	58	54	28	13	19	22	92	66	78	87	79	78
3	56	54	29	14	19	20	87	63	74	89	74	78
4	56	52	30	15	19	19	78	60	70	87	72	78
5	58	52	28	14	20	21	83	57	71	90	72	78
6	58	50	27	16	21	23	96	54	74	93	76	73
7	58	48	26	18	22	24	123	56	79	98	81	67
8	56	50	24	20	23	24	152	57	82	101	79	66
9	56	52	22	22	24	23	189	57	93	96	84	65
10	56	54	22	24	26	22	212	52	88	93	87	67
11	58	51	23	29	28	23	207	51	83	93	83	66
12	58	44	23	31	30	25	187	50	79	89	80	64
13	58	37	23	32	32	28	164	49	71	90	83	75
14	58	34	24	32	32	29	152	48	70	84	109	83
15	58	32	25	30	30	30	162	48	71	78	117	78
16	58	33	26	29	28	32	189	49	77	74	104	72
17	58	36	27	27	27	33	324	52	78	76	87	71
18	58	40	27	25	25	35	387	58	83	84	74	73
19	58	43	27	24	24	38	452	55	92	86	71	69
20	58	42	28	25	23	42	354	51	96	83	73	67
21	58	38	28	26	22	47	228	50	97	85	74	66
22	58	35	28	27	23	55	157	49	90	83	74	65
23	58	37	27	27	23	70	123	49	90	82	73	65
24	56	36	26	26	22	98	117	50	89	79	68	64
25	56	35	25	26	21	120	111	52	87	77	64	65
26	56	33	23	25	20	113	109	56	88	84	62	68
27	56	31	21	24	19	73	90	61	82	87	62	68
28	56	29	19	23	20	71	81	66	80	79	63	68
29	54	31	17	22	---	76	80	74	85	75	64	63
30	55	32	16	21	---	89	76	78	88	77	66	61
31	55	---	15	20	---	98	---	72	---	77	71	---
TOTAL	1768	1247	764	721	661	1444	4962	1763	2460	2641	2404	2101
MEAN	57.0	41.6	24.6	23.3	23.6	46.6	165	56.9	82.0	85.2	77.5	70.0
MAX	58	54	30	32	32	120	452	78	97	101	117	83
MIN	54	29	15	13	19	19	76	48	70	74	62	61
AC-FT	3510	2470	1520	1430	1310	2860	9840	3500	4880	5240	4770	4170
CAL YR 1978	TOTAL	19429	MEAN 53.2	MAX 224	MIN 15	AC-FT 38540						
WTR YR 1979	TOTAL	22936	MEAN 62.8	MAX 452	MIN 13	AC-FT 45490						

GREEN RIVER BASIN

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
25...	1200	56	--	3500	8.2	4.5	--	1000	760	220
NOV										
22...	1215	35	--	4000	8.0	.0	--	1300	1000	270
DEC										
18...	1030	27	--	5000	7.7	.0	--	1300	1000	270
JAN										
12...	1310	31	--	3000	--	.0	7	--	--	--
FEB										
22...	1645	--	--	--	--	--	--	1400	1100	270
MAR										
29...	1100	--	74	3400	8.0	3.5	--	800	580	190
APR										
26...	1200	--	111	2700	8.0	9.5	--	650	430	130
MAY										
31...	1210	72	--	3200	8.1	12.0	--	670	450	120
JUN										
21...	1130	--	100	2500	8.1	16.0	--	660	490	140
AUG										
01...	1100	--	78	3030	8.2	17.0	--	850	620	180
28...	0950	63	--	3500	8.2	13.0	--	1000	770	220
SEP										
25...	1010	--	65	3600	8.2	10.5	--	1100	870	250

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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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										
25...	110	520	7.1	3.5	290	0	240	1800	44	1.3
NOV										
22...	140	600	7.4	.4	350	0	290	2100	51	1.4
DEC										
18...	150	630	7.6	3.9	360	0	300	2300	49	2.5
JAN										
12...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	180	730	8.4	4.0	370	0	300	2600	54	3.3
MAR										
29...	78	450	6.9	4.1	270	0	220	1400	47	1.3
APR										
26...	79	420	7.2	5.6	270	0	220	1200	41	1.2
MAY										
31...	90	380	6.4	3.3	270	0	220	1200	48	1.4
JUN										
21...	74	330	5.6	2.5	210	0	170	1100	36	.9
AUG										
01...	97	450	6.7	4.0	270	3	230	1500	41	1.1
28...	110	440	6.0	1.3	280	0	230	1700	45	1.1
SEP										
25...	120	430	5.6	3.5	280	0	230	1700	47	1.1

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, NITRATE DIS- SOLVED (MG/L AS N)	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 25...	4.5	2850	3.88	431	.47	--	.03	--	--
NOV 22...	9.3	3350	4.56	317	.72	--	.05	--	--
DEC 18...	11	3600	4.90	262	.77	--	.03	--	--
JAN 12...	--	--	--	--	--	--	--	62	5.2
FEB 22...	12	4040	5.49	--	.61	--	.06	--	--
MAR 29...	9.8	2300	3.13	460	.14	--	.12	--	--
APR 26...	11	2020	2.75	605	.20	--	1.8	--	--
MAY 31...	8.9	1990	2.71	387	.00	--	.08	--	--
JUN 21...	11	1790	2.43	483	.02	--	.04	--	--
AUG 01...	12	2430	3.30	512	.09	--	.04	--	--
28...	11	2670	3.63	454	.18	--	.01	--	--
SEP 25...	11	2700	3.67	474	--	.26	.02	--	--

GREEN RIVER BASIN

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY

LOCATION.--Lat 41°45'52", long 109°44'05", in SW¼SE¼ sec.26, T.21 N., R.109 W., Sweetwater County, Hydrologic Unit 14040103, at Big Island bridge, 6.3 mi (10.1 km) downstream from Dry Creek, 9.5 mi (15.3 km) downstream from Big Sandy River, and 21 mi (34 km) northwest of town of Green River.

DRAINAGE AREA.--7,300 mi² (18,900 km²), approximately.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT 25...	1300	788	660	8.4	7.0	240	120	62	20
NOV 22...	1320	975	560	8.5	2.0	200	69	50	19
DEC 18...	1150	987	610	8.1	.0	210	54	53	18
JAN 20...	1600	955	560	8.2	.0	240	84	61	20
FEB 25...	1545	1040	560	8.1	.0	210	57	55	19
MAR 29...	1200	1100	740	8.4	4.5	230	77	58	20
APR 26...	1330	1750	680	8.3	8.0	230	67	55	22
MAY 31...	1330	4200	520	8.1	11.0	140	0	32	15
JUN 21...	1300	2520	395	8.2	15.0	140	25	37	12
AUG 01...	1200	978	530	8.5	20.0	170	50	45	15
28...	1050	1030	570	8.4	17.0	200	75	50	18
SEP 25...	1110	403	790	8.5	14.5	250	120	64	23

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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 25...	57	1.6	1.6	140	6	120	210	7.4	.4
NOV 22...	49	1.5	.1	150	5	130	180	6.6	.2
DEC 18...	43	1.3	1.7	190	0	160	140	5.9	.4
JAN 20...	39	1.1	1.4	190	0	160	160	4.2	.3
FEB 25...	35	1.0	1.4	180	3	150	130	4.4	.4
MAR 29...	53	1.5	1.6	180	3	150	180	6.1	.4
APR 26...	58	1.7	3.0	190	4	160	160	9.8	.4
MAY 31...	45	1.6	1.8	180	0	150	87	5.6	.3
JUN 21...	23	.8	1.0	140	0	120	74	4.6	.2
AUG 01...	41	1.4	1.9	140	3	120	140	7.8	.2
28...	47	1.5	.0	140	6	120	150	7.4	.3
SEP 25...	80	2.2	2.0	150	3	130	260	11	.4

GREEN RIVER BASIN

69

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, NITRATE DIS- SOLVED (MG/L AS N)	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									
25...	.0	441	.60	938	.05	--	.01	6	13
NOV									
22...	.0	384	.52	1010	.09	--	.01	7	18
DEC									
18...	3.2	357	.49	951	.09	--	.02	27	72
JAN									
20...	6.2	386	.53	995	.14	--	.01	55	142
FEB									
25...	6.7	348	.47	977	.11	--	.01	--	--
MAR									
29...	4.4	417	.57	1240	.00	--	.16	--	--
APR									
26...	6.7	415	.56	1960	.05	--	.03	--	--
MAY									
31...	5.2	279	.38	3160	.00	--	.01	--	--
JUN									
21...	5.2	224	.30	1520	.00	--	.02	--	--
AUG									
01...	3.7	328	.45	866	.00	--	.01	--	--
28...	2.9	357	.49	993	.00	--	.01	--	--
SEP									
25...	3.2	525	.71	571	--	.06	.03	--	--

09216527 SEPARATION CREEK NEAR RINER, WY

LOCATION.--Lat 41°39'38", long 107°33'28", in NE&SE&SW¼ sec.32, T.20 N., R.90 W., Sweetwater County, Hydrologic Unit 14040200, on left bank 0.1 mi (0.2 km) downstream from unnamed tributary, 1.5 mi (2.4 km) upstream from wooden bridge, 5.0 mi (8.0 km) south of Riner, and 6.5 mi (10.5 km) south of Interstate Highway 80.

DRAINAGE AREA.--55.3 mi² (143.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,810 ft (2,076 m), from topographic map.

REMARKS.--Records good except those below 10 ft³/s (0.28 m³/s), which are fair. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81 ft³/s (2.29 m³/s) July 23, 1977, gage height, 5.43 ft (1.655 m); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s (0.57 m³/s) May 26, gage height, 3.95 ft (1.204 m); maximum gage height, 4.74 ft (1.445 m) Apr. 18 (backwater from snowdrifts); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	5.9	12	.58	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	6.8	9.7	.50	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	7.9	8.0	.45	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	6.1	7.1	.41	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	6.1	6.9	.35	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	7.0	6.9	.24	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	6.8	7.2	.13	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	7.8	7.9	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	6.1	10	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	4.8	9.7	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	4.2	7.7	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	4.2	5.8	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	4.2	4.4	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	4.6	3.9	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.02	4.8	3.7	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.05	6.0	3.7	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.12	7.9	3.7	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.40	10	3.4	.00	.04	.00
19	.00	.00	.00	.00	.00	.00	1.0	12	3.1	.00	.10	.00
20	.00	.00	.00	.00	.00	.00	3.0	14	3.5	.00	.10	.00
21	.00	.00	.00	.00	.00	.00	7.0	14	3.8	.00	.07	.00
22	.00	.00	.00	.00	.00	.00	8.7	15	3.4	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	9.2	16	2.3	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	9.8	16	1.6	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	8.0	18	1.2	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	6.4	19	.97	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	6.5	18	.85	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	6.4	18	.80	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	5.8	17	.76	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	5.8	18	.65	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	16	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	78.19	322.2	144.63	2.66	.31	.00
MEAN	.000	.000	.000	.000	.000	.000	2.61	10.4	4.82	.086	.010	.000
MAX	.00	.00	.00	.00	.00	.00	9.8	19	12	.58	.10	.00
MIN	.00	.00	.00	.00	.00	.00	.00	4.2	.65	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	155	639	287	5.3	.6	.00

CAL YR 1978 TOTAL 319.89 MEAN .88 MAX 13 MIN .00 AC-FT 635
WTR YR 1979 TOTAL 547.99 MEAN 1.50 MAX 19 MIN .00 AC-FT 1090

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1976.

REMARKS.--No flow observed Oct. 25, Nov. 27, Jan. 18, Feb. 21, Mar. 14, 28, July 18, Aug. 15, Sept. 28.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 27,800 mg/L Aug. 25, 1977; minimum daily mean, no flow for many days each year.

SEDIMENT LOADS: Maximum daily, 98 tons (89 tonnes) Aug. 25, 1977; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 549 mg/L May 18; minimum daily mean, no flow for many days.

SEDIMENT LOADS: Maximum daily, 19 tons (17 tonnes) May 20, 26; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CACO3)
APR 25...	1300	9.2	1080	8.1	7.0	20	--	9.9	--	400
MAY 30...	1330	18	590	8.2	10.0	--	100	8.5	2.7	240
JUN 20...	1230	3.6	760	8.2	11.0	--	25	8.8	1.6	350

DATE	HARD- NESS, NONCAR- BONATE (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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
APR 25...	230	60	60	69	1.5	--	5.0	200	0
MAY 30...	63	43	31	25	.7	29	3.7	210	0
JUN 20...	96	71	42	38	.9	41	3.2	310	0

DATE	ALKA- LINITY (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 TOTAL (MG/L AS N)
APR 25...	160	360	11	.4	8.2	672	.91	--	.07
MAY 30...	170	120	5.3	.3	9.9	342	.47	16.6	.04
JUN 20...	250	180	6.0	.3	8.6	502	.68	4.88	.02

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
APR 25...	.02	.02	.70	.72	.79	3.5	.18	.55	.55
MAY 30...	.06	.07	.76	.82	.86	3.8	.15	.46	.46
JUN 20...	.04	.05	.60	.64	.66	2.9	.04	.12	.12

GREEN RIVER BASIN

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)
APR 25...	1300	5200	5200	0	2	0	0	0	<1	100	5	4
MAY 30...	1330	3400	--	--	1	--	0	--	--	70	1	--
JUN 20...	1230	--	--	--	--	--	--	--	--	80	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
APR 25...	1	10	10	0	18	14	4	6500	6500	50	48	48
MAY 30...	--	10	--	--	8	--	--	4500	4500	50	9	--
JUN 20...	--	--	--	--	--	--	--	--	--	50	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDE RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MD)	MOLYB- DENUM, SUS- PENDE RECOV. (UG/L AS MD)
APR 25...	0	50	0	50	180	170	9	.0	.0	.0	2	0
MAY 30...	--	30	--	--	110	--	--	.0	--	--	0	--
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 25...	<10	24	24	0	1	0	1	.0	60	50	7
MAY 30...	--	8	--	--	0	--	--	--	30	--	--
JUN 20...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TYPE	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY 07...	1500	2	96	97	99	100
30...	1100	2	97	98	99	100

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31	.00			.00			.00		
TOTAL	0.00			0.00			0.00		
JANUARY			FEBRUARY			MARCH			
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31	.00			.00			.00		
TOTAL	0.00			0.00			0.00		

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									
1	.00	---	---	5.9	---	2.2	12	86	2.8
2	.00	---	---	6.8	---	2.9	9.7	115	3.0
3	.00	---	---	7.9	---	3.7	8.0	84	1.8
4	.00	---	---	6.1	---	2.4	7.1	92	1.8
5	.00	---	---	6.1	---	2.4	6.9	84	1.6
6	.00	---	---	7.0	---	3.1	6.9	74	1.4
7	.00	---	---	6.8	146	2.7	7.2	78	1.5
8	.00	---	---	7.8	233	4.9	7.9	96	2.0
9	.00	---	---	6.1	173	2.8	10	123	3.3
10	.00	---	---	4.8	138	1.8	9.7	119	3.1
11	.00	---	---	4.2	190	2.2	7.7	82	1.7
12	.00	---	---	4.2	178	2.0	5.8	70	1.1
13	.00	---	---	4.2	178	2.0	4.4	62	.74
14	.00	---	---	4.6	212	2.6	3.9	113	1.2
15	.02	---	---	4.8	200	2.6	3.7	96	.96
16	.05	---	.01	6.0	302	4.9	3.7	91	.91
17	.12	---	.02	7.9	410	8.7	3.7	102	1.0
18	.40	---	.06	10	549	15	3.4	84	.77
19	1.0	---	.19	12	547	18	3.1	66	.55
20	3.0	---	.67	14	508	19	3.5	89	.84
21	7.0	---	3.0	14	428	16	3.8	106	1.1
22	8.7	---	4.4	15	370	15	3.4	90	.83
23	9.2	---	4.9	16	356	15	2.3	78	.48
24	9.8	---	5.5	16	350	15	1.6	64	.28
25	8.0	---	3.8	18	374	18	1.2	74	.24
26	6.4	241	4.2	19	380	19	.97	62	.16
27	6.5	236	4.1	18	375	18	.85	58	.13
28	6.4	218	3.8	18	314	15	.80	72	.16
29	5.8	---	2.2	17	310	14	.76	81	.17
30	5.8	---	2.2	18	366	18	.65	74	.13
31	---	---	---	16	168	7.3	---	---	---
TOTAL	78.19	---	39.05	322.2	---	276.2	144.63	---	35.75
MAY									
JUNE									
JULY									
AUGUST									
SEPTEMBER									
1	.58	65	.10	.00	---	---	.00	---	---
2	.50	53	.07	.00	---	---	.00	---	---
3	.45	51	.06	.00	---	---	.00	---	---
4	.41	42	.05	.00	---	---	.00	---	---
5	.35	43	.04	.00	---	---	.00	---	---
6	.24	49	.03	.00	---	---	.00	---	---
7	.13	33	.01	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	.00	---	---
9	.00	---	---	.00	---	---	.00	---	---
10	.00	---	---	.00	---	---	.00	---	---
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.00	---	---	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.00	---	---	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.04	---	---	.00	---	---
19	.00	---	---	.10	---	.01	.00	---	---
20	.00	---	---	.10	---	.01	.00	---	---
21	.00								

09216545 BITTER CREEK NEAR BITTER CREEK, WY

LOCATION.--Lat 41°29'35", long 108°30'47", in NW¼NW¼SE¼ sec.36, T.18 N., R.99 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 2.1 mi (3.4 km) downstream from Red Wash and 4.8 mi (7.7 km) southeast of town of Bitter Creek.

DRAINAGE AREA.--308 mi² (798 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,760 ft (2,060 m), from topographic map.

REMARKS.--Records fair except those for winter period and periods of no gage-height record, Nov. 14 to Feb. 8, Feb. 28 to Mar. 1, Mar. 11-14, Apr. 3-5, 10-14, May 6-15, 26-30, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s (18.1 m³/s) July 25, 1977, gage height, 8.80 ft (2.682 m); no flow for many days in 1977 and 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 140 ft³/s (3.96 m³/s) Apr. 17, gage height, 5.69 ft (1.734 m); maximum gage height, 6.26 ft (1.908 m) Apr. 15 (backwater from ice); no flow Jan. 1-10, Jan. 13 to Feb. 10, Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.95	.34	.00	.00	.10	4.5	.74	2.0	1.6	.99	.90
2	.56	.94	.30	.00	.00	.30	4.1	8.1	1.9	1.5	.99	.94
3	.59	.92	.27	.00	.00	.27	3.8	64	1.9	1.6	.99	.90
4	.62	.95	.29	.00	.00	.25	4.0	7.1	1.9	1.6	.99	.90
5	.68	.96	.32	.00	.00	.30	4.5	2.1	1.8	1.6	.99	.90
6	.71	.92	.29	.00	.00	.40	8.0	1.9	1.7	1.5	.94	.90
7	.68	.91	.27	.00	.00	.55	24	1.7	1.7	1.5	.94	.86
8	.68	.93	.24	.00	.00	.75	37	2.0	2.1	1.5	.94	.86
9	.68	.94	.22	.00	.00	.67	40	2.7	2.2	1.5	4.8	.82
10	.68	.70	.20	.00	.00	.63	20	2.5	2.2	1.5	10	.82
11	.74	.45	.21	.01	.05	.72	10	2.3	1.8	1.4	1.2	.82
12	.78	.37	.22	.01	.20	.79	16	2.1	1.3	1.3	.94	.82
13	.82	.33	.24	.00	.30	.90	30	2.0	2.1	1.3	1.7	.86
14	.83	.35	.23	.00	.40	1.0	60	1.8	1.9	1.3	19	.86
15	.82	.33	.24	.00	.40	1.1	110	1.7	2.1	1.3	3.5	.90
16	.86	.31	.25	.00	.30	1.3	96	1.5	2.1	1.3	1.1	.90
17	.86	.33	.22	.00	.20	1.4	75	1.5	2.1	1.3	1.0	.90
18	.90	.37	.20	.00	.10	1.4	40	1.5	2.1	1.3	1.1	.86
19	.94	.42	.21	.00	.07	1.1	23	1.5	2.1	1.2	1.0	.86
20	.94	.42	.22	.00	.06	.94	10	1.5	2.1	1.3	16	.90
21	.94	.40	.23	.00	.06	.86	7.5	1.5	1.9	1.3	48	.94
22	.99	.38	.25	.00	.06	.73	6.8	1.5	1.6	1.2	24	.94
23	.90	.40	.27	.00	.05	.78	6.7	1.6	1.7	1.2	5.0	.94
24	.88	.42	.28	.00	.03	.90	5.3	1.6	1.6	1.1	1.5	.94
25	.88	.39	.29	.00	.02	1.1	2.6	1.7	1.6	1.1	1.1	.99
26	.90	.34	.20	.00	.01	3.0	1.3	1.8	1.7	1.1	1.0	.99
27	.91	.31	.10	.00	.00	5.0	1.1	1.9	1.6	1.1	1.0	2.8
28	.92	.29	.05	.00	.01	5.8	.99	2.1	1.6	1.1	1.0	3.4
29	.90	.30	.03	.00	---	6.5	.82	2.3	1.6	1.0	.99	1.1
30	.90	.32	.02	.00	---	5.7	.78	2.2	1.6	1.0	.90	.99
31	.91	---	.01	.00	---	5.0	---	2.1	---	.99	.90	---
TOTAL	24.99	16.35	6.71	.02	2.32	50.24	653.79	130.54	56.4	40.59	154.50	31.51
MEAN	.81	.55	.22	.001	.083	1.62	21.8	4.21	1.88	1.31	4.98	1.05
MAX	.99	.96	.34	.01	.40	6.5	110	64	2.2	1.6	48	3.4
MIN	.56	.29	.01	.00	.00	.10	.78	.74	1.6	.99	.90	.82
AC-FT	50	32	13	.04	4.6	100	1300	259	112	81	306	63
CAL YR 1978	TOTAL	870.14	MEAN	2.38	MAX	56	MIN	.01	AC-FT	1730		
WTR YR 1979	TOTAL	1167.96	MEAN	3.20	MAX	110	MIN	.00	AC-FT	2320		

GREEN RIVER BASIN

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--No flow observed Jan. 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT											
02...	1200	--	.53	2100	--	4.0	270	--	--	--	--
04...	1330	--	.62	1900	8.4	9.0	70	--	8.6	40	--
30...	0900	--	.90	1850	8.6	1.0	140	--	10.6	--	2.1
NOV											
03...	1255	--	.94	2050	--	5.5	170	--	--	--	--
21...	1610	.40	--	2400	8.5	.0	200	--	10.8	--	2.6
DEC											
08...	1430	.24	--	--	--	.0	100	--	--	--	--
17...	1540	.22	--	4000	8.3	.0	99	--	11.0	--	3.4
FEB											
20...	1515	.06	--	1500	8.8	.0	120	--	10.4	--	6.7
MAR											
14...	1115	1.0	--	800	--	.0	65	--	--	--	--
28...	1500	5.8	--	560	8.3	4.0	1600	--	9.8	--	4.0
APR											
05...	0915	4.5	--	1500	--	.5	340	--	--	--	--
18...	1130	--	44	400	--	10.0	2300	--	--	--	--
25...	1600	--	2.5	1070	8.3	12.0	460	--	8.8	--	--
MAY											
02...	1310	--	4.4	1900	--	7.0	420	--	--	--	--
02...	1800	--	15	1500	--	--	--	--	--	--	--
15...	1150	--	1.5	1700	--	13.0	100	--	--	--	--
30...	1540	--	2.2	1500	8.5	11.5	--	480	8.5	--	1.9
JUN											
07...	1135	--	1.5	1700	--	11.0	55	--	--	--	--
20...	1055	--	2.2	1500	--	11.5	50	--	--	--	--
20...	1500	--	2.3	1490	8.5	20.0	--	52	7.9	--	1.3
JUL											
12...	1155	--	1.3	1420	--	19.0	40	--	--	--	--
30...	1145	--	1.0	1680	--	17.0	95	--	--	--	--
31...	1515	--	.99	1590	9.3	25.0	--	110	8.1	--	2.0
AUG											
21...	1215	--	46	425	--	16.0	7200	--	--	--	--
27...	1600	--	1.0	1440	8.9	20.0	--	130	8.0	--	2.4
SEP											
06...	1245	--	.90	1550	--	16.0	160	--	--	--	--
18...	1215	--	.86	1500	--	13.5	90	--	--	--	--
24...	1500	--	.94	1640	8.9	17.5	--	73	9.4	--	3.7

GREEN RIVER BASIN

77

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	170	0	27	26	400	13	--	2.1	380	12	330
30...	210	0	38	29	390	12	--	2.4	400	11	350
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
21...	200	0	39	26	530	16	--	2.9	490	4	410
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
17...	200	0	41	23	840	26	--	4.9	650	0	530
FEB											
20...	85	0	19	9.1	300	14	--	3.1	230	22	230
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
28...	66	0	18	5.0	93	5.0	--	1.8	150	0	120
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
25...	160	0	41	14	170	5.8	--	2.8	200	0	160
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	210	0	44	25	250	7.5	250	3.1	330	30	320
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	240	0	39	35	260	7.3	260	1.9	340	0	280
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
31...	130	0	16	23	290	11	290	2.3	280	32	280
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
27...	180	0	30	26	280	9.0	280	3.0	310	14	280
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
24...	180	0	24	29	290	9.4	290	2.8	--	--	210

GREEN RIVER BASIN

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 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)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	640	40	1.0	6.0	1340	1.82	2.24	--	.13	.02	.01
30...	610	39	1.0	8.3	1330	1.81	3.23	.32	--	.01	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
21...	790	50	1.5	10	1700	2.31	1.84	.06	--	.09	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
17...	1400	92	2.0	13	2740	3.73	1.63	.27	--	.06	--
FEB											
20...	460	34	.9	7.5	970	1.32	.16	.70	--	.08	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
28...	130	9.2	.3	6.1	338	.46	5.29	.31	--	.05	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
25...	310	25	.4	6.9	669	.91	4.52	.17	--	.03	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	440	28	.6	9.1	993	1.35	5.90	.02	--	.04	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	460	22	.6	7.8	994	1.35	5.64	.04	--	.06	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
31...	480	26	.9	3.2	1010	1.37	2.70	.02	--	.09	--
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
27...	470	27	.6	8.3	1010	1.37	2.73	.01	--	.17	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
24...	510	27	.9	4.5	1010	1.37	2.56	.08	--	.02	--

GREEN RIVER BASIN

79

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (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)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
04...	--	.01	.52	.88	.54	.00	.89	--	--	.14
30...	--	--	2.2	--	2.2	--	--	2.5	11	.16
NOV										
03...	--	--	--	--	--	--	--	--	--	--
21...	--	--	.91	--	1.0	--	--	1.1	4.7	.24
DEC										
08...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.62	--	.68	--	--	.95	4.2	.07
FEB										
20...	--	--	1.6	--	1.7	--	--	2.4	11	.23
MAR										
14...	--	--	--	--	--	--	--	--	--	--
28...	--	--	2.7	--	2.7	--	--	3.0	13	1.6
APR										
05...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
25...	.04	--	.93	--	.96	--	--	1.1	5.0	.51
MAY										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
30...	.05	--	.74	--	.78	--	--	.80	3.5	.29
JUN										
07...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.07	--	.56	--	.62	--	--	.66	2.9	.02
JUL										
12...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
31...	.11	--	.84	--	.93	--	--	.95	4.2	.53
AUG										
21...	--	--	--	--	--	--	--	--	--	--
27...	.21	--	1.8	--	2.0	--	--	2.0	8.9	.17
SEP										
06...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
24...	.02	--	.67	--	.69	--	--	.77	3.4	.17

GREEN RIVER BASIN

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
04...	--	--	.01	.02	.06	43	.0	55560	.072	.000
30...	--	--	--	--	--	--	--	--	--	--
NOV										
03...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
FEB										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
APR										
05...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
25...	1.6	1.6	--	--	--	--	--	--	--	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
30...	.89	.89	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	.06	.06	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
31...	--	1.6	--	--	--	--	--	--	--	--
AUG										
21...	--	--	--	--	--	--	--	--	--	--
27...	--	.52	--	--	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
24...	--	.52	--	--	--	--	--	--	--	--

GREEN RIVER BASIN

81

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT												
04...	1330	--	--	--	--	--	--	230	--	--	--	--
30...	0900	4700	20	2	1	0	0	240	1	1	0	0
NOV												
21...	1610	--	--	--	--	--	--	290	--	--	--	--
DEC												
17...	1540	--	--	--	--	--	--	430	--	--	--	--
FEB												
20...	1515	7000	--	4	--	0	--	200	2	--	20	--
MAR												
28...	1500	--	--	--	--	--	--	60	--	--	--	--
APR												
25...	1600	24000	--	4	--	0	--	100	4	--	30	--
MAY												
30...	1540	--	--	--	--	--	--	160	--	--	--	--
JUN												
20...	1500	--	--	--	--	--	--	160	--	--	--	--
JUL												
31...	1515	40	--	3	--	0	--	210	8	--	10	--
AUG												
27...	1600	--	--	--	--	--	--	150	--	--	--	--
SEP												
24...	1500	--	--	--	--	--	--	180	--	--	--	--

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
04...	--	--	--	--	10	--	--	--	--	--	0
30...	10	2	5600	--	60	9	0	70	70	90	10
NOV											
21...	--	--	--	--	110	--	--	--	--	--	--
DEC											
17...	--	--	--	--	240	--	--	--	--	--	--
FEB											
20...	17	--	5300	--	400	18	--	50	--	120	--
MAR											
28...	--	--	--	--	170	--	--	--	--	--	--
APR											
25...	34	--	16000	16000	60	30	--	20	--	280	--
MAY											
30...	--	--	--	--	70	--	--	--	--	--	--
JUN											
20...	--	--	--	--	50	--	--	--	--	--	--
JUL											
31...	13	--	3500	3400	80	5	--	60	--	70	--
AUG											
27...	--	--	--	--	70	--	--	--	--	--	--
SEP											
24...	--	--	--	--	130	--	--	--	--	--	--

GREEN RIVER BASIN

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--
30...	.0	.0	12	10	10	3	0	0	1.9	30	10
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	.0	--	7	--	6	--	0	--	--	30	--
MAR 28...	--	--	--	--	--	--	--	--	--	--	--
APR 25...	.2	--	3	--	23	--	2	--	--	90	--
MAY 30...	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	--	--	--	--	--	--	--	--	--	--	--
JUL 31...	.0	--	6	--	7	--	1	--	--	60	--
AUG 27...	--	--	--	--	--	--	--	--	--	--	--
SEP 24...	--	--	--	--	--	--	--	--	--	--	--

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 30...	0900	<13	9.7	8.6	9.4	8.0	9.1	.10	4.8

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT 02...	1200	4.0	--	.53	407	.58	--	--	--	--	--
04...	1330	9.0	--	.62	241	.40	--	--	--	--	--
NOV 03...	1255	5.5	--	.94	285	.72	--	--	--	--	--
MAR 14...	1115	.0	1.0	--	154	.42	--	--	--	--	--
APR 05...	0915	.5	4.5	--	686	8.3	--	--	--	--	--
18...	1130	10.0	--	44	2700	321	80	92	100	--	--
MAY 02...	1310	7.0	--	4.4	715	8.5	--	--	--	--	--
02...	1800	--	--	15	4380	177	--	--	--	--	--
15...	1150	13.0	--	1.5	202	.82	--	--	--	--	--
JUN 07...	1135	11.0	--	1.5	114	.46	--	--	--	--	--
20...	1055	11.5	--	2.2	116	.69	--	--	--	--	--
JUL 12...	1155	19.0	--	1.3	72	.25	--	--	--	--	--
30...	1145	17.0	--	1.0	124	.33	--	--	--	--	--
AUG 21...	1215	16.0	--	46	9920	1230	87	96	98	99	100
SEP 06...	1245	16.0	--	.90	216	.52	--	--	--	--	--
18...	1215	13.5	--	.86	100	.23	--	--	--	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM	BED MAT. FALL DIAM. % FINER THAN 8.00 MM	BED MAT. FALL DIAM. % FINER THAN 16.0 MM	BED MAT. FALL DIAM. % FINER THAN 32.0 MM	BED MAT. FALL DIAM. % FINER THAN 64.0 MM
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	34	40	79	99	99	100	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	31	38	50	57	59	66	77	88	93	97	100
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON ANALYSES

DATE	OCT 4, 78
TIME	1330
TOTAL CELLS/ML	43
DIVERSITY: DIVISION	1.6
..CLASS	1.6
..ORDER	1.6
...FAMILY	1.6
....GENUS	1.6
ORGANISM	CELLS PER- /ML CENT
CHLOROPHYTA (GREEN ALGAE)	
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
....DOCYSTACEAE	
....ANKISTRODESMUS	14# 33
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	
..PENNALES	
...NITZSCHIAEAE	
....NITZSCHIA	14# 33
EUGLENOPHYTA (EUGLENOIDS)	
..EUGLENOPHYCEAE	
...EUGLENALES	
...EUGLENACEAE	
....LEPOCINCLIS	14# 33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GREEN RIVER BASIN

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

OCT. 4, 1978
1330 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...ULOTRICHALES	
....ULOTRICHACEAE	
.....ULOTRICH	
...ZYGNEMATALES	
....ZYGNEMATACEAE	
.....MOUSEOTIA	
&SPIROGYRA	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...CYMBELLACEAE	
....RHOPALODIA	
....FRAGILARIACEAE	
&SYNEDRA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
...HORMOGONALES	FILAMENTOUS BL-GREEN
....NOSTOCACEAE	
.....ANABAENA	
.....NOSTOC	
....OSCILLATORIACEAE	
.....OSCILLATORIA	
.....SPIRULINA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1978 TO OCTOBER 1978

DATE	OCT 4, 78
TIME	1330
TOTAL COUNT	15
DIVERSITY: PHYLUM	0.0
..CLASS	0.7
...ORDER	2.0
....FAMILY	2.2
.....GENUS	2.4
.....GENUS-INSECTA	2.1

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..ARACHNIDA	
...HYDRACARINA	
....UNKNOWN FAMILY	
.....UNKNOWN GENUS	3
..INSECTA	
...COLEOPTERA	
....ELMIDAE	
.....HETERLIMNIUS	5
..DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....ORTHOCLADIUS	1
...SIMULIIDAE	
....SIMULIUM	2
..ODONATA	
...GOMPHIDAE	
....UNKNOWN GENUS	3

LOCATION.--Lat 41°38'52", long 108°59'50", in SW¼SE¼SW¼ sec.2, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank at upstream side of bridge on county road, 0.9 mi (1.4 km) southwest of Salt Wells, 2.3 mi (3.7 km) upstream from Salt Wells Creek, and 12 mi (19 km) east of Rock Springs.

WATER-DISCHARGE RECORDS

REMARKS.--Records poor. No gage-height record Dec. 8, 9-12, 19-27, Dec. 29 to Mar. 10. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 888 ft³/s (25.1 m³/s) Aug. 10, gage height, 5.68 ft (1.731 m); no flow for many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.90	.63	.00	.00	4.0	24	2.1	1.1	.00	.00	.33
2	.00	1.3	.58	.00	.00	3.5	24	2.6	.76	.00	.00	.10
3	.01	.90	.56	.00	.00	3.0	14	5.4	.43	.00	.00	.10
4	.58	.48	.62	.00	.00	4.0	11	5.4	.38	.00	.19	.13
5	.48	.24	.68	.00	.00	6.0	15	66	.20	.00	.20	.13
6	.33	.07	.63	.00	.00	8.0	14	36	.16	.00	.00	.10
7	.20	.18	.56	.00	.00	11	9.6	21	.13	.00	.00	.05
8	.10	.21	.53	.00	.00	15	12	17	.16	.00	.00	.02
9	.13	.16	.47	.00	.10	19	57	14	.24	.00	6.2	.02
10	.48	.03	.44	.00	.20	27	48	12	.13	.00	411	.01
11	.48	.03	.42	.00	.50	46	43	9.0	.10	.00	44	.01
12	.16	.02	.43	.00	1.0	55	43	7.2	.08	.00	5.0	.00
13	.10	.01	.44	.00	2.0	50	35	7.8	.32	.00	15	.01
14	.20	.02	.42	.00	3.0	39	22	5.4	.13	.00	5.4	.00
15	.05	.03	.40	.00	3.0	34	15	1.5	.04	.00	2.3	.00
16	.05	.10	.42	.00	2.8	27	33	1.2	.03	.00	26	.16
17	.10	.20	.41	.00	2.6	19	105	1.3	.00	.00	13	.64
18	.24	.40	.43	.00	2.4	15	82	.90	.00	.00	3.6	3.0
19	.38	.59	.45	.00	2.3	16	58	.38	.00	.00	1.5	.76
20	.70	.53	.50	.00	2.2	19	37	.43	.00	.60	4.0	.48
21	.76	.48	.55	.00	2.3	18	28	.20	.00	.26	119	7.3
22	.45	.45	.59	.00	2.4	17	14	.07	.00	.00	59	4.3
23	.15	.43	.62	.00	2.5	16	7.8	.07	.00	.00	40	.58
24	.10	.47	.65	.00	2.4	15	4.0	.24	.00	26	48	.53
25	.07	.42	.60	.00	2.3	14	2.6	.28	.00	6.5	22	.33
26	.04	.38	.40	.00	2.3	14	2.4	.24	.00	6.8	9.0	.20
27	.01	.41	.20	.00	2.6	15	2.0	.48	.00	1.3	2.4	.10
28	.00	.46	.10	.00	3.0	15	1.8	.64	.00	.58	1.7	.04
29	.00	.50	.05	.00	---	28	1.4	.38	.00	.11	1.1	.08
30	.00	.56	.02	.00	---	34	2.3	.33	.00	.00	.53	.05
31	.10	---	.01	.00	---	30	---	.38	---	.00	.48	---
TOTAL	6.28	10.96	13.81	.00	41.90	630.5	767.9	219.92	4.39	42.15	840.60	19.56
MEAN	.20	.37	.45	.000	1.50	20.3	25.6	7.09	.15	1.36	27.1	.65
MAX	.76	1.3	.68	.00	3.0	55	105	.66	1.1	26	411	7.3
MIN	.00	.01	.01	.00	.00	3.0	1.4	.07	.00	.00	.00	.00
AC-FT	12	22	27	.00	83	1250	1520	436	8.7	84	1670	39
CAL YR 1978	TOTAL	1314.25	MEAN	3.60	MAX	100	MIN	.00	AC-FT	2610		
WTR YR 1979	TOTAL	2597.97	MEAN	7.12	MAX	411	MIN	.00	AC-FT	5150		

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--No flow observed Jan. 17, June 22, July 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
26...	1350	--	.07	>8000	8.4	7.0	2	--	10.7	2.2
NOV										
03...	0925	--	.98	5500	--	.5	70	--	--	--
23...	1100	.43	--	>8000	8.2	.0	16	--	11.5	4.1
DEC										
08...	1040	.53	--	--	--	.0	25	--	--	--
19...	1340	--	.45	4800	7.6	.0	24	--	10.2	1.2
22...	1130	.59	--	--	--	.0	20	--	--	--
FEB										
22...	1330	2.4	--	3700	8.0	.0	25	--	10.8	5.7
MAR										
08...	1540	15	--	2900	--	.0	750	--	--	--
14...	1415	39	--	2200	--	.0	1800	--	--	--
30...	1200	--	52	1850	8.2	2.0	3300	--	11.4	6.4
APR										
05...	1305	--	27	2800	--	6.0	2800	--	--	--
18...	1435	--	71	--	--	10.0	9300	--	--	--
27...	1200	--	2.6	2700	8.3	14.5	320	--	9.0	--
MAY										
04...	1015	--	6.6	4000	--	10.0	310	--	--	--
15...	1500	--	2.0	2600	--	23.0	35	--	--	--
JUN										
01...	1250	--	1.4	7800	8.3	20.0	--	160	7.7	2.3
08...	0825	--	.20	>8000	--	4.0	15	--	--	--
AUG										
10...	1215	--	776	1770	--	10.5	21600	--	--	--
14...	1720	--	6.0	2700	--	19.5	800	--	--	--
21...	1525	--	98	1200	--	18.0	20400	--	--	--
23...	1130	--	38	--	--	16.5	5000	--	--	--
27...	1015	--	3.6	1400	--	14.5	950	--	--	--
27...	1715	--	2.2	1700	8.3	18.5	--	340	8.2	2.9
SEP										
06...	1000	--	.24	6500	--	16.0	3	--	--	--
24...	1620	--	.48	4500	8.6	22.5	--	37	8.3	3.6

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT										
26...	2300	2000	150	470	1600	14	--	22	400	5
NOV										
03...	--	--	--	--	--	--	--	--	--	--
23...	2900	2500	200	590	1000	8.0	--	34	480	0
DEC										
08...	--	--	--	--	--	--	--	--	--	--
19...	1800	1500	290	270	450	4.6	--	21	380	0
22...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	1300	1100	190	210	290	3.5	--	16	290	0
MAR										
08...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
30...	440	260	74	63	240	5.0	--	6.1	230	0
APR										
05...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
27...	660	430	120	87	340	5.8	350	5.7	280	0
MAY										
04...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	1600	1300	210	270	900	9.7	910	14	420	0
08...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	340	140	70	40	240	5.7	250	5.3	240	0
SEP										
06...	--	--	--	--	--	--	--	--	--	--
24...	0	0	--	--	630	--	640	11	--	--

DATE	ALKA- LITY (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 TOTAL (MG/L AS N)
OCT									
26...	340	4000	1100	.6	1.0	7550	10.3	1.43	.08
NOV									
03...	--	--	--	--	--	--	--	--	--
23...	390	3900	540	.9	2.6	6510	8.85	7.56	4.1
DEC									
08...	--	--	--	--	--	--	--	--	--
19...	310	2300	210	.9	15	3750	5.10	4.56	1.7
22...	--	--	--	--	--	--	--	--	--
FEB									
22...	240	1400	180	.5	9.8	2440	3.32	15.8	4.5
MAR									
08...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
30...	190	600	110	.6	4.5	1210	1.65	170	.90
APR									
05...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
27...	230	820	230	.5	7.2	1750	2.38	12.3	.37
MAY									
04...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
JUN									
01...	340	2300	670	.9	3.4	4580	6.23	17.3	.03
08...	--	--	--	--	--	--	--	--	--
AUG									
10...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	240	500	49	.7	11	916	1.25	5.44	.27
SEP									
06...	--	--	--	--	--	--	--	--	--
24...	57	1300	510	.9	3.7	2490	3.39	3.23	.90

GREEN RIVER BASIN

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT 26...	.05	--	2.1	2.1	2.2	9.7	.05	--	--
NOV 03...	--	--	--	--	--	--	--	--	--
23...	.12	--	1.7	1.8	5.9	26	.15	--	--
DEC 08...	--	--	--	--	--	--	--	--	--
19...	.27	--	1.1	1.4	3.1	14	.09	--	--
22...	--	--	--	--	--	--	--	--	--
FEB 22...	.37	--	1.9	2.3	6.8	30	.07	--	--
MAR 08...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
30...	.18	--	5.7	5.9	6.8	30	3.6	--	--
APR 05...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
27...	.09	.11	1.2	1.3	1.7	7.4	.16	.49	.49
MAY 04...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
JUN 01...	.08	.10	.51	.59	.62	2.7	.23	.71	.71
08...	--	--	--	--	--	--	--	--	--
AUG 10...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	.07	.08	.57	.64	.91	4.0	.60	--	1.8
SEP 06...	--	--	--	--	--	--	--	--	--
24...	.16	.19	.64	.80	1.7	7.5	.09	--	.28

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 26...	1350	100	20	0	0	0	0	1000	2	1	10	10
NOV 23...	1100	--	--	--	--	--	--	1700	--	--	--	--
DEC 19...	1340	--	--	--	--	--	--	1700	--	--	--	--
FEB 22...	1330	960	--	2	--	10	--	540	3	--	10	--
MAR 30...	1200	--	--	--	--	--	--	190	--	--	--	--
APR 27...	1200	6800	--	3	--	--	--	260	2	--	--	--
JUN 01...	1250	--	--	--	--	--	--	740	--	--	--	--
AUG 27...	1715	16000	--	2	--	0	--	210	4	--	20	--
SEP 24...	1620	--	--	--	--	--	--	400	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

GREEN RIVER BASIN

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV									
03...	0925	.5	--	.98	220	.58	--	--	--
DEC									
08...	1040	.0	.53	--	313	.45	--	--	--
22...	1130	.0	.59	--	1090	1.7	--	--	--
MAR									
08...	1540	.0	15	--	2340	95	44	77	100
14...	1415	.0	39	--	8130	856	31	52	80
APR									
05...	1305	6.0	--	27	8910	650	37	59	89
18...	1435	10.0	--	71	19000	3640	51	73	92
MAY									
04...	1015	10.0	--	6.6	664	12	--	--	--
15...	1500	23.0	--	2.0	162	.87	--	--	--
JUN									
08...	0825	4.0	--	.20	68	.04	--	--	--
AUG									
10...	1215	10.5	--	776	49600	104000	42	60	76
14...	1720	19.5	--	6.0	1180	19	--	--	--
21...	1525	18.0	--	98	30200	7990	55	84	96
23...	1130	16.5	--	38	8280	850	60	81	92
27...	1015	14.5	--	3.6	1210	12	94	100	--
SEP									
06...	1000	16.0	--	.24	34	.02	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
NOV								
03...	--	--	--	--	--	--	--	--
DEC								
08...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAR								
08...	--	--	--	--	--	--	--	--
14...	97	100	--	--	--	--	--	--
APR								
05...	98	100	--	--	--	--	--	--
18...	99	100	--	--	--	--	--	--
MAY								
04...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
JUN								
08...	--	--	--	16	43	92	99	100
AUG								
10...	92	99	100	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
21...	99	100	--	--	--	--	--	--
23...	99	100	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

LOCATION.--Lat 41°11'56", long 108°59'52", in SE&NE&NW¼ sec.15, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 0.05 mi (0.08 km) downstream from unnamed tributary, 6.0 mi (9.7 km) upstream from Gap Creek, 13.0 mi (20.9 km) southeast of South Baxter, and 29.0 mi (46.7 km) southeast of Rock Springs.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s (0.37 m³/s) May 23, gage height, 3.58 ft (1.091 m); maximum gage height, 5.35 ft (1.631 m) Feb. 18 (backwater from ice); no flow Jan. 1-10, Jan. 13 to Feb. 3.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.40	.28	.00	.00	.47	.90	4.7	6.1	1.1	.21	.23
2	.29	.41	.26	.00	.00	.45	.80	5.4	5.6	1.0	.20	.17
3	.29	.41	.24	.00	.00	.43	.75	4.4	5.4	1.1	.21	.13
4	.25	.40	.25	.00	.01	.47	.85	3.9	5.4	1.2	.17	.13
5	.27	.32	.27	.00	.06	.54	1.0	4.5	5.2	1.2	.15	.15
6	.29	.25	.25	.00	.08	.58	1.5	5.9	5.4	1.2	.13	.13
7	.29	.25	.23	.00	.10	.65	1.9	4.9	5.2	1.3	.19	.13
8	.32	.28	.21	.00	.12	.70	2.2	4.9	5.6	.80	.17	.11
9	.32	.26	.19	.00	.14	.73	2.5	4.7	5.4	.64	.32	.11
10	.32	.14	.20	.00	.17	.68	2.0	4.5	4.2	.69	.76	.15
11	.29	.07	.21	.01	.20	.73	1.2	4.5	4.0	.69	.38	.17
12	.29	.06	.22	.01	.27	.80	1.4	4.7	3.7	.69	.35	.15
13	.29	.06	.21	.00	.35	.94	1.6	4.2	3.2	.69	.96	.17
14	.29	.06	.22	.00	.44	1.1	1.8	5.2	2.9	.69	.93	.17
15	.32	.07	.21	.00	.55	1.2	2.3	6.1	2.9	.59	.62	.17
16	.35	.08	.19	.00	.62	1.3	3.3	7.3	2.8	.59	2.0	.17
17	.35	.12	.20	.00	.58	1.3	4.0	8.2	2.6	.51	.80	.15
18	.38	.16	.21	.00	.55	1.2	4.0	9.4	2.5	.47	.51	.15
19	.38	.21	.22	.00	.52	1.1	3.5	10	2.8	.47	.64	.15
20	.38	.32	.23	.00	.48	1.1	2.8	10	2.8	.51	3.9	.15
21	.47	.37	.24	.00	.46	1.0	2.4	10	2.4	.55	2.2	.15
22	.47	.28	.25	.00	.43	.90	2.6	11	2.2	.50	.59	.13
23	.37	.30	.26	.00	.38	.94	2.8	11	2.2	.42	.47	.15
24	.34	.34	.27	.00	.35	1.0	3.0	11	2.0	.37	.35	.15
25	.39	.32	.28	.00	.33	1.0	2.9	11	1.9	.33	.35	.15
26	.41	.30	.20	.00	.35	1.1	3.0	10	1.7	.27	.38	.21
27	.36	.28	.10	.00	.39	1.1	3.5	9.1	1.5	.57	.32	.21
28	.31	.26	.05	.00	.44	1.2	3.7	9.4	1.4	1.2	.32	.21
29	.34	.26	.03	.00	---	1.2	3.5	8.8	1.3	.29	.27	.19
30	.36	.27	.02	.00	---	1.1	4.2	8.5	1.1	.23	.21	.19
31	.35	---	.01	.00	---	1.0	---	7.9	---	.22	.25	---
TOTAL	10.42	7.31	6.21	.02	8.37	28.01	71.90	225.1	101.4	21.08	19.31	4.78
MEAN	.34	.24	.20	.001	.30	.90	2.40	7.26	3.38	.68	.62	.16
MAX	.47	.41	.28	.01	.62	1.3	4.2	11	6.1	1.3	.39	.23
MIN	.25	.06	.01	.00	.00	.43	.75	3.9	1.1	.43	.13	.11
AC-FT	21	14	12	.04	17	56	143	446	201	42	38	9.5
CAL YR 1978	TOTAL	384.52										
WTR YR 1979	TOTAL	503.91										
			MEAN	1.05	MAX	7.6	MIN	.01	AC-FT	763		
			MEAN	1.38	MAX	11	MIN	.00	AC-FT	1000		

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1977 to current year.

TEMPERATURES: October 1977 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1976. Water-quality monitor since October 1977.

REMARKS.--No flow observed Jan. 17.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,790 micromhos Nov. 16, 1978; minimum daily, 460 micromhos Apr. 29, 1978.

TEMPERATURES: Maximum daily, 30.5°C Aug. 7, 1978; minimum daily, 0.0°C on many days in most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,000 mg/L Aug. 27, 1977; minimum daily mean, no flow for many days each year.

SEDIMENT LOADS: Maximum daily, 492 tons (446 tonnes) Aug. 26, 1977; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,790 micromhos Nov. 16; minimum daily, 490 micromhos May 24.

TEMPERATURES: Maximum daily, 30.0°C July 12, 18, 24, Aug. 2; minimum daily, 0.0°C on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,130 mg/L Apr. 25; minimum daily mean, 0 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 114 tons (103 tonnes) May 18; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
04...	1100	--	.23	1080	--	4.0	2	--	--	--
13...	1055	--	.32	1050	--	3.5	4	--	--	--
26...	0930	.41	--	1050	8.2	.5	10	--	11.2	1.5
27...	1300	.36	--	1120	--	8.5	15	--	--	--
NOV										
07...	0950	.25	--	1000	--	.0	8	--	--	--
21...	1050	.37	--	1130	--	.0	15	--	--	--
23...	0900	.30	--	1250	8.1	.0	7	--	10.8	2.0
DEC										
04...	1210	.25	--	1100	--	.0	25	--	--	--
19...	0915	.22	--	1300	8.0	.0	6	--	11.5	1.0
21...	1230	.24	--	--	--	.0	20	--	--	--
FEB										
06...	1205	.08	--	600	--	.0	3	--	--	--
20...	1135	.48	--	950	--	.0	9	--	--	--
22...	0915	.43	--	1450	8.0	.0	12	--	11.0	2.2
MAR										
06...	1210	.58	--	950	--	.0	210	--	--	--
20...	1045	1.1	--	1080	--	.0	210	--	--	--
30...	0830	1.1	--	1180	8.2	.0	530	--	11.2	2.2
APR										
04...	1030	.85	--	1350	--	.0	330	--	--	--
19...	1150	--	3.0	850	--	5.0	2300	--	--	--
27...	0800	--	3.5	910	8.3	3.0	1300	--	10.8	--
MAY										
03...	1140	--	3.8	700	--	4.0	1300	--	--	--
09...	0850	--	4.7	740	--	1.0	850	--	--	--
17...	1200	--	7.3	440	--	14.0	1900	--	--	--
21...	1100	--	11	440	--	12.5	1200	--	--	--
25...	1100	--	11	470	--	12.5	650	--	--	--
JUN										
01...	0900	--	6.1	640	8.3	6.0	--	390	9.6	1.8
05...	1200	--	5.2	600	--	18.0	270	--	--	--
12...	1015	--	3.7	--	--	13.0	220	--	--	--
21...	1100	--	2.5	680	--	17.0	180	--	--	--
22...	0930	--	2.2	740	8.3	12.5	--	96	8.5	1.7
27...	1100	--	1.6	850	--	19.0	100	--	--	--
JUL										
05...	0950	--	1.1	870	--	10.0	30	--	--	--
10...	1235	--	.64	900	--	22.0	480	--	--	--
19...	1100	--	.41	1050	--	20.5	20	--	--	--
25...	0900	--	.32	980	--	10.5	5	--	--	--
AUG										
01...	1500	.21	--	980	8.5	27.0	--	13	8.2	3.3
02...	1000	--	.21	1010	--	13.5	4	--	--	--
09...	0900	--	.21	1020	--	12.5	5	--	--	--
13...	1030	--	.59	980	--	15.5	420	--	--	--
22...	1315	--	.47	960	--	23.0	160	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

		NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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- PHATF, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)		
OCT												
04...		--	--	--	--	--	--	--	--	--		
13...		--	--	--	--	--	--	--	--	--		
26...		.04	--	.47	.51	.53	2.3	.06	--	--		
27...		--	--	--	--	--	--	--	--	--		
NOV												
07...		--	--	--	--	--	--	--	--	--		
21...		--	--	--	--	--	--	--	--	--		
23...		.05	--	.49	.54	.59	2.6	.05	--	--		
DEC												
04...		--	--	--	--	--	--	--	--	--		
19...		.14	--	.29	.43	.57	2.5	.02	--	--		
21...		--	--	--	--	--	--	--	--	--		
FEB												
06...		--	--	--	--	--	--	--	--	--		
20...		--	--	--	--	--	--	--	--	--		
22...		.07	--	.37	.44	.61	2.7	.03	--	--		
MAR												
06...		--	--	--	--	--	--	--	--	--		
20...		--	--	--	--	--	--	--	--	--		
30...		.07	--	1.1	1.2	1.4	6.4	.69	--	--		
APR												
04...		--	--	--	--	--	--	--	--	--		
19...		--	--	--	--	--	--	--	--	--		
27...		.03	.04	3.0	3.0	3.3	15	.32	.98	.98		
MAY												
03...		--	--	--	--	--	--	--	--	--		
09...		--	--	--	--	--	--	--	--	--		
17...		--	--	--	--	--	--	--	--	--		
21...		--	--	--	--	--	--	--	--	--		
25...		--	--	--	--	--	--	--	--	--		
JUN												
01...		.06	.07	1.0	1.1	1.3	5.6	.46	1.4	1.4		
05...		--	--	--	--	--	--	--	--	--		
12...		--	--	--	--	--	--	--	--	--		
21...		--	--	--	--	--	--	--	--	--		
22...		.02	.02	1.3	1.3	1.3	5.8	.13	.40	.40		
27...		--	--	--	--	--	--	--	--	--		
JUL												
05...		--	--	--	--	--	--	--	--	--		
10...		--	--	--	--	--	--	--	--	--		
19...		--	--	--	--	--	--	--	--	--		
25...		--	--	--	--	--	--	--	--	--		
AUG												
01...		.11	.13	.67	.78	.82	3.6	.03	--	.09		
02...		--	--	--	--	--	--	--	--	--		
09...		--	--	--	--	--	--	--	--	--		
13...		--	--	--	--	--	--	--	--	--		
22...		--	--	--	--	--	--	--	--	--		
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
AUG												
28...	1430	.27	1080	8.5	24.0	--	5.7	7.7	2.2	400	190	60
31...	1320	.19	1050	--	13.5	3	--	--	--	--	--	--
SEP												
06...	1045	.17	1200	--	13.5	2	--	--	--	--	--	--
12...	1000	.17	1120	--	7.0	3	--	--	--	--	--	--
18...	1300	.17	1150	--	20.0	4	--	--	--	--	--	--
25...	1530	.13	1040	8.6	20.0	--	1.0	8.2	3.3	410	100	75
26...	1000	.17	--	--	10.0	3	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
AUG 28...	60	70	1.5	76	5.7	250	0	210	320	14	.3	8.8
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
25...	54	190	4.1	190	4.6	--	--	310	470	23	.4	10
26...	--	--	--	--	--	--	--	--	--	--	--	--

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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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 TOTAL (MG/L AS PO4)
AUG 28...	662	.90	.48	.01	.00	.00	1.4	1.4	1.4	6.2	.02	.06
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
25...	1010	1.37	.35	.01	.06	.07	.60	.66	.67	3.0	.02	.06
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
APR 19...	1150	2	5.0	3.0	54	89	100	--	--	--	--
MAY 03...	1140	2	4.0	3.8	41	74	98	100	--	--	--
17...	1200	2	14.0	7.3	55	84	98	99	100	--	--
21...	1100	2	12.5	11	51	79	98	100	--	--	--
JUN 05...	1200	2	18.0	5.2	--	--	--	--	--	18	5

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM	BED MAT. FALL DIAM. % FINER THAN 8.00 MM	BED MAT. FALL DIAM. % FINER THAN 16.0 MM	BED MAT. FALL DIAM. % FINER THAN 32.0 MM	BED MAT. FALL DIAM. % FINER THAN 64.0 MM
APR 19...	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JUN 05...	20	63	68	70	71	74	78	86	96	100

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	1100	1140				---	773	621	751	1020	1040
2	1030	1080	1130				---	804	618	---	1040	1080
3	1070	1060	1140				---	780	620	827	1060	1120
4	1100	1030	1130				---	800	619	833	1100	1110
5	1100	1070	1140				---	718	618	824	1020	1100
6	1090	1130	1140				---	639	623	844	1130	1110
7	1080	1160	1180				---	654	629	857	1120	1120
8	1070	1150	1260				---	656	664	865	1060	1110
9	1060	1170	1320				---	705	699	883	1040	1110
10	1060	1140	1320				---	729	678	917	980	1080
11	1080	1190	1320				---	740	686	916	901	1030
12	1090	1100	1360				---	771	695	905	886	1060
13	1090	1090	1340				---	732	704	906	979	1070
14	1100	1410	1380				---	633	713	917	1130	1060
15	1100	1570	1400				---	586	712	941	947	1040
16	1080	1790	1410				---	557	711	903	930	1040
17	1070	---	1410				---	559	725	924	938	1050
18	1050	---	1410				---	526	730	932	905	1080
19	1030	---	1370				---	845	509	720	945	893
20	1030	---	---				---	974	501	736	933	1080
21	1040	---	---				---	770	512	750	941	1080
22	1080	1240	---				---	724	499	760	944	1090
23	1090	1250	---				---	789	493	765	916	1080
24	1060	1240	---				---	776	490	771	900	991
25	1090	1240	---				---	922	510	787	928	1010
26	1110	1220	---				---	924	533	801	964	1000
27	1130	1190	---				---	912	510	800	999	1000
28	1110	1200	---				---	870	520	807	1170	1010
29	1110	1180	---				---	898	---	810	1020	1010
30	1080	1150	---				---	827	537	850	1020	868
31	1080	---	---				---	583	---	1030	1060	---
MEAN	1080	1210	1280				---	853	619	714	922	1080
MAX	1130	1790	1410				---	974	804	850	1170	1130
MIN	1020	1030	1130				---	724	490	618	751	737
WTR YR 1979	MEAN	961	MAX	1790	MIN	490						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	2.5	9.0	.5	.0	.0	.0		.0	---	.5	.0
2	15.5	.5	10.5	1.0	.5	.0	.0		.0	---	.5	.0
3	15.5	.0	10.5	.5	.5	.0	.0		.0	---	.5	.0
4	16.5	.5	8.5	.0	.0	.0	.0		.0	---	.5	.0
5	16.5	1.0	8.0	.0	.5	.0	.0		.0	---	1.0	.0
6	16.0	.0	5.5	.0	.0	.0	.0		.0	---	2.0	.0
7	16.5	1.0	6.5	.0	.0	.0	.0		.0	---	2.5	.0
8	14.0	1.5	10.0	.5	.5	.0	.0		.0	---	1.5	.0
9	17.5	2.5	6.0	.0	.5	.0	.0		.0	---	.0	.0
10	16.5	2.5	1.0	.5	.5	.0	.0		.0	---	.0	.0
11	17.5	4.5	1.0	.5	.5	.0	.0		.0	---	.5	.0
12	15.5	4.0	.5	.5	.0	.0	.0		.0	---	1.0	.0
13	14.5	.5	.5	.0	.5	.0	.0		.0	---	2.0	.0
14	14.5	.5	1.0	.5	.5	.0	.0		.0	---	1.5	.0
15	15.5	1.0	1.0	.5	.5	.0	.0		.0	---	1.0	.0
16	13.5	.5	1.0	.5	.0	.0	.0		.0	---	1.5	.5
17	9.0	3.0	1.0	.5	.0	.0	.0		.0	---	1.5	.5
18	14.5	3.5	.5	.5	.0	.0	.0		.0	---	1.0	.5
19	14.5	1.0	.5	.5	.0	.0	.0		.0	---	.5	.5
20	8.0	1.5	.5	.0	.0	.0	.0		.0	---	.5	.0
21	12.0	5.5	.5	.0	.0	---	.0		2.5	.0	1.5	.0
22	10.0	2.5	.0	.0	.0	---	.0		1.0	.0	1.0	.0
23	10.0	.5	.0	.0	.0	---	.0		.5	.0	4.5	.0
24	9.5	.0	.5	.0	.0	---	.0		.5	.0	4.5	.0
25	8.5	.0	.0	.0	.0	---	.0		.5	.0	4.0	.0
26	9.5	.0	.0	.0	.0	---	.0		.5	.0	5.0	.0
27	10.5	.0	.0	.0	.0	---	.0		.5	.0	4.5	.0
28	9.0	.0	.0	.0	.0	---	.0		.5	.0	6.0	.0
29	9.0	.0	.0	.0	.0	---	.0		---	---	5.5	.0
30	6.0	.5	.0	.0	.0	---	.0		---	---	4.5	.0
31	8.5	.0	---	---	.0	---	.0		---	---	8.5	1.0
MONTH	17.5	.0	10.5	.0	.5	.0	.0		2.5	.0	8.5	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	.0	13.0	3.5	18.5	5.0	24.0	9.0	27.5	8.0	25.5	5.5
2	3.5	.0	6.5	2.0	20.5	5.5	23.0	11.5	30.0	8.0	23.5	5.5
3	1.5	.0	11.5	1.0	22.0	7.5	24.5	9.0	29.0	7.5	22.5	5.0
4	1.0	.0	18.0	1.0	23.0	8.5	23.5	8.5	29.5	6.5	25.0	.0
5	11.5	.0	16.0	6.5	22.5	10.0	25.5	8.0	27.5	8.0	26.5	5.5
6	13.5	.0	8.0	1.5	18.5	9.5	23.0	8.5	26.5	10.5	28.5	6.0
7	12.0	1.0	7.5	.0	18.5	5.0	27.5	6.5	29.0	10.5	26.5	6.0
8	15.0	.0	8.0	2.0	8.5	4.5	27.5	9.0	26.5	13.0	23.0	8.0
9	14.0	.0	4.5	1.0	18.5	3.0	27.5	8.0	23.5	11.5	22.0	9.0
10	5.5	.0	8.5	.0	22.5	6.0	29.5	8.5	27.0	12.0	21.0	10.0
11	7.0	.0	8.0	.0	25.0	8.0	28.5	8.0	25.5	10.5	24.5	6.5
12	8.5	.0	17.0	.5	25.0	8.5	30.0	8.5	21.5	11.0	23.0	4.5
13	11.5	.0	18.5	3.0	24.5	10.5	29.0	10.0	21.0	13.0	20.5	3.5
14	15.0	.5	15.5	4.5	23.0	11.0	29.5	8.0	21.5	12.0	20.5	3.0
15	16.5	2.5	18.5	5.0	23.0	10.0	25.0	9.0	20.5	10.0	23.0	.5
16	15.5	4.0	14.0	7.5	23.5	8.5	25.5	10.5	21.5	12.5	23.5	1.5
17	13.5	4.0	18.0	6.0	20.5	7.5	29.0	10.5	23.5	12.0	22.0	3.0
18	12.5	3.5	18.5	6.0	17.0	8.0	30.0	10.5	23.0	10.5	23.5	4.5
19	8.0	.5	19.0	6.0	12.5	6.0	28.0	10.5	20.0	12.0	22.0	4.5
20	17.5	.0	19.5	7.5	20.5	4.0	28.0	10.0	17.5	11.5	23.0	7.0
21	17.0	.5	18.5	8.5	24.0	8.5	27.5	11.0	25.0	8.5	22.5	5.5
22	14.0	2.0	20.0	8.0	22.5	8.0	21.5	13.0	26.0	8.0	20.5	4.0
23	12.5	1.0	21.0	8.5	25.0	8.5	24.5	13.0	28.0	8.5	20.0	3.0
24	13.5	3.0	15.0	10.5	27.0	8.0	30.0	12.0	26.5	10.0	22.5	6.0
25	17.5	2.5	15.5	10.0	24.0	9.5	29.0	9.0	24.5	8.0	20.5	7.0
26	18.0	.5	20.0	8.5	23.5	9.0	27.0	8.5	26.0	7.0	16.0	8.5
27	18.5	1.5	18.5	10.5	24.5	9.5	25.5	11.5	23.0	6.5	21.5	4.5
28	14.0	3.5	19.0	11.5	26.0	8.5	29.0	10.5	26.0	8.5	20.5	2.5
29	14.0	1.5	14.0	8.5	27.5	8.5	29.0	8.5	23.5	8.5	21.5	2.5
30	15.0	2.5	10.5	4.5	24.0	12.5	29.0	8.5	18.5	6.5	20.5	2.5
31	---	---	16.5	5.0	---	---	29.5	9.0	26.0	7.5	---	---
MONTH	18.5	.0	21.0	.0	27.5	3.0	30.0	6.5	30.0	6.5	28.5	.5
YEAR	30.0	.0										

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	.29	---	.04	.40	---	.21	.28	---	.03
2	.29	---	.04	.41	---	.23	.26	---	.01
3	.29	---	.04	.41	---	.23	.24	---	.01
4	.25	14	.01	.40	---	.21	.25	280	.19
5	.27	---	.02	.32	---	.07	.27	---	.02
6	.29	---	.04	.25	---	.01	.25	---	.01
7	.29	---	.04	.25	28	.02	.23	---	.01
8	.32	---	.07	.28	---	.03	.21	---	.00
9	.32	---	.07	.26	---	.01	.19	---	.00
10	.32	---	.07	.14	---	.00	.20	---	.00
11	.29	---	.04	.07	---	.00	.21	---	.00
12	.29	---	.04	.06	---	.00	.22	---	.00
13	.29	26	.02	.06	---	.00	.21	---	.00
14	.29	---	.04	.06	---	.00	.22	---	.00
15	.32	---	.07	.07	---	.00	.21	---	.00
16	.35	---	.12	.08	---	.00	.19	---	.00
17	.35	---	.12	.12	---	.00	.20	---	.00
18	.38	---	.17	.16	---	.00	.21	---	.00
19	.38	---	.17	.21	---	.00	.22	---	.00
20	.38	---	.17	.32	---	.07	.23	---	.01
21	.47	---	.35	.37	199	.20	.24	101	.07
22	.47	---	.35	.28	---	.03	.25	---	.01
23	.37	---	.15	.30	---	.05	.26	---	.01
24	.34	---	.10	.34	---	.10	.27	---	.02
25	.39	---	.20	.32	---	.07	.28	---	.03
26	.41	---	.23	.30	---	.05	.20	---	.00
27	.36	46	.04	.28	---	.03	.10	---	.00
28	.31	---	.06	.26	---	.01	.05	---	.00
29	.34	---	.10	.26	---	.01	.03	---	.00
30	.36	---	.04	.27	---	.02	.02	---	.00
31	.35	---	.12	---	---	---	.01	---	.00
TOTAL	10.42	---	3.14	7.31	---	1.66	6.21	---	0.43
JANUARY			FEBRUARY			MARCH			
1	.00	---	.00	.00	---	.00	.47	---	.35
2	.00	---	.00	.00	---	.00	.45	---	.31
3	.00	---	.00	.00	---	.00	.43	---	.27
4	.00	---	.00	.01	---	.00	.47	---	.35
5	.00	---	.00	.06	---	.00	.54	---	.50
6	.00	---	.00	.08	9	.00	.58	368	.58
7	.00	---	.00	.10	---	.00	.65	---	.67
8	.00	---	.00	.12	---	.00	.70	---	.74
9	.00	---	.00	.14	---	.00	.73	---	.78
10	.00	---	.00	.17	---	.00	.68	---	.72
11	.01	---	.00	.20	---	.00	.73	---	.78
12	.01	---	.00	.27	---	.02	.80	---	.88
13	.00	---	.00	.35	---	.12	.94	---	1.1
14	.00	---	.00	.44	---	.29	1.1	---	1.5
15	.00	---	.00	.55	---	.52	1.2	---	1.7
16	.00	---	.00	.62	---	.63	1.3	---	2.0
17	.00	---	.00	.58	---	.57	1.3	---	2.0
18	.00	---	.00	.55	---	.52	1.2	---	1.7
19	.00	---	.00	.52	---	.46	1.1	---	1.5
20	.00	---	.00	.48	61	.08	1.1	436	1.3
21	.00	---	.00	.46	---	.34	1.0	---	1.2
22	.00	---	.00	.43	---	.27	.90	---	1.0
23	.00	---	.00	.38	---	.17	.94	---	1.1
24	.00	---	.00	.35	---	.12	1.0	---	1.2
25	.00	---	.00	.33	---	.09	1.0	---	1.2
26	.00	---	.00	.35	---	.12	1.1	---	1.5
27	.00	---	.00	.39	---	.20	1.1	---	1.5
28	.00	---	.00	.44	---	.29	1.2	---	1.7
29	.00	---	.00	---	---	---	1.2	---	1.7
30	.00	---	.00	---	---	---	1.1	---	1.5
31	.00	---	.00	---	---	---	1.0	---	1.2
TOTAL	0.02	---	0.00	8.37	---	4.81	28.01	---	34.53

GREEN RIVER BASIN

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	.90	---	1.0	4.7	---	19	6.1	---	30
2	.80	---	.91	5.4	---	24	5.6	---	25
3	.75	---	.75	4.4	5000	59	5.4	---	24
4	.85	591	1.4	3.9	---	14	5.4	983	24
5	1.0	---	1.2	4.5	---	17	5.2	1680	14
6	1.5	---	2.5	5.9	---	28	5.4	---	24
7	1.9	---	3.8	4.9	---	20	5.2	---	22
8	2.2	---	5.0	4.9	---	20	5.6	---	25
9	2.5	---	6.2	4.7	2220	28	5.4	---	24
10	2.0	---	4.2	4.5	---	17	4.2	---	15
11	1.2	---	1.7	4.5	---	17	4.0	---	14
12	1.4	---	2.2	4.7	---	19	3.7	1230	12
13	1.6	---	2.8	4.2	---	15	3.2	550	4.8
14	1.8	---	3.5	5.2	---	22	2.9	432	3.4
15	2.3	---	5.3	6.1	---	30	2.9	208	1.6
16	3.3	---	10	7.3	---	41	2.8	---	7.4
17	4.0	---	14	8.2	4030	86	2.6	---	6.6
18	4.0	---	14	9.4	4480	114	2.5	---	6.2
19	3.5	3600	34	10	4120	111	2.8	---	7.4
20	2.8	---	7.4	10	2940	79	2.8	---	7.4
21	2.4	---	5.8	10	2940	79	2.4	1030	6.7
22	2.6	---	6.6	11	2700	80	2.2	1020	6.1
23	2.8	---	7.4	11	1960	58	2.2	893	5.3
24	3.0	---	8.5	11	1990	59	2.0	766	4.1
25	2.9	7130	56	11	2270	67	1.9	774	4.0
26	3.0	---	8.5	10	---	71	1.7	545	2.5
27	3.5	---	11	9.1	---	60	1.5	648	2.6
28	3.7	---	12	9.4	---	63	1.4	672	2.5
29	3.5	---	11	8.8	1260	30	1.3	553	1.9
30	4.2	---	15	8.5	720	17	1.1	790	2.3
31	---	---	---	7.9	---	46	---	---	---
TOTAL	71.90	---	263.66	225.1	---	1410	101.4	---	335.8
JULY				AUGUST			SEPTEMBER		
1	1.1	545	1.6	.21	---	.03	.23	539	.33
2	1.0	379	1.0	.20	.48	.03	.17	240	.11
3	1.1	300	.89	.21	32	.02	.13	42	.01
4	1.2	213	.69	.17	29	.01	.13	60	.02
5	1.2	269	.87	.15	---	.01	.15	68	.03
6	1.2	276	.89	.13	---	.01	.13	66	.02
7	1.3	308	1.1	.19	---	.02	.13	60	.02
8	.80	150	.32	.17	---	.01	.11	108	.03
9	.64	766	1.3	.32	380	.33	.11	107	.03
10	.69	869	1.6	.76	1790	3.7	.15	147	.06
11	.69	570	1.1	.38	1440	1.5	.17	25	.01
12	.69	262	.49	.35	593	.56	.15	12	.00
13	.69	173	.32	.96	410	1.1	.17	21	.01
14	.69	130	.24	.93	---	1.1	.17	29	.01
15	.59	88	.14	.62	---	.54	.17	16	.01
16	.59	---	.14	2.0	---	4.2	.17	28	.01
17	.51	---	.11	.80	---	.91	.15	24	.01
18	.47	---	.08	.51	---	.39	.15	37	.01
19	.47	65	.08	.64	---	.56	.15	19	.01
20	.51	34	.05	3.9	---	14	.15	46	.02
21	.55	33	.05	2.2	---	5.0	.15	25	.01
22	.50	58	.08	.59	214	.34	.13	22	.01
23	.42	60	.07	.47	163	.21	.15	13	.01
24	.37	37	.04	.35	217	.21	.15	47	.02
25	.33	32	.03	.35	281	.27	.15	58	.02
26	.27	35	.03	.38	308	.32	.21	114	.06
27	.57	205	.32	.32	106	.09	.21	65	.04
28	1.2	1180	3.8	.32	536	.46	.21	22	.01
29	.29	175	.14	.27	320	.23	.19	21	.01
30	.23	63	.04	.21	304	.17	.19	32	.02
31	.22	---	.03	.25	1820	1.2	---	---	---
TOTAL	21.08	---	17.64	19.31	---	37.53	4.78	---	0.97
YEAR	503.91	---	2110.17						

GREEN RIVER BASIN

101

09216578 DRY CANYON CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°13'02", long 108°54'56", in NE¼SW¼SE¼ sec.5, T.14 N., R.102 W., Sweetwater County, Hydrologic Unit 14040105, 2.3 mi (3.7 km) upstream from Pio Reservoir, 13.5 mi (21.7 km) southeast of South Baxter, and 29 mi (47 km) southeast of Rock Springs.

PERIOD OF RECORD.--Water years 1976 to current year (no data available for water years 1976-78).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
AUG 15...	1305	13	11300	397

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY

LOCATION.--Lat 41°37'50", long 108°59'18", in NE&NW&NE& sec.14, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank 1.7 mi (2.7 km) south of Salt Wells, 3.0 mi (4.8 km) upstream from mouth, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--526 mi² (1,362 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REVISED RECORD.--WDR WY-77-2: 1976(M), WDR WY-78-2: 1976(M).

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s), Aug. 1, 1976, gage height 8.80 ft (2.682 m), from rating curve extended above 820 ft³/s (23.2 m³/s) on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 204 ft³/s (5.78 m³/s) Aug. 20, gage height, 4.05 ft (1.234 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.80	2.6	14	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.19	2.6	12	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.40	2.5	9.4	.00	.00	.00
4	.00	.00	.00	.00	.00	.02	.90	7.0	7.4	.00	.00	.00
5	.00	.00	.00	.00	.00	.40	1.1	5.6	6.3	.00	.00	.00
6	.00	.00	.00	.00	.00	.80	1.2	4.1	5.6	.00	.00	.00
7	.00	.00	.00	.00	.00	1.6	.96	4.4	4.7	.00	.00	.00
8	.00	.00	.00	.00	.00	3.5	2.1	9.0	4.4	.00	.00	.00
9	.00	.00	.00	.00	.00	4.0	6.0	9.4	6.0	.00	.00	.00
10	.00	.00	.00	.00	.00	3.3	10	8.2	8.6	.00	.00	.00
11	.00	.00	.00	.00	.00	2.9	16	7.8	7.8	.00	.00	.00
12	.00	.00	.00	.00	.00	3.3	12	6.3	4.7	.00	.00	.00
13	.00	.00	.00	.00	.00	3.8	2.8	6.0	3.1	.00	5.0	.00
14	.00	.00	.00	.00	.00	2.8	1.2	6.0	2.6	.00	13	.00
15	.00	.00	.00	.00	.00	1.8	1.1	4.4	2.3	.00	3.7	.00
16	.00	.00	.00	.00	.01	2.1	4.7	4.7	1.9	.00	4.4	.00
17	.00	.00	.00	.00	.02	2.4	9.9	9.4	1.9	.00	6.7	.00
18	.00	.00	.00	.00	.02	2.2	9.0	16	1.9	.00	4.4	.00
19	.00	.00	.00	.00	.01	2.6	9.9	24	1.7	.00	9.5	.00
20	.00	.00	.00	.00	.01	2.8	8.2	33	1.7	.00	83	.00
21	.00	.00	.00	.00	.01	1.1	5.6	29	1.5	.00	92	.00
22	.00	.00	.00	.00	.00	1.3	2.3	31	1.9	.00	52	.00
23	.00	.00	.00	.00	.00	1.5	1.5	33	1.4	37	3.9	.00
24	.00	.00	.00	.00	.00	1.0	1.7	35	.65	6.0	1.3	.00
25	.00	.00	.00	.00	.00	.46	1.4	37	.36	1.4	.49	.00
26	.00	.00	.00	.00	.00	.64	1.5	37	.30	.04	.02	.00
27	.00	.00	.00	.00	.00	1.0	1.4	34	.01	.00	.00	.00
28	.00	.00	.00	.00	.00	3.0	1.1	28	.00	.00	.00	.00
29	.00	.00	.00	.00	---	5.0	1.2	23	.00	.00	.00	.00
30	.00	.00	.00	.00	---	4.2	3.6	19	.00	.00	.00	.00
31	.00	---	.00	.00	---	3.2	---	16	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.08	62.72	119.75	495.0	114.12	44.44	279.41	.00
MEAN	.000	.000	.000	.000	.003	2.02	3.99	16.0	3.80	1.43	9.01	.000
MAX	.00	.00	.00	.00	.02	5.0	16	37	14	37	92	.00
MIN	.00	.00	.00	.00	.00	.00	.19	2.5	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.2	124	238	982	226	88	554	.00

CAL YR 1978 TOTAL 727.26 MEAN 1.99 MAX 48 MIN .00 AC-FT 1440
WTR YR 1979 TOTAL 1115.52 MEAN 3.06 MAX 92 MIN .00 AC-FT 2210

WATER-QUALITY RECORDS

REMARKS.--No flow observed Oct. 26, Nov. 23, Dec. 19, Jan. 17, Feb. 22, July 31, Aug. 27, Sept. 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
MAR										
08...	1100	3.5	--	4700	--	.5	1400	--	--	--
20...	1350	2.8	--	3100	--	.0	2300	--	--	--
30...	1300	4.2	--	4000	8.4	5.0	2900	--	10.4	4.2
APR										
05...	1430	--	.56	5000	--	11.0	550	--	--	--
18...	1630	--	19	3400	--	10.5	13200	--	--	--
27...	1320	--	1.5	2500	8.3	14.0	700	--	9.0	--
MAY										
04...	1225	--	7.0	2100	--	11.5	2400	--	--	--
15...	1710	--	3.3	1700	--	18.0	700	--	--	--
JUN										
01...	1330	--	14	1370	8.3	15.0	--	2000	8.2	2.5
08...	0935	--	4.1	1700	--	7.0	950	--	--	--
20...	1345	--	1.7	1800	--	19.0	350	--	--	--
22...	1340	--	2.6	1900	8.4	22.5	--	360	7.7	4.4
AUG										
14...	1445	--	4.1	1800	--	18.0	14500	--	--	--
20...	1200	--	50	2600	--	14.0	32000	--	--	--
22...	0945	--	26	1500	--	14.5	18500	--	--	--
23...	0910	--	4.1	1400	--	15.0	10200	--	--	--

[illegible]

GREEN RIVER BASIN

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible][illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

GREEN RIVER BASIN

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
MAR									
08...	1100	.5	3.5	--	2480	23	64	86	100
20...	1350	.0	2.8	--	3960	30	77	100	--
APR									
05...	1430	11.0	--	.56	810	1.2	--	--	--
18...	1630	10.5	--	19	24200	1240	55	92	100
MAY									
04...	1225	11.5	--	7.0	3580	68	57	95	100
15...	1710	18.0	--	3.3	1180	11	--	--	--
JUN									
08...	0935	7.0	--	4.1	1520	17	82	99	100
20...	1345	19.0	--	1.7	525	2.4	--	--	--
AUG									
14...	1445	18.0	--	4.1	14100	156	76	98	100
20...	1200	14.0	--	50	47000	6350	63	97	99
22...	0945	14.5	--	26	28000	1970	59	91	100
23...	0910	15.0	--	4.1	15400	170	82	97	100

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR								
08...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
APR								
05...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
MAY								
04...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
JUN								
08...	--	83	91	96	97	98	99	100
20...	--	--	--	--	--	--	--	--
AUG								
14...	--	--	--	--	--	--	--	--
20...	100	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY

LOCATION.--Lat 41°35'56", long 109°13'54", in NW¼SW¼NW¼ sec.26, T.19 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, 0.6 mi (1.0 km) downstream from Interstate Highway 80, 0.8 mi (1.3 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--No flow observed Jan. 17, Feb. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT										
26...	1500	E.20	>8000	8.1	8.0	10	--	19.2	400	3000
NOV										
23...	1230	E.20	>8000	7.5	.0	20	--	7.2	3200	2800
DEC										
19...	1530	E.20	>8000	7.3	.5	66	--	3.8	2700	2800
MAR										
30...	1430	E.20	4700	7.9	10.5	100	--	9.8	1600	980
APR										
27...	1500	E.30	4000	8.3	20.0	7	--	9.6	1000	810
JUN										
01...	1500	E.40	2600	8.3	22.5	30	--	6.7	K75000	520
22...	1500	E.10	>8000	8.5	27.5	6	--	12.8	2900	1600
AUG										
02...	0715	E.10	>8000	7.9	11.0	10	--	8.5	560	2200
30...	0955	.08	6000	8.4	15.0	--	6.8	6.0	110	2000
SEP										
26...	1245	.80	3400	7.6	21.5	25	--	.6	--	760

E-Estimate.

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

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT										
26...	2500	210	610	1900	15	--	84	630	0	520
NOV										
23...	2200	180	580	1700	14	--	180	720	0	590
DEC										
19...	2100	190	560	1500	12	--	88	840	0	690
MAR										
30...	740	130	160	560	7.8	--	24	300	0	250
APR										
27...	500	110	130	550	8.4	--	17	380	0	310
JUN										
01...	210	82	76	350	6.7	--	17	380	0	310
22...	1200	110	320	1300	14	1300	48	480	3	400
AUG										
02...	1700	240	400	1300	12	1400	69	690	0	570
30...	1600	230	340	1000	9.8	1100	59	500	0	410
SEP										
26...	470	90	130	450	7.1	470	22	--	--	290

GREEN RIVER BASIN

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)
OCT 26...	3600	2200	.7	3.3	8920	12.1	4.82	.65	.03	--
NOV 23...	3000	2000	.8	9.6	8010	10.9	4.33	.61	2.7	--
DEC 19...	3800	1200	1.0	13	7780	10.6	4.20	1.3	4.1	--
MAR 30...	1100	640	.5	4.8	2770	3.77	1.50	.52	2.2	--
APR 27...	900	500	.7	12	2410	3.28	1.95	.35	.83	1.0
JUN 01...	590	280	.7	8.8	1590	2.16	1.72	.01	3.0	3.6
22...	2300	1500	.9	1.3	5820	7.92	1.57	.29	.83	1.0
AUG 02...	2600	1300	.7	7.6	6260	8.51	1.69	.05	7.9	9.6
30...	2400	1000	.8	1.5	5280	7.18	1.14	1.4	3.9	4.7
SEP 26...	960	430	.4	9.1	2270	3.09	4.90	--	--	--

DATE	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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 26...	4.0	4.0	4.7	21	.21	--	--	--	2.2
NOV 23...	2.7	5.4	6.0	27	.20	--	--	--	--
DEC 19...	1.8	5.9	7.2	32	.24	--	--	--	--
MAR 30...	1.6	3.8	4.3	19	.51	--	--	--	--
APR 27...	1.1	1.9	2.3	10	.39	1.2	1.2	--	--
JUN 01...	3.8	6.8	6.8	30	4.0	12	12	20	5.0
22...	2.1	2.9	3.2	14	.67	2.1	2.1	--	--
AUG 02...	.00	4.0	4.1	18	3.6	--	11	--	--
30...	.40	4.3	5.7	25	.81	--	2.5	--	--
SEP 26...	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)
OCT 26...	1500	120	120	0	3	1	0	0	0	2900	2	0
NOV 23...	1230	--	--	--	--	--	--	--	--	3100	--	--
DEC 19...	1530	--	--	--	--	--	--	--	--	2700	--	--
MAR 30...	1430	--	--	--	--	--	--	--	--	860	--	--
APR 27...	1500	--	--	--	--	--	--	--	--	870	--	--
JUN 01...	1500	1100	1100	0	6	5	0	0	0	770	3	0
22...	1500	--	--	--	--	--	--	--	--	--	--	--
AUG 02...	0715	--	--	--	--	--	--	--	--	2600	--	--
30...	0955	--	--	--	--	--	--	--	--	2100	--	--
SEP 26...	1245	--	--	--	--	--	--	--	--	1000	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVER- ERABLE (UG/L AS CR)	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVER- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOVER- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVER- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOVER- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVER- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOVER- ERABLE (UG/L AS PB)
OCT 26...	4	20	0	20	8	4	4	3700	3500	220	18	4
NOV 23...	--	--	--	--	--	--	--	--	--	320	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	6100	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	110	--	--
APR 27...	--	--	--	--	--	--	--	--	--	50	--	--
JUN 01...	3	10	10	0	19	11	8	1900	1800	60	25	24
JUN 22...	--	--	--	--	--	--	--	--	--	80	--	--
AUG 02...	--	--	--	--	--	--	--	--	--	140	--	--
AUG 30...	--	--	--	--	--	--	--	--	--	80	--	--
SEP 26...	--	--	--	--	--	--	--	--	--	140	--	--

[illegible][illegible]

GREEN RIVER BASIN

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY

LOCATION.--Lat 41°33'00", long 109°18'15", in NW¼SE¼SW¼ sec.7, T.18 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on State Highway 373, 2.0 mi (3.2 km) east of Kanda, and 5.0 mi (8.0 km) west of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--No flow observed Dec. 18, Jan. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT											
04...	1015	3.0	2900	8.4	10.0	3	8.2	--	470	150	84
26...	1730	4.2	4000	8.6	9.5	4	16.3	210000	610	250	98
NOV											
24...	0815	E2.0	3700	7.8	.0	10	5.5	420000	540	190	93
FEB											
21...	1530	E8.0	5000	7.8	.0	10	6.2	K6000	1500	1200	210
MAR											
30...	1600	32	3100	8.2	5.5	5500	8.8	96000	730	510	110
APR											
27...	1640	17	3400	8.0	18.0	30	6.9	K2000	820	560	130
JUN											
01...	1730	9.6	2250	8.0	22.0	700	5.9	220000	540	300	100
22...	1640	3.8	3000	8.8	25.0	8	19.8	44000	380	120	62
AUG											
01...	1330	E1.5	3000	8.7	25.0	5	15.2	620000	490	200	73
30...	0850	3.2	2500	8.4	11.5	20	6.6	74000	380	130	78
SEP											
26...	1400	3.2	2600	8.9	20.0	10	15.1	110000	480	200	72

E-Estimate.

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

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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											
04...	62	510	10	--	17	390	0	320	560	510	.6
26...	89	610	11	--	21	440	0	360	790	560	.8
NOV											
24...	75	590	11	--	19	430	0	350	600	600	.6
FEB											
21...	230	600	6.8	--	17	350	0	290	1900	470	.6
MAR											
30...	110	400	6.5	--	11	270	0	220	980	270	.6
APR											
27...	120	410	6.2	--	11	310	0	250	950	280	.6
JUN											
01...	70	260	4.9	270	10	290	0	240	550	210	.5
22...	55	520	12	540	16	320	0	260	560	460	.6
AUG											
01...	74	470	9.3	490	19	350	0	290	600	410	.5
30...	44	380	8.5	400	15	300	0	250	500	320	.6
SEP											
26...	72	430	8.6	450	16	--	--	280	590	390	.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT 04...	1015	--	--	--	--	--	--	--	--	690	--	--
26...	1730	150	140	10	7	6	0	0	0	850	1	0
NOV 24...	0815	--	--	--	--	--	--	--	--	620	--	--
FEB 21...	1530	--	--	--	--	--	--	--	--	660	--	--
MAR 30...	1600	--	--	--	--	--	--	--	--	410	--	--
APR 27...	1640	--	--	--	--	--	--	--	--	510	--	--
JUN 01...	1730	--	--	--	--	--	--	--	--	720	--	--
22...	1640	160	160	0	5	7	0	0	0	720	3	2
AUG 01...	1330	--	--	--	--	--	--	--	--	830	--	--
30...	0850	--	--	--	--	--	--	--	--	620	--	--
SEP 26...	1400	--	--	--	--	--	--	--	--	820	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUS- PENDED RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOVERABLE (UG/L AS PB)
OCT 04...	--	--	--	--	--	--	--	--	--	90	--	--
26...	1	0	0	10	12	6	6	510	440	70	6	2
NOV 24...	--	--	--	--	--	--	--	--	--	180	--	--
FEB 21...	--	--	--	--	--	--	--	--	--	60	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	100	--	--
APR 27...	--	--	--	--	--	--	--	--	--	40	--	--
JUN 01...	--	--	--	--	--	--	--	--	--	20	--	--
22...	1	10	0	10	11	2	9	400	380	20	15	12
AUG 01...	--	--	--	--	--	--	--	--	--	20	--	--
30...	--	--	--	--	--	--	--	--	--	90	--	--
SEP 26...	--	--	--	--	--	--	--	--	--	90	--	--

[illegible]

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
26...	3	7	1	6	1	1	0	3.2	30	10	20
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	3	13	0	13	1	0	1	2.0	40	20	20
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM	BED MAT. FALL DIAM. % FINER THAN 4.00 MM
OCT											
04...	1015	2	10.0	3.0	1	12	79	98	99	99	100

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON ANALYSES

DATE	OCT 4,78
TIME	1015
TOTAL CELLS/ML	12000
DIVERSITY: DIVISION	1.1
..CLASS	1.1
...ORDER	1.1
...FAMILY	1.1
....GENUS	1.1
ORGANISM	CELLS PER- /ML CENT
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	
...PENNALES	
....NITZSCHIA	170 1
CYANOPHYTA (BLUE-GREEN ALGAE)	
..CYANOPHYCEAE	
...HORMOGONALES	
....OSCILLATORIA	5700# 46
EUGLENOPHYTA (EUGLENOIDS)	
..EUGLENOPHYCEAE	
...EUGLENALES	
....EUGLENA	6600# 53

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi² (36,300 km²), of which 4,260 mi² (11,030 km²), including 3,959 mi² (10,254 km²) 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. Altitude of gage is 6,060 ft (1,847 m), from topographic map.

REMARKS.--Records good except those for winter period, and periods of no gage-height record, Dec. 20 to Feb. 2, Mar. 10-20, 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 (902 km²) above station.

AVERAGE DISCHARGE.--28 years, 1,703 ft³/s (48.23 m³/s), 1,234,000 acre-ft/yr (1,522 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Sept. 7, 1965, gage height, 8.53 ft (2.60 m), caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft³/s (4.81 m³/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft³/s (629 m³/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s (136 m³/s) June 12, gage height, 4.45 ft (1.356 m); minimum daily, 385 ft³/s (10.9 m³/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	765	1100	630	1100	1140	1160	1690	4470	1380	943	970
2	751	772	930	650	1100	1100	1110	1690	4770	1380	961	990
3	758	779	800	730	1090	1070	1110	1700	4740	1380	952	990
4	758	758	780	870	1080	1080	1100	1680	4740	1310	943	990
5	758	751	900	1100	1100	1100	1100	1660	4770	1190	952	990
6	758	751	780	1200	1100	1120	1150	1680	4740	1180	943	990
7	765	744	620	1200	1100	1130	1170	1690	4720	1140	952	970
8	772	744	760	1100	1090	1130	1220	1680	4740	990	970	980
9	772	744	660	980	1090	1100	1220	1660	4740	980	1000	961
10	772	758	730	950	1080	1070	1400	1680	4740	961	1060	961
11	765	580	930	980	1080	1080	1620	1680	4770	943	1220	961
12	758	670	1000	1050	1090	1130	1640	1660	4790	934	1030	961
13	758	780	1100	1100	1090	1100	1620	1640	4740	934	1080	970
14	758	760	1050	1100	1100	1100	1580	1640	4700	925	1150	1000
15	758	740	1100	1100	1100	1100	1560	1660	4720	907	1390	1020
16	758	720	1150	1060	1120	1060	1570	1660	4420	889	1100	1010
17	765	740	1150	1000	1150	1080	1660	1680	3820	872	1060	1000
18	786	800	1150	980	1150	1150	1850	1660	3800	872	1030	990
19	765	950	1100	990	1090	1280	1910	1680	3850	1040	1040	990
20	765	1050	1100	1000	1050	1400	2090	1690	3450	1170	1090	990
21	765	1100	1000	990	1060	1450	2000	1690	3010	1190	1170	970
22	765	1070	960	1000	1080	1500	1860	1690	2460	1220	1170	970
23	765	1090	980	1000	1080	1600	1780	1690	1960	1230	1090	961
24	758	1000	1050	1050	1090	1700	1750	1690	1820	1200	970	832
25	772	870	1100	1100	1080	1900	1720	1720	1800	1180	970	512
26	772	1000	1100	1100	1080	1800	1700	1950	1770	1170	970	405
27	765	1000	1080	1100	1100	1440	1690	2770	1770	1180	961	395
28	758	930	1050	1100	1100	1200	1690	3690	1780	1110	970	390
29	758	900	900	1100	---	1230	1680	3890	1580	961	943	385
30	758	1100	800	1100	---	1220	1680	3870	1380	943	934	494
31	765	---	700	1100	---	1220	---	3920	---	943	943	---
TOTAL	23347	25416	29610	31510	30620	38780	46390	62030	109560	33704	31957	25998
MEAN	753	847	955	1016	1094	1251	1546	2001	3652	1087	1031	867
MAX	786	1100	1150	1200	1150	1900	2090	3920	4790	1380	1390	1020
MIN	446	580	620	630	1050	1060	1100	1640	1380	872	934	385
AC-FT	46310	50410	58730	62500	60730	76920	92010	123000	217300	66850	63390	51570

CAL YR 1978 TOTAL 772417 MEAN 2116 MAX 8520 MIN 352 AC-FT 1532000
WTR YR 1979 TOTAL 488922 MEAN 1340 MAX 4790 MIN 385 AC-FT 969800

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 (1.3 km) upstream from Bitter Creek and 1.0 mi (1.6 km) upstream from discharge station.

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1951 to current year.
 WATER TEMPERATURES: May 1951 to current year.
 SEDIMENT CONCENTRATIONS: May 1951 to current year.
 SEDIMENT LOADS: May 1951 to current year.

REMARKS.--Flow affected by ice Nov. 19-22, Dec. 1 to Mar. 9.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum observed, 1,530 micromhos June 29, 1977; minimum daily, 219 micromhos May 22, 1954.
 WATER TEMPERATURES: Maximum, 29.0°C July 1, 1977; minimum, 0.0°C on many days during winter period.
 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 (99,800 tonnes) Mar. 28, 1962; minimum daily, 0 ton Sept. 18, 1962.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 1,050 micromhos Apr. 2; minimum observed, 328 micromhos June 14, 19.
 WATER TEMPERATURES: Maximum, 23.0°C Sept. 7, 8; minimum, 0.0°C on many days during November to March.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,040 mg/L Aug. 15; minimum daily mean, 2 mg/L Oct. 6, 14, 16.
 SEDIMENT LOADS: Maximum daily, 3,900 tons (3,540 tonnes) Aug. 15; minimum daily, 4.1 tons (3.7 tonnes) Oct. 6, 14, 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACU3)
OCT										
04...	1830	--	751	690	--	12.0	1	--	--	--
25...	1530	--	765	640	8.8	8.0	1	11.7	K5	220
NOV										
02...	1100	--	758	570	--	6.5	1	--	--	--
22...	1550	--	1060	530	8.4	.0	1	10.8	K6	210
27...	1400	1000	--	400	--	.0	2	--	--	--
DEC										
18...	1350	1150	--	620	8.2	.0	1	11.8	K10	230
JAN										
11...	1210	980	--	400	--	.0	2	--	--	--
17...	1300	1000	--	570	8.0	.0	2	11.0	K10	230
FEB										
02...	1615	1100	--	360	--	.0	2	--	--	--
21...	1300	1060	--	600	8.1	.0	2	11.8	K1	240
MAR										
27...	1000	--	1570	625	--	3.0	55	--	--	--
29...	1430	--	1260	750	8.4	5.0	75	10.8	<1	250
APR										
11...	1545	--	1680	740	--	5.0	55	--	--	--
26...	1440	--	1690	690	8.3	9.0	1	10.6	<1	220
MAY										
03...	1535	--	1720	600	--	8.0	6	--	--	--
25...	1045	--	1740	540	--	14.0	7	--	--	--
31...	1600	--	3870	510	8.3	13.5	8	9.0	K14	190
JUN										
21...	1530	--	2960	390	8.4	18.5	4	8.9	K17	150
JUL										
11...	1615	--	934	550	--	22.0	1	--	--	--
AUG										
02...	0815	--	952	610	8.4	17.5	5	8.6	43	180
03...	0930	--	961	560	--	18.0	5	--	--	--
30...	1230	--	934	580	9.1	15.0	10	8.1	32	190
31...	1530	--	952	580	--	19.0	20	--	--	--
SEP										
14...	1045	--	970	570	--	14.0	5	--	--	--
27...	0930	--	400	900	8.7	12.5	4	7.0	56	270
27...	1220	--	390	930	--	15.5	3	--	--	--

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

[illegible][illegible]

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT									
04...	--	--	--	--	--	--	--	--	--
25...	.31	.34	.39	1.7	.00	--	--	3.4	.4
NOV									
02...	--	--	--	--	--	--	--	--	--
22...	.59	.66	.74	3.3	.01	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
DEC									
18...	.40	.47	.66	2.9	.00	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
17...	.77	.83	.96	4.3	.02	--	--	--	--
FEB									
02...	--	--	--	--	--	--	--	--	--
21...	.43	.52	.65	2.9	.02	--	--	--	--
MAR									
27...	--	--	--	--	--	--	--	--	--
29...	.51	.67	.81	3.6	.17	--	--	--	--
APR									
11...	--	--	--	--	--	--	--	--	--
26...	.35	.42	.45	2.0	.03	.09	.09	--	--
MAY									
03...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
31...	.14	.20	.21	.93	.04	.12	.12	--	--
JUN									
21...	.50	.58	.68	3.0	.03	.09	.09	--	.7
JUL									
11...	--	--	--	--	--	--	--	--	--
AUG									
02...	.50	.53	.58	2.6	.01	--	.03	--	--
03...	--	--	--	--	--	--	--	--	--
30...	.12	.12	.14	.62	.03	--	.09	--	--
31...	--	--	--	--	--	--	--	--	--
SEP									
14...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT												
25...	1530	70	70	0	2	1	0	0	<1	80	1	0
NOV												
22...	1550	--	--	--	--	--	--	--	--	70	--	--
DEC												
18...	1350	--	--	--	--	--	--	--	--	70	--	--
JAN												
17...	1300	--	--	--	--	--	--	--	--	50	--	--
FEB												
21...	1300	--	--	--	--	--	--	--	--	60	--	--
MAR												
29...	1430	--	--	--	--	--	--	--	--	70	--	--
APR												
26...	1440	--	--	--	--	--	--	--	--	60	--	--
MAY												
31...	1600	--	--	--	--	--	--	--	--	40	--	--
JUN												
21...	1530	210	210	0	1	1	0	0	0	30	4	1
AUG												
02...	0815	--	--	--	--	--	--	--	--	50	--	--
30...	1230	--	--	--	--	--	--	--	--	70	--	--
SEP												
27...	0930	--	--	--	--	--	--	--	--	120	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOVERABLE (UG/L AS PB)
OCT 25...	2	0	0	0	4	0	5	80	70	<10	0	0
NOV 22...	--	--	--	--	--	--	--	--	--	80	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	50	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	60	--	--
FEB 21...	--	--	--	--	--	--	--	--	--	10	--	--
MAR 29...	--	--	--	--	--	--	--	--	--	70	--	--
APR 26...	--	--	--	--	--	--	--	--	--	40	--	--
MAY 31...	--	--	--	--	--	--	--	--	--	20	--	--
JUN 21...	3	10	10	0	6	4	2	210	160	50	7	3
AUG 02...	--	--	--	--	--	--	--	--	--	40	--	--
30...	--	--	--	--	--	--	--	--	--	30	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	30	--	--

[illegible]

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 25...	2	2	1	1	0	0	0	.0	10	3	7
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	--	--
FEB 21...	--	--	--	--	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--	--
MAY 31...	--	--	--	--	--	--	--	--	--	--	--
JUN 21...	0	6	0	6	0	0	0	.4	20	0	20
AUG 02...	--	--	--	--	--	--	--	--	--	--	--
SEP 30...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP 27...	1220	2	15.5	390	1	6	18	53

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	916	620	542	575	558	583	1020	573	426	436	509	572
2	686	625	558	586	552	573	1050	553	432	442	533	596
3	628	619	563	590	558	579	904	576	422	418	520	546
4	619	639	522	565	557	573	852	599	368	433	509	570
5	627	644	563	543	538	630	793	570	339	460	514	525
6	698	628	518	563	545	613	786	546	364	471	543	531
7	648	622	683	584	548	578	824	546	364	458	518	523
8	635	652	524	541	521	563	815	526	370	512	553	523
9	623	612	631	579	518	552	815	539	357	542	515	523
10	612	659	677	592	518	552	762	542	360	509	526	535
11	600	653	584	546	530	602	682	539	349	519	528	517
12	683	417	665	595	544	596	691	547	330	519	511	524
13	627	403	522	533	524	591	674	536	334	499	552	524
14	671	501	535	547	533	550	679	548	328	486	517	540
15	660	508	540	547	606	548	694	530	334	488	560	535
16	589	665	530	569	530	569	694	542	334	477	521	552
17	627	668	528	551	789	564	674	538	344	504	600	524
18	596	668	533	553	530	563	701	543	334	510	560	529
19	629	665	565	563	552	601	648	534	328	497	543	535
20	596	618	535	549	558	598	648	523	348	469	546	523
21	624	578	537	596	552	556	600	518	372	464	538	540
22	624	571	529	576	559	557	609	534	372	453	530	535
23	618	540	558	553	567	549	615	515	382	464	547	540
24	607	561	561	569	584	541	648	525	383	469	556	537
25	595	550	566	546	557	543	637	521	399	456	547	653
26	622	567	564	546	584	581	618	532	400	461	530	753
27	654	518	565	556	581	595	601	554	400	477	524	832
28	633	538	573	540	584	703	607	457	396	475	541	861
29	613	512	575	555	---	726	615	457	416	490	525	863
30	606	560	564	563	---	772	581	447	442	501	512	815
31	628	---	595	558	---	910	---	455	---	526	547	---
MEAN	639	586	565	562	560	600	718	531	371	480	535	589
WTR YR 1979	MEAN	561	MAX	1050	MIN	328						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	5.0	.0	.0	.0	.0	3.0	9.0	13.0	18.0	21.0	21.0
2	11.0	7.0	.0	.0	.0	.0	3.0	7.0	15.0	18.0	15.0	22.0
3	10.0	7.0	.0	.0	.0	.0	2.0	8.0	13.0	16.0	21.0	22.0
4	9.0	8.5	.0	.0	.0	.0	2.0	9.0	15.0	16.0	22.0	22.0
5	7.0	5.0	.0	.0	.0	.0	7.0	10.5	15.0	19.0	22.0	21.0
6	7.0	5.0	.0	.0	.0	.0	7.0	9.0	8.0	18.0	21.0	21.0
7	8.0	3.0	.0	.0	.0	.0	7.0	6.0	10.0	18.0	21.0	23.0
8	10.0	8.0	.0	.0	.0	.0	4.0	5.5	10.0	22.0	21.0	23.0
9	9.0	3.5	.0	.0	.0	.0	6.0	5.0	14.0	22.0	18.0	21.0
10	12.0	.0	.0	.0	.0	.0	4.0	9.0	16.0	22.0	21.0	21.0
11	9.0	.0	.0	.0	.0	.0	3.0	9.0	14.0	22.0	19.0	21.0
12	11.0	.0	.0	.0	.0	.0	4.0	10.0	12.0	21.0	20.0	17.0
13	7.5	.0	.0	.0	.0	.0	3.0	11.0	17.0	20.0	20.0	15.0
14	7.0	.0	.0	.0	.0	.0	7.0	11.0	17.0	21.0	18.0	16.0
15	8.5	.0	.0	.0	.0	.0	7.0	12.0	16.0	22.0	15.0	22.0
16	10.0	.0	.0	.0	.0	.0	4.0	13.0	16.0	22.0	16.0	20.0
17	10.0	.0	.0	.0	.0	.0	9.0	13.5	14.0	19.0	15.0	20.0
18	9.0	.0	.0	.0	.0	.0	5.0	9.0	13.5	22.0	17.0	19.0
19	8.0	.0	.0	.0	.0	.0	5.0	11.0	11.0	22.0	17.0	19.0
20	10.0	.0	.0	.0	.0	.0	4.0	14.0	15.0	18.0	17.0	20.0
21	9.0	.0	.0	.0	.0	.0	9.0	15.0	19.0	17.0	20.0	18.0
22	9.0	.0	.0	.0	.0	.0	6.0	10.0	19.0	19.0	20.0	21.0
23	7.0	.0	.0	.0	.0	.0	9.5	16.0	19.0	18.0	22.0	17.0
24	6.0	.0	.0	.0	.0	.0	7.0	14.0	19.0	21.5	20.0	17.0
25	7.5	.0	.0	.0	.0	.0	7.0	15.0	19.0	21.0	20.0	18.0
26	7.5	.0	.0	.0	.0	.0	9.0	16.0	20.5	20.0	20.0	17.0
27	8.0	.0	.0	.0	.0	.0	11.0	16.0	21.0	20.0	22.0	19.0
28	8.5	.0	.0	.0	.0	1.0	10.0	15.0	21.0	21.0	21.0	17.0
29	7.0	.0	.0	.0	---	2.0	11.0	15.0	21.0	21.0	22.0	21.0
30	5.0	.0	.0	.0	---	4.0	11.0	14.0	17.0	21.0	18.0	17.0
31	4.5	---	.0	.0	---	4.0	---	13.0	---	20.0	19.0	---
MEAN	8.5	1.5	.0	.0	.0	.5	6.0	11.5	15.5	20.0	19.5	19.5
WTR YR 1979	MEAN	8.5	MAX	23.0	MIN	.0						

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	446	13	16	765	11	23	1100	7	21
2	751	5	10	772	9	19	930	9	23
3	758	3	6.1	779	5	11	800	5	11
4	758	5	10	758	7	14	780	6	13
5	758	3	6.1	751	7	14	900	17	41
6	758	2	4.1	751	3	6.1	780	9	19
7	765	3	6.2	744	185	372	620	10	17
8	772	7	15	744	6	12	760	12	25
9	772	20	42	744	9	18	660	25	45
10	772	5	10	758	42	86	730	7	14
11	765	3	6.2	580	67	105	930	7	18
12	758	3	6.1	670	33	60	1000	190	513
13	758	3	6.1	780	44	93	1100	8	24
14	758	2	4.1	760	16	33	1050	7	20
15	758	3	6.1	740	9	18	1100	7	21
16	758	2	4.1	720	6	12	1150	6	19
17	765	3	6.2	740	10	20	1150	8	25
18	786	5	11	800	7	15	1150	8	25
19	765	9	19	950	7	18	1100	6	18
20	765	11	23	1050	9	26	1100	6	18
21	765	5	10	1100	14	42	1000	6	16
22	765	4	8.3	1070	9	26	960	5	13
23	765	3	6.2	1090	7	21	980	6	16
24	758	9	18	1000	19	51	1050	5	14
25	772	5	10	870	8	19	1100	6	18
26	772	7	15	1000	7	19	1100	8	24
27	765	4	8.3	1000	8	22	1080	7	20
28	758	6	12	930	6	15	1050	10	28
29	758	4	8.2	900	7	17	900	16	39
30	758	5	10	1100	12	36	800	10	22
31	765	5	10	---	---	---	700	11	21
TOTAL	23347	---	333.4	25416	---	1243.1	29610	---	1161
JANUARY				FEBRUARY			MARCH		
1	630	10	17	1100	8	24	1140	11	34
2	650	8	14	1100	9	27	1100	10	30
3	730	9	18	1090	13	38	1070	10	29
4	870	8	19	1080	11	32	1080	10	29
5	1100	7	21	1100	10	30	1100	11	33
6	1200	11	36	1100	9	27	1120	10	30
7	1200	12	39	1100	10	30	1130	86	262
8	1100	13	39	1090	24	71	1130	93	284
9	980	8	21	1090	34	100	1100	37	110
10	950	9	23	1080	12	35	1070	32	92
11	980	13	34	1080	9	26	1080	21	61
12	1050	8	23	1090	7	21	1130	30	92
13	1100	6	18	1090	9	26	1100	23	68
14	1100	6	18	1100	12	36	1100	25	74
15	1100	8	24	1100	20	59	1100	27	80
16	1060	9	26	1120	13	39	1060	30	86
17	1000	8	22	1150	31	96	1080	36	105
18	980	10	26	1150	16	50	1150	39	121
19	990	19	51	1090	34	100	1280	45	156
20	1000	8	22	1050	15	43	1400	47	178
21	990	6	16	1060	11	31	1450	43	168
22	1000	7	19	1080	9	26	1500	37	150
23	1000	5	13	1080	10	29	1600	33	143
24	1050	5	14	1090	9	26	1700	31	142
25	1100	6	18	1080	10	29	1900	32	164
26	1100	6	18	1080	11	32	1800	610	2960
27	1100	6	18	1100	9	27	1440	190	739
28	1100	7	21	1100	9	27	1200	140	454
29	1100	7	21	---	---	---	1230	170	565
30	1100	6	18	---	---	---	1220	180	593
31	1100	7	21	---	---	---	1220	170	560
TOTAL	31510	---	708	30620	---	1137	38780	---	8592

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1160	80	251	1690	27	123	4470	109	1320
2	1110	70	210	1690	33	151	4770	91	1170
3	1110	30	90	1700	26	119	4740	110	1410
4	1100	14	42	1680	28	127	4740	119	1520
5	1100	17	50	1660	43	193	4770	106	1370
6	1150	110	342	1680	29	132	4740	106	1360
7	1170	140	442	1690	22	100	4720	87	1110
8	1220	170	560	1680	27	122	4740	47	602
9	1220	170	560	1660	24	108	4740	32	410
10	1400	145	548	1680	27	122	4740	56	717
11	1620	145	634	1680	15	68	4770	47	605
12	1640	148	655	1660	14	63	4790	36	466
13	1620	142	621	1640	17	75	4740	33	422
14	1580	142	606	1640	27	120	4700	25	317
15	1560	95	400	1660	31	139	4720	27	344
16	1570	135	572	1660	20	90	4420	30	358
17	1660	150	672	1680	27	122	3820	16	165
18	1850	280	1400	1660	107	480	3800	30	308
19	1910	370	1910	1680	29	132	3850	17	177
20	2090	410	2310	1690	31	141	3450	17	158
21	2000	243	1310	1690	31	141	3010	11	89
22	1860	143	718	1690	23	105	2460	10	66
23	1780	95	457	1690	20	91	1960	9	48
24	1750	85	402	1690	30	137	1820	8	39
25	1720	55	255	1720	25	116	1800	8	39
26	1700	49	225	1950	38	211	1770	8	38
27	1690	42	192	2770	88	658	1770	8	38
28	1690	38	173	3690	54	538	1780	5	24
29	1680	30	136	3890	106	1110	1580	7	30
30	1680	30	136	3870	153	1600	1380	5	19
31	---	---	---	3920	136	1440	---	---	---
TOTAL	46390	---	16879	62030	---	8874	109560	---	14739
JULY			AUGUST			SEPTEMBER			
1	1380	6	22	943	17	43	970	35	92
2	1380	4	15	961	20	52	990	31	83
3	1380	4	15	952	19	49	990	30	80
4	1310	5	18	943	13	33	990	27	72
5	1190	6	19	952	18	46	990	28	75
6	1180	5	16	943	14	36	990	25	67
7	1140	3	9.2	952	15	39	970	19	50
8	990	4	11	970	16	42	980	19	50
9	980	3	7.9	1000	122	329	961	25	65
10	961	3	7.8	1060	33	94	961	33	86
11	943	7	18	1220	22	72	961	22	57
12	934	6	15	1030	17	47	961	17	44
13	934	5	13	1080	110	321	970	15	39
14	925	6	15	1150	222	689	1000	19	51
15	907	8	20	1390	1040	3900	1020	20	55
16	889	7	17	1100	320	950	1010	16	44
17	872	9	21	1060	130	372	1000	19	51
18	872	8	19	1030	70	195	990	20	53
19	1040	11	33	1040	60	168	990	20	53
20	1170	17	54	1090	120	353	990	17	45
21	1190	44	141	1170	450	1420	970	24	63
22	1220	28	92	1170	160	505	970	37	97
23	1230	13	43	1090	120	353	961	26	67
24	1200	49	159	970	50	131	832	19	43
25	1180	34	108	970	90	236	512	9	12
26	1170	26	82	970	58	152	405	5	5.5
27	1180	17	54	961	50	130	395	7	7.5
28	1110	18	54	970	40	105	390	9	9.5
29	961	18	47	943	50	127	385	10	10
30	943	27	69	934	150	378	494	15	20
31	943	29	74	943	100	255	---	---	---
TOTAL	33704	---	1288.9	31957	---	11622	25998	---	1546.5
YEAR	488922		68123.9						

09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¼SE¼NW¼ sec.36, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, at bridge on county road, 1.7 mi (2.7 km) downstream from Bitter Creek, 2.7 mi (4.3 km) south-east of town of Green River, and 3.3 mi (5.3 km) upstream from Logan Draw.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
25...	1640	--	765	640	8.9	8.0	2	12.6	2.7	K18
NOV										
22...	1645	--	1060	560	8.4	.0	8	11.1	2.6	K800
DEC										
18...	1440	1150	--	600	8.2	.0	1	11.8	1.8	K16
JAN										
17...	1410	1000	--	570	8.0	.0	5	11.0	2.2	K560
FEB										
21...	1400	1060	--	850	8.1	.0	15	12.0	4.5	K20
MAR										
29...	1515	--	1260	800	8.4	5.0	150	10.6	3.1	K1000
APR										
26...	1600	--	1690	710	8.3	9.0	20	10.8	--	K110
MAY										
31...	1700	--	3870	590	8.3	14.0	20	8.8	1.8	K540
JUN										
21...	1640	--	2960	390	8.4	19.0	6	8.9	2.0	K20
AUG										
02...	0910	--	952	560	8.4	18.5	7	8.6	1.2	K24
30...	1355	--	934	590	9.0	16.5	15	8.4	--	26
SEP										
27...	0820	--	390	950	8.6	12.5	2	6.6	--	46

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

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT										
25...	230	86	54	22	60	1.7	--	1.9	150	10
NOV										
22...	200	67	48	19	46	1.4	--	1.9	160	0
DEC										
18...	220	64	55	20	41	1.2	--	2.3	190	0
JAN										
17...	220	66	56	20	38	1.1	--	2.1	190	0
FEB										
21...	300	100	76	27	69	1.7	--	3.5	240	0
MAR										
29...	260	88	63	25	74	2.0	--	2.4	210	0
APR										
26...	220	65	52	22	58	1.7	--	2.5	190	0
MAY										
31...	190	51	50	16	27	.9	--	2.1	170	0
JUN										
21...	150	47	40	13	24	.8	26	1.7	130	0
AUG										
02...	180	59	45	17	46	1.5	48	2.3	150	0
30...	190	74	46	18	50	1.6	52	2.2	140	0
SEP										
27...	270	140	62	29	100	2.6	100	2.9	--	--

GREEN RIVER BASIN

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALKA- LINITY (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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 25...	140	180	34	.2	3.5	440	.60	909	.08	.06
NOV 22...	130	160	7.6	.2	5.0	367	.50	1050	.20	.12
DEC 18...	160	160	7.0	.2	6.9	386	.53	1200	.15	.01
JAN 17...	160	140	6.9	.2	7.7	365	.50	986	.12	.19
FEB 21...	200	220	31	.3	15	560	.76	1600	.33	.23
MAR 29...	170	220	20	.3	7.6	516	.70	1760	.13	.13
APR 26...	160	170	11	.2	7.2	417	.57	1900	.05	.08
MAY 31...	140	96	6.7	.3	6.0	288	.39	3010	.02	.09
JUN 21...	110	87	5.0	.2	3.8	239	.33	1910	.09	.15
AUG 02...	120	160	7.9	.2	4.0	356	.48	915	.05	.01
30...	110	180	8.6	.2	1.9	376	.51	948	.02	.00
SEP 27...	130	330	19	.3	1.0	623	.85	656	--	--

[illegible]

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)
OCT 25...	1640	80	70	10	2	1	0	0	<1	80	2	0
NOV 22...	1645	--	--	--	--	--	--	--	--	70	--	--
DEC 18...	1440	--	--	--	--	--	--	--	--	60	--	--
JAN 17...	1410	--	--	--	--	--	--	--	--	80	--	--
FEB 21...	1400	--	--	--	--	--	--	--	--	110	--	--
MAR 29...	1515	--	--	--	--	--	--	--	--	70	--	--
APR 26...	1600	--	--	--	--	--	--	--	--	60	--	--
MAY 31...	1700	--	--	--	--	--	--	--	--	40	--	--
JUN 21...	1640	310	310	0	1	1	0	0	0	30	4	3
AUG 02...	0910	--	--	--	--	--	--	--	--	50	--	--
30...	1355	--	--	--	--	--	--	--	--	70	--	--
SEP 27...	0820	--	--	--	--	--	--	--	--	130	--	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOVERABLE (UG/L AS PB)
OCT 25...	2	0	0	0	4	0	7	100	90	<10	1	0
NOV 22...	--	--	--	--	--	--	--	--	--	60	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	50	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	50	--	--
FEB 21...	--	--	--	--	--	--	--	--	--	40	--	--
MAR 29...	--	--	--	--	--	--	--	--	--	90	--	--
APR 26...	--	--	--	--	--	--	--	--	--	40	--	--
MAY 31...	--	--	--	--	--	--	--	--	--	10	--	--
JUN 21...	1	10	10	0	4	3	1	220	200	20	9	6
AUG 02...	--	--	--	--	--	--	--	--	--	40	--	--
30...	--	--	--	--	--	--	--	--	--	40	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	40	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 23...	1345	765	8.0	.0	0	.00	.00	.0	.0	0	.00
JUN 12...	0850	4790	15.0	.0	1	--	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
JUN 12...	.2	.00	.0	.00	1.2	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 23...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00
JUN 12...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0
JUN 12...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
OCT 23...	.00	0	.00	0
JUN 12...	.00	0	.00	0

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MAY 31, 1979
1700 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
& ...COCCONEIS	
...CYMBELLACEAE	
...CYMBELLA	
...DIATOMACEAE	
...DIATOMA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
& ...NAVICULA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

SEP. 27, 1979
0820 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..CHLOROCOCCALES	
...SCENEDESMACEAE	
...SCENEDESMUS	
...OEDOGONIALES	
...OEDOGONIACEAE	
...OEDOGONIUM	
...ULOTRICHIALES	
...CHAETOPHORACEAE	
...STIGEOCLONIUM	
..ZYGNEMALES	
...ZYGNEMACEAE	
...MOUGEOTIA	
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
...COCCONEIS	
...RHOICOSPHENIA	
...CYMBELLACEAE	
& ...EPITHEMIA	
...DIATOMACEAE	
...DIATOMA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHIA	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..HORMOGONIALES	FILAMENTOUS BL-GREEN
...OSCILLATORIA	
...LYNGBYA	
...OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

129

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State line, and 17 mi (27 km) south of Robertson.

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

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft (2,683.70 m), National Geodetic Vertical Datum of 1929, (levels by Water and Power Resources Service). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, water-stage recorder at site 85 ft (26 m) upstream at different datum.

AVERAGE DISCHARGE.--14 years (water years 1938, 1967-79), 156 ft³/s (4.418 m³/s), 113,000 acre-ft/yr (139 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s (61.2 m³/s) June 6, 1968, July 11, 1975; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
May 28	2200	*1,700	48.1	3.44	1.049

Minimum daily discharge, 13 ft³/s (0.37 m³/s) Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	34	29	20	15	15	15	80	376	269	72	49
2	34	38	27	20	15	15	15	71	396	250	71	46
3	32	36	26	20	15	13	16	69	451	238	67	45
4	31	36	27	20	15	15	19	88	538	231	62	43
5	31	36	27	20	15	14	23	130	656	203	62	42
6	32	36	26	20	15	14	25	144	707	196	62	41
7	31	39	24	20	15	14	28	113	619	170	64	41
8	31	36	23	20	15	16	30	97	472	176	72	41
9	31	31	23	20	15	17	32	93	381	164	71	38
10	31	30	24	20	15	16	33	82	376	152	65	39
11	31	29	25	20	15	17	33	71	461	150	60	38
12	31	27	25	20	15	18	32	74	578	147	60	38
13	29	26	24	20	15	19	31	82	656	141	71	38
14	29	24	24	19	14	20	31	115	687	136	71	38
15	29	22	23	19	14	20	33	158	589	133	69	38
16	29	22	22	19	15	19	38	227	477	128	80	37
17	31	23	23	19	15	19	41	277	396	125	76	37
18	31	25	24	19	16	19	43	335	344	120	97	37
19	31	28	26	19	19	19	40	376	293	120	101	37
20	31	30	27	19	19	18	40	410	261	118	101	38
21	32	33	27	19	17	17	42	451	253	125	88	38
22	32	34	26	19	15	16	51	521	281	164	78	37
23	29	33	26	19	15	15	58	578	293	133	80	37
24	30	31	25	19	15	14	60	613	289	125	72	36
25	31	29	24	18	16	15	60	643	310	106	65	36
26	31	26	23	18	15	16	67	694	314	101	64	37
27	31	25	22	18	15	16	71	844	305	104	62	37
28	33	26	22	17	15	16	78	1370	293	93	57	36
29	33	27	21	16	---	15	76	1200	285	86	54	36
30	31	28	21	16	---	16	76	720	281	82	52	34
31	33	---	21	15	---	16	---	515	---	80	51	---
TOTAL	969	900	757	587	430	509	1237	11241	12618	4566	2177	1165
MEAN	31.3	30.0	24.4	18.9	15.4	16.4	41.2	363	421	14.7	70.2	38.8
MAX	37	39	29	20	19	20	78	1370	707	269	101	49
MIN	29	22	21	15	14	13	15	69	253	80	51	34
AC-FT	1920	1790	1500	1160	853	1010	2450	22300	25030	9060	4320	2310
CAL YR 1978	TOTAL	58482	MEAN 160	MAX 1620	MIN 14	AC-FT 116000						
WTR YR 1979	TOTAL	37156	MEAN 102	MAX 1370	MIN 13	AC-FT 73700						

GREEN RIVER BASIN

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi² (394 km²).

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 (2,594.540 m), National Geodetic Vertical Datum of 1929, Water and Power Resources Service datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1, 2, Nov. 10-23, Dec. 15 to Jan. 9, Jan. 28 to Feb. 1, Mar. 19 to Apr. 9, Sept. 9-18, which are poor. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--40 years, 159 ft³/s (4.503 m³/s), 115,200 acre-ft/yr (142 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) June 7, 1957, from rating curve extended above 1,500 ft³/s (42.5 m³/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft³/s (0.10 m³/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 870 ft³/s (24.6 m³/s) May 30, gage height, 4.15 ft (1.265 m); minimum daily, 13 ft³/s (0.37 m³/s) Dec. 28 to May 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	28	14	13	13	13	13	13	813	420	140	86
2	75	28	14	13	13	13	13	13	759	420	140	86
3	52	28	14	13	13	13	13	13	750	444	140	86
4	39	28	14	13	13	13	13	13	669	456	138	81
5	39	28	14	13	13	13	13	13	644	456	138	75
6	39	28	14	13	13	13	13	13	687	456	138	80
7	39	28	14	13	13	13	13	13	687	456	117	88
8	39	28	14	13	13	13	13	13	652	450	109	86
9	39	28	14	13	13	13	13	13	620	444	109	86
10	36	28	14	13	13	13	13	13	612	336	109	86
11	34	28	14	13	13	13	13	13	438	279	109	85
12	34	28	14	13	13	13	13	13	336	279	109	85
13	34	28	14	13	13	13	13	13	336	275	109	85
14	34	28	14	13	13	13	13	13	336	275	84	84
15	34	28	14	13	13	13	13	65	340	271	71	84
16	34	28	14	13	13	13	13	188	340	271	72	83
17	23	26	14	13	13	13	13	248	345	271	72	83
18	27	24	14	13	13	13	13	313	408	267	72	70
19	27	24	14	13	13	13	13	385	426	275	72	63
20	27	24	14	13	13	13	13	390	498	271	72	63
21	27	24	14	13	13	13	13	426	492	271	72	63
22	27	24	14	13	13	13	13	531	486	267	72	63
23	27	24	14	13	13	13	13	588	486	267	71	62
24	27	24	14	13	13	13	13	652	486	230	71	62
25	27	24	14	13	13	13	13	840	486	204	71	62
26	27	24	14	13	13	13	13	840	456	204	71	62
27	27	24	14	13	13	13	13	840	420	204	71	62
28	28	24	13	13	13	13	13	850	420	200	80	62
29	28	24	13	13	---	13	13	860	420	200	88	62
30	28	19	13	13	---	13	13	860	420	197	88	62
31	28	---	13	13	---	13	---	850	---	160	86	---
TOTAL	1083	781	430	403	364	403	390	9908	15268	9476	2961	2247
MEAN	34.9	26.0	13.9	13.0	13.0	13.0	13.0	320	509	306	95.5	74.9
MAX	77	28	14	13	13	13	13	860	813	456	140	88
MIN	23	19	13	13	13	13	13	13	336	160	71	62
AC-FT	2150	1550	853	799	722	799	774	19650	30280	18800	5870	4460
CAL YR 1978	TOTAL	62088.7	MEAN	170	MAX	1250	MIN	6.7	AC-FT	123200		
WTR YR 1979	TOTAL	43714.0	MEAN	120	MAX	860	MIN	13	AC-FT	86710		

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, 6.1 mi (9.8 km) downstream from State Line Reservoir, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

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. Altitude of gage is 8,470 ft (2,582 m), from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

REMARKS.--Records fair. Flow completely regulated by State Line Reservoir, 6.1 mi (9.8 km) upstream, total capacity, 14,000 acre-ft (17.3 hm³), dead storage is about 2,000 acre-ft (2.5 hm³), since May 1979. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 3 . . . 7.2

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
July 6	0700	*342	9.68	5.36	1.634

Minimum daily discharge during period of operation, 3.1 ft³/s (0.088 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.1	19	198	58	26	18
2							3.2	17	130	58	25	18
3							3.4	16	112	58	22	18
4							3.9	22	91	49	22	18
5							4.8	30	93	212	23	18
6							5.4	34	125	338	22	18
7							5.8	26	125	310	22	18
8							6.1	22	144	288	18	18
9							6.4	20	120	78	18	18
10							6.7	17	95	46	18	18
11							6.2	15	85	37	18	18
12							6.0	14	82	37	18	18
13							6.0	20	84	36	19	18
14							6.0	30	78	37	20	16
15							7.0	45	78	37	20	13
16							8.0	52	85	37	19	13
17							12	58	85	37	19	13
18							13	66	85	37	19	13
19							12	80	85	36	20	13
20							10	89	80	34	20	13
21							13	100	70	34	20	13
22							13	130	64	34	19	13
23							17	206	54	34	19	13
24							18	206	55	34	18	13
25							18	189	55	34	18	13
26							16	192	55	34	18	18
27							21	202	58	34	18	36
28							20	226	62	34	18	37
29							19	258	62	34	18	37
30							20	279	59	34	18	36
31							---	274	---	33	18	---
TOTAL							310.0	2954	2654	2233	610	557
MEAN							10.3	95.3	88.5	72.0	19.7	18.6
MAX							21	279	198	338	26	37
MIN							3.1	14	54	33	18	13
AC-FT							615	5860	5260	4430	1210	1100

09220500 WEST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NE¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi² (96.3 km²).

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 West Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 929: 1940. WSP 1343, 1733: 1943.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m), National Geodetic Vertical Datum of 1929. July 13, 1939, to Aug. 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor. No diversion above station. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation, are given below:

Oct. 3 . . . 1.4

AVERAGE DISCHARGE.--32 years (water years 1940-71), 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) June 10, 1965, gage height, 5.20 ft (1.585 m), in gage well, 5.60 ft (1.707 m), from floodmarks, present datum; minimum observed, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 280 ft³/s (7.93 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
May 24	2030	*358	10.1	2.91	0.887
May 28	0200	346	9.80	2.88	.878

Minimum daily discharge, 0.34 ft³/s (0.010 m³/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.2	22	48	9.4	1.5	.85
2							3.2	17	38	8.4	1.2	.70
3							3.4	15	38	8.4	1.0	.60
4							3.8	22	42	9.4	.90	.60
5							4.4	34	46	7.9	.85	.56
6							5.0	33	50	7.0	.90	.48
7							5.8	21	42	6.7	1.1	.52
8							6.1	16	35	5.9	2.1	.56
9							6.3	14	31	5.5	2.5	.48
10							6.4	12	28	5.2	3.9	.56
11							5.8	11	29	4.6	2.2	.52
12							5.3	10	34	4.6	2.0	.48
13							5.0	17	34	4.6	3.0	.52
14							5.5	31	32	4.6	3.2	.60
15							6.1	52	30	3.7	3.9	.60
16							7.0	77	24	3.6	5.0	.60
17							8.7	94	21	3.6	5.2	.48
18							10	114	20	3.6	9.4	.52
19							9.7	110	18	3.4	8.1	.34
20							10	112	16	3.4	7.3	.45
21							9.8	118	15	4.1	5.5	.48
22							12	120	14	7.6	4.1	.48
23							16	99	14	6.2	3.2	.42
24							16	114	14	5.2	2.6	.48
25							16	142	12	4.1	2.0	.52
26							16	135	12	3.1	1.8	.60
27							18	122	12	3.2	1.7	.65
28							18	198	11	3.2	1.7	.65
29							18	106	10	2.4	1.2	.65
30							20	61	9.4	1.9	1.0	.60
31							---	57	---	1.6	.95	---
TOTAL							280.5	2106	779.4	156.1	91.00	16.55
MEAN							9.35	67.9	26.0	5.04	2.94	.55
MAX							20	198	50	9.4	9.4	.85
MIN							3.2	10	9.4	1.6	.85	.34
AC-FT							556	4180	1550	310	180	33

09221650 SMITHS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°22'31", long 110°12'14", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.16 N., R.114 W., Uinta County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30S, 1.5 mi (2.4 km) downstream from Cottonwood Creek, 1.6 mi (2.6 km) upstream from bridge on Interstate Highway 80, 2.4 mi (3.9 km) upstream from mouth, and 5.7 mi (9.2 km) northeast of Lyman.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT										
27...	1400	2.7	1850	8.5	6.0	20	11.2	K310	240	0
NOV										
24...	1330	7.6	1070	8.2	.0	20	11.8	44	250	0
DEC										
20...	1200	E5.0	1030	7.6	.0	20	10.4	K8	280	3
JAN										
18...	1220	E10	1220	7.7	.0	8	11.7	25	350	0
FEB										
23...	1300	E20	880	7.7	.0	25	10.0	K4	230	5
MAR										
31...	1230	32	860	8.3	2.5	300	11.2	K20	200	0
APR										
28...	1250	25	850	8.3	13.5	--	8.8	K4	200	2
JUN										
02...	1350	91	780	8.3	18.0	20	8.2	K600	200	0
23...	1230	33	1500	8.4	22.0	15	8.5	K410	220	0
AUG										
02...	1400	3.4	1750	8.7	26.0	45	8.7	300	180	0
31...	1050	.90	2010	8.6	12.0	10	9.0	84	150	0
SEP										
28...	1100	E.10	3400	9.2	9.0	10	8.5	K360	180	0

E-Estimate.

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	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
27...	61	22	350	9.8	--	4.4	380	5	320	430
NOV										
24...	70	19	150	4.1	--	3.7	340	0	280	180
DEC										
20...	80	20	140	3.6	--	3.8	340	0	280	180
JAN										
18...	99	25	130	3.0	--	7.4	470	0	390	150
FEB										
23...	66	15	100	2.9	--	4.1	270	0	220	130
MAR										
31...	55	15	100	3.1	--	4.0	260	0	210	110
APR										
28...	55	15	96	3.0	--	3.1	240	0	200	110
JUN										
02...	54	16	86	2.6	90	4.1	250	0	210	110
23...	50	22	240	7.1	--	4.3	330	0	270	310
AUG										
02...	36	22	340	11	340	4.2	350	1	290	490
31...	33	16	380	14	380	4.6	390	0	320	520
SEP										
28...	28	26	650	21	650	3.2	--	--	320	850

GREEN RIVER BASIN

09221650 SMITHS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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)	PHOS- PHATE, TOTAL (MG/L AS PO4)
OCT									
27...	160	1.0	13	1230	1.67	8.97	.08	.14	--
NOV									
24...	86	.4	16	693	.94	14.2	.10	.04	--
DEC									
20...	78	.3	17	688	.94	9.29	.21	.10	--
JAN									
18...	87	.4	27	759	1.03	--	.24	.03	--
FEB									
23...	66	.3	17	533	.72	--	.33	.04	--
MAR									
31...	60	.3	15	488	.66	42.2	.14	.02	--
APR									
28...	71	.3	13	482	.66	32.5	.03	.09	.28
JUN									
02...	55	.4	15	464	.63	114	.04	.10	.31
23...	130	.7	10	930	1.26	82.9	.00	.03	.09
AUG									
02...	95	1.2	11	1170	1.59	10.7	.02	.08	--
31...	140	1.1	16	1300	1.77	3.16	.01	.05	--
SEP									
28...	240	1.6	7.2	2000	2.72	.54	.03	.04	--

DATE	PHOS- PHORUS TOTAL (MG/L AS PO4)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT									
27...	--	--	--	--	--	--	--	85	.62
NOV									
24...	--	--	--	--	--	--	--	74	1.5
DEC									
20...	--	--	--	--	--	--	--	128	1.7
JAN									
18...	--	--	--	--	--	--	--	143	--
FEB									
23...	--	--	--	--	--	--	--	--	--
MAR									
31...	--	--	--	--	--	--	--	--	--
APR									
28...	.28	--	--	--	--	--	--	--	--
JUN									
02...	.31	.00	0	.00	0	.00	.0	--	--
23...	.09	--	--	--	--	--	--	--	--
AUG									
02...	.25	--	--	--	--	--	--	--	--
31...	.15	.00	--	.00	--	.00	--	--	--
SEP									
28...	.12	--	--	--	--	--	--	--	--

09222000 BLACKS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¼NW¼SW¼ sec.15, T.17 N., R.113 W., Uinta County, Hydrologic Unit 14040107, on left bank 200 ft (61 m) downstream from bridge on old U.S. Highway 30S, 8.5 mi (13.7 km) downstream from Smiths Fork, and 11 mi (18 km) northeast of Lyman.

DRAINAGE AREA.--821 mi² (2,126 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1947, 1948(M), 1951(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map. Oct. 21, 1937, to Dec. 31, 1957, at site 300 ft (91 m) downstream, at datum 1.51 ft (0.460 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, several smaller reservoirs, and diversions for irrigation of about 62,200 acres (252 km²) above station.

AVERAGE DISCHARGE.--37 years, 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft³/s (225 m³/s) June 11, 1965, gage height, 12.68 ft (3.865 m); no flow Aug. 8, 15-22, 1940, Dec. 26-28, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 462 ft³/s (13.1 m³/s) July 23, gage height, 5.84 ft (1.780 m); maximum gage height, 8.17 ft (2.490 m) Mar. 8 (backwater from ice); minimum daily discharge, 3.2 ft³/s (0.091 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	28	11	14	68	95	31	202	29	11	5.9
2	23	19	27	12	15	66	65	45	184	29	10	5.2
3	21	20	26	14	17	63	70	103	145	27	9.1	4.9
4	21	20	30	16	19	63	63	66	103	32	7.6	4.3
5	20	19	34	17	21	70	60	54	75	35	7.9	3.9
6	20	18	32	19	23	78	65	46	69	38	7.5	4.2
7	19	18	30	17	25	90	90	52	65	40	7.9	4.1
8	19	19	28	16	28	110	100	54	71	44	8.9	4.2
9	18	19	26	15	33	110	90	48	190	37	9.5	4.2
10	18	15	26	16	38	105	92	46	217	37	8.5	3.7
11	17	14	27	17	45	95	85	40	156	35	8.5	3.2
12	16	13	27	18	49	100	70	32	113	33	7.3	3.5
13	15	12	26	20	55	115	71	26	65	29	14	4.0
14	15	13	25	20	65	130	87	24	46	23	62	3.4
15	15	15	24	19	70	145	101	24	37	22	61	3.6
16	16	18	23	19	70	155	95	21	34	20	26	3.7
17	17	22	23	18	67	155	100	22	39	19	15	4.0
18	29	25	22	18	63	150	104	28	41	19	18	3.9
19	19	28	22	17	60	145	99	40	44	19	81	3.7
20	16	27	23	17	57	135	84	67	52	18	45	4.0
21	17	25	24	18	54	130	68	73	56	17	21	4.1
22	16	24	23	19	54	125	58	61	57	24	16	4.2
23	15	26	24	18	57	125	53	39	59	69	13	4.1
24	16	26	25	17	55	130	48	49	62	41	12	3.9
25	16	24	24	17	51	140	51	42	51	32	9.8	3.9
26	16	23	21	17	55	150	47	91	47	27	9.3	3.9
27	17	22	19	16	58	160	41	145	42	22	9.5	3.7
28	17	21	16	16	63	170	37	146	40	18	8.9	3.7
29	18	22	15	16	---	163	38	195	40	15	8.4	3.5
30	17	25	13	15	---	139	34	212	37	14	7.9	3.5
31	17	---	12	15	---	127	---	206	---	13	7.8	---
TOTAL	557	610	745	520	1281	3707	2161	2128	2439	877	549.3	120.1
MEAN	18.0	20.3	24.0	16.8	45.8	120	72.0	68.6	81.3	28.3	17.7	4.00
MAX	29	28	34	20	70	170	104	212	217	69	81	5.9
MIN	15	12	12	11	14	63	34	21	34	13	7.3	3.2
AC-FT	1100	1210	1480	1030	2540	7350	4290	4220	4840	1740	1090	238
CAL YR 1978 TOTAL	44309.9			121		1560		8.5	AC-FT	87890		
WTR YR 1979 TOTAL	15694.4			43.0		217		3.2	AC-FT	31130		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1962 to current year.

WATER TEMPERATURES: May 1962 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 5,260 micromhos Sept. 9, 1979; minimum daily, 352 micromhos May 22, 1973.

WATER TEMPERATURES: Maximum, 28.0°C July 20, 1970; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 5,260 micromhos Sept. 9; minimum daily, 931 micromhos May 30.

WATER TEMPERATURES: Maximum, 27.0°C June 29; minimum, 0.0°C on many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT										
02...	1440	--	23	3500	--	14.0	8	--	--	--
27...	1300	--	17	3500	8.4	7.0	5	10.6	K11	1100
NOV										
01...	1230	--	19	3400	--	5.0	9	--	--	--
24...	1240	26	--	2250	8.1	.0	10	11.4	21	900
DEC										
05...	1020	34	--	1400	--	.0	20	--	--	--
20...	1300	23	--	2500	7.5	.0	5	8.7	K110	910
JAN										
11...	1335	17	--	--	--	.0	6	--	--	--
18...	1130	18	--	2050	7.6	.0	4	9.1	K18	740
FEB										
06...	1330	23	--	1500	--	.0	9	--	--	--
23...	1200	57	--	1600	7.7	.0	15	9.6	27	530
MAR										
06...	1450	78	--	1200	--	.0	550	--	--	--
31...	1130	--	127	1650	8.2	2.0	200	11.0	K20	470
APR										
13...	1245	--	71	1600	--	8.0	230	--	--	--
28...	1130	--	37	1850	8.2	11.0	15	9.2	K2	550
30...	1530	--	35	2200	--	16.0	120	--	--	--
MAY										
14...	1420	--	23	1600	--	19.0	7	--	--	--
JUN										
02...	1130	--	182	1400	8.2	15.0	30	7.6	K1000	480
06...	1425	--	69	1900	--	17.0	15	--	--	--
23...	1140	--	58	2220	8.2	18.0	6	8.2	K52	650
JUL										
06...	1200	--	38	2200	--	19.5	7	--	--	--
AUG										
02...	1230	--	10	3600	--	22.0	5	--	--	--
02...	1300	--	10	3400	8.3	23.0	4	7.7	K14	720
15...	1515	--	54	2010	--	19.0	8700	--	--	--
27...	1155	--	9.5	3500	--	20.5	7	--	--	--
31...	0940	--	8.5	3800	8.3	12.5	5	8.5	48	1100
SEP										
06...	1525	--	4.4	4000	--	26.0	4	--	--	--
28...	1015	--	3.5	5300	8.3	9.0	2	9.2	63	1300

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

GREEN RIVER BASIN

137

09222000 BLACKS FOR NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
27...	830	250	110	490	6.5	--	5.4	300	1	250
NOV										
01...	--	--	--	--	--	--	--	--	--	--
24...	640	230	79	240	3.5	--	4.4	320	0	260
DEC										
05...	--	--	--	--	--	--	--	--	--	--
20...	630	240	76	290	4.2	--	4.3	350	0	290
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18...	470	190	65	230	3.7	--	6.0	--	--	270
FEB										
06...	--	--	--	--	--	--	--	--	--	--
23...	310	140	44	170	3.2	--	4.3	--	--	220
MAR										
06...	--	--	--	--	--	--	--	--	--	--
31...	250	120	42	170	3.4	--	4.4	--	--	220
APR										
13...	--	--	--	--	--	--	--	--	--	--
28...	340	140	49	200	3.7	--	3.9	--	--	210
30...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	270	130	37	130	2.6	130	4.5	--	--	210
06...	--	--	--	--	--	--	--	--	--	--
23...	410	170	55	270	4.6	270	4.3	--	--	240
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
02...	530	150	85	430	7.0	430	4.7	--	--	190
15...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
31...	930	260	110	500	6.6	500	4.3	--	--	170
SEP										
06...	--	--	--	--	--	--	--	--	--	--
28...	1200	290	140	690	8.3	690	.5	--	--	130

GREEN RIVER BASIN

09222000 BLACKS FOR NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
27...	1700	130	1.2	11	2850	3.88	131	.05	640	120
NOV										
01...	--	--	--	--	--	--	--	--	--	--
24...	990	81	.7	14	1800	2.45	126	.11	380	60
DEC										
05...	--	--	--	--	--	--	--	--	--	--
20...	1100	77	.7	14	1980	2.69	123	.32	390	70
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18...	830	64	.6	16	1570	2.14	76.3	.24	310	90
FEB										
06...	--	--	--	--	--	--	--	--	--	--
23...	550	60	.5	14	1120	1.52	172	.32	230	50
MAR										
06...	--	--	--	--	--	--	--	--	--	--
31...	520	58	.5	13	1060	1.44	363	.12	200	80
APR										
13...	--	--	--	--	--	--	--	--	--	--
28...	640	80	.5	11	1250	1.70	125	.04	280	50
30...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	450	48	.5	14	941	1.28	462	.01	250	40
06...	--	--	--	--	--	--	--	--	--	--
23...	840	85	.8	9.6	1580	2.15	247	.00	450	140
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
02...	1400	99	1.2	6.3	2290	3.11	68.0	.01	660	40
15...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
31...	1900	94	1.0	8.0	2980	4.05	68.4	.02	720	60
SEP										
06...	--	--	--	--	--	--	--	--	--	--
28...	2300	140	1.1	4.2	3650	4.96	34.5	.04	900	130

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN							
02...	1130	.00	0	.00	0	.00	.0
AUG							
31...	0940	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
JUN				
2...	.00	0	.00	0
AUG				
31...	.00	0	.00	0

139

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	NUMBER OF SAM- PLING POINTS
OCT											
02...	1440	14.0	--	23	44	2.7	--	--	--	--	--
NOV											
01...	1230	5.0	--	19	106	5.4	--	--	--	--	--
DEC											
05...	1020	.0	34	--	103	9.5	--	--	--	--	--
JAN											
11...	1335	.0	17	--	54	2.5	--	--	--	--	--
FEB											
06...	1330	.0	23	--	38	2.4	--	--	--	--	--
MAR											
06...	1450	.0	78	--	1290	272	99	--	--	--	--
APR											
13...	1245	8.0	--	71	622	119	95	--	--	--	--
30...	1530	16.0	--	35	74	7.0	--	--	--	--	--
MAY											
14...	1420	19.0	--	23	83	5.2	--	--	--	--	--
JUN											
06...	1425	17.0	--	69	132	25	--	--	--	--	--
JUL											
06...	1200	19.5	--	38	40	4.1	--	--	--	--	--
AUG											
02...	1230	22.0	--	10	41	1.1	--	--	--	--	23
15...	1515	19.0	--	54	13800	2010	--	78	98	100	--
27...	1155	20.5	--	9.5	62	1.6	--	--	--	--	--
SEP											
06...	1525	26.0	--	4.4	34	.40	--	--	--	--	--

[illegible]

GREEN RIVER BASIN

09222000 BLACKS FOR NEAR LYMAN, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3200	3160	2210	2030	1680	1380	1480	1960	1210	2260	3180	3630
2	3310	3210	2160	2060	1760	1480	1610	1940	1480	2390	2830	3680
3	3260	3310	2210	2110	1720	1560	1740	2130	1450	2400	3220	4090
4	3310	3210	2160	2160	1740	1580	1720	2140	1500	2410	3320	4420
5	3310	3260	2380	2140	1710	1450	1850	2130	1650	2570	3200	4680
6	3400	3300	2800	2130	1620	1370	1690	2400	1710	2390	3340	4970
7	3460	3220	2690	2080	1660	996	1700	2140	1820	2350	3370	5040
8	3510	3180	2580	2020	1650	1280	1500	1660	1790	2290	3760	5200
9	3420	3170	2730	2040	1640	1470	1310	1740	1850	2320	3620	5260
10	3480	3190	2490	1980	1600	1420	1340	1770	1530	2260	3700	4630
11	3440	3390	2410	1990	1600	1360	1380	1820	1650	2270	3340	4650
12	3570	3340	2220	1890	1540	1420	1520	1860	1680	2360	3370	4600
13	3540	3420	2220	1900	1130	1350	1510	1820	1840	2240	2370	4460
14	3550	3480	2310	2460	1010	1280	1310	2010	2300	2220	3370	4270
15	3600	3330	2320	2460	1160	1250	1410	2300	2260	2530	1660	4270
16	3530	3310	2290	2580	1610	1260	1270	2440	2520	2700	1800	4330
17	3550	3520	2310	2040	1680	1250	1300	2740	2420	2760	1130	4400
18	2850	3370	2320	1750	1700	1270	1230	1880	2280	2930	1150	4400
19	4100	3410	2450	1730	1590	1290	1220	1720	2350	2950	2680	4650
20	3730	3160	2460	1750	1600	1370	1190	1080	2240	2760	1550	4620
21	3680	2960	2460	1760	1540	1520	1310	986	2170	2930	2320	4370
22	3780	2700	2360	1630	1540	1620	1450	1000	2050	2800	2580	4430
23	3690	2500	2350	1720	1520	1490	1550	1390	2090	2980	2880	4480
24	3670	2350	2260	1720	1530	1620	1700	1340	2060	2760	3000	4460
25	3640	2380	2200	1800	1550	1450	1620	1370	2090	2820	2960	4530
26	3670	2420	2200	1720	1520	1450	1600	1370	2230	2540	3370	4390
27	3630	2310	2290	1690	1430	1160	1620	1100	2170	2650	3330	4430
28	3510	2110	2140	1620	1400	1360	1740	1140	2280	2680	3230	4430
29	3330	2030	2120	1590	---	1350	2020	976	2370	2760	3340	4560
30	3350	2290	2140	1650	---	1340	2140	931	2260	3140	3250	4620
31	3300	---	2150	1650	---	1450	---	1130	---	3220	3340	---
MEAN	3500	3000	2340	1930	1550	1380	1530	1690	1980	2600	2890	4500
WTR YR 1979	MEAN	2410	MAX	5260	MIN	931						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	.0	.0	.0	.0	.0	3.0	11.0	14.0	13.0	12.0	9.0
2	4.0	1.0	.0	.0	.0	.0	.0	7.0	15.0	8.0	12.0	13.0
3	3.0	1.0	.0	.0	.0	.0	1.0	10.0	14.0	10.0	13.0	10.0
4	4.0	2.0	.0	.0	.0	.0	2.0	13.0	12.0	8.0	12.0	10.0
5	3.0	1.0	.0	.0	.0	.0	8.0	8.0	16.0	12.0	15.0	9.0
6	4.0	4.0	.0	.0	.0	.0	4.0	7.0	13.0	13.0	16.0	13.0
7	5.0	6.0	.0	.0	.0	1.0	5.0	3.0	8.0	11.0	16.0	11.0
8	6.0	5.0	.0	.0	.0	1.0	4.0	3.0	7.0	18.0	14.0	20.0
9	5.0	1.0	.0	.0	.0	1.0	4.0	4.0	8.0	15.0	15.0	13.0
10	5.0	.0	.0	.0	.0	1.0	2.0	3.0	11.0	16.0	12.0	10.0
11	7.0	.0	.0	.0	.0	1.0	.0	7.0	12.0	13.0	14.0	10.0
12	5.0	.0	.0	.0	.0	2.0	.0	8.0	15.0	13.0	13.0	6.0
13	6.0	.0	.0	.0	.0	2.0	3.0	8.0	17.0	12.0	13.0	8.0
14	6.0	.0	.0	.0	.0	1.0	7.0	10.0	12.0	11.0	12.0	6.0
15	5.0	.0	.0	.0	.0	2.0	6.0	8.0	10.0	11.0	11.0	5.0
16	12.0	.0	.0	.0	.0	2.0	8.0	13.0	11.0	13.0	12.0	7.0
17	8.0	.0	.0	.0	.0	1.0	10.0	8.0	11.0	13.0	10.0	8.0
18	11.0	.0	.0	.0	.0	.0	8.0	9.0	16.0	13.0	10.0	9.0
19	11.0	.0	.0	.0	.0	.0	5.0	7.0	7.0	14.0	11.0	16.0
20	7.0	.0	.0	.0	.0	.0	2.0	9.0	8.0	17.0	10.0	12.0
21	6.0	.0	.0	.0	.0	.0	4.0	10.0	10.0	18.0	10.0	9.0
22	5.0	.0	.0	.0	.0	1.0	7.0	10.0	12.0	20.0	11.0	17.0
23	2.0	.0	.0	.0	.0	.0	5.0	10.0	19.0	21.0	11.0	13.0
24	2.0	.0	.0	.0	.0	1.0	5.0	11.0	20.0	21.0	13.0	18.0
25	3.0	.0	.0	.0	.0	1.0	4.0	12.0	22.0	22.0	20.0	17.0
26	1.0	.0	.0	.0	.0	.0	4.0	23.0	23.0	20.0	21.0	15.0
27	1.0	.0	.0	.0	.0	.0	8.0	20.0	22.0	21.0	21.0	17.0
28	1.0	.0	.0	.0	.0	.0	13.0	15.0	26.0	12.0	21.0	14.0
29	3.0	.0	.0	.0	---	2.0	13.0	9.0	27.0	13.0	23.0	8.0
30	1.0	.0	.0	.0	---	1.0	13.0	13.0	17.0	11.0	20.0	8.0
31	.0	---	.0	.0	---	2.0	---	13.0	---	11.0	21.0	---
MEAN	5.0	.5	.0	.0	.0	.5	5.5	9.5	14.5	14.5	14.5	11.5
WTR YR 1979	MEAN	6.5	MAX	27.0	MIN	.0						

141

LOCATION.--Lat 41°34'54", long 110°33'42", in NW¼SE¼SE¼ sec.31, T.19 N., R.116 W., Lincoln County, Hydrologic Unit 14040108, on left bank 0.8 mi (1.3 km) downstream from North Fork, 9.3 mi (15.0 km) south of Glencoe, and 14.6 mi (23.5 km) south of Kemmerer.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft (1,993 m), from topographic map.

REMARKS.--Records fair except those for winter period and periods of no gage-height record, Nov. 14-25, Dec. 7 to Apr. 6, which are poor. No diversion above station. Natural flow of stream affected by return flow from power development which diverts water into the basin from Hams Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 157 ft³/s (4.45 m³/s) Mar. 20, 1978, gage height, 5.43 ft (1.655 m); maximum gage height, 5.86 ft (1.786 m) Mar. 18, 1978 (backwater from ice); minimum daily discharge, 0.72 ft³/s (0.020 m³/s) Aug. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft³/s (1.70 m³/s) Apr. 8, gage height, 3.64 ft (1.109 m); minimum daily, 0.72 ft³/s (0.020 m³/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	7.0	8.0	1.0	1.5	5.0	20	14	7.1	1.9	3.9	4.1
2	3.3	7.4	7.4	1.1	1.6	4.7	18	14	6.8	1.7	3.1	3.5
3	2.9	7.8	6.8	1.3	1.8	4.4	17	16	5.9	1.6	1.7	3.6
4	2.6	7.2	7.5	1.6	1.9	4.2	20	16	4.9	2.7	1.3	3.5
5	2.6	6.9	8.3	1.9	2.1	4.4	24	17	4.5	2.2	1.1	3.3
6	2.7	5.3	8.3	2.1	2.4	4.7	30	17	3.8	2.1	.02	3.3
7	2.9	5.1	7.7	1.9	2.5	5.2	44	18	3.6	2.6	.72	3.0
8	3.1	4.9	6.7	1.7	2.8	5.5	49	18	3.9	2.7	1.3	2.6
9	3.8	4.0	5.4	1.6	3.3	5.2	52	17	5.9	2.5	1.7	2.4
10	3.8	2.4	4.6	1.7	3.7	5.0	45	16	6.5	2.3	1.9	2.5
11	4.2	1.3	4.6	2.0	4.3	5.4	32	14	7.1	2.2	2.2	2.6
12	3.9	1.3	4.9	2.3	4.7	6.5	28	13	5.5	2.6	2.0	2.4
13	4.3	1.2	5.3	2.2	5.0	8.0	29	12	3.5	2.3	2.0	2.1
14	4.4	1.2	5.5	2.0	5.5	10	34	10	2.8	1.8	3.1	3.6
15	5.1	1.3	5.2	1.9	5.9	12	39	10	2.2	1.5	5.7	4.3
16	5.9	2.0	5.4	2.0	5.8	15	42	8.8	1.8	1.4	6.0	4.7
17	7.1	3.0	5.2	1.9	5.7	18	43	7.5	2.2	1.3	6.2	5.1
18	7.5	4.0	5.0	2.0	5.5	17	43	7.2	2.8	2.0	6.5	5.3
19	7.5	5.0	5.2	2.1	5.4	15	39	7.2	3.7	2.2	6.5	5.1
20	7.5	5.3	5.5	2.2	5.2	14	29	3.2	5.2	2.0	7.7	4.4
21	7.8	5.1	5.7	2.2	5.0	13	24	2.6	5.3	2.4	8.8	3.7
22	9.0	4.8	5.9	2.1	4.8	14	22	2.9	4.7	3.7	7.4	3.0
23	8.5	5.5	6.0	2.1	5.0	16	20	3.1	4.5	4.4	6.6	2.6
24	8.5	5.7	6.3	2.0	4.8	19	18	3.6	4.4	5.6	6.0	2.4
25	8.2	5.3	6.0	2.0	4.6	22	15	5.7	4.1	5.7	6.2	2.3
26	8.0	5.0	5.0	1.9	4.4	27	13	5.9	2.9	5.6	5.9	2.3
27	8.2	5.6	4.0	1.9	4.6	33	14	5.3	2.2	5.6	5.7	2.4
28	8.0	6.2	3.0	1.8	4.8	30	14	5.9	2.2	5.6	5.9	2.6
29	7.8	7.0	2.0	1.7	---	27	15	7.5	2.1	5.2	4.7	2.6
30	8.2	8.1	1.5	1.7	---	23	15	8.0	2.2	4.7	4.1	2.4
31	6.7	---	1.2	1.6	---	22	---	8.0	---	4.3	4.1	---
TOTAL	177.5	141.9	169.1	57.5	114.6	415.2	847	314.4	124.3	94.4	130.84	97.7
MEAN	5.73	4.73	5.45	1.85	4.09	13.4	28.2	10.1	4.14	3.05	4.22	3.26
MAX	9.0	8.1	8.3	2.3	5.9	33	52	18	7.1	5.7	8.8	5.3
MIN	2.6	1.2	1.2	1.0	1.5	4.2	13	2.6	1.8	1.3	.72	2.1
AC-FT	352	281	335	114	227	824	1680	624	247	187	260	194
CAL YR 1978	TOTAL	3322.77	MEAN	9.10	MAX	120	MIN	.87	AC-FT	6590		
WTR YR 1979	TOTAL	2684.44	MEAN	7.35	MAX	52	MIN	.72	AC-FT	5320		

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
03...	1510	--	2.9	1500	--	8.5	2	--	--	--
28...	0915	--	8.2	1300	8.2	1.0	4	--	11.0	1.5
31...	1235	--	5.9	1400	--	4.0	6	--	--	--
NOV										
25...	0900	5.3	--	1750	7.6	.0	4	--	8.3	2.0
DEC										
05...	1530	6.3	--	1250	--	.0	15	--	--	--
JAN										
05...	1325	1.9	--	1400	--	.0	5	--	--	--
19...	0930	2.1	--	2000	7.3	.0	9	--	7.5	2.0
FEB										
06...	1550	2.4	--	1400	--	.0	8	--	--	--
21...	1520	5.0	--	1650	--	.0	4	--	--	--
24...	0900	4.8	--	1800	7.4	.0	6	--	7.2	2.6
MAR										
09...	1400	5.2	--	1200	--	.0	20	--	--	--
APR										
01...	0830	--	20	4500	7.8	8.0	85	--	8.4	4.3
06...	1245	--	25	5500	--	8.0	340	--	--	--
26...	1155	--	13	2000	--	11.0	230	--	--	--
29...	0915	--	16	2000	8.1	7.0	150	--	9.2	--
MAY										
11...	1425	--	14	1600	--	11.0	110	--	--	--
JUN										
03...	0915	--	5.7	2900	8.2	12.0	--	2.4	6.9	6.2
04...	2005	--	4.8	2300	--	22.0	8	--	--	--
24...	0930	--	4.3	2800	8.0	14.0	--	17	6.8	3.6
JUL										
06...	1450	--	2.4	5000	--	18.0	30	--	--	--
31...	1425	--	4.6	2580	--	21.0	35	--	--	--
AUG										
03...	0920	--	1.8	3600	8.0	14.0	--	14	6.9	4.8
09...	1055	--	1.7	4000	--	18.5	20	--	--	--
15...	1500	--	5.9	2250	--	19.0	20	--	--	--
30...	1400	--	4.0	3700	8.0	19.0	--	8.0	9.0	3.4
SEP										
05...	1510	--	3.3	3900	--	20.0	2	--	--	--
27...	1415	--	2.4	3700	8.0	15.0	--	1.7	9.4	2.1

GREEN RIVER BASIN

143

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
28...	690	530	170	65	70	1.2	--	5.8	200	0
31...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	860	630	200	88	110	1.6	--	9.7	280	0
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
19...	1000	770	260	86	96	1.3	--	11	290	0
FEB										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
24...	800	580	200	74	110	1.7	--	9.0	270	0
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	1200	950	290	120	470	5.9	--	18	330	0
06...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	770	480	170	85	190	3.0	--	9.3	360	0
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	1100	720	220	130	250	3.3	270	15	450	0
04...	--	--	--	--	--	--	--	--	--	--
24...	1100	770	220	140	250	3.2	260	11	430	0
JUL										
06...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	1500	1300	370	130	330	3.8	350	16	230	0
09...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
30...	1400	1100	380	98	340	4.0	360	16	270	0
SEP										
05...	--	--	--	--	--	--	--	--	--	--
27...	1500	1300	400	130	350	3.9	370	15	--	--

GREEN RIVER BASIN

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALKA- LINITY (MG/L AS CAC03)	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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
28...	160	610	34	.6	2.8	1060	1.44	23.5	.05	.02
31...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	230	800	46	.7	8.3	1400	1.90	20.0	.25	.01
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
19...	240	940	38	.8	12	1590	2.16	9.02	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
24...	220	720	43	.6	12	1300	1.77	16.8	.77	.15
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	270	1800	89	.5	11	2960	4.03	160	.10	9.4
06...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	300	790	57	.4	8.8	1490	2.03	64.4	.27	3.5
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	370	1100	93	.5	17	2050	2.79	31.6	.26	4.1
04...	--	--	--	--	--	--	--	--	--	--
24...	350	1200	76	.4	8.2	2120	2.88	24.6	1.1	3.4
JUL										
06...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	190	1700	52	.4	6.7	2720	3.70	13.2	4.3	3.8
09...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
30...	220	1900	62	.5	10	2940	4.00	31.8	4.6	2.7
SEP										
05...	--	--	--	--	--	--	--	--	--	--
27...	190	1900	50	.6	4.6	2970	4.04	19.2	7.3	.12

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AMMONIA TOTAL (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- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT										
03...	--	--	--	--	--	--	--	--	9	.07
28...	--	.60	.62	.67	3.0	.04	--	--	--	--
31...	--	--	--	--	--	--	--	--	20	.32
NOV										
25...	--	.75	.76	1.0	4.5	.04	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	45	1.0
JAN										
05...	--	--	--	--	--	--	--	--	72	.37
19...	--	--	--	--	--	.07	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	26	.17
21...	--	--	--	--	--	--	--	--	16	.22
24...	--	.65	.80	1.6	7.0	.08	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	62	.87
APR										
01...	--	.60	10	10	45	.02	--	--	--	--
06...	--	--	--	--	--	--	--	--	686	46
26...	--	--	--	--	--	--	--	--	345	12
29...	4.2	.70	4.2	4.5	20	.32	.98	.98	--	--
MAY										
11...	--	--	--	--	--	--	--	--	222	8.4
JUN										
03...	5.0	1.8	5.9	6.2	27	.08	.25	.25	--	--
04...	--	--	--	--	--	--	--	--	41	.53
24...	4.1	1.6	5.0	6.1	27	.04	.12	.12	--	--
JUL										
06...	--	--	--	--	--	--	--	--	76	.49
31...	--	--	--	--	--	--	--	--	89	1.1
AUG										
03...	4.6	.80	4.6	8.9	39	.01	--	.03	--	--
09...	--	--	--	--	--	--	--	--	98	.45
15...	--	--	--	--	--	--	--	--	98	1.6
30...	3.3	.10	2.8	7.4	33	.20	--	.61	--	--
SEP										
05...	--	--	--	--	--	--	--	--	125	1.1
27...	.15	1.3	1.4	8.7	39	.00	--	.00	--	--

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 28...	0915	190	0	1	1	0	0	2000	3	1	0	0
NOV 25...	0900	--	--	--	--	--	--	2700	--	--	--	--
JAN 19...	0930	350	--	1	--	0	--	150	4	--	20	--
FEB 24...	0900	--	--	--	--	--	--	1800	--	--	--	--
APR 01...	0830	--	--	--	--	--	--	1900	--	--	--	--
29...	0915	4000	--	2	--	0	--	750	3	--	10	--
JUN 03...	0915	--	--	--	--	--	--	1100	--	--	--	--
24...	0930	--	--	--	--	--	--	7000	--	--	--	--
AUG 03...	0920	610	--	1	--	0	--	2500	3	--	10	--
30...	1400	--	--	--	--	--	--	3100	--	--	--	--
SEP 27...	1415	--	--	--	--	--	--	3700	--	--	--	--

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 28...	17	10	240	--	60	12	0	70	70	20	20
NOV 25...	--	--	--	--	80	--	--	--	--	--	--
JAN 19...	40	--	350	--	160	8	--	110	--	120	--
FEB 24...	--	--	--	--	70	--	--	--	--	--	--
APR 01...	--	--	--	--	80	--	--	--	--	--	--
29...	2	--	5100	5100	30	21	--	160	--	800	--
JUN 03...	--	--	--	--	60	--	--	--	--	--	--
24...	--	--	--	--	40	--	--	--	--	--	--
AUG 03...	3	--	570	540	30	2	--	360	--	160	--
30...	--	--	--	--	70	--	--	--	--	--	--
SEP 27...	--	--	--	--	100	--	--	--	--	--	--

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	.0	.0	12	12	17	9	4	3	.0	30	30
NOV 25...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	.0	--	16	--	16	--	5	--	--	50	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
APR 01...	--	--	--	--	--	--	--	--	--	--	--
29...	.0	--	5	--	8	--	1	--	--	50	--
JUN 03...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	.0	--	2	--	8	--	1	--	--	40	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	--	--

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 (PCI/L METHOD AS U)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 28...	0915	17	12	6.0	7.0	5.4	6.6	.10	5.8

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL 06...	1450	2	18.0	2.4	14	17	20	23

DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM	128 MM
JUL 06...	25	30	43	63	78	89	97	100

09222400 MUDDY CREEK NEAR HAMPTON, WY

LOCATION.--Lat 41°32'17", long 110°13'43", in NW¼SW¼SW¼ sec.18, T.18 N., R.113 W., Uinta County, Hydrologic Unit 14040108, on left bank 2.0 mi (3.2 km) upstream from mouth, 2.6 mi (4.2 km) southwest of Church Buttes siding, 3.3 mi (5.3 km) downstream from Little Muddy Creek, and 4.2 mi (6.8 km) east of Hampton.

DRAINAGE AREA.--963 mi² (2,494 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 349 ft³/s (9.88 m³/s) June 11, 1978, gage height, 3.18 ft (0.969 m); maximum gage height, 6.03 ft (1.838 m) about Mar. 1, 1976 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft³/s (4.47 m³/s) May 30, gage height, 2.41 ft (0.735 m); maximum gage height, 4.17 ft (1.271 m) Mar. 13 (backwater from ice); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	5.6	7.0	.00	.00	13	66	41	53	.32	1.6	1.3
2	2.2	6.1	6.8	.00	.00	12	59	47	44	.11	1.2	1.1
3	2.2	6.1	6.3	.00	.00	11	48	48	35	.00	.96	1.1
4	2.2	6.6	6.6	.00	.00	12	42	60	24	.09	.85	.85
5	2.0	6.1	7.3	.00	.00	13	42	56	19	.00	.40	.57
6	2.0	5.8	7.6	.00	.00	14	56	55	17	.00	.10	.48
7	2.0	5.4	7.2	.00	.10	17	69	86	14	.00	.00	1.1
8	2.0	4.6	6.5	.00	.12	20	86	93	12	.00	.00	1.3
9	2.0	4.6	5.3	.00	.20	19	86	77	13	.00	.00	1.1
10	2.0	4.6	4.1	.00	.50	17	84	65	16	.00	.62	.85
11	2.2	4.2	4.1	.10	1.0	20	76	53	16	.32	9.5	.48
12	2.4	3.9	4.3	.12	2.0	27	55	45	13	.25	2.0	.40
13	2.6	3.7	4.5	.10	5.0	35	48	41	11	.11	1.5	.57
14	2.6	3.9	4.3	.00	9.0	46	50	37	8.7	.04	10	.75
15	2.8	3.5	4.0	.00	15	60	53	35	6.1	.17	29	.66
16	2.8	3.6	3.8	.00	14	75	58	39	5.1	.23	4.7	.46
17	3.3	3.8	3.6	.00	13	70	68	44	4.7	.00	3.9	2.0
18	3.9	4.2	3.5	.00	12	65	71	51	4.3	.00	3.0	1.9
19	5.1	4.6	3.7	.00	12	55	77	63	3.6	.00	3.0	2.4
20	5.6	4.8	3.8	.00	11	51	72	89	3.6	.00	3.3	2.6
21	5.6	4.7	3.6	.00	11	47	60	87	4.3	.00	3.0	2.2
22	5.6	4.5	3.4	.00	11	45	47	84	5.6	.00	3.9	1.9
23	6.1	4.8	3.5	.00	9.5	47	44	82	5.1	.00	3.6	1.4
24	6.1	5.0	3.6	.00	9.0	51	45	98	3.9	.26	2.8	1.2
25	5.1	4.6	3.7	.00	8.5	64	50	96	3.9	3.9	2.6	.85
26	5.1	4.6	2.0	.00	9.0	90	48	95	3.0	2.0	2.2	.85
27	5.1	5.1	1.0	.00	9.9	120	42	87	2.4	2.0	2.2	.75
28	5.1	5.5	.50	.00	12	115	40	87	1.7	2.4	1.9	.57
29	5.6	6.1	.20	.00	---	109	42	104	1.3	2.0	1.7	.57
30	5.1	6.6	.10	.00	---	100	41	132	.57	1.9	1.9	.66
31	7.1	---	.05	.00	---	93	---	80	---	1.6	2.0	---
TOTAL	115.7	147.2	125.95	.32	174.82	1533	1725	2157	354.87	43.44	103.43	32.92
MEAN	3.73	4.91	4.06	.010	6.24	49.5	57.5	69.6	11.8	1.40	3.34	1.10
MAX	7.1	6.6	7.6	.12	15	120	86	132	53	26	29	2.6
MIN	2.0	3.5	.05	.00	.00	11	40	35	.57	.00	.00	.40
AC-FT	229	292	250	.6	347	3040	3420	4280	704	86	205	65
CAL YR 1978 TOTAL	13633.07			MEAN 37.4	MAX 292	MIN .00	AC-FT 27040					
WTR YR 1979 TOTAL	6513.65			MEAN 17.8	MAX 132	MIN .00	AC-FT 12920					

GREEN RIVER BASIN

149

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--No flow observed Jan. 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
02...	1120	--	2.2	1400	--	8.0	15	--	--	--
27...	1130	--	6.1	1400	8.2	2.0	35	--	11.2	2.2
NOV										
01...	1000	--	5.6	1600	--	.5	55	--	--	--
24...	1120	5.0	--	2900	7.8	.0	9	--	11.0	3.3
DEC										
07...	1350	7.2	--	--	--	.0	15	--	--	--
FEB										
23...	1430	9.5	--	2300	7.5	.0	3	--	12.2	3.6
MAR										
05...	1440	13	--	1700	--	.0	25	--	--	--
31...	1020	--	91	2900	8.2	.5	670	--	11.4	5.9
APR										
13...	1005	--	45	1600	--	4.0	500	--	--	--
28...	1015	--	41	1500	8.3	9.0	190	--	9.3	--
30...	1750	--	39	1500	--	14.5	270	--	--	--
MAY										
14...	1130	--	37	1300	--	12.0	160	--	--	--
JUN										
02...	1030	--	45	1090	8.2	12.5	--	220	8.1	2.4
06...	1115	--	18	1700	--	16.0	45	--	--	--
23...	1030	--	5.6	3300	8.6	16.0	--	5.0	8.4	1.9
JUL										
11...	1115	--	.32	5000	--	20.0	1	--	--	--
AUG										
02...	0930	--	1.2	2300	--	15.0	8	--	--	--
02...	1140	--	1.3	2800	8.9	19.0	--	8.2	8.4	2.8
15...	1220	--	25	1280	--	18.0	4400	--	--	--
31...	0845	--	2.2	3000	8.5	10.0	--	4.2	8.8	1.5
SEP										
06...	1025	--	.40	3000	--	14.5	2	--	--	--
28...	0900	--	.57	4400	8.4	6.0	--	4.0	9.6	2.2

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L 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	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
27...	620	490	150	59	77	1.3	--	6.4	150	0
NOV										
01...	--	--	--	--	--	--	--	--	--	--
24...	1100	710	250	120	260	3.4	--	5.9	500	0
DEC										
07...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	710	310	160	75	230	3.8	--	18	480	0
MAR										
05...	--	--	--	--	--	--	--	--	--	--
31...	690	410	180	59	330	5.5	--	16	340	0
APR										
13...	--	--	--	--	--	--	--	--	--	--
28...	430	170	88	50	140	3.0	--	12	310	0
30...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	340	170	78	35	91	2.2	99	8.4	200	0
06...	--	--	--	--	--	--	--	--	--	--
23...	810	630	110	130	400	6.1	420	21	210	5
JUL										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
02...	900	840	130	140	340	4.9	360	16	77	0
15...	--	--	--	--	--	--	--	--	--	--
31...	1200	1100	240	140	290	3.7	300	12	61	0
SEP										
06...	--	--	--	--	--	--	--	--	--	--
28...	0	0	--	--	450	--	470	19	--	--

GREEN RIVER BASIN

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALKALINITY (MG/L AS CA CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT									
02...	--	--	--	--	--	--	--	--	--
27...	120	620	36	.7	1.1	1030	1.40	17.0	.05
NOV									
01...	--	--	--	--	--	--	--	--	--
24...	410	870	270	.6	9.8	2040	2.77	27.5	.15
DEC									
07...	--	--	--	--	--	--	--	--	--
FEB									
23...	390	470	230	.5	14	1440	1.96	36.9	.37
MAR									
05...	--	--	--	--	--	--	--	--	--
31...	280	910	120	.4	7.8	1790	2.43	440	.17
APR									
13...	--	--	--	--	--	--	--	--	--
28...	250	340	110	.3	8.7	902	1.23	99.9	.22
30...	--	--	--	--	--	--	--	--	--
MAY									
14...	--	--	--	--	--	--	--	--	--
JUN									
02...	160	270	77	.3	7.6	666	.91	80.9	.23
06...	--	--	--	--	--	--	--	--	--
23...	180	960	400	.4	6.0	2140	2.91	32.4	.02
JUL									
11...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	--	--	--	--	--	--	--	--
02...	63	1400	130	.5	1.8	2200	2.99	7.72	.03
15...	--	--	--	--	--	--	--	--	--
31...	50	1500	67	.4	.3	2280	3.10	13.5	1.8
SEP									
06...	--	--	--	--	--	--	--	--	--
28...	57	2200	96	.4	.5	2800	3.81	3.02	1.7

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT									
02...	--	--	--	--	--	--	--	--	--
27...	.04	--	.82	.86	.91	4.0	.08	--	--
NOV									
01...	--	--	--	--	--	--	--	--	--
24...	.04	--	.69	.73	.88	3.9	.16	--	--
DEC									
07...	--	--	--	--	--	--	--	--	--
FEB									
23...	.08	--	.84	.92	1.3	5.7	.04	--	--
MAR									
05...	--	--	--	--	--	--	--	--	--
31...	5.0	--	3.7	8.7	8.9	39	1.6	--	--
APR									
13...	--	--	--	--	--	--	--	--	--
28...	.91	1.1	.69	1.6	1.8	8.1	.47	1.4	1.4
30...	--	--	--	--	--	--	--	--	--
MAY									
14...	--	--	--	--	--	--	--	--	--
JUN									
02...	.27	.33	1.2	1.5	1.7	7.7	.40	1.2	1.2
06...	--	--	--	--	--	--	--	--	--
23...	.06	.07	1.0	1.1	1.1	5.0	.02	.06	.06
JUL									
11...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	--	--	--	--	--	--	--	--
02...	.04	.05	.71	.75	.78	3.5	.01	--	.03
15...	--	--	--	--	--	--	--	--	--
31...	.17	.21	.93	1.1	2.9	13	.02	--	.06
SEP									
06...	--	--	--	--	--	--	--	--	--
28...	.11	.13	.35	.46	2.2	9.6	.01	--	.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

GREEN RIVER BASIN

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION.--Lat 42°06'38", long 110°42'34", in NW¼SE¼NW¼ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi (3.2 km) downstream from Pole Creek, 4.6 mi (7.4 km) upstream from Taylor Creek, and 22 mi (35 km) northwest of Frontier.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Altitude of gage is 7,455 ft (2,272 m), from topographic map. Prior to Sept. 2, 1971, at site 120 ft (37 m) upstream at present datum.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Oct. 19 to Nov. 28, Jan. 29 to Mar. 13, which are poor. No diversion above station.

AVERAGE DISCHARGE.--27 years, 100 ft³/s (2.832 m³/s), 72,450 acre-ft/yr (89.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,520 ft³/s (43.0 m³/s) May 28, 1971, gage height, 8.10 ft (2.469 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 6	0430	510 14.4	5.99 1.826	June 7	0630	463 13.1	5.86 1.786
May 29	0930	*764 21.6	6.63 2.021				

Minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	21	18	9.0	12	13	22	207	421	131	27	15
2	25	22	17	9.7	12	14	24	216	364	129	27	14
3	24	22	16	11	13	13	30	214	349	121	25	13
4	24	21	15	12	14	13	36	258	327	117	23	12
5	24	20	16	13	15	14	43	352	364	102	22	12
6	24	19	17	13	16	15	51	457	412	90	22	12
7	24	18	16	12	17	16	60	288	445	86	23	12
8	24	17	15	13	18	16	70	226	412	77	34	10
9	24	16	15	14	19	15	70	186	358	72	27	11
10	24	15	14	15	20	14	66	164	307	69	27	11
11	23	14	14	16	21	14	63	149	285	66	25	12
12	23	13	13	17	22	15	63	149	282	64	23	12
13	22	13	13	16	22	15	75	186	302	61	32	12
14	22	14	13	15	21	16	90	263	316	57	33	13
15	22	15	12	14	19	17	100	335	316	55	33	13
16	22	16	12	13	17	17	115	466	296	54	30	13
17	22	17	13	12	16	16	120	598	271	50	27	13
18	22	18	13	13	15	16	110	618	250	48	26	12
19	22	18	14	14	15	17	100	650	248	53	27	11
20	22	17	14	15	16	17	95	646	231	51	31	11
21	22	16	15	15	15	17	100	626	199	46	27	12
22	22	15	15	16	16	16	110	636	186	48	24	11
23	21	16	14	16	17	16	100	678	188	50	24	11
24	21	17	14	15	16	17	97	682	182	47	20	12
25	21	18	13	15	14	18	91	646	171	42	19	11
26	21	17	13	14	13	19	91	643	166	38	18	12
27	21	16	12	14	12	20	113	632	160	38	18	14
28	21	17	12	13	12	21	145	671	153	38	17	15
29	21	17	11	13	---	20	179	736	149	34	15	13
30	21	18	10	13	---	21	199	608	137	32	14	13
31	21	---	10	13	---	20	---	492	---	30	13	---
TOTAL	697	513	429	423.7	455	508	2628	13678	8247	1996	753	368
MEAN	22.5	17.1	13.8	13.7	16.3	16.4	87.6	441	275	64.4	24.3	12.3
MAX	25	22	18	17	22	21	199	736	445	131	34	15
MIN	21	13	10	9.0	12	13	22	149	137	30	13	10
AC-FT	1380	1020	851	840	902	1010	5210	27130	16360	3960	1490	730
CAL YR 1978	TOTAL	51552.2	MEAN	141	MAX	1010	MIN	6.8	AC-FT	102300		
WTR YR 1979	TOTAL	30695.7	MEAN	84.1	MAX	736	MIN	9.0	AC-FT	60880		

GREEN RIVER BASIN

09224050 HAMS FORK NEAR DIAMONDVILLE, WY

LOCATION.--Lat 41°45'06", long 110°31'57", in NW¼SE¼SW¼ sec.36, T.21 N., R.116 W., Lincoln County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30N, 1.9 mi (3.1 km) south of Diamondville, and 2.8 mi (4.5 km) south of Kemmerer.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT										
28...	0715	15	510	7.6	2.0	2	7.0	2.2	K3700	270
NOV										
25...	0730	51	460	7.7	.0	4	8.9	1.5	K11000	220
DEC										
20...	1500	E30	510	7.5	.0	1	8.1	3.0	K7100	250
JAN										
19...	0800	E20	560	7.5	.0	3	7.7	2.4	5100	270
FEB										
24...	0800	E15	700	7.7	.0	5	8.7	2.6	K12000	280
MAR										
31...	1530	70	580	8.2	3.5	8	11.8	3.6	K1000	260
APR										
29...	0815	360	470	8.0	5.0	25	9.5	--	2100	200
JUN										
03...	0800	495	400	8.1	11.5	15	7.9	1.7	4300	200
24...	0815	152	410	7.9	14.0	8	6.9	1.8	2600	210
AUG										
03...	0815	105	355	8.0	15.0	5	6.4	3.6	5600	160
30...	1530	74	380	9.1	19.0	4	13.4	2.0	K700	190
SEP										
27...	1540	41	425	8.9	14.5	2	11.4	3.0	K60	190

E-Estimate.

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

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CAC03)
OCT										
28...	110	78	19	15	.4	--	2.0	200	0	160
NOV										
25...	55	63	15	10	.3	--	1.9	200	0	160
DEC										
20...	83	74	17	13	.4	--	1.9	210	0	170
JAN										
19...	84	78	19	13	.3	--	2.0	230	0	190
FEB										
24...	100	82	19	--	--	--	2.0	220	0	180
MAR										
31...	81	75	18	15	.4	--	1.9	220	0	180
APR										
29...	47	55	14	15	.5	17	2.1	180	0	150
JUN										
03...	39	63	11	8.0	.2	9.6	1.6	200	0	160
24...	45	64	12	8.6	.3	10	1.5	200	0	160
AUG										
03...	41	46	12	6.6	.2	7.9	1.3	150	0	120
30...	45	53	14	9.0	.3	10	1.1	150	13	140
SEP										
27...	74	53	15	14	.4	16	1.7	--	--	120

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)
OCT 28...	120	8.0	.3	2.4	343	.47	13.9	.26	.33	--
NOV 25...	--	--	.6	4.6	--	1.47	--	.08	.23	--
DEC 20...	97	5.9	.2	5.8	318	.43	25.8	.22	.38	--
JAN 19...	100	6.9	.2	7.2	340	.46	18.4	.16	.45	--
FEB 24...	100	--	.3	7.5	--	--	--	.16	.35	--
MAR 31...	110	7.8	.2	6.0	342	.47	64.6	.13	.32	--
APR 29...	64	5.7	.2	6.8	252	.34	245	--	--	--
JUN 03...	37	6.3	.2	5.2	231	.31	309	.02	.05	.06
AUG 24...	47	3.7	.2	3.7	239	.33	98.1	.06	.09	.11
SEP 03...	58	3.4	.2	3.1	205	.28	58.1	.05	.07	.08
SEP 30...	72	4.5	.2	3.2	244	.33	48.8	.10	.07	.08
SEP 27...	81	5.5	.3	.4	243	.33	26.9	.33	.11	.13

DATE	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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 28...	.35	.68	.94	4.2	.29	--	--	4.2	.5
NOV 25...	.45	.68	.76	3.4	.17	--	--	--	--
DEC 20...	.47	.85	1.1	4.7	.18	--	--	--	--
JAN 19...	.24	.69	.85	3.8	.19	--	--	--	--
FEB 24...	.33	.68	.84	3.7	.25	--	--	--	--
MAR 31...	.48	.80	.93	4.1	.08	--	--	--	--
APR 29...	--	--	--	--	.03	.09	.09	--	--
JUN 03...	.47	.52	.54	2.4	.06	.18	.18	--	--
AUG 24...	.39	.48	.54	2.4	.10	.31	.31	5.6	--
SEP 03...	.14	.21	.26	1.2	.02	--	.06	--	--
SEP 30...	.67	.74	.84	3.7	.19	--	.58	--	--
SEP 27...	.99	1.1	1.4	6.3	.22	--	.67	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

GREEN RIVER BASIN

09224450 HAMS FORK NEAR GRANGER, WY

LOCATION.--Lat 41°35'56", long 109°59'28", in center of sec.30, T.19 N., R.111 W., Sweetwater County, Hydrologic Unit 14040107, at railroad bridge, 1.2 mi (1.9 km) northwest of Granger, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--670 mi² (1,740 km²), approximately.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
27...	1540	18	730	8.2	7.5	7	--	300	110	73
NOV										
24...	1520	62	630	8.1	.0	10	--	300	95	86
DEC										
20...	1000	E30	780	7.7	.0	6	--	320	110	90
JAN										
18...	1030	E20	850	7.8	.0	6	--	390	120	110
FEB										
23...	1100	E15	700	7.5	.0	25	--	280	75	81
MAR										
31...	1400	370	640	8.1	.5	35	--	240	76	65
APR										
28...	1430	390	510	8.2	10.0	60	--	220	31	61
JUN										
02...	1550	310	530	8.2	16.0	20	--	230	33	66
23...	1500	65	740	8.1	20.0	5	--	280	67	76
AUG										
02...	1540	19	730	8.2	22.5	--	5.0	260	75	61
31...	0715	21	560	8.1	15.0	10	--	220	72	55
SEP										
28...	0730	11	660	8.2	11.0	7	--	250	100	62
E-Estimate.										

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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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										
27...	28	52	1.3	2.2	230	0	190	190	21	.4
NOV										
24...	22	32	.8	1.9	250	0	200	150	16	.5
DEC										
20...	23	37	.9	1.8	260	0	210	170	16	.6
JAN										
18...	29	34	.7	2.2	330	0	270	180	16	.5
FEB										
23...	20	32	.8	1.8	250	0	200	120	27	.4
MAR										
31...	18	41	1.2	1.4	200	0	160	140	18	.4
APR										
28...	16	26	.8	2.5	230	0	190	73	10	.3
JUN										
02...	16	20	.6	.0	240	0	200	72	7.8	.3
23...	23	47	1.2	.0	260	0	210	160	16	.4
AUG										
02...	26	51	1.4	2.5	220	3	180	170	21	.4
31...	21	35	1.0	.0	180	0	150	130	14	.4
SEP										
28...	23	47	1.3	2.0	180	0	150	170	19	.4

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, NITRATE DIS- SOLVED (MG/L AS N)	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									
27...	1.4	478	.65	23.2	.05	--	.09	18	.87
NOV									
24...	.0	429	.58	71.8	.05	--	.07	46	7.7
DEC									
20...	.0	470	.64	38.1	.25	--	.03	48	3.9
JAN									
18...	3.9	537	.73	29.0	.27	--	.11	88	4.8
FEB									
23...	5.1	409	.56	16.6	.32	--	.19	62	2.5
MAR									
31...	1.8	385	.52	385	.00	--	.12	90	90
APR									
28...	5.4	306	.42	322	.07	--	1.4	234	246
JUN									
02...	6.0	308	.42	258	.00	--	.09	68	57
23...	6.4	459	.62	80.6	.02	--	.03	46	8.1
AUG									
02...	4.1	449	.61	23.0	.00	--	.03	42	2.2
31...	.9	343	.47	19.4	.00	--	.02	30	1.7
SEP									
28...	1.0	413	.56	12.3	--	.04	.03	20	.59

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼NE¼NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 30, 4.2 mi (6.8 km) upstream from Meadow Springs Wash, and 8.5 mi (13.7 km) east of Little America.

DRAINAGE AREA.--3,100 mi² (8,030 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft (1,867.711 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Dec. 15-30, Dec. 31 to Jan. 2, Feb. 3-9, Aug. 10-24, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft (52.3 hm³), numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres (308 km²) above station.

AVERAGE DISCHARGE.--17 years, 336 ft³/s (9.516 m³/s), 243,400 acre-ft/yr (300 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft³/s (283 m³/s) June 13, 1965, gage height, 10.90 ft (3.322 m); no flow Sept. 20-26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 761 ft³/s (21.6 m³/s) May 8, gage height, 4.99 ft (1.521 m); maximum gage height, 6.52 ft (1.987 m) Mar. 10 (backwater from ice); minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	40	37	21	21	150	460	472	545	61	24	28
2	34	43	41	18	20	140	418	475	513	57	24	26
3	33	47	44	15	20	140	352	553	486	54	23	26
4	32	48	43	16	21	155	295	636	452	53	22	23
5	33	49	44	18	22	170	302	669	409	56	21	21
6	33	46	48	20	25	180	280	685	364	58	22	18
7	33	45	51	22	27	200	295	697	304	66	20	17
8	33	48	49	24	30	220	316	747	256	67	21	16
9	33	46	47	25	34	240	367	735	228	68	21	14
10	32	41	43	23	37	265	368	712	221	66	23	12
11	32	32	40	21	41	295	371	721	300	62	25	11
12	30	29	39	21	45	340	349	705	262	57	25	9.4
13	29	25	39	22	50	320	293	688	222	59	23	8.7
14	29	23	41	24	56	350	270	653	196	59	40	8.3
15	29	23	39	26	62	390	259	645	168	55	64	8.1
16	29	24	37	27	70	440	292	637	155	54	80	7.8
17	30	26	36	27	81	475	324	612	138	47	80	7.6
18	34	29	35	26	92	510	335	605	139	43	74	7.1
19	38	34	33	25	103	530	365	620	136	39	62	7.4
20	41	39	32	24	120	530	438	644	130	36	53	6.8
21	42	44	32	23	140	500	462	686	125	35	64	6.8
22	37	42	34	23	130	470	452	703	122	32	90	7.0
23	37	40	36	24	120	450	446	704	112	32	70	7.1
24	36	39	34	25	115	440	435	667	106	29	62	6.7
25	38	42	35	25	115	440	426	564	103	66	53	6.6
26	37	41	37	24	120	490	439	500	102	68	48	6.5
27	36	39	35	23	130	580	431	461	95	44	43	6.1
28	38	38	32	24	140	700	426	502	83	38	39	4.8
29	38	36	28	22	---	660	440	521	73	33	35	3.7
30	39	34	25	22	---	580	456	540	64	29	31	3.0
31	39	---	23	21	---	540	---	620	---	26	29	---
TOTAL	1070	1132	1169	701	1987	11890	11162	19379	6609	1549	1311	341.5
MEAN	34.5	37.7	37.7	22.6	71.0	384	372	625	220	50.0	42.3	11.4
MAX	42	49	51	27	140	700	462	747	545	68	90	28
MIN	29	23	23	15	20	140	259	461	64	26	20	3.0
AC-FT	2120	2250	2320	1390	3940	23580	22140	38440	13110	3070	2600	677
CAL YR 1978	TOTAL	109534.0	MEAN 300	MAX 2340	MIN 12	AC-FT 217300						
WTR YR 1979	TOTAL	58300.5	MEAN 160	MAX 747	MIN 3.0	AC-FT 115600						

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.

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 year 1979 are available at District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 6,010 micromhos Oct. 1, 1953; minimum daily, 411 micromhos May 13, 1969.

WATER TEMPERATURES: Maximum, 29.0°C July 15, 16, 1955, June 5, 1977; minimum, 0.0°C on many days during winter period most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT										
04...	1630	--	33	1800	--	14.0	15	--	--	--
27...	0945	--	36	2250	8.3	2.0	2	10.9	24	750
NOV										
03...	1020	--	47	2200	--	4.5	3	--	--	--
24...	0930	39	--	2000	8.0	.0	5	10.8	K330	750
DEC										
07...	1030	51	--	1100	--	.0	10	--	--	--
20...	0900	32	--	1900	7.8	.0	4	11.8	58	780
JAN										
02...	1400	18	--	1650	--	.0	4	--	--	--
18...	0900	26	--	1750	7.7	.0	5	12.6	44	610
FEB										
09...	1230	34	--	1600	--	.0	5	--	--	--
23...	0945	120	--	1600	8.0	.0	15	12.2	K8	470
MAR										
09...	1505	240	--	750	--	.0	95	--	--	--
31...	0830	540	--	1500	8.2	.0	300	12.1	K40	400
APR										
16...	1100	--	304	1250	--	10.5	210	--	--	--
28...	0830	--	429	860	8.2	8.0	80	9.2	K110	260
MAY										
03...	1110	--	565	620	--	8.0	230	--	--	--
JUN										
02...	0830	--	520	790	8.1	12.0	95	7.9	K130	290
07...	1020	--	300	950	--	12.0	70	--	--	--
23...	0830	--	110	1500	8.2	15.0	10	7.7	K26	460
JUL										
06...	1430	--	59	1400	--	21.5	7	--	--	--
AUG										
02...	1000	--	24	2000	8.2	17.0	2	7.9	22	530
02...	1525	--	24	2400	--	26.0	2	--	--	--
24...	0830	--	62	1300	--	15.5	3400	--	--	--
31...	1200	--	30	1580	8.4	15.0	25	8.6	K15	410
SEP										
07...	1055	--	17	1400	--	17.5	15	--	--	--
26...	0730	--	6.3	1230	8.4	12.0	15	9.1	63	310

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

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (MG/L AS CACO3)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
27...	570	180	74	320	5.1	--	5.4	230	0	190
NOV										
03...	--	--	--	--	--	--	--	--	--	--
24...	640	190	67	210	3.3	--	4.5	140	0	110
DEC										
07...	--	--	--	--	--	--	--	--	--	--
20...	460	200	68	200	3.1	--	5.1	390	0	320
JAN										
02...	--	--	--	--	--	--	--	--	--	--
18...	350	160	52	170	3.0	--	5.4	--	--	260
FEB										
09...	--	--	--	--	--	--	--	--	--	--
23...	260	120	41	180	3.6	--	4.9	--	--	210
MAR										
09...	--	--	--	--	--	--	--	--	--	--
31...	220	95	40	160	3.5	--	5.8	--	--	180
APR										
16...	--	--	--	--	--	--	--	--	--	--
28...	74	66	24	60	1.6	--	3.5	--	--	190
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	110	79	22	57	1.5	61	3.7	--	--	180
07...	--	--	--	--	--	--	--	--	--	--
23...	240	110	45	140	2.8	140	4.7	--	--	220
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	350	120	57	270	5.1	280	6.0	--	--	180
02...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
31...	250	95	43	180	3.8	180	4.3	--	--	160
SEP										
07...	--	--	--	--	--	--	--	--	--	--
26...	160	60	38	150	3.7	150	3.5	--	--	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 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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
27...	1100	92	.7	4.2	1890	2.57	184	.03	760	150
NOV										
03...	--	--	--	--	--	--	--	--	--	--
24...	860	92	.6	7.3	1500	2.04	158	.06	400	110
DEC										
07...	--	--	--	--	--	--	--	--	--	--
20...	770	69	.5	9.0	1520	2.07	131	.13	450	380
JAN										
02...	--	--	--	--	--	--	--	--	--	--
18...	650	52	.5	6.9	1250	1.70	87.8	.04	270	20
FEB										
09...	--	--	--	--	--	--	--	--	--	--
23...	530	55	.5	9.8	1070	1.46	347	.44	270	30
MAR										
09...	--	--	--	--	--	--	--	--	--	--
31...	480	52	.4	7.7	950	1.29	1390	.12	430	70
APR										
16...	--	--	--	--	--	--	--	--	--	--
28...	180	29	.3	7.0	485	.66	562	.13	120	30
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	180	25	.3	8.2	484	.66	680	.11	120	20
07...	--	--	--	--	--	--	--	--	--	--
23...	510	51	.5	10	1000	1.36	297	.01	310	70
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	810	75	.6	5.3	1450	1.97	94.0	.00	450	30
02...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
31...	600	51	.5	4.6	1080	1.47	87.5	.03	400	70
SEP										
07...	--	--	--	--	--	--	--	--	--	--
26...	410	48	.4	.6	801	1.09	13.6	.01	270	70

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT 23...	1445	36	9.0	.0	0	.00	.00	.0	.0	0	.00
JUN 12...	1000	273	17.5	.0	0	--	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
JUN 12...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 23...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00
JUN 12...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0
JUN 12...	.00	.00	0	0	.00	.00	3	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
OCT 23...	.00	0	.00	0
JUN 12...	.00	0	.00	0

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT												
04...	1630	14.0	--	33	78	6.9	--	--	--	--	--	--
NOV												
03...	1020	4.5	--	47	16	2.0	--	--	--	--	--	--
DEC												
07...	1030	.0	51	--	80	11	--	--	--	--	--	--
JAN												
02...	1400	.0	18	--	68	3.3	--	--	--	--	--	--
FEB												
09...	1230	.0	34	--	56	5.1	--	--	--	--	--	--
MAR												
09...	1505	.0	240	--	233	151	--	--	--	--	--	--
APR												
16...	1100	10.5	--	304	494	405	96	--	--	--	--	--
MAY												
03...	1110	8.0	--	565	788	1200	74	--	--	--	--	--
JUN												
07...	1020	12.0	--	300	195	158	92	--	--	--	--	--
JUL												
06...	1430	21.5	--	59	38	6.1	--	--	--	--	--	--
AUG												
02...	1525	26.0	--	24	26	1.7	--	--	--	--	--	--
09...	1430	15.5	--	62	--	--	--	--	--	--	138	2
24...	0830	15.5	--	62	6310	1060	--	92	98	100	--	--
SEP												
07...	1055	17.5	--	17	46	2.1	--	--	--	--	--	--

[illegible]

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (1.0 km) upstream from forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1944.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records poor. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

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

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 222 ft³/s (6.29 m³/s) May 20, gage height, 2.90 ft (0.884 m); minimum daily during period of operation, 3.1 ft³/s (0.088 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.1	6.0	100	46	16	14
2							3.2	5.5	90	42	16	14
3							3.3	5.2	85	40	16	13
4							3.3	6.3	80	40	15	13
5							3.5	9.3	75	36	14	13
6							3.6	11	88	35	14	12
7							3.8	7.4	85	33	15	12
8							3.9	6.9	76	30	18	12
9							4.0	6.0	70	28	20	12
10							4.1	5.7	66	26	24	13
11							4.1	4.8	63	26	21	12
12							4.0	4.6	70	26	20	12
13							3.8	6.0	79	29	23	12
14							3.7	8.6	84	31	24	12
15							3.7	13	84	25	26	12
16							3.8	17	74	25	26	12
17							3.8	19	69	24	25	12
18							3.9	25	63	24	25	11
19							4.0	34	58	24	28	11
20							4.1	37	52	24	38	11
21							4.3	40	54	24	33	11
22							4.4	48	80	28	29	11
23							4.6	46	76	26	26	11
24							4.8	57	70	24	23	11
25							4.9	64	60	22	22	11
26							5.0	70	57	21	21	11
27							5.3	100	54	22	20	11
28							6.0	157	50	21	18	11
29							5.2	130	46	19	17	11
30							5.0	120	46	18	16	11
31							---	110	---	17	15	---
TOTAL							124.2	1180.3	2104	856	664	355
MEAN							4.14	38.1	70.1	27.6	21.4	11.8
MAX							6.0	157	100	46	38	14
MIN							3.1	4.6	46	17	14	11
AC=FT							246	2340	4170	1700	1320	704

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft (1,843 m), and 3.0 mi (4.8 km) northeast of Manila, UT.

DRAINAGE AREA.--520 mi² (1,350 km²), approximately.

WATER-DISCHARGE RECORDS

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.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

REMARKS.--Records fair except those for winter period and periods of no gage-height record, Dec. 9 to Jan. 8, Jan. 11 to Feb. 7, Feb. 22 to Mar. 5, Mar. 23 to Apr. 8, May 10-13, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--51 years, 81.1 ft³/s (2.297 m³/s), 58,760 acre-ft/yr (72.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s (191 m³/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 335 ft³/s (9.49 m³/s) May 29, gage height, 3.79 ft (1.155 m); maximum gage height 3.93 ft (1.198 m) Mar. 8 (backwater from ice); minimum daily discharge, 0.45 ft³/s (0.013 m³/s) May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	33	33	12	19	65	56	32	83	4.8	.92	3.0
2	2.3	33	32	13	19	60	45	39	53	4.5	.92	3.0
3	2.3	33	30	14	21	57	40	42	33	4.5	1.3	2.8
4	1.9	33	28	17	24	54	44	35	32	4.5	1.5	3.0
5	1.5	33	30	21	26	60	46	19	32	3.9	1.5	2.6
6	1.7	32	29	24	28	71	57	14	42	3.9	1.5	2.6
7	1.7	32	27	23	30	85	68	18	57	4.5	2.1	2.6
8	1.9	32	25	22	32	100	66	24	57	3.6	3.0	2.6
9	1.9	33	24	21	34	95	62	24	76	3.6	3.3	2.3
10	2.1	35	25	22	36	89	62	20	30	3.3	3.0	2.6
11	2.1	24	27	25	38	95	51	10	14	3.6	2.6	2.6
12	2.6	23	28	27	42	105	42	5.0	9.2	3.6	2.3	2.3
13	3.0	21	28	29	46	110	43	2.0	7.8	3.3	3.3	2.3
14	4.5	20	27	29	45	100	53	.76	9.7	3.6	2.9	2.3
15	3.0	21	28	28	42	87	57	.60	15	3.6	1.6	2.3
16	2.6	23	27	27	40	90	59	1.1	18	3.3	1.2	2.3
17	2.6	26	26	28	38	78	61	.92	14	3.0	9.2	2.3
18	2.8	29	25	27	37	68	59	1.1	8.2	2.3	4.5	2.3
19	3.9	32	25	26	38	64	55	1.1	4.8	2.1	2.8	2.6
20	5.2	32	26	26	39	62	48	.60	4.8	2.3	2.2	2.3
21	7.4	30	25	25	41	61	39	.60	5.6	2.3	2.8	2.3
22	13	29	24	25	44	57	37	.45	6.6	2.1	1.4	2.3
23	30	29	24	24	45	55	37	.60	7.0	2.1	6.6	2.3
24	28	32	25	24	44	53	37	4.1	7.8	2.1	3.0	2.3
25	23	34	26	23	43	56	39	39	7.8	1.7	2.3	2.3
26	23	32	24	23	47	60	35	24	8.2	1.5	1.9	2.6
27	24	31	22	22	54	65	30	18	7.4	1.7	2.3	2.6
28	26	30	19	22	60	71	30	103	6.2	2.1	2.6	2.3
29	35	29	16	21	---	74	24	263	5.6	1.7	2.6	2.3
30	33	31	14	21	---	74	26	201	5.2	1.5	3.0	2.3
31	33	---	13	20	---	67	---	132	---	1.3	3.0	---
TOTAL	327.6	887	782	711	1052	2288	1408	1075.93	667.9	91.9	257.74	74.3
MEAN	10.6	29.6	25.2	22.9	37.6	73.8	46.9	34.7	22.3	2.96	8.31	2.48
MAX	35	35	33	29	60	110	68	263	83	4.8	4.5	3.0
MIN	1.5	20	13	12	19	53	24	.45	4.8	1.3	.92	2.3
AC-FT	650	1760	1550	1410	2090	4540	2790	2130	1320	182	511	147
CAL YR 1978 TOTAL	23900.00			MEAN 65.5	MAX 1090	MIN 1.5	AC-FT 47410					
WTR YR 1979 TOTAL	9623.37			MEAN 26.4	MAX 263	MIN .45	AC-FT 19090					

WATER-QUALITY RECORDS

WATER TEMPERATURES: March 1951 to current year.

WATER TEMPERATURES: Maximum, 29.0°C July 29, 1968; minimum, 0.0°C on many days during winter period.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 5; minimum, 0.0°C on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT									
04...	1415	--	1.9	2200	--	14.0	1100	870	250
NOV									
02...	1045	--	33	1600	--	6.0	780	540	170
27...	1030	31	--	--	--	.0	690	440	160
JAN									
08...	1550	22	--	1100	--	.0	660	390	150
FEB									
07...	1245	30	--	1100	--	.5	570	330	130
MAR									
07...	1315	85	--	1050	--	.5	450	280	110
APR									
09...	1305	--	66	1100	--	8.0	480	260	110
MAY									
01...	1155	--	31	1250	8.4	12.0	640	420	140
24...	1445	--	.45	1700	8.2	18.5	930	720	190
JUN									
07...	1515	--	53	900	8.0	16.0	0	0	--
JUL									
10...	1155	--	3.3	1120	8.4	22.0	1200	920	240
AUG									
03...	1135	--	1.5	2500	8.0	17.5	1200	940	250
31...	1125	--	3.0	2500	8.3	14.5	1400	1100	270
SEP									
10...	1155	--	2.6	1120	8.4	22.0	--	--	--

[illegible]

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 04...	.6	17	1700	2.31	8.72	.54	410	20
NOV 02...	.4	22	1240	1.69	110	.14	260	20
27...	.4	23	1020	1.39	85.4	.06	190	100
JAN 08...	.4	21	982	1.34	58.3	.06	200	50
FEB 07...	.4	20	844	1.15	68.4	.16	160	10
MAR 07...	.4	13	699	.95	160	.18	160	40
APR 09...	.4	17	682	.93	122	.17	150	140
MAY 01...	.5	20	954	1.30	79.9	.01	200	10
24...	.6	17	1380	1.88	1.68	.07	300	10
JUN 07...	.4	17	469	.64	67.4	.16	110	--
JUL 10...	.6	14	1830	2.49	16.3	2.0	520	60
AUG 03...	.7	13	755	1.03	3.26	.98	460	50
31...	.8	22	2030	2.76	16.4	1.5	490	40
SEP 10...	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1560	1200	1340	1140	1040	1120	1200	695	2340	2460	2140
2	1690	1540	1140	1340	1140	1060	1130	1210	784	2420	2510	2100
3	1840	1520	1140	1360	1170	1060	1140	1200	916	2310	2320	2050
4	2060	1490	1160	1350	1170	1030	1240	1170	985	2340	2270	2090
5	1630	1490	1150	1360	1160	1010	1150	1250	1000	2280	2260	2070
6	2060	1500	1250	1280	1140	951	1090	1300	949	2350	2340	2150
7	1700	1490	1360	1210	1140	928	983	1390	821	2110	2240	2210
8	2030	1500	1500	1300	1150	868	915	1310	852	2190	2220	2150
9	1790	1520	1440	1260	1150	862	975	1260	891	2210	2100	2090
10	1910	1430	1360	1240	1130	883	943	1300	1110	2240	2260	2240
11	2020	1470	1270	1240	1100	826	968	1320	1280	1740	2230	1980
12	2090	1420	1260	1210	1130	801	1020	1330	1410	1700	2320	2110
13	1890	1440	1280	1220	1120	762	1070	1330	1530	1520	2370	2070
14	1630	1430	1310	1200	1120	770	1060	1550	1460	2260	2060	2210
15	1640	1420	1320	1200	1200	823	1000	1610	1200	2100	1510	2110
16	1680	1380	1340	1170	1140	819	936	1520	1120	1640	1460	2230
17	1510	1380	1330	1180	1100	835	936	1530	1240	1520	1630	2280
18	1700	1360	1380	1180	1070	919	904	1590	2210	2120	2120	2260
19	2080	1350	1360	1160	1100	955	954	1520	2050	2040	1480	2210
20	1490	1240	1300	1160	1080	1000	981	1700	2220	2380	1300	2180
21	1740	1300	1270	1140	1080	1050	1070	1690	2320	2270	1410	2200
22	1740	1230	1240	1160	1060	1060	1130	1730	2230	2180	1410	2210
23	1720	1290	1200	1170	1070	1050	1160	1720	2180	2380	1560	2250
24	1760	1290	1200	1160	1030	1060	1130	1860	2150	2130	1820	2220
25	1800	1320	1180	1160	1080	1010	1130	1020	2140	2110	1990	1770
26	1940	1280	1120	1140	1060	969	1130	1010	2070	2110	2000	2240
27	1980	1250	1250	1140	1040	1080	1140	1010	2120	2100	1970	2210
28	1970	1270	1200	1130	1050	1050	1230	815	2190	2170	2100	2280
29	1830	1230	1160	1140	---	1050	1210	585	2300	2230	2140	2280
30	1630	1120	1190	1150	---	1080	1220	507	2430	2190	2070	2250
31	1500	---	1280	1160	---	1080	---	714	---	2350	2260	---
MEAN	1800	1380	1260	1210	1110	959	1070	1300	1560	2130	2010	2160
WTR YR 1979	MEAN	1500	MAX	2510	MIN	507						

09229500 HENRYS FORK NEAR MANILA, UT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	7.5	.0	.0	.0	.0	6.0	12.0	18.0	21.0	25.0	19.0
2	15.0	9.5	.0	.0	.0	.0	6.0	8.0	19.5	21.0	21.0	19.5
3	11.0	10.0	.0	.0	.0	.0	5.5	12.0	20.5	21.0	21.0	17.5
4	13.0	8.0	.0	.0	.0	.5	5.0	14.0	22.0	21.5	23.0	18.0
5	12.0	5.0	.0	.0	.0	1.5	10.0	14.0	24.0	21.0	26.0	18.0
6	15.0	5.5	.0	.0	.0	1.5	11.0	12.0	20.0	21.5	23.0	22.0
7	14.5	7.0	.0	.0	.0	1.5	11.0	9.0	22.0	22.0	22.0	21.0
8	13.0	7.0	.0	.0	.0	2.5	10.5	7.0	10.0	23.0	22.5	20.0
9	14.5	5.0	.0	.0	.0	1.5	11.0	8.0	18.0	22.0	20.0	18.5
10	14.0	.0	.0	.0	.0	1.0	5.0	9.5	20.0	23.0	24.0	19.0
11	15.0	.0	.0	.0	.0	2.0	5.5	9.0	22.0	22.0	20.0	19.0
12	14.5	.5	.0	.0	.0	2.0	5.0	13.0	23.0	25.0	23.0	18.0
13	10.0	.0	.0	.0	.0	2.0	5.5	14.0	24.0	23.0	20.0	17.0
14	13.0	.0	.0	.0	.0	3.0	12.0	17.0	24.0	23.0	19.0	15.0
15	13.0	.0	.0	.0	.0	4.5	13.0	19.0	19.5	23.0	17.5	17.0
16	13.0	.0	.0	.0	.0	7.0	14.0	20.0	20.5	23.0	19.0	20.5
17	12.5	.0	.0	.0	.0	4.0	15.0	18.0	20.0	23.0	17.0	20.0
18	13.0	.0	.0	.0	.0	4.0	13.0	18.5	20.0	23.0	18.0	19.0
19	12.0	.0	.0	.0	.0	5.0	10.0	19.0	17.5	23.0	17.0	18.5
20	12.5	.0	.0	.0	.0	6.0	12.0	18.5	19.0	22.0	17.0	19.0
21	11.0	.0	.0	.0	.0	4.0	12.0	19.0	22.0	22.0	18.0	17.0
22	9.0	.0	.0	.0	.0	4.5	10.0	19.0	23.0	22.5	18.0	19.0
23	7.0	.0	.0	.0	.0	6.0	11.0	19.0	19.5	23.0	22.0	17.0
24	11.0	.0	.0	.0	.0	6.5	12.0	18.0	21.0	23.0	23.0	17.0
25	9.5	.0	.0	.0	.0	6.0	13.0	18.0	24.0	23.0	20.0	18.0
26	10.0	.0	.0	.0	1.0	5.5	13.5	23.0	22.0	23.0	20.0	17.0
27	10.0	.0	.0	.0	1.0	6.0	15.0	22.0	24.0	19.0	22.0	18.0
28	10.0	.0	.0	.0	.0	6.0	12.0	20.0	25.0	23.0	21.0	17.0
29	10.0	.0	.0	.0	---	6.5	14.5	16.0	21.0	25.0	19.0	15.0
30	9.0	.0	.0	.0	---	6.0	15.0	11.0	21.0	24.0	18.0	16.0
31	10.5	---	.0	.0	---	6.5	---	15.0	---	25.0	18.0	---
MEAN	12.0	2.0	.0	.0	.0	3.5	10.5	15.0	21.0	22.5	20.5	18.0
WTR YR 1979	MEAN	10.5		MAX	26.0		MIN	.0				

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (2.9 km) southwest of Dutch John, and 4.9 mi (7.9 km) northeast of Greendale.

DRAINAGE AREA.--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) 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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). Prior to Jan. 1, 1964, on left bank 600 ft (180 m) upstream from face of dam.

REMARKS.--Records excellent. 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 (4,670 hm³), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm³) below elevation 5,740 ft (1,750 m); inactive storage, 233,500 acre-ft (288 hm³) between elevations 5,740 ft (1,750 m) and 5,871 ft (1,789 m); usable contents, 3,516,000 acre-ft (4,340 hm³) between elevations 5,871 ft (1,789 m) and 6,040 ft (1,841 m), top of conservation pool. Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,753,000 acre-ft (4,630 hm³) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm³) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,715,000 acre-ft (3,350 hm³) June 27-28, elevation, 6,012.35 ft (1,832.564 m); minimum observed, 2,441,000 acre-ft (3,010 hm³) Apr. 12, elevation, 6,003.75 ft (1,829.943 m).

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

5,985	1,908,000	6,005	2,480,000
5,990	2,042,000	6,010	2,639,000
5,995	2,181,000	6,015	2,804,000
6,000	2,327,000	6,020	2,977,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2824	2785	2739	2669	2593	2497	2468	2478	2577	2710	2645	2612
2	2821	2785	2736	2665	2590	2492	2464	2480	2585	2710	2642	2611
3	2818	2785	2735	2663	2586	2486	2459	2482	2593	2710	2639	2609
4	2816	2785	2732	2661	2582	2481	2455	2485	2600	2710	2637	2608
5	2814	2784	2729	2661	2579	2478	2452	2488	2609	2708	2636	2607
6	2813	2783	2726	2658	2576	2475	2453	2490	2616	2704	2632	2604
7	2813	2782	2721	2657	2572	2475	2450	2492	2625	2704	2628	2604
8	2813	2781	2717	2654	2570	2477	2450	2494	2633	2702	2625	2603
9	2812	2781	2714	2650	2567	2476	2448	2498	2640	2698	2623	2600
10	2812	2780	2712	2647	2563	2476	2446	2501	2648	2697	2623	2600
11	2810	2779	2710	2644	2561	2478	2443	2503	2656	2694	2623	2598
12	2808	2779	2708	2642	2558	2480	2441	2507	2663	2692	2623	2597
13	2807	2776	2706	2641	2554	2481	2441	2510	2669	2689	2623	2596
14	2806	2772	2704	2639	2551	2482	2442	2511	2675	2685	2625	2595
15	2805	2768	2702	2637	2550	2482	2445	2514	2683	2683	2624	2594
16	2805	2765	2701	2633	2548	2485	2445	2517	2688	2680	2623	2593
17	2805	2761	2701	2632	2544	2485	2448	2519	2693	2679	2625	2593
18	2804	2761	2698	2630	2541	2485	2449	2520	2698	2678	2623	2592
19	2804	2761	2696	2628	2541	2484	2452	2523	2702	2678	2623	2591
20	2804	2759	2694	2626	2538	2482	2454	2526	2708	2679	2622	2590
21	2804	2757	2691	2624	2535	2479	2456	2530	2712	2678	2624	2588
22	2802	2754	2691	2621	2532	2477	2459	2532	2712	2677	2623	2588
23	2799	2752	2688	2618	2526	2477	2460	2532	2714	2674	2622	2588
24	2799	2752	2684	2616	2523	2478	2462	2534	2713	2671	2622	2587
25	2798	2750	2684	2613	2520	2479	2464	2534	2714	2670	2620	2583
26	2796	2749	2682	2611	2514	2478	2466	2537	2715	2666	2620	2581
27	2795	2746	2680	2608	2508	2477	2469	2542	2715	2667	2616	2578
28	2794	2744	2679	2605	2502	2477	2470	2547	2715	2663	2616	2575
29	2793	2741	2677	2602	---	2476	2473	2554	2715	2657	2615	2573
30	2791	2740	2676	2599	---	2474	2475	2561	2714	2652	2614	2571
31	2788	---	2673	2595	---	2471	---	2568	---	2648	2613	---
MAX	2824	2785	2739	2669	2593	2497	2475	2568	2715	2710	2645	2612
MIN	2788	2740	2673	2595	2502	2471	2441	2478	2577	2648	2613	2571
(+)	6014.52	6013.08	6011.07	6008.66	6005.70	6004.73	6004.84	6007.79	6012.30	6010.29	6009.20	6007.89
(+)	-37	-48	-67	-78	-93	-31	+4	+93	+146	-66	-35	-42
CAL YR 1978	MAX	2848	MIN	1978	(+)	+683						
WTR YR 1979	MAX	2824	MIN	2441	(+)	-254						

(+) Elevation, in feet, at end of month.

(+) Change in contents, in thousands of acre-feet.

171

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest, on right bank 0.5 mi (0.8 km) downstream from Flaming Gorge Dam, 2 mi (3 km) south of Dutch John, 4 mi (6 km) northeast of Greendale, and 407.0 mi (654.9 km) from mouth.

DRAINAGE AREA.--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²) is probably noncontributing. This noncontributing area includes 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming.

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.20 m), National Geodetic Vertical Datum of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

REMARKS.--Water-discharge records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream beginning Nov. 1, 1962 (see sta 09234400).

AVERAGE DISCHARGE.--29 years, 2,062 ft³/s (58.4 m³/s), 1,494,000 acre-ft/yr (1.84 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957, gage height, 10.60 ft (3.231 m), site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,530 ft³/s (128 m³/s) Mar. 27, gage height, 6.37 ft (1.942 m); minimum daily, 874 ft³/s (24.8 m³/s) Oct. 20.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1730	1830	2560	2560	3820	3310	1360	1240	1780	1700	1240
2	1890	902	1780	2080	2550	3820	3790	1900	1240	1910	2730	1240
3	1730	984	2050	2360	2630	3740	3640	1320	1240	1660	2080	1240
4	1850	876	2050	2030	2630	3420	3660	1280	1240	1320	1710	1920
5	1320	876	2210	2030	2660	3520	2910	1430	1240	2390	1240	1610
6	1210	1400	2610	2070	2590	2750	2120	1220	1240	1870	2830	1820
7	876	1190	2560	1550	2590	1160	1960	1730	1240	2040	2880	1230
8	928	980	2410	2540	2600	1590	1820	1640	1240	1900	2140	1230
9	1070	888	1970	2220	2600	2230	3360	1310	1240	2570	1760	1620
10	877	1390	893	2210	2610	924	3410	1220	1240	1860	1220	1540
11	1560	1520	2010	2170	2610	1000	3360	1220	1240	2260	1220	1540
12	1430	1280	2070	2560	2610	948	3180	1220	1260	1770	1220	1210
13	1190	2090	2230	2290	2610	1290	1960	1220	1730	2410	1220	1230
14	983	2140	1810	1850	2610	1640	1400	1570	1840	2680	1220	1230
15	875	2440	2130	2110	2620	1280	1240	1240	1870	1430	1220	1230
16	1170	2140	1340	2160	2620	1470	1630	1210	1220	2310	1410	1230
17	905	1950	1440	2280	2610	1800	1250	1210	1230	1340	1220	1230
18	875	1030	2070	2200	2570	1730	1620	1950	1380	1310	1220	1250
19	875	1300	2060	1940	1930	2850	1650	1230	1220	1210	1220	1230
20	874	2170	2040	2080	2150	3160	1240	1230	1220	1220	1220	1240
21	889	2050	2420	2080	2700	3360	1280	1230	1590	1530	1240	1230
22	1860	2250	2140	2080	3320	2720	1440	1690	1780	1350	1240	1220
23	1960	2180	1970	2140	3960	2270	2030	2000	1720	1930	1240	1220
24	925	1210	1580	2550	2850	1330	1670	2580	1670	2480	1240	1460
25	1110	1770	1170	2240	3840	1790	1230	2650	1220	2130	1240	2320
26	1330	1840	2050	2490	3940	3010	1300	1610	1740	2180	1390	2030
27	1240	2290	1820	2590	3940	3120	1240	1410	1750	2270	2440	1780
28	1600	2090	2090	2590	3890	1920	1270	1260	1740	2510	1270	1240
29	1150	1920	1940	2620	---	3180	1240	1240	1880	3300	1240	1240
30	1860	2010	1970	2500	---	3050	1290	1240	2340	3140	1240	1240
31	1900	---	1780	2520	---	2950	---	1240	---	2620	1240	---
TOTAL	39492	48886	60493	69690	79400	72842	62480	45390	44040	62680	47700	42290
MEAN	1274	1630	1951	2248	2836	2350	2083	1464	1468	2022	1539	1410
MAX	1960	2440	2610	2620	3960	3820	3790	2650	2340	3300	2880	2320
MIN	8											

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.

SUSPENDED SEDIMENT DISCHARGE: October 1956 to September 1959.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. 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 the files of Utah district office.

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 micromhos Aug. 30, 1961; minimum daily, 325 micromhos 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.

Water years 1964 to current year:

SPECIFIC CONDUCTANCE: Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 560 micromhos Mar. 1, 1977.

WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 14, 1963, July 17, Aug. 21, 28, 1978; minimum, 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 830 micromhos Jan. 18; minimum daily, 660 micromhos June 11, 14, 18, 22, 25.

WATER TEMPERATURES: Maximum, 13.5°C on several days during October; minimum, 3.0°C Feb. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)
OCT 06...	0845	1390	780	8.2	13.0	.70	7.2	K1	K2	280	120
NOV 29...	0930	2600	770	8.0	6.5	.10	7.8	K1	<1	280	130
DEC 28...	1200	2570	800	8.4	4.5	.20	8.5	K2	K2	300	150
JAN 18...	1345	2590	830	8.3	4.0	.40	8.5	<1	K1	280	120
FEB 22...	1500	4010	790	8.1	3.0	.60	9.9	<1	K3	290	130
MAR 14...	1315	923	800	8.3	4.5	.30	10.2	<1	K3	290	140
APR 20...	1100	1240	700	8.3	6.5	.50	8.3	<1	<1	280	130
MAY 18...	0915	1220	670	8.5	8.0	1.0	9.5	K1	K3	220	62
JUN 22...	1000	1180	660	8.4	11.5	1.5	8.3	<1	K3	250	84
AUG 15...	0930	1220	680	8.3	12.5	--	7.5	<1	1800	--	--
SEP 14...	0830	1240	710	8.2	13.0	1.2	6.4	<1	5	240	100

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

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 06...	66	29	67	1.7	--	2.7	190	0	156	250	21
NOV 29...	64	28	68	1.8	--	2.7	--	--	150	260	23
DEC 28...	71	29	72	1.8	--	3.1	--	--	150	280	21
JAN 18...	64	28	69	1.8	--	3.5	190	0	156	240	19
FEB 22...	68	28	61	1.6	--	2.6	190	0	156	250	17
MAR 14...	72	26	69	1.8	--	2.8	180	0	148	240	18
APR 20...	67	27	61	1.6	64	2.7	180	0	148	210	16
MAY 18...	66	14	57	1.7	60	2.6	180	6	158	190	15
JUN 22...	59	24	56	1.6	58	2.4	180	11	166	210	17
AUG 15...	--	--	--	--	--	--	180	0	148	--	--
SEP 14...	57	23	56	1.6	59	2.6	170	0	139	220	16

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, NO2+NO3 DIS- SOLVED 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 TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 06...	.3	2.1	532	532	.72	2000	.51	--	.00	--	.72
NOV 29...	.3	2.6	559	539	.73	3780	.59	--	.01	--	.41
DEC 28...	.2	2.9	555	569	.77	3950	.47	--	.01	--	.36
JAN 18...	.2	2.9	548	520	.71	3640	.57	--	.00	--	.25
FEB 22...	.2	3.6	539	524	.71	5670	.53	--	.04	--	.28
MAR 14...	.3	3.5	526	520	.71	1300	.47	--	.04	--	.22
APR 20...	.3	3.7	514	476	.65	1590	.43	--	.02	.02	.23
MAY 18...	.3	3.3	466	443	.60	1460	.34	--	.01	.01	.27
JUN 22...	.2	2.7	460	471	.64	1500	.28	--	.02	.02	.40
AUG 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	.3	2.8	469	463	.63	1550	.26	.25	.01	.01	.51

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	.72	.09	.63	1.2	5.4	--	.02	--	--	.01	--
NOV 29...	.42	.00	.45	1.0	4.5	--	.00	--	--	.00	3.7
DEC 28...	.37	.02	.35	.84	3.7	--	.00	--	--	.00	6.7
JAN 18...	.25	.05	.20	.82	3.6	--	.09	--	--	.01	--
FEB 22...	.32	.07	.25	.85	3.8	--	.02	--	--	.01	6.7
MAR 14...	.26	.00	.29	.73	3.2	--	.01	--	--	.01	9.9
APR 20...	.25	.02	.23	.68	3.0	--	.01	.03	.03	.01	--
MAY 18...	.28	.06	.22	.62	2.7	--	.01	.03	.03	.01	4.3
JUN 22...	.42	.41	.01	.70	3.1	--	.02	.06	.06	.02	4.6
AUG 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	.52	.03	.49	.78	3.5	.74	.01	--	.03	.02	28

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	5.2	.5	36000	--	--	--	--	--	3	11	79
NOV 29...	--	--	3900	3.39	4.80	--	31.2	.000	2	14	58
DEC 28...	--	--	--	--	--	--	--	--	1	6.9	88
JAN 18...	7.6	.2	--	--	--	--	--	--	1	7.0	50
FEB 22...	--	--	--	--	--	--	--	--	2	22	44
MAR 14...	--	--	43	--	--	--	--	--	1	2.5	83
APR 20...	5.3	.2	--	3.78	4.96	65.2	18.1	3.67	0	.00	80
MAY 18...	--	--	52	--	--	--	--	--	4	13	20
JUN 22...	--	--	140	--	--	--	--	--	10	32	60
AUG 15...	--	--	65	1.34	1.81	43.9	10.7	2.39	4	13	36
SEP 14...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 06...	0845	1	2	0	0	0	130	1	0	3
NOV 29...	0930	--	--	--	--	--	130	--	--	--
JAN 18...	1345	2	2	0	0	80	120	0	0	4
FEB 22...	1500	--	--	--	--	--	120	--	--	--
MAR 14...	1315	--	--	--	--	--	120	--	--	--
APR 20...	1100	2	1	0	0	0	--	2	0	6
MAY 18...	0915	--	--	--	--	--	0	--	--	--
JUN 22...	1000	--	--	--	--	--	100	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

[illegible]

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

[illegible]

LOCATION.--Lat 41°00'54", long 108°38'39", in NE4SE4NE4 sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from the Wyoming-Colorado State line, 2.3 mi (3.7 km) northwest of Hiaswatha, CO, and 49 mi (79 km) southwest of Rock Springs, WY.

WATER-DISCHARGE RECORDS

REMARKS.--Records poor. No gage-height record Dec. 24 to Jan. 15, Jan. 31 to Feb. 6, Apr. 2-4, June 4-8, July 11 to Aug. 2. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft³/s (13.0 m³/s) Aug. 20, gage height, 5.19 ft (1.582 m); no flow for many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.43	.41	.00	.00	1.0	1.4	5.0	15	2.3	2.1	.74
2	.30	.45	.38	.00	.00	1.0	1.2	6.6	15	3.7	2.1	.69
3	.30	.46	.42	.00	.00	1.0	1.4	4.8	14	2.3	1.9	.50
4	.34	.41	.46	.00	.00	1.1	1.6	4.0	10	2.1	1.7	.38
5	.34	.42	.50	.00	.00	1.2	1.8	3.7	8.5	2.3	1.8	.26
6	.34	.33	.45	.00	.01	1.4	2.6	4.0	7.4	2.8	1.8	.27
7	.34	.37	.40	.00	.01	1.4	3.8	4.8	6.9	2.8	1.9	.26
8	.34	.45	.34	.00	.02	1.3	4.5	7.9	7.5	2.4	2.1	.26
9	.34	.43	.30	.00	.03	1.3	6.5	7.9	7.9	2.8	2.1	.26
10	.34	.10	.32	.00	.05	1.3	7.9	5.8	6.2	3.0	2.8	.30
11	.34	.03	.31	.01	.10	1.2	5.1	5.0	5.8	2.8	2.6	.30
12	.30	.03	.28	.01	.20	1.3	5.3	6.6	5.5	2.8	2.6	.30
13	.30	.02	.26	.00	.50	1.5	7.3	5.0	5.0	2.7	4.0	.38
14	.38	.03	.24	.00	1.0	1.6	9.9	5.0	4.8	2.7	3.5	.42
15	.42	.05	.23	.00	1.0	1.8	14	6.2	4.8	2.7	2.8	.38
16	.42	.10	.21	.00	.97	2.0	26	5.0	4.2	2.7	3.0	.42
17	.42	.14	.20	.00	.94	2.0	28	5.0	4.0	2.7	3.5	.42
18	.42	.20	.18	.00	.87	1.8	48	4.5	3.7	2.6	4.6	.46
19	.42	.30	.17	.00	.83	1.6	27	5.5	3.7	2.5	9.5	.46
20	.42	.40	.18	.00	.79	1.3	11	5.8	4.0	2.7	196	.46
21	.54	.36	.18	.00	.79	1.7	11	7.1	3.7	2.6	35	.50
22	.54	.36	.19	.00	.79	1.4	11	7.5	3.2	2.5	3.2	.50
23	.46	.38	.20	.00	.79	1.4	11	10	3.5	2.4	2.3	.50
24	.45	.39	.21	.00	.79	1.6	8.3	14	3.2	2.3	2.0	.50
25	.48	.40	.18	.00	.85	1.8	5.8	19	3.0	2.3	1.8	.50
26	.41	.38	.14	.00	.90	2.3	5.5	18	2.4	2.3	1.6	.59
27	.44	.36	.10	.00	.96	2.3	5.3	16	2.4	2.3	1.5	.69
28	.41	.39	.05	.00	1.0	1.9	5.0	19	2.6	2.2	1.3	.69
29	.41	.41	.03	.00	---	1.8	5.3	24	2.4	2.1	1.2	.69
30	.41	.44	.02	.00	---	1.7	5.3	18	2.1	2.1	.96	.64
31	.41	---	.01	.00	---	1.6	---	21	---	2.1	.85	---
TOTAL	12.12	9.02	7.55	.02	14.19	47.6	287.8	281.7	172.4	78.6	304.11	13.72
MEAN	.39	.30	.24	.001	.51	1.54	9.59	9.09	5.75	2.54	9.81	.46
MAX	.54	.46	.50	.01	1.0	2.3	48	24	15	3.7	196	.74
MIN	.30	.02	.01	.00	.00	1.0	1.2	3.7	2.1	2.1	.85	.26
AC-FT	24	18	15	.04	28	94	571	559	342	156	603	27
CAL YR 1978	TOTAL	666.78		MEAN 1.88	MAX 120	MIN .00	AC-FT 1360					
WTR YR 1979	TOTAL	1228.83		MEAN 3.37	MAX 196	MIN .00	AC-FT 2440					

GREEN RIVER BASIN
09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--No flow observed Jan. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
02...	1415	--	.30	2700	--	15.0	6	--	--	--
26...	1130	--	.34	1850	8.2	2.0	3	--	10.6	1.6
27...	1035	--	.42	1250	--	.0	25	--	--	--
NOV										
23...	0710	.38	--	1800	8.1	.0	33	--	11.3	1.5
DEC										
04...	1425	.46	--	1350	--	.0	35	--	--	--
19...	1130	.17	--	2200	8.1	.0	1	--	11.2	1.4
FEB										
06...	1400	.01	--	2800	--	.0	1	--	--	--
22...	1120	--	.79	2400	8.0	.0	31	--	10.6	2.1
MAR										
06...	1440	--	1.7	1400	--	.0	280	--	--	--
30...	1000	1.7	--	2000	8.2	.0	230	--	10.8	3.2
APR										
04...	1245	--	2.6	2000	--	.0	550	--	--	--
27...	1000	--	5.3	2600	8.3	8.0	600	--	9.8	--
MAY										
04...	1540	--	3.0	1900	--	17.5	2000	--	--	--
18...	1330	--	4.0	1300	--	20.0	700	--	--	--
JUN										
01...	1100	--	14	1210	8.3	11.0	-- 1000	--	8.6	2.0
07...	1415	--	7.1	1400	--	18.5	700	--	--	--
22...	1130	--	3.5	1370	8.3	19.0	-- 270	--	7.4	2.6
JUL										
06...	1340	--	2.4	1450	--	23.0	220	--	--	--
AUG										
01...	1700	2.1	--	1170	8.4	26.0	-- 92	--	7.5	3.2
02...	1345	--	2.1	1160	--	25.5	180	--	--	--
24...	1110	--	2.0	1500	--	19.0	340	--	--	--
28...	1630	--	1.2	1440	8.3	22.0	-- 68	--	6.8	2.2
SEP										
06...	1330	--	.04	2700	--	25.0	6	--	--	--
25...	1720	--	.50	1500	8.5	19.0	-- 3.2	--	8.4	3.7

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
26...	660	320	150	69	230	3.9	--	5.2	410	0
27...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	590	150	120	70	230	4.1	--	4.3	530	0
DEC										
04...	--	--	--	--	--	--	--	--	--	--
19...	830	480	190	86	250	3.8	260	5.4	420	0
FEB										
06...	--	--	--	--	--	--	--	--	--	--
22...	700	290	140	84	290	4.8	--	4.4	490	0
MAR										
06...	--	--	--	--	--	--	--	--	--	--
30...	620	250	130	72	240	4.2	--	5.2	450	0
APR										
04...	--	--	--	--	--	--	--	--	--	--
27...	770	460	150	95	310	4.9	310	4.1	370	0
MAY										
04...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	430	120	83	53	120	2.5	120	2.1	380	0
07...	--	--	--	--	--	--	--	--	--	--
22...	440	74	67	65	160	3.3	160	4.1	440	0
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	310	0	40	51	140	3.5	140	4.1	400	0
02...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
28...	470	180	87	61	150	3.0	150	4.5	350	0
SEP										
06...	--	--	--	--	--	--	--	--	--	--
25...	0	--	--	--	--	--	--	4.5	--	--

GREEN RIVER BASIN

179

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALKA- LITY (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 TOTAL (MG/L AS N)
OCT									
02...	--	--	--	--	--	--	--	--	--
26...	340	760	37	.4	10	1460	1.99	1.34	.08
27...	--	--	--	--	--	--	--	--	--
NOV									
23...	430	620	38	.3	11	1360	1.85	1.40	.18
DEC									
04...	--	--	--	--	--	--	--	--	--
19...	340	970	36	.3	10	1760	2.39	.81	.16
FEB									
06...	--	--	--	--	--	--	--	--	--
22...	400	820	39	.3	12	1630	2.22	3.48	.23
MAR									
06...	--	--	--	--	--	--	--	--	--
30...	370	700	31	.3	8.9	1410	1.92	6.47	.33
APR									
04...	--	--	--	--	--	--	--	--	--
27...	300	1000	35	.3	9.3	1790	2.43	25.6	.39
MAY									
04...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
JUN									
01...	310	320	16	.4	12	794	1.08	30.0	.09
07...	--	--	--	--	--	--	--	--	--
22...	360	380	18	.3	13	925	1.26	8.74	.05
JUL									
06...	--	--	--	--	--	--	--	--	--
AUG									
01...	330	270	17	.4	15	735	1.00	4.17	.05
02...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
28...	290	470	22	.3	14	981	1.33	3.18	.03
SEP									
06...	--	--	--	--	--	--	--	--	--
25...	300	--	--	.4	--	185	.25	.25	.05

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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 NO3)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT									
02...	--	--	--	--	--	--	--	--	--
26...	.03	--	.57	.60	.68	3.0	.02	--	--
27...	--	--	--	--	--	--	--	--	--
NOV									
23...	.05	--	.61	.66	.84	3.7	.05	--	--
DEC									
04...	--	--	--	--	--	--	--	--	--
19...	.05	.06	.35	.40	.56	2.5	.02	--	.06
FEB									
06...	--	--	--	--	--	--	--	--	--
22...	.07	--	.63	.70	.93	4.1	.04	--	--
MAR									
06...	--	--	--	--	--	--	--	--	--
30...	.08	--	1.2	1.3	1.6	7.2	.40	--	--
APR									
04...	--	--	--	--	--	--	--	--	--
27...	.06	.07	1.6	1.7	2.1	9.3	.12	.37	.37
MAY									
04...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
JUN									
01...	.05	.06	2.9	3.0	3.1	14	1.3	4.0	4.0
07...	--	--	--	--	--	--	--	--	--
22...	.02	.02	1.9	1.9	2.0	8.6	.30	.92	.92
JUL									
06...	--	--	--	--	--	--	--	--	--
AUG									
01...	.03	.04	1.1	1.1	1.2	5.1	.01	--	.03
02...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
28...	.02	.02	.93	.95	.98	4.3	.08	--	.25
SEP									
06...	--	--	--	--	--	--	--	--	--
25...	.00	.00	--	--	--	--	--	--	--

GREEN RIVER BASIN

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRU- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 26...	1130	160	0	1	1	0	0	160	1	2	0	10
NOV 23...	0710	--	--	--	--	--	--	170	--	--	--	--
DEC 19...	1130	--	--	--	--	--	--	180	--	--	--	--
FEB 22...	1120	1700	--	2	--	10	--	180	0	--	10	--
MAR 30...	1000	--	--	--	--	--	--	140	--	--	--	--
APR 27...	1000	10000	--	10	--	0	--	180	2	--	20	--
JUN 01...	1100	--	--	--	--	--	--	120	--	--	--	--
JUN 22...	1130	--	--	--	--	--	--	170	--	--	--	--
AUG 01...	1700	20	--	3	--	0	--	170	11	--	10	--
AUG 28...	1630	--	--	--	--	--	--	160	--	--	--	--

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 26...	4	4	350	--	60	2	3	60	70	210	200
NOV 23...	--	--	--	--	60	--	--	--	--	--	--
DEC 19...	--	--	--	--	80	--	--	--	--	--	--
FEB 22...	8	--	2900	--	60	38	--	90	--	330	--
MAR 30...	--	--	--	--	90	--	--	--	--	--	--
APR 27...	21	--	20000	20000	40	15	--	130	--	620	--
JUN 01...	--	--	--	--	20	--	--	--	--	--	--
JUN 22...	--	--	--	--	40	--	--	--	--	--	--
AUG 01...	8	--	3200	3200	--	4	--	60	--	120	--
AUG 28...	--	--	--	--	40	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 26...	.0	.0	8	8	4	4	0	0	.0	10	20
NOV 23...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
FEB 22...	.0	--	5	--	4	--	1	--	--	30	--
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
APR 27...	.0	--	6	--	21	--	2	--	--	90	--
JUN 01...	--	--	--	--	--	--	--	--	--	--	--
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	.0	--	7	--	6	--	1	--	--	60	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED (PCI/L METHOD AS U)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 26...	1130	<19	<.4	<6.5	.8	<5.9	.9	.08	19

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
OCT										
02...	1415	15.0	--	.30	15	.01	--	--	--	--
27...	1035	.0	--	.42	95	.11	--	--	--	--
DEC										
04...	1425	.0	.46	--	130	.16	--	--	--	--
FEB										
06...	1400	.0	.01	--	52	.00	--	--	--	--
MAR										
06...	1440	.0	--	1.7	526	2.4	--	--	--	--
APR										
04...	1245	.0	--	2.6	1400	9.8	--	--	--	--
MAY										
04...	1540	17.5	--	3.0	2690	22	76	95	100	--
18...	1330	20.0	--	4.0	2100	23	--	--	--	--
JUN										
07...	1415	18.5	--	7.1	1770	34	44	67	92	99
JUL										
06...	1340	23.0	--	2.4	398	2.6	--	--	--	--
AUG										
02...	1345	25.5	--	2.1	202	1.1	--	--	--	--
24...	1110	19.0	--	2.0	444	2.4	--	--	--	--
SEP										
06...	1330	25.0	--	.04	76	.01	--	--	--	--

[illegible]

GREEN RIVER BASIN

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 2,000 acres (8.09 km²) above station.

AVERAGE DISCHARGE.--34 years, 227 ft³/s (6.429 m³/s), 164,500 acre-ft/yr (203 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 28	2400	*2,920 82.7	7.88 2.402	June 14	2400	2,260 64.0	7.17 2.185
June 6	2400	2,300 65.1	7.20 2.195				

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	25	23	24	31	47	28	519	1400	755	68	29
2	23	26	24	23	32	46	28	567	1380	689	64	26
3	22	26	25	22	33	45	28	499	1470	583	58	24
4	25	25	26	23	32	50	29	412	1640	520	53	23
5	23	25	27	24	32	45	30	664	1830	446	49	22
6	23	20	28	26	35	48	40	827	2070	416	45	21
7	23	20	29	28	35	52	50	616	2040	406	42	21
8	23	20	30	28	33	49	53	472	1820	338	40	20
9	23	19	29	27	34	54	59	410	1520	298	51	20
10	23	19	28	26	38	46	63	339	1350	261	46	20
11	23	19	27	26	41	44	57	301	1390	232	43	25
12	23	20	26	27	40	40	51	274	1530	208	37	24
13	22	18	25	29	40	39	49	331	1780	183	36	23
14	22	17	26	30	40	38	55	567	2010	166	42	24
15	23	17	27	30	40	38	77	825	2090	150	52	24
16	23	18	28	32	38	37	105	1130	1870	138	45	24
17	23	18	29	31	38	37	140	1330	1670	129	58	23
18	24	18	30	32	37	37	208	1480	1450	118	47	22
19	25	17	31	32	36	36	242	1650	1290	108	62	22
20	25	17	30	30	40	39	210	1680	1140	103	68	22
21	28	17	29	30	43	33	229	1740	1020	115	62	23
22	42	17	28	31	43	32	270	1800	1010	104	53	23
23	33	16	27	29	43	35	309	1830	1020	94	43	23
24	30	17	26	30	46	31	407	1960	1020	102	38	23
25	34	18	25	33	45	31	372	2080	1010	90	34	23
26	23	19	24	34	44	29	346	2110	996	87	31	24
27	25	20	25	33	46	29	383	2230	955	86	30	30
28	25	21	25	33	45	30	443	2480	905	85	29	32
29	25	22	25	32	---	29	441	2380	851	81	27	29
30	27	22	25	32	---	29	486	1840	795	78	26	28
31	27	---	25	31	---	28	---	1560	---	73	30	---
TOTAL	783	593	832	898	1080	1203	5288	36903	42322	7242	1409	717
MEAN	25.3	19.8	26.8	29.0	38.6	38.8	176	1190	1411	234	45.5	23.9
MAX	42	26	31	34	46	54	486	2480	2090	755	68	32
MIN	22	16	23	22	31	28	28	274	795	73	26	20
AC-FT	1550	1180	1650	1780	2140	2390	10490	73200	83950	14360	2790	1420
CAL YR 1978 TOTAL		112843		MEAN 309	MAX 2400	MIN 16	AC-FT 223800					
WTR YR 1979 TOTAL		99270		MEAN 272	MAX 2480	MIN 16	AC-FT 196900					

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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)	BICAR- BONATE (MG/L AS HCO3)
OCT												
04...	--	E25	190	6.5	--	--	--	--	--	--	--	--
25...	1425	28	--	5.5	58	0	17	4.0	14	.8	1.4	85
NOV												
15...	--	E17	200	.5	--	--	--	--	--	--	--	--
27...	1545	E20	--	.0	77	0	23	4.8	15	.7	.2	100
DEC												
18...	--	E30	190	.0	--	--	--	--	--	--	--	--
21...	1200	E29	--	.0	65	3	19	4.3	12	.6	.9	76
JAN												
18...	0850	E32	--	.0	68	0	20	4.3	12	.6	1.9	95
FEB												
16...	0930	E38	--	.0	73	0	22	4.5	13	.7	1.3	99
MAR												
15...	--	E38	190	.0	--	--	--	--	--	--	--	--
28...	1300	30	--	.5	72	0	21	4.7	12	.6	1.2	99
APR												
26...	--	E350	130	2.5	--	--	--	--	--	--	--	--
26...	1450	320	--	3.0	54	4	15	3.9	6.5	.4	1.5	61
MAY												
15...	--	E825	105	4.0	--	--	--	--	--	--	--	--
23...	1645	1750	--	9.5	28	0	4.9	3.8	2.0	.2	.3	37
JUN												
26...	1910	820	--	14.0	18	0	5.4	1.2	2.0	.2	.0	24
JUL												
19...	1430	83	--	20.5	34	4	9.7	2.4	4.7	.4	.9	37
AUG												
16...	1415	50	--	16.0	58	0	18	3.2	8.0	.5	.8	70
22...	--	E53	240	18.0	--	--	--	--	--	--	--	--
SEP												
26...	1410	24	--	13.5	73	0	22	4.3	16	.8	2.5	100

E-Estimate.

DATE	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	0	70	15	4.4	.2	15	113	.15	8.54	.00	--	.02
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
27...	0	82	23	3.7	.3	19	138	.19	--	.05	--	.02
DEC												
18...	--	--	--	--	--	--	--	--	--	--	--	--
21...	0	62	21	3.7	.3	19	118	.16	--	.11	--	.04
JAN												
18...	0	78	14	4.4	.3	--	103	.14	--	.09	--	.02
FEB												
16...	0	81	14	6.2	.3	18	129	.18	--	.14	--	.03
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
28...	0	81	9.9	2.4	.2	18	118	.16	9.56	.00	--	.02
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	0	50	12	2.4	.2	14	86	.12	74.3	.14	--	.06
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
23...	0	30	.8	1.1	.1	9.5	40	.06	191	.00	--	.04
JUN												
26...	0	20	4.9	.5	.1	11	38	.05	84.1	.09	--	.01
JUL												
19...	0	30	7.4	1.5	.1	11	56	.08	12.6	.00	--	.03
AUG												
16...	3	62	6.6	1.7	.2	9.4	89	.12	12.0	.00	--	.01
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
26...	3	87	12	6.0	.3	14	130	.18	8.42	--	.08	.02

GREEN RIVER BASIN

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 26...	1910	.00	0	.00	0	.00	.0
JUL 19...	1430	--	0	--	0	--	.0
AUG 16...	1415	.00	0	.00	0	.00	.0
SEP 26...	1410	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
JUN 26...	.00	0	.00	0
JUL 19...	--	0.3	--	0
AUG 16...	.00	0	.00	0
SEP 26	.00	0	.00	0

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

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. Altitude of gage is 6,600 ft (2,012 m), from river profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, May 19 to July 18, which are fair. Diversions for irrigation of about 500 acres (2.02 km²) above station.

AVERAGE DISCHARGE.--48 years (water years 1932-79), 73.7 ft³/s (2.087 m³/s), 53,400 acre-ft/yr (65.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; maximum gage height, 10.98 ft (3.347 m) May 28, 1979, from floodmark; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 430 ft³/s (12 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 28	unknown	*1,540 43.6	a10.98 3.347

a-From floodmark.

Minimum daily discharge, 4.6 ft³/s (0.13 m³/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	19	20	21	18	22	205	500	250	8.5	5.6
2	13	18	19	20	21	17	22	224	490	210	9.1	4.9
3	14	19	19	20	21	16	20	221	495	180	9.3	4.8
4	14	18	18	20	20	16	23	169	510	170	8.6	4.6
5	14	18	18	21	19	17	23	241	530	160	7.9	4.9
6	14	14	17	21	19	18	28	313	545	140	7.1	4.8
7	14	15	17	21	19	9.0	37	246	650	120	6.8	4.8
8	14	19	17	22	19	20	40	193	600	100	6.3	4.7
9	14	18	18	22	19	20	45	165	515	80	7.2	4.7
10	14	18	19	22	19	21	53	142	480	70	8.0	4.9
11	14	16	20	22	19	21	44	129	475	52	7.2	7.2
12	14	23	20	22	19	22	40	123	500	48	6.0	7.1
13	14	22	20	23	19	24	38	143	550	45	6.2	7.0
14	14	20	20	24	18	22	41	217	600	40	6.3	7.4
15	14	23	20	24	18	23	63	352	650	35	5.3	7.3
16	15	21	20	24	17	23	92	489	600	30	6.6	7.4
17	15	21	20	24	17	22	119	586	550	28	8.6	7.2
18	16	21	20	23	16	22	166	600	505	25	8.7	6.9
19	16	21	20	23	16	20	172	640	475	23	17	6.9
20	16	21	20	22	17	23	120	630	445	19	21	7.3
21	18	21	20	22	18	21	128	620	410	17	32	7.7
22	29	21	20	22	18	22	146	635	410	17	21	7.9
23	27	19	20	22	18	23	169	635	400	15	14	8.0
24	24	18	20	22	18	24	203	650	400	25	11	8.8
25	24	18	20	22	18	23	192	650	400	26	8.4	9.7
26	18	19	20	22	18	23	168	680	400	17	7.5	9.3
27	20	19	20	22	18	24	173	700	370	14	6.7	11
28	19	19	20	22	18	24	187	740	350	14	6.3	11
29	18	19	20	21	---	22	187	780	310	13	5.3	11
30	18	20	20	21	---	21	201	660	270	11	5.0	11
31	18	---	20	21	---	22	---	580	---	10	6.2	---
TOTAL	519	577	601	679	517	643.0	2962	13358	14385	2004	295.1	215.8
MEAN	16.7	19.2	19.4	21.9	18.5	20.7	98.7	431	480	64.6	9.52	7.19
MAX	29	23	20	24	21	24	203	780	650	250	32	11
MIN	13	14	17	20	16	9.0	20	123	270	10	5.0	4.6
AC-FT	1030	1140	1190	1350	1030	1280	5880	26500	28530	3970	585	428
CAL YR 1978	TOTAL	32091.9	MEAN	87.9	MAX	656	MIN	3.8	AC-FT	63650		
WTR YR 1979	TOTAL	36755.9	MEAN	101	MAX	780	MIN	4.6	AC-FT	72910		

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

WATER-DISCHARGE RECORDS

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).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m), National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum, and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records good except those for periods of ice-affect, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (90.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 25	1600	*4,940 140	10.20 3.109	June 15	1030	3,830 108	9.27 2.825
June 7	1030	3,800 108	9.25 2.819				

Minimum daily discharge during period of operation, 0.02 ft³/s (0.001 m³/s) Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	36					144	1460	2300	1040	2.5	4.2
2	15	35					144	1610	2110	966	2.3	4.6
3	14	30					126	1810	2210	834	2.1	1.2
4	14	30					138	1190	2530	702	2.1	.29
5	16	27					157	1560	2790	630	1.9	.13
6	17	27					170	2430	3260	522	1.9	.10
7	19	20					231	1880	3490	518	1.5	.13
8	19	18					263	1440	3060	432	1.2	.02
9	20	24					315	1180	2650	360	1.3	.02
10	23	26					374	1030	2160	311	2.5	.08
11	20	24					315	894	2110	259	2.1	.36
12	18	24					267	870	2380	207	1.7	.81
13	18	23					243	906	2760	170	2.1	.68
14	16	22					259	1430	3240	132	3.1	.36
15	16	20					387	2110	3550	88	2.8	.16
16	16	21					605	2860	3140	59	2.8	.13
17	12	23					804	3290	2770	48	2.5	.10
18	13	26					1060	3500	2390	35	3.8	.08
19	15	35					1270	3870	2060	16	3.4	.04
20	16	43					846	3870	1840	6.0	77	.06
21	21	40					828	3720	1540	5.5	138	.08
22	32	42					924	3880	1440	8.5	92	.20
23	55	44					1010	3770	1440	7.0	50	.68
24	48	47					1300	4020	1450	12	31	1.9
25	43	52					1260	4460	1430	12	19	4.2
26	43	60					1000	4090	1440	9.5	15	8.0
27	36	---					1040	4220	1360	8.0	10	19
28	34	---					1220	4300	1280	6.0	6.5	30
29	35	---					1260	4150	1180	5.5	2.8	21
30	35	---					1360	3650	1060	4.2	1.9	2.1
31	36	---					---	2790	---	3.1	2.1	---
TOTAL	751	---					19320	82240	66420	7416.3	488.9	100.71
MEAN	24.2	---					644	2653	2214	239	15.8	3.36
MAX	55	---					1360	4460	3550	1040	138	30
MIN	12	---					126	870	1060	3.1	1.2	.02
AC-FT	1490	---					38320	163100	131700	14710	970	200

GREEN RIVER BASIN

187

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT				
25...	1245	45	24	2.9
NOV				
27...	1400	74	54	11
MAR				
28...	1130	184	30	15
APR				
26...	1300	918	186	461
MAY				
08...	1055	1410	196	746
JUN				
26...	1700	1430	59	228
JUL				
19...	1155	19	8	.41
AUG				
16...	1215	3.4	10	.09
SEP				
26...	1150	8.5	8	.18

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, CO, Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m³).

AVERAGE DISCHARGE.--26 years, 9.66 ft³/s (0.274 m³/s), 7,000 acre-ft/yr (8.63 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955, and for many days July to September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (2.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 18	2100	*212 6.00	4.81 1.467	June 14	2400	98 2.78	3.94 1.201
May 2	1900	204 5.78	4.75 1.448				

Minimum daily discharge, 0.42 ft³/s (0.012 m³/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	1.6	1.8	1.4	1.3	1.3	13	40	18	36	3.5	1.9
2	.76	1.6	1.7	1.3	1.3	1.3	9.4	81	17	37	6.2	1.6
3	.80	1.6	1.7	1.3	1.3	1.3	5.3	67	21	31	11	1.4
4	1.1	1.6	1.6	1.3	1.3	1.4	3.9	32	29	25	10	1.4
5	1.5	1.4	1.6	1.3	1.3	1.4	5.6	56	37	22	9.9	1.3
6	1.5	.74	1.5	1.3	1.3	1.5	12	51	46	20	9.7	1.3
7	1.5	.47	1.5	1.3	1.3	1.6	14	35	46	19	9.4	1.3
8	1.7	1.5	1.4	1.3	1.3	1.8	15	24	36	17	9.3	1.3
9	1.8	1.3	1.4	1.3	1.3	2.0	17	27	25	16	9.8	1.2
10	1.7	.83	1.3	1.3	1.3	2.2	14	18	20	14	9.0	1.8
11	1.6	.42	1.3	1.3	1.3	2.6	13	17	26	12	8.0	2.1
12	1.7	1.8	1.2	1.3	1.3	3.0	3.0	18	40	10	5.2	1.7
13	1.7	1.1	1.2	1.3	1.3	3.5	9.5	22	61	9.0	3.8	1.6
14	1.4	.49	1.1	1.3	1.3	4.1	26	30	76	7.9	4.0	1.6
15	1.6	1.2	.98	1.3	1.3	5.1	63	42	79	7.0	3.7	1.4
16	1.7	2.0	.77	1.3	1.3	5.7	64	52	61	6.3	3.6	1.4
17	1.8	2.1	.53	1.3	1.3	6.0	87	52	53	5.8	4.2	1.3
18	2.0	3.4	1.5	1.3	1.3	15	106	51	44	6.3	3.5	1.2
19	2.0	3.6	1.4	1.3	1.3	12	58	51	31	7.8	4.8	1.2
20	2.0	3.4	1.4	1.3	1.3	9.7	28	47	23	7.2	7.7	1.3
21	2.8	3.1	1.4	1.3	1.3	9.8	33	46	23	6.8	7.7	1.3
22	3.9	2.8	1.4	1.3	1.3	12	41	44	28	6.9	3.7	1.3
23	2.7	1.9	1.4	1.3	1.3	10	62	43	34	6.4	3.0	1.2
24	2.6	1.8	1.4	1.3	1.3	11	60	44	37	11	2.6	1.2
25	2.5	1.8	1.4	1.3	1.3	14	45	71	38	4.0	2.4	1.2
26	1.9	1.8	1.4	1.3	1.3	21	36	62	44	3.3	2.3	1.3
27	1.8	1.8	1.4	1.3	1.3	30	39	59	45	3.0	2.1	1.8
28	1.8	1.8	1.4	1.3	1.3	26	41	63	43	3.6	1.9	1.6
29	1.8	1.8	1.4	1.3	---	16	37	68	41	4.1	1.9	1.4
30	1.7	1.8	1.4	1.3	---	19	37	38	40	3.9	1.9	1.4
31	1.7	---	1.4	1.3	---	20	---	23	---	3.7	2.3	---
TOTAL	55.63	52.55	42.28	40.4	36.4	271.3	997.7	1374	1162	373.0	168.1	43.0
MEAN	1.79	1.75	1.36	1.30	1.30	8.75	33.3	44.3	38.7	12.0	5.42	1.43
MAX	3.9	3.6	1.8	1.4	1.3	30	106	81	79	37	11	2.1
MIN	.57	.42	.53	1.3	1.3	1.3	3.0	17	17	3.0	1.9	1.2
AC-FT	110	104	84	80	72	538	1980	2730	2300	740	333	85
CAL YR 1978	TOTAL	4481.43	MEAN 12.3	MAX 94	MIN .34	AC-FT 8890						
WTR YR 1979	TOTAL	4616.36	MEAN 12.6	MAX 106	MIN .42	AC-FT 9160						

GREEN RIVER BASIN

189

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY

LOCATION.--Lat 41°00'17", long 107°54'59", in SW¼ sec.18, T.12 N., R.94 W., Carbon County, Hydrologic Unit 14050003, at former discharge station, 600 ft (183 m) upstream from Wyoming-Colorado State line, 0.5 mi (0.8 km) upstream from Scandinavian Wash, and 15 mi (24 km) west of Baggs.

DRAINAGE AREA.--3,020 mi² (7,820 km²), approximately.

PERIOD OF RECORD.--Water years 1965 to August 1976, October 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L 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...	1100	79	5.0	130	0	38	8.4	16	.6	1.8
NOV 27...	1215	80	.0	160	0	44	11	35	1.2	.5
DEC 21...	1430	88	.0	130	0	37	8.7	13	.5	1.3
JAN 18...	1130	90	.0	130	0	37	8.2	14	.5	2.1
FEB 16...	1230	102	.0	140	1	41	8.5	18	.7	1.9
MAR 28...	1430	195	2.0	150	2	41	11	29	1.0	2.6
APR 26...	1645	990	8.0	110	20	29	8.4	14	.6	2.4
MAY 23...	1030	4660	8.0	46	1	9.4	5.5	4.0	.3	.8
JUN 26...	1330	1830	15.0	39	4	11	2.7	5.3	.4	.5
JUL 19...	1030	65	19.0	110	0	28	10	19	.8	2.0
AUG 16...	0945	23	17.0	190	0	51	16	44	1.4	3.3
SEP 26...	1015	11	15.0	200	0	52	17	45	1.4	3.8

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 25...	160	0	130	34	3.7	.3	15	193	.26	41.2
NOV 27...	200	0	160	52	7.0	.3	17	267	.36	57.7
DEC 21...	160	0	130	26	3.7	.3	12	180	.24	42.8
JAN 18...	170	0	140	21	1.8	.3	6.0	174	.24	42.3
FEB 16...	170	0	140	32	6.6	.4	16	207	.28	57.0
MAR 28...	180	0	150	49	6.4	.3	13	240	.33	126
APR 26...	110	0	90	40	3.4	.3	13	167	.23	446
MAY 23...	55	0	45	6.6	2.0	.4	8.9	65	.09	818
JUN 26...	43	0	35	8.2	2.3	.1	11	62	.08	306
JUL 19...	150	0	120	95	20	.3	14	262	.36	46.3
AUG 16...	250	0	200	61	8.1	.5	6.0	310	.42	19.3
SEP 26...	260	3	220	62	12	.5	9.5	335	.46	10.1

GREEN RIVER BASIN

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT									
25...	.02	--	.02	--	--	--	--	--	--
NOV									
27...	.00	--	.04	--	--	--	--	--	--
DEC									
21...	.07	--	.02	--	--	--	--	--	--
JAN									
18...	.09	--	.02	--	--	--	--	--	--
FEB									
16...	.09	--	.04	--	--	--	--	--	--
MAR									
28...	.00	--	.20	--	--	--	--	--	--
APR									
26...	.14	--	1.2	--	--	--	--	--	--
MAY									
23...	.00	--	.36	--	--	--	--	--	--
JUN									
26...	.05	--	.06	.00	0	.00	0	.05	.0
JUL									
19...	.00	--	.29	.00	0	.00	0	.00	.0
AUG									
16...	.00	--	.03	.00	0	.00	0	.00	.0
SEP									
26...	--	.01	.04	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
JUN				
26...	.12	0	.01	0
JUL				
19...	.00	0	.00	--
AUG				
16...	.00	0	.04	0
SEP				
26...	.00	0	.02	0

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE4SW4 sec.26, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, 11.5 mi (18.5 km) upstream from Utah-Wyoming State line, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi² (89.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair.

AVERAGE DISCHARGE.--6 years, 50.3 ft³/s (1.42 m³/s), 36,440 acre-ft/yr (44.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft³/s (17.9 m³/s) July 4, 1975, gage height, 4.15 ft (1.265 m); minimum observed, 5.1 ft³/s (0.14 m³/s) Dec. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft³/s (13.0 m³/s) May 28, gage height, 3.61 ft (1.100 m); minimum observed, 6.1 ft³/s (0.173 m³/s) Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	10	9.0	8.0	7.0	7.0	10	27	162	114	27	15
2	14	12	9.0	8.0	7.0	7.0	10	25	162	105	26	15
3	14	11	9.0	8.0	7.0	7.0	10	26	181	102	24	15
4	14	10	9.0	8.0	7.0	7.0	10	37	212	96	23	15
5	14	9.9	9.0	8.0	7.0	7.0	10	50	242	89	22	15
6	14	10	9.0	8.0	7.0	7.0	10	50	255	84	23	15
7	14	10	9.0	8.0	7.0	7.0	10	47	223	79	25	14
8	14	10	9.0	8.0	7.0	7.0	10	37	178	75	25	14
9	14	10	8.0	8.0	7.0	7.0	10	32	154	71	23	14
10	13	9.7	8.0	8.0	7.0	7.0	10	28	155	67	22	14
11	13	10	8.0	8.0	7.0	8.0	10	25	187	65	21	13
12	13	10	8.0	8.0	7.0	8.0	10	27	226	62	20	13
13	13	10	8.0	8.0	7.0	8.0	12	30	253	61	24	13
14	13	10	8.0	8.0	7.0	8.0	14	42	268	58	25	13
15	13	10	8.0	8.0	7.0	8.0	16	62	240	55	24	12
16	13	10	8.0	8.3	7.0	8.0	18	82	198	52	24	12
17	13	10	8.0	8.0	7.0	9.0	20	99	171	49	31	12
18	13	10	8.0	8.0	7.0	9.0	20	115	151	46	29	12
19	13	12	8.0	8.0	7.0	9.0	17	131	131	47	33	12
20	13	11	8.0	8.0	7.0	9.0	20	152	116	45	30	12
21	14	10	8.0	8.0	7.0	9.0	17	168	117	45	25	12
22	13	10	8.0	8.0	7.0	9.0	20	197	123	55	23	11
23	12	10	8.0	8.0	7.0	9.0	23	213	123	48	22	11
24	12	10	8.0	8.0	7.0	9.0	23	210	124	45	19	10
25	12	9.8	8.0	7.0	7.0	10	22	212	129	38	18	11
26	11	9.5	8.0	7.0	7.0	10	23	238	129	36	17	13
27	11	9.5	8.0	7.0	6.1	10	25	294	127	36	16	11
28	12	9.3	8.0	7.0	7.0	10	27	424	124	33	15	11
29	11	9.2	8.0	7.0	---	10	27	364	120	31	15	11
30	11	9.0	8.0	7.0	---	10	27	250	119	29	15	11
31	11	---	8.0	7.0	---	10	---	186	---	28	15	---
TOTAL	400	301.9	256.0	241.3	195.1	260.0	491	3880	5100	1846	701	382
MEAN	12.9	10.1	8.26	7.78	6.97	8.39	16.4	125	170	59.5	22.6	12.7
MAX	15	12	9.0	8.3	7.0	10	27	424	268	114	33	15
MIN	11	9.0	8.0	7.0	6.1	7.0	10	25	116	28	15	10
AC-FT	793	599	508	479	387	516	974	7700	10120	3660	1390	758
CAL YR 1978	TOTAL	21411.9	MEAN 58.7	MAX 509	MIN 7.5	AC-FT 42470						
WTR YR 1979	TOTAL	14054.3	MEAN 38.5	MAX 424	MIN 6.1	AC-FT 27880						

10010500 HILLIARD-EAST FORK CANAL NEAR STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 40°54'49", long 110°49'25", in NW¼ sec.16, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 300 ft (91 m) downstream from road bridge, 0.8 mi (1.3 km) downstream from head, and 28 mi (45 km) south of Evanston.

PERIOD OF RECORD.--November 1941 to September 30, 1979 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 8,500 ft (2,590 m), from topographic map.

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres (10.5 km²) in Hilliard Flat area in Wyoming.

AVERAGE DISCHARGE.--37 years, 4.73 ft³/s (0.134 m³/s), 3,430 acre-ft/yr (4.23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft³/s (1.25 m³/s) July 3-5, 8, 1963; no flow during winter and at other times each year except 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.00	.00	.00	.00	.00	.00	.00	.00	22	.18	.26
2	.34	.00	.00	.00	.00	.00	.00	.00	.00	22	.18	.26
3	.34	.00	.00	.00	.00	.00	.00	.00	.00	22	.30	.22
4	.34	.00	.00	.00	.00	.00	.00	.00	.00	21	.30	.22
5	.34	.00	.00	.00	.00	.00	.00	.00	.00	21	.30	.22
6	.34	.00	.00	.00	.00	.00	.00	.00	.00	21	.26	.22
7	.34	.00	.00	.00	.00	.00	.00	.00	.00	21	.18	.22
8	.34	.00	.00	.00	.00	.00	.00	.00	.00	20	.22	.22
9	.34	.00	.00	.00	.00	.00	.00	.00	.00	20	.22	.22
10	.34	.00	.00	.00	.00	.00	.00	.00	.00	19	.22	.18
11	.34	.00	.00	.00	.00	.00	.00	.00	.04	19	.22	.18
12	.34	.00	.00	.00	.00	.00	.00	.00	5.5	19	.22	.18
13	.34	.00	.00	.00	.00	.00	.00	.00	29	23	.22	.18
14	.34	.00	.00	.00	.00	.00	.00	.00	30	24	.22	.18
15	.34	.00	.00	.00	.00	.00	.00	.00	29	24	.22	.22
16	.34	.00	.00	.00	.00	.00	.00	.00	28	28	.22	.22
17	.34	.00	.00	.00	.00	.00	.00	.00	28	27	.22	.22
18	.34	.00	.00	.00	.00	.00	.00	.00	26	27	.22	.22
19	.26	.00	.00	.00	.00	.00	.00	.00	19	27	.22	.22
20	.22	.00	.00	.00	.00	.00	.00	.00	19	27	.22	.26
21	.18	.00	.00	.00	.00	.00	.00	.00	19	28	.22	.26
22	.14	.00	.00	.00	.00	.00	.00	.00	19	28	.22	.26
23	.10	.00	.00	.00	.00	.00	.00	.00	19	28	.22	.26
24	.06	.00	.00	.00	.00	.00	.00	.00	19	26	.22	.26
25	.00	.00	.00	.00	.00	.00	.00	.00	19	24	.22	.26
26	.00	.00	.00	.00	.00	.00	.00	.00	21	22	.22	.30
27	.00	.00	.00	.00	.00	.00	.00	.00	22	21	.22	.26
28	.00	.00	.00	.00	.00	.00	.00	.00	22	20	.22	.26
29	.00	.00	.00	.00	.00	.00	.00	.00	22	18	.22	.22
30	.00	.00	.00	.00	.00	.00	.00	.00	22	9.0	.26	.22
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.30	.00
TOTAL	7.08	.00	.00	.00	.00	.00	.00	.00	417.54	678.18	7.14	6.88
MEAN	.23	.000	.000	.000	.000	.000	.000	.000	13.9	21.9	.23	.23
MAX	.34	.00	.00	.00	.00	.00	.00	.00	30	28	.30	.30
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.18	.18
AC-FT	14	.00	.00	.00	.00	.00	.00	.00	828	1350	14	14
CAL YR 1978	TOTAL	1104.02	MEAN 3.02	MAX 29	MIN .00	AC-FT 2190						
WTR YR 1979	TOTAL	1116.82	MEAN 3.06	MAX 30	MIN .00	AC-FT 2220						

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi² (17.59 km²).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965, published as "at Whitney Dam Site".

REVISED RECORD.--WRD UT-1973: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m), from topographic map.

REMARKS.--Records good except those for winter months and period of no gage-height record, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-feet (5.80 hm³) since July 1966.

AVERAGE DISCHARGE.--13 years (water years 1967-79), 7.90 ft³/s (0.224 m³/s), 5,720 acre-ft/yr (7.06 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s (4.11 m³/s) June 13, 1965; maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98 ft³/s (2.78 m³/s) July 13, gage height, 2.71 ft (0.826 m); minimum, 0.09 ft³/s (0.003 m³/s) Sept. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.87	.77	.80	.80	.90	1.0	1.0	1.4	2.9	9.6	3.7
2	.49	.87	.80	.80	.80	.90	1.0	1.0	1.4	2.7	9.2	3.5
3	.44	.87	.80	.80	.80	.90	1.0	1.0	1.4	2.7	9.1	3.5
4	.49	.84	.80	.80	.80	.90	1.0	1.0	1.4	2.9	8.7	3.4
5	.52	.84	.80	.80	.80	.90	1.0	1.0	1.4	2.7	8.4	3.2
6	.47	.77	.80	.80	.80	.90	1.0	1.0	1.5	2.6	8.0	3.1
7	.47	.74	.80	.80	.80	.90	1.0	1.0	1.5	2.4	8.0	2.9
8	.47	.80	.80	.80	.80	.90	1.0	1.0	1.5	2.3	7.7	2.8
9	.49	.87	.80	.80	.80	.90	1.0	1.0	1.5	2.2	7.4	2.8
10	.52	.87	.80	.80	.80	.90	1.0	1.0	1.5	2.1	7.4	2.7
11	.52	.87	.80	.80	.80	.90	1.0	1.0	1.5	2.0	7.1	2.7
12	.49	.87	.80	.80	.80	.90	1.0	1.0	1.5	2.0	6.8	2.7
13	.47	.87	.80	.80	.80	.90	1.0	1.0	1.6	45	6.5	2.6
14	.47	.87	.80	.80	.80	.90	1.0	1.0	1.6	97	6.5	2.6
15	.47	.84	.80	.80	.80	.90	1.0	1.0	1.6	95	6.2	1.3
16	.47	.80	.80	.80	.80	.90	1.0	1.1	1.6	85	5.9	.17
17	.49	.80	.80	.80	.80	.90	1.0	1.1	2.5	91	5.9	.15
18	.49	.80	.80	.80	.80	.90	1.0	1.1	4.1	90	5.7	.15
19	.49	.80	.80	.80	.80	.90	1.0	1.1	5.2	89	5.5	.12
20	.49	.80	.80	.80	.80	.90	1.0	1.1	5.5	88	5.5	.11
21	.44	.80	.80	.80	.80	.90	1.0	1.2	5.0	88	5.2	.10
22	.42	.80	.80	.80	.80	.90	1.0	1.2	4.5	87	5.0	.10
23	.42	.80	.80	.80	.80	.90	1.0	1.2	4.4	88	5.0	.10
24	.40	.80	.80	.80	.80	.90	1.0	1.2	4.2	90	4.8	.10
25	.38	.77	.80	.80	.80	.90	1.0	1.2	3.9	88	4.6	.09
26	.38	.77	.80	.80	.80	.90	1.0	1.3	3.6	86	4.4	.11
27	.38	.77	.80	.80	.80	.90	1.0	1.3	3.4	84	4.4	.15
28	.38	.77	.80	.80	.80	.90	1.0	1.3	3.3	82	4.2	.16
29	.38	.77	.80	.80	---	.90	1.0	1.3	3.2	80	4.0	.16
30	.70	.77	.80	.80	---	.90	1.0	1.3	3.0	32	3.8	.16
31	.90	---	.80	.80	---	.90	---	1.3	---	10	3.8	---
TOTAL	14.88	24.48	24.77	24.80	22.40	27.90	30.0	34.3	79.7	1524.5	194.3	45.43
MEAN	.48	.82	.80	.80	.80	.90	1.00	1.11	2.66	49.2	6.27	1.51
MAX	.90	.87	.80	.80	.80	.90	1.0	1.3	5.5	97	9.6	3.7
MIN	.38	.74	.77	.80	.80	.90	1.0	1.0	1.4	2.0	3.8	.09
AC-FT	30	49	49	49	44	55	60	68	158	3020	385	90
CAL YR 1978	TOTAL	2673.20	MEAN 7.32	MAX 91	MIN .38	AC-FT 5300						
WTR YR 1979	TOTAL	2047.46	MEAN 5.61	MAX 97	MIN .09	AC-FT 4060						

BEAR RIVER BASIN

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi² (135.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³), since July 1966.

AVERAGE DISCHARGE.--6 years, 39.8 ft³/s (1.13 m³/s), 28,840 acre-ft/yr (35.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft³/s (14.5 m³/s) June 8, 1975, gage height, 4.00 ft (1.219 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 266 ft³/s (7.53 m³/s) May 28, gage height, 3.05 ft (0.930 m); minimum, 3.6 ft³/s (0.102 m³/s) Sept. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	9.4	9.6	9.0	8.0	8.0	8.0	31	100	26	23	14
2	9.2	9.9	9.6	9.0	8.0	8.4	8.0	27	91	24	22	13
3	9.3	11	9.6	9.0	8.0	8.0	8.0	26	97	25	21	13
4	9.3	9.7	9.6	9.0	8.0	8.0	8.0	35	105	28	20	12
5	9.4	9.4	9.6	9.0	8.0	7.5	8.1	48	109	24	19	12
6	9.7	9.0	9.0	9.0	8.0	7.4	9.0	57	111	22	20	11
7	9.4	9.0	9.0	9.0	8.0	8.1	11	40	98	20	23	11
8	9.3	9.1	9.0	9.0	8.0	8.2	12	34	81	16	24	10
9	9.3	9.2	9.0	9.0	8.0	8.0	12	29	73	14	22	10
10	9.2	9.0	9.0	9.0	8.0	7.5	12	26	71	13	23	10
11	9.3	9.0	9.0	9.0	8.0	7.5	10	25	70	13	21	10
12	9.3	9.0	9.0	9.0	8.0	7.5	9.0	24	71	13	21	10
13	9.0	9.0	9.0	9.0	8.0	7.5	8.6	30	71	31	22	10
14	9.0	9.0	9.0	8.9	8.0	7.5	9.5	47	69	106	22	10
15	9.1	9.0	9.0	9.3	8.0	7.5	13	72	63	106	23	9.7
16	9.1	10	9.0	8.9	8.0	7.5	18	96	57	98	22	5.7
17	9.1	10	9.0	8.9	8.0	7.5	22	124	53	103	23	4.0
18	9.3	10	9.0	8.9	8.0	7.6	20	146	57	101	25	3.8
19	9.4	10	9.0	8.2	8.0	7.5	16	165	61	101	24	4.3
20	9.3	10	9.0	7.9	8.0	7.5	15	179	60	100	23	4.0
21	10	10	9.0	8.0	8.0	7.5	16	192	53	102	20	4.0
22	9.6	9.6	9.0	8.0	8.0	7.1	20	200	49	103	7.1	4.3
23	9.1	10	9.0	8.0	8.0	7.0	22	201	48	103	18	4.0
24	9.1	10	9.0	8.0	8.0	7.0	23	188	45	105	16	4.0
25	9.1	10	8.6	8.0	8.0	7.0	22	189	40	98	16	4.6
26	8.8	9.6	9.0	8.0	8.0	7.0	22	190	35	94	15	5.4
27	8.7	10	9.0	8.0	7.9	7.2	24	196	33	91	15	5.4
28	8.9	10	9.3	8.0	8.0	7.4	27	235	30	87	14	5.1
29	8.9	9.6	9.3	8.0	---	7.6	30	204	29	84	14	5.1
30	8.9	9.6	9.0	8.0	---	7.5	33	139	27	60	14	4.8
31	9.0	---	9.0	8.0	---	7.7	---	115	---	24	14	---
TOTAL	285.5	288.1	282.2	266.0	223.9	234.2	476.2	3310	1957	1935	617	234.2
MEAN	9.21	9.60	9.10	8.58	8.00	7.55	15.9	107	65.2	62.4	19.9	7.81
MAX	10	11	9.6	9.3	8.0	8.4	33	235	111	106	25	14
MIN	8.7	9.0	8.6	7.9	7.9	7.0	8.0	24	27	13	14	3.8
AC-FT	566	571	560	528	444	465	945	6570	3880	3840	1220	465
CAL YR 1978	TOTAL	16026.3	MEAN	43.9	MAX	274	MIN	7.5	AC-FT	31790		
WTR YR 1979	TOTAL	10109.3	MEAN	27.7	MAX	235	MIN	3.8	AC-FT	20050		

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 km³) since 1966. Three diversions above station for irrigation of about 265 acres (107,000 m²) above and 2,600 acres (10.5 km²) below station.

AVERAGE DISCHARGE.--37 years, 188 ft³/s (5.32 m³/s), 136,200 acre-ft/yr (168 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 16 ft³/s (0.45 m³/s) Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 28	2400	*1,820 51.5	3.80 1.158

Minimum daily discharge, 24 ft³/s (0.680 m³/s) Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	38	36	32	31	30	28	122	586	312	82	53
2	43	41	34	32	31	26	30	110	560	277	78	50
3	43	44	33	32	31	28	28	105	640	255	74	47
4	43	40	33	31	31	28	30	132	766	252	70	46
5	43	38	33	32	31	28	29	176	848	207	67	44
6	43	31	34	34	31	26	29	224	890	188	68	43
7	43	31	34	33	30	28	36	164	827	176	74	41
8	43	36	34	32	30	30	34	145	640	164	88	40
9	43	34	34	31	30	26	40	127	530	153	76	38
10	41	34	34	31	30	28	34	117	530	145	74	38
11	41	31	35	31	30	30	34	108	628	134	68	38
12	41	37	35	31	30	30	31	100	754	130	67	38
13	40	37	35	31	30	29	30	117	814	134	74	38
14	40	37	35	31	30	28	30	161	848	197	80	38
15	40	37	35	31	30	30	53	256	778	188	78	38
16	40	37	35	31	30	30	70	364	652	173	82	35
17	40	37	35	31	30	24	82	445	550	176	98	32
18	41	37	35	31	30	26	84	510	505	173	112	31
19	41	37	35	31	30	26	74	575	435	170	112	31
20	41	37	35	31	30	26	65	640	372	173	120	32
21	46	37	35	31	30	26	70	706	356	170	100	31
22	44	38	35	31	30	32	82	784	376	185	90	30
23	40	38	35	31	30	28	90	855	380	179	86	29
24	39	38	35	31	30	28	96	814	360	179	78	28
25	40	38	35	31	30	29	90	820	376	161	74	28
26	36	38	35	31	30	29	90	890	390	150	70	32
27	36	38	35	31	30	30	100	1010	372	148	67	32
28	36	38	35	31	30	29	108	1560	356	140	63	30
29	38	37	34	31	---	31	112	1420	336	132	60	29
30	38	38	33	31	---	31	122	939	328	117	56	29
31	37	---	32	31	---	30	---	700	---	86	56	---
TOTAL	1264	1109	1068	971	846	880	1831	15196	16783	5424	2442	1089
MEAN	40.8	37.0	34.5	31.3	30.2	28.4	61.0	490	559	175	78.8	36.3
MAX	46	44	36	34	31	32	122	1560	890	312	120	53
MIN	36	31	32	31	30	24	28	100	328	86	56	28
AC-FT	2510	2200	2120	1930	1680	1750	3630	30140	33290	10760	4840	2160

CAL YR 1978 TOTAL 68522 MEAN 188 MAX 1800 MIN 31 AC-FT 135900
WTR YR 1979 TOTAL 48903 MEAN 134 MAX 1560 MIN 24 AC-FT 97000

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft³/s (2.32 m³/s) Apr. 21, gage height, 1.98 ft (0.604 m); no flow on many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	20	.19	7.3	20	26	8.6
2	.00	.00	.00	.00	.00	.00	20	.00	10	22	26	12
3	.00	.00	.00	.00	.00	.00	20	.00	11	23	28	12
4	.00	.00	.00	.00	.00	.00	20	.00	12	23	30	12
5	.00	.00	.00	.00	.00	.00	20	.00	13	27	30	12
6	.00	.00	.00	.00	.00	.00	20	.00	14	47	30	12
7	.00	.00	.00	.00	.00	.00	20	.00	13	52	30	11
8	.00	.00	.00	.00	.00	.00	20	.00	14	56	30	11
9	.00	.00	.00	.00	.00	.00	20	.00	18	55	30	11
10	.00	.00	.00	.00	.00	.00	20	.00	21	55	30	11
11	.00	.00	.00	.00	.00	.00	12	.00	21	58	30	11
12	.00	.00	.00	.00	.00	.00	9.6	.00	21	58	30	12
13	.00	.00	.00	.00	.00	.00	9.1	.00	19	55	29	18
14	.00	.00	.00	.00	.00	.00	9.2	.00	14	45	29	18
15	.00	.00	.00	.00	.00	.00	9.8	.00	12	45	29	17
16	.00	.00	.00	.00	.00	.00	13	.00	12	47	29	12
17	.00	.00	.00	.00	.00	.00	28	.00	12	59	25	12
18	.00	.00	.00	.00	.00	.00	41	.00	11	61	19	12
19	.00	.00	.00	.00	.00	.00	59	.00	8.1	57	19	11
20	.00	.00	.00	.00	.00	.00	76	.00	5.4	50	17	8.6
21	.00	.00	.00	.00	.00	.00	79	.00	7.3	50	7.4	8.6
22	.00	.00	.00	.00	.00	.00	55	.00	8.1	50	7.4	8.6
23	.00	.00	.00	.00	.00	.00	44	.00	7.6	36	7.4	8.6
24	.00	.00	.00	.00	.00	.00	41	.00	7.4	21	7.4	8.4
25	.00	.00	.00	.00	.00	.00	40	.00	13	9.1	7.7	8.1
26	.00	.00	.00	.00	.00	.00	40	.00	43	9.1	7.6	7.0
27	.00	.00	.00	.00	.00	.00	40	.00	59	14	7.6	7.0
28	.00	.00	.00	.00	.00	.00	39	.00	61	23	7.5	7.0
29	.00	.00	.00	.00	.00	.00	10	.34	36	23	7.4	7.0
30	.00	.00	.00	.00	.00	.00	1.6	2.2	20	24	7.4	4.5
31	.00	---	.00	.00	---	20	---	4.0	---	27	7.4	---
TOTAL	.00	.00	.00	.00	.00	20.00	856.3	6.73	531.2	1201.2	628.2	319.0
MEAN	.000	.000	.000	.000	.000	.65	28.5	.22	17.7	38.7	20.3	10.6
MAX	.00	.00	.00	.00	.00	20	79	4.0	61	61	30	18
MIN	.00	.00	.00	.00	.00	.00	1.6	.00	5.4	9.1	7.4	4.5
AC-FT	.00	.00	.00	.00	.00	40	1700	13	1050	2380	1250	633
CAL YR 1978	TOTAL	4837.60	MEAN	13.3	MAX	108	MIN	.00	AC-FT	9600		
WTR YR 1979	TOTAL	3562.63	MEAN	9.76	MAX	79	MIN	.00	AC-FT	7070		

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m), from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder, at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records good except those for winter months, which are fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, UT, and irrigation in Saleratus basin, UT.

AVERAGE DISCHARGE.--35 years (water years 1945-79), 20.0 ft³/s (0.566 m³/s), 14,480 acre-ft/yr (17.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft³/s (4.05 m³/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	.00	.00	.00	.00	36	26	50	16	16	6.3
2	19	18	.00	.00	.00	.00	40	38	54	19	14	6.0
3	18	18	.00	.00	.00	.00	44	46	50	22	12	5.7
4	19	18	.00	.00	.00	.00	49	75	50	19	10	2.3
5	19	17	.00	.00	.00	.00	54	76	51	21	9.6	.00
6	19	18	.00	.00	.00	.00	59	78	57	20	7.2	.00
7	19	17	.00	.00	.00	.00	64	80	82	20	6.9	.00
8	19	17	.00	.00	.00	.00	70	80	75	20	6.3	.00
9	19	18	.00	.00	.00	.00	76	68	65	20	9.0	.00
10	19	18	.00	.00	.00	.00	76	49	56	20	8.4	.00
11	20	18	.00	.00	.00	.00	58	49	58	20	6.6	.00
12	20	18	.00	.00	.00	.00	54	48	66	20	.92	.00
13	19	17	.00	.00	.00	.00	51	46	75	20	.00	.00
14	18	17	.00	.00	.00	10	52	47	68	20	1.1	.00
15	19	16	.00	.00	.00	11	70	62	62	20	6.0	.00
16	19	15	.00	.00	.00	12	80	79	55	8.0	7.8	.00
17	20	10	.00	.00	.00	13	84	98	50	8.0	9.6	.00
18	21	7.8	.00	.00	.00	14	78	102	43	8.0	11	.00
19	22	6.9	.00	.00	.00	15	74	111	37	8.0	12	.00
20	21	6.3	.00	.00	.00	16	70	116	32	17	11	.00
21	21	.87	.00	.00	.00	17	64	117	26	17	15	.00
22	21	.00	.00	.00	.00	18	57	114	26	17	11	.00
23	21	.00	.00	.00	.00	19	58	117	25	17	11	.00
24	21	.00	.00	.00	.00	20	65	126	24	17	11	.00
25	20	.00	.00	.00	.00	21	65	121	23	17	10	.00
26	19	.00	.00	.00	.00	22	63	120	24	17	9.9	.00
27	19	.00	.00	.00	.00	23	62	111	28	17	10	.00
28	18	.00	.00	.00	.00	24	66	97	21	17	11	.00
29	18	.00	.00	.00	---	26	68	75	21	17	9.9	.00
30	18	.00	.00	.00	---	29	12	92	17	17	8.7	.00
31	18	---	.00	.00	---	32	---	68	---	17	7.2	---
TOTAL	602	309.87	.00	.00	.00	342.00	1819	2532	1371	533.0	280.12	20.30
MEAN	19.4	10.3	.000	.000	.000	11.0	60.6	81.7	45.7	17.2	9.04	.68
MAX	22	18	.00	.00	.00	32	84	126	82	22	16	6.3
MIN	18	.00	.00	.00	.00	.00	12	26	17	8.0	.00	.00
AC-FT	1190	615	.00	.00	.00	678	3610	5020	2720	1060	556	40
CAL YR 1978	TOTAL	10089.44	MEAN 27.6	MAX 109	MIN .00	AC-FT 20010						
WTR YR 1979	TOTAL	7809.29	MEAN 21.4	MAX 126	MIN .00	AC-FT 15490						

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi² (1,948 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m), from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km²) above station.

AVERAGE DISCHARGE.--18 years, 230 ft³/s (6.51 m³/s), 166,600 acre-ft/yr (205 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,550 ft³/s (43.9 m³/s) May 29; gage height, 4.64 ft (1.414 m); minimum, 1.4 ft³/s (0.040 m³/s) Sept. 15, 1964.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	35	40	40	53	87	189	456	64	14	6.0
2	26	20	35	40	40	50	76	198	320	51	12	5.7
3	26	22	35	40	40	50	67	206	297	30	8.0	5.5
4	26	24	35	40	40	50	67	176	330	18	7.4	5.0
5	26	21	35	40	40	50	93	186	382	15	6.4	5.0
6	25	21	35	40	40	55	126	266	420	15	5.7	3.9
7	26	22	35	40	45	60	158	320	450	12	5.5	3.1
8	26	21	35	45	45	65	226	270	376	8.3	5.0	3.1
9	25	23	35	45	45	70	297	234	306	7.0	5.0	2.8
10	26	23	35	45	50	65	288	167	234	6.4	8.0	2.6
11	25	27	35	45	50	60	186	142	216	5.7	8.3	2.1
12	26	27	35	45	50	60	164	128	258	5.5	8.3	2.6
13	23	19	35	45	50	60	144	109	325	4.8	7.4	2.6
14	20	18	35	45	50	65	153	109	387	5.2	7.4	2.1
15	23	24	35	45	50	70	246	153	420	5.2	12	1.8
16	25	24	35	45	50	75	355	234	360	4.8	18	2.1
17	26	26	35	45	50	80	414	320	284	4.3	26	2.8
18	28	30	40	45	50	85	376	387	220	4.3	29	3.9
19	30	30	40	45	50	90	315	456	198	4.1	24	3.1
20	32	30	40	45	50	90	270	545	164	4.1	27	2.6
21	31	30	40	45	50	95	226	642	121	7.0	41	2.3
22	30	30	40	45	50	100	192	662	87	8.3	31	2.3
23	33	30	40	45	50	110	173	727	83	15	21	2.3
24	31	30	40	40	50	120	180	720	83	30	18	2.0
25	29	30	40	40	50	130	180	630	80	49	15	1.8
26	26	30	40	40	50	140	167	584	72	29	13	1.8
27	26	30	40	40	50	140	158	636	89	20	12	1.8
28	23	30	40	40	50	130	167	831	121	17	11	2.0
29	22	30	40	40	---	120	156	1390	116	16	9.5	2.0
30	22	30	40	40	---	110	183	1230	81	17	8.0	2.0
31	22	---	40	40	---	104	---	727	---	15	6.7	---
TOTAL	811	773	1155	1320	1325	2602	5890	13574	7336	498.0	430.6	88.7
MEAN	26.2	25.8	37.3	42.6	47.3	83.9	196	438	245	16.1	13.9	2.96
MAX	33	30	40	45	50	140	414	1390	456	64	41	6.0
MIN	20	18	35	40	40	50	67	109	72	4.1	5.0	1.8
AC-FT	1610	1530	2290	2620	2630	5160	11680	26920	14550	988	854	176
CAL YR 1978	TOTAL	73260.0	MEAN	201	MAX	1660	MIN	5.7	AC-FT	145300		
WTR YR 1979	TOTAL	35803.3	MEAN	98.1	MAX	1390	MIN	1.8	AC-FT	71020		

BEAR RIVER BASIN
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 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT										
25...	1410	30	420	--	8.0	--	--	--	--	--
28...	1050	21	450	8.1	4.0	2	9.6	34	200	3
NOV										
25...	1045	30	500	8.1	.0	3	10.3	49	240	2
DEC										
06...	1035	35	500	--	.0	--	--	--	--	--
21...	0930	40	460	7.5	.0	2	9.0	K310	220	7
JAN										
17...	1715	45	480	--	.0	--	--	--	--	--
19...	1100	45	460	7.5	.0	2	9.3	42	220	7
FEB										
24...	1045	50	470	7.8	.0	3	10.0	120	200	0
MAR										
01...	1200	53	430	--	.0	--	--	--	--	--
APR										
01...	1015	89	650	8.2	1.0	20	10.8	K500	260	9
17...	1555	452	490	--	10.5	--	--	--	--	--
29...	1040	161	450	8.2	8.0	15	9.8	K50	200	15
MAY										
16...	1310	186	300	--	15.0	--	--	--	--	--
25...	1100	564	170	--	12.5	--	--	--	--	--
31...	1045	746	180	--	8.0	--	--	--	--	--
JUN										
03...	1100	279	280	7.9	12.0	15	8.2	K70	110	3
24...	1100	85	320	8.0	16.0	4	8.4	86	130	0
27...	0935	87	300	--	16.0	--	--	--	--	--
AUG										
01...	1335	13	440	--	21.0	--	--	--	--	--
03...	1100	8.3	570	8.2	17.5	15	7.5	72	240	14
30...	1230	8.3	465	8.4	16.5	5	9.0	K32	200	11
SEP										
06...	1335	3.9	390	--	18.0	--	--	--	--	--
27...	1240	1.8	595	8.3	14.0	9	7.8	42	250	20

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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
25...	--	--	--	--	--	--	--	--	--
28...	50	19	16	.5	1.6	240	0	200	21
NOV									
25...	58	22	19	.5	2.1	290	0	240	25
DEC									
06...	--	--	--	--	--	--	--	--	--
21...	58	18	15	.4	1.7	260	0	210	22
JAN									
17...	--	--	--	--	--	--	--	--	--
19...	56	20	11	.3	1.5	260	0	210	17
FEB									
24...	52	18	14	.4	1.7	260	0	210	10
MAR									
01...	--	--	--	--	--	--	--	--	--
APR									
01...	61	25	22	.6	3.0	300	3	250	35
17...	--	--	--	--	--	--	--	--	--
29...	47	19	19	.6	2.5	220	3	180	27
MAY									
16...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
JUN									
03...	30	9.5	7.0	.3	.0	130	0	110	15
24...	33	12	11	.4	1.0	160	0	130	15
27...	--	--	--	--	--	--	--	--	--
AUG									
01...	--	--	--	--	--	--	--	--	--
03...	52	27	30	.8	4.2	270	3	230	41
30...	46	20	19	.6	2.5	230	0	190	27
SEP									
06...	--	--	--	--	--	--	--	--	--
27...	52	29	32	.9	4.3	280	0	230	44

BEAR RIVER BASIN

201

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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, NITRATE 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									
25...	--	--	--	--	--	--	--	--	--
28...	15	.2	4.3	247	.34	14.0	.00	--	--
NOV									
25...	15	.3	.9	284	.39	23.0	.32	--	--
DEC									
06...	--	--	--	--	--	--	--	--	--
21...	12	.2	6.2	266	.36	28.7	.56	--	--
JAN									
17...	--	--	--	--	--	--	--	--	--
19...	11	.1	8.8	258	.35	31.3	.52	--	--
FEB									
24...	12	.2	8.7	249	.34	33.6	.50	--	--
MAR									
01...	--	--	--	--	--	--	--	--	--
APR									
01...	19	.3	7.5	326	.44	78.3	.02	.13	--
17...	--	--	--	--	--	--	--	--	--
29...	14	.3	5.4	247	.34	107	.05	.08	--
MAY									
16...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
JUN									
03...	5.4	.2	6.1	138	.19	104	.00	.05	--
24...	8.1	.1	5.2	166	.23	38.1	.00	.02	--
27...	--	--	--	--	--	--	--	--	--
AUG									
01...	--	--	--	--	--	--	--	--	--
03...	25	.1	5.5	329	.45	7.37	.32	.03	--
30...	16	.2	3.3	244	.33	5.47	.00	.05	--
SEP									
06...	--	--	--	--	--	--	--	--	--
27...	28	.3	5.6	475	.65	2.31	--	--	.03

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT									
25...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	.05	--	--
NOV									
25...	--	--	--	--	--	--	.09	--	--
DEC									
06...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	.19	--	--
JAN									
17...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	.09	--	--
FEB									
24...	--	--	--	--	--	--	.15	--	--
MAR									
01...	--	--	--	--	--	--	--	--	--
APR									
01...	.04	--	.51	.55	.68	3.0	.06	--	--
17...	--	--	--	--	--	--	--	--	--
29...	.04	.05	.48	.52	.60	2.7	.13	.40	.40
MAY									
16...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
JUN									
03...	.06	.07	.51	.57	.62	2.7	.01	.03	.03
24...	.03	.04	.42	.45	.47	2.1	.02	.06	.06
27...	--	--	--	--	--	--	--	--	--
AUG									
01...	--	--	--	--	--	--	--	--	--
03...	.04	.05	1.1	1.1	1.1	5.0	.04	--	.12
30...	.11	.13	.51	.62	.67	3.0	.05	--	.15
SEP									
06...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	.05	--	--

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m), from levels by Water and Power Resources Service.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm³) below spillway crest, which includes 18,240 acre-ft (22.5 hm³) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm³) of irrigation holdover, 4,000 acre-ft (4.93 hm³) for winter release for fish propagation in Utah, and 1,500 acre-ft (1.85 hm³) of storage for fish propagation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, 1974, June 10, 1975, gage height, 38.3 ft (11.67 m); minimum observed, 880 acre-ft (1.09 hm³) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,860 acre-ft (35.5 hm³) Apr. 19, 20, 21, May 7, 8, 9, gage height, 35.9 ft (10.942 m); minimum, 5,440 acre-ft (6.71 hm³) Aug. 3-15.

Capacity table (gage height, in feet, and total contents, in acre-feet)

4	680	16	6780	28	17770
6	1300	18	8360	30	20180
8	2080	20	10000	32	23040
10	3020	22	11600	34	25800
12	4120	24	13360	36	29000
14	5370	26	15570	38	32520

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16400	15900	16200	16800	17200	18100	22600	28600	21200	7160	5500	6050
2	16400	15900	16200	16800	17200	18300	22900	28600	20100	7010	5500	6050
3	16400	15900	16200	16800	17200	18300	23200	28700	19100	6860	5440	6050
4	16400	15800	16200	16800	17200	18300	23400	28700	18100	6560	5440	6050
5	16200	15800	16200	16800	17200	18400	23600	28600	17600	6340	5440	6050
6	16200	15800	16400	16800	17300	18400	23900	28700	17300	6190	5440	6050
7	16200	15800	16400	16800	17300	18500	24100	28900	17100	6190	5440	6050
8	16200	15800	16400	16800	17300	18500	24400	28900	16900	6120	5440	5980
9	16200	15800	16400	16800	17300	18600	24700	28900	16600	6050	5440	5980
10	16100	15800	16400	16800	17400	18800	25000	28700	16000	5980	5440	5980
11	16100	15900	16400	16900	17400	18900	25300	28600	15500	5910	5440	5980
12	16100	15900	16500	16900	17400	19000	25700	28600	14900	5770	5440	5910
13	16100	15900	16500	16900	17600	19100	26100	28400	14500	5710	5440	5910
14	16100	15900	16500	16900	17600	19200	26500	28400	14300	5640	5440	5910
15	16000	15900	16500	16900	17600	19400	27000	28400	14100	5570	5440	5910
16	16000	15900	16500	16900	17700	19500	27700	28300	13800	5570	5500	5910
17	16000	16000	16500	16900	17700	19600	28400	27200	13500	5570	5500	5840
18	16000	16000	16600	16900	17700	19700	28700	26000	12900	5570	5570	5840
19	16000	16000	16600	16900	17800	19800	28900	25000	12400	5570	5640	5840
20	16000	16000	16600	16900	17800	20000	28900	24300	11900	5500	5710	5840
21	16000	16000	16600	17000	17800	20100	28900	23800	11300	5500	5770	5770
22	16000	16000	16600	17000	17900	20200	28700	23300	10500	5500	5840	5770
23	16000	16000	16600	17000	17900	20300	28700	22900	9950	5500	5910	5770
24	16000	16100	16600	17000	17900	20400	28600	22500	9210	5500	5910	5770
25	16000	16100	16700	17000	18000	20500	28600	21900	8440	5500	5980	5770
26	16000	16100	16700	17000	18000	20900	28600	21300	7790	5500	5980	5710
27	16000	16100	16700	17100	18000	21200	28600	20700	7470	5500	5980	5710
28	15900	16100	16700	17100	18100	21500	28600	20500	7470	5500	6050	5710
29	15900	16100	16700	17100	---	21700	28600	21300	7390	5500	6050	5640
30	15900	16100	16700	17100	---	22000	28600	22000	7320	5500	6050	5640
31	15900	---	16700	17100	---	22300	---	21900	---	5500	6050	---
MAX	16400	16100	16700	17100	18100	22300	28900	28900	21200	7160	6050	6050
MIN	15900	15800	16200	16800	17200	18100	22600	20500	7320	5500	5440	5640
(†)	26.3	26.5	27.0	27.4	28.3	31.5	35.8	31.2	16.7	14.2	15.0	14.4
(‡)	-500	+200	+600	+400	+1000	+4200	+6300	-6700	-14580	-1820	+550	-410

CAL YR 1978 MAX 32000 MIN 2800 (†) +13,930
WTR YR 1979 MAX 28900 MIN 5440 (‡) -10,760

(†) Elevation, in feet, at end of month.

(‡) Change in contents, in acre-feet.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORD.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m), National Geodetic Vertical Datum of 1929 (levels by Utah Water Resources Division from Water and Power Resources Service bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (see sta 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km²) above station.

AVERAGE DISCHARGE.--18 years, 225 ft³/s (6.37 m³/s), 163,000 acre-ft/yr (201 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 966 ft³/s (27.4 m³/s) May 17, gage height, 5.87 ft (1.789 m); no flow Aug. 30, 31, Sept. 1, 2, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	27	28	29	31	33	179	887	124	5.4	.00
2	26	26	27	28	29	31	33	188	877	123	5.6	.66
3	26	26	27	28	29	31	33	197	866	122	5.7	1.1
4	27	26	27	28	29	31	33	198	853	121	5.7	.60
5	27	26	27	28	29	31	33	197	757	120	5.9	.60
6	27	26	27	28	29	31	33	203	564	67	5.4	.21
7	26	26	27	28	29	31	33	252	562	46	4.9	.30
8	26	26	27	28	29	31	34	270	561	46	4.9	.96
9	26	26	27	28	29	31	34	266	557	45	4.6	1.8
10	26	26	27	28	29	31	34	237	553	45	4.5	3.5
11	26	26	27	28	30	31	35	202	545	45	4.5	3.6
12	26	27	27	29	30	31	35	176	540	45	4.2	4.5
13	26	27	27	29	30	31	35	155	535	45	4.1	3.8
14	26	27	27	29	30	31	35	140	531	45	3.8	3.5
15	26	27	27	29	30	31	35	136	528	44	3.7	3.1
16	26	27	27	29	30	31	35	368	526	44	4.1	2.8
17	26	27	27	29	30	32	61	861	522	44	4.7	4.3
18	26	27	27	29	30	32	167	953	516	44	5.2	5.6
19	26	27	27	29	30	32	248	943	506	43	3.5	6.0
20	26	27	27	29	30	32	277	927	499	43	3.0	5.8
21	26	27	27	29	30	32	268	920	490	39	2.7	5.4
22	26	27	27	29	30	32	252	914	480	2.6	2.8	5.4
23	26	27	27	29	30	32	227	910	468	2.1	2.9	5.4
24	26	27	27	29	30	32	199	906	454	1.8	3.1	4.3
25	26	27	27	29	30	32	191	901	444	1.7	2.9	5.8
26	26	27	27	29	30	32	187	894	289	1.4	3.0	5.6
27	26	27	27	30	30	32	179	887	128	2.1	4.4	5.8
28	26	27	27	30	31	32	175	875	127	5.4	4.2	6.2
29	26	27	28	30	---	33	174	879	126	5.1	1.3	6.2
30	26	27	28	29	---	33	172	890	125	5.4	.36	6.8
31	26	---	28	29	---	33	---	893	---	5.2	.03	---
TOTAL	809	799	840	891	831	979	3320	16917	15416	1372.8	121.09	109.63
MEAN	26.1	26.6	27.1	28.7	29.7	31.6	111	546	514	44.3	3.91	3.65
MAX	27	27	28	30	31	33	277	953	887	124	5.9	6.8
MIN	26	26	27	28	29	31	33	136	125	1.4	.03	.00
AC-FT	1600	1580	1670	1770	1650	1940	6590	33550	30580	2720	240	217
CAL YR 1978	TOTAL	60905.90	MEAN 167	MAX 1480	MIN 3.9	AC-FT 120800						
WTR YR 1979	TOTAL	42405.52	MEAN 116	MAX 953	MIN .00	AC-FT 84110						

BEAR RIVER BASIN

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi² (4,185 km²).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,889.8 m), from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km²) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--36 years, 195 ft³/s (5.52 m³/s), 141,300 acre-ft/yr (174 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft³/s (0.05 m³/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 366 ft³/s (10.4 m³/s) June 5, gage height, 3.16 ft (0.963 m); minimum, 12 ft³/s (0.340 m³/s) Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	35	60	50	50	60	100	152	284	77	38	14
2	40	34	60	50	50	60	110	145	340	95	35	15
3	40	34	60	50	50	60	120	94	355	109	30	14
4	41	33	61	50	50	60	130	79	350	97	28	14
5	41	33	60	50	50	60	140	73	356	65	36	14
6	41	36	55	50	50	70	150	68	317	58	41	14
7	42	43	50	50	60	80	160	61	309	59	41	14
8	42	45	50	50	60	70	170	59	256	54	38	14
9	42	46	50	50	60	60	178	63	230	52	35	13
10	42	48	50	50	60	50	170	64	223	74	35	13
11	41	50	50	50	60	50	154	55	205	54	40	13
12	40	50	50	50	60	50	144	37	147	46	42	13
13	40	50	50	50	60	60	134	31	128	39	37	14
14	41	40	50	50	60	70	134	27	135	41	34	13
15	43	30	50	53	60	70	137	18	147	56	30	13
16	42	30	50	50	60	80	129	17	115	51	31	15
17	46	40	50	50	60	80	120	14	115	45	32	17
18	54	50	50	50	60	90	110	14	109	41	32	17
19	55	50	50	50	60	90	102	31	111	36	32	17
20	54	50	50	50	60	100	130	42	120	29	32	36
21	50	55	50	50	60	100	184	51	115	39	31	24
22	50	60	50	50	60	110	199	64	97	41	30	23
23	49	60	50	50	60	110	197	86	96	42	31	23
24	50	60	50	50	60	100	195	140	102	41	36	23
25	50	60	50	50	60	110	184	137	108	42	36	23
26	38	60	50	50	61	120	173	153	106	47	35	23
27	36	60	50	50	60	120	169	147	103	47	35	23
28	35	60	50	50	60	110	165	167	63	49	34	23
29	35	60	50	50	---	100	161	183	60	52	28	22
30	35	60	50	50	---	100	156	232	70	44	19	22
31	34	---	50	50	---	90	---	236	---	39	14	---
TOTAL	1329	1422	1606	1553	1621	2540	4505	2740	5272	1661	1028	536
MEAN	42.9	47.4	51.8	50.1	57.9	81.9	150	88.4	176	53.6	33.2	17.9
MAX	55	60	61	53	61	120	199	236	356	109	42	36
MIN	34	30	50	50	50	50	100	14	60	29	14	13
AC-FT	2640	2820	3190	3080	3220	5040	8940	5430	10460	3290	2040	1060
CAL YR 1978	TOTAL	35558	MEAN 97.4	MAX	1070	MIN 11	AC-FT	70530				
WTR YR 1979	TOTAL	25813	MEAN 70.7	MAX	356	MIN 13	AC-FT	51200				

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼SW¼SE¼ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, on right bank 0.5 mi (0.8 km) downstream from Bulldog Hollow, 0.5 mi (0.8 km) southwest of Sage, 0.8 mi (1.3 km) southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi² (637 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to September 1962, July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Oct. 1, 1945, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Oct. 1, 1945, to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Nov. 6-26, Dec 30 to Jan. 2, Jan. 8 to Feb. 6, which are poor. Diversions for irrigation of about 1,100 acres (4.45 km²) above station.

AVERAGE DISCHARGE.--22 years (water years 1944-62, 1977-79), 17.7 ft³/s (0.501 m³/s), 12,820 acre-ft/yr (15.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 649 ft³/s (18.4 m³/s) Mar. 18, 1947, gage height, 6.08 ft (1.853 m), site and datum then in use; minimum daily, 0.6 ft³/s (0.02 m³/s) Mar. 18, 1953, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 274 ft³/s (7.76 m³/s) Apr. 16, gage height, 4.61 ft (1.405 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	6.5	7.0	4.2	5.3	8.6	24	34	27	9.7	7.3	7.3
2	6.5	6.8	6.6	4.9	5.5	9.1	23	34	26	9.7	7.1	7.3
3	6.8	6.8	6.4	5.1	6.0	8.9	22	37	25	9.0	7.1	7.1
4	5.9	6.5	6.6	4.5	6.5	8.7	19	31	24	11	6.5	7.6
5	5.9	6.5	7.1	4.5	7.0	9.0	20	33	23	12	6.5	7.3
6	6.5	5.6	6.9	4.5	7.1	9.7	35	42	24	12	6.5	7.1
7	6.2	5.6	6.7	4.7	6.5	10	90	45	25	10	6.5	6.2
8	5.7	5.7	6.5	4.6	6.2	11	99	44	26	10	7.1	5.1
9	5.9	6.0	6.2	4.7	6.2	11	111	42	32	10	7.3	5.7
10	5.7	5.8	5.4	5.0	6.2	10	79	37	30	10	7.3	5.9
11	5.4	2.6	4.9	5.4	6.2	10	43	34	27	10	7.1	5.9
12	5.1	2.7	4.9	5.8	6.2	11	37	32	27	9.7	6.8	5.9
13	5.1	3.1	4.5	5.6	6.2	12	33	30	25	9.7	6.8	5.7
14	5.1	3.5	4.3	5.3	6.8	13	64	30	23	9.3	7.1	5.7
15	5.1	3.9	4.3	5.1	5.7	13	133	30	22	8.6	7.3	4.0
16	4.9	4.1	3.6	4.9	5.7	13	172	32	22	8.6	7.9	3.8
17	5.1	4.3	3.6	4.8	5.6	13	151	33	21	8.6	8.3	4.0
18	4.9	4.6	3.6	4.8	5.5	13	123	33	20	8.3	7.9	4.3
19	4.9	5.0	3.2	4.9	5.8	13	82	29	22	8.6	8.6	4.3
20	5.7	5.4	3.2	5.2	6.2	14	42	28	23	7.6	9.3	4.5
21	5.4	6.1	3.4	5.6	6.5	15	43	27	22	8.3	9.7	4.5
22	5.4	5.8	3.6	5.8	6.8	17	44	25	19	9.0	9.3	4.9
23	5.4	6.2	4.1	6.0	7.0	19	42	25	12	10	9.3	4.5
24	5.9	6.5	4.3	6.0	7.2	21	42	25	12	9.7	9.0	4.5
25	6.2	6.4	4.9	6.0	7.3	23	36	26	11	8.6	8.6	4.3
26	7.1	6.2	4.9	5.9	7.6	27	33	27	12	8.3	7.9	4.3
27	6.2	5.9	4.8	5.8	8.3	27	36	27	12	7.9	7.9	4.5
28	5.9	6.1	4.7	5.7	8.6	28	38	31	13	7.9	7.1	4.5
29	6.2	6.4	4.5	5.5	---	30	40	32	12	7.9	7.1	4.5
30	6.2	6.6	4.4	5.3	---	33	38	31	10	7.3	7.3	4.5
31	6.2	---	4.2	5.3	---	30	---	29	---	7.1	7.3	---
TOTAL	179.3	163.2	153.3	161.4	181.7	491.0	1794	995	629	284.4	236.8	159.7
MEAN	5.78	5.44	4.95	5.21	6.49	15.8	59.8	32.1	21.0	9.17	7.64	5.32
MAX	7.1	6.8	7.1	6.0	8.6	33	172	45	32	12	9.7	7.6
MIN	4.9	2.6	3.2	4.2	5.3	8.6	19	25	10	7.1	6.5	3.8
AC-FT	356	324	304	320	360	974	3560	1970	1250	564	470	317

CAL YR 1978 TOTAL 6446.1 MEAN 17.7 MAX 259 MIN 2.6 AC-FT 12790
WTR YR 1979 TOTAL 5428.8 MEAN 14.9 MAX 172 MIN 2.6 AC-FT 10770

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT											
03...	1305	--	6.5	1000	--	7.0	9	--	--	--	--
26...	1230	--	6.2	890	--	2.5	10	--	--	--	--
28...	1215	--	5.9	900	8.1	3.0	10	10.8	1.8	K6	430
NOV											
25...	1230	6.4	--	1000	8.0	.0	20	10.2	2.0	41	480
DEC											
05...	1200	--	7.1	920	--	1.5	10	--	--	--	--
21...	1045	--	3.4	4000	7.9	.0	2	16.8	9.8	K220	1800
JAN											
02...	1500	4.9	--	840	--	.0	15	--	--	--	--
19...	1230	4.9	--	1050	8.0	.0	8	11.2	1.2	K2	450
FEB											
06...	1300	7.1	--	640	--	.5	10	--	--	--	--
24...	1200	7.2	--	1400	8.1	.0	10	11.3	2.6	K4	600
MAR											
09...	1125	11	--	750	--	.5	25	--	--	--	--
APR											
01...	1130	--	23	1150	8.1	1.0	200	10.8	4.1	K20	370
06...	1015	--	27	1800	--	3.0	180	--	--	--	--
26...	1150	--	37	730	--	8.5	160	--	--	--	--
29...	1200	--	44	900	8.2	8.0	95	9.5	--	K80	330
MAY											
11...	1120	--	34	650	--	5.5	65	--	--	--	--
JUN											
03...	1200	--	26	890	8.3	13.5	40	8.6	1.8	K280	390
04...	1540	--	24	830	--	20.0	55	--	--	--	--
24...	1210	--	12	910	8.2	16.0	15	9.2	3.0	210	380
JUL											
06...	1250	--	12	1050	--	14.0	16	--	--	--	--
31...	0925	--	7.1	810	--	15.0	20	--	--	--	--
AUG											
03...	1230	--	7.1	920	8.2	17.0	15	8.7	2.6	240	350
15...	1115	--	7.6	900	--	15.5	9	--	--	--	--
30...	1120	--	7.6	880	8.2	14.0	20	8.5	1.8	270	350
SEP											
05...	1100	--	7.1	880	--	13.0	25	--	--	--	--
27...	1120	--	4.3	910	8.2	11.0	15	8.4	2.1	130	360

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

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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- SURP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY. (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
28...	190	96	45	55	1.2	--	3.9	290	0	240	240
NOV											
25...	210	110	49	60	1.2	--	4.2	320	0	260	280
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
21...	1000	390	190	300	3.1	--	24	910	0	750	1100
JAN											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	180	98	49	59	1.2	--	4.1	330	0	270	260
FEB											
06...	--	--	--	--	--	--	--	--	--	--	--
24...	270	130	66	93	1.7	--	7.0	400	0	330	390
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	170	71	47	100	2.3	--	4.6	250	0	210	320
06...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
29...	98	67	39	60	1.4	--	3.7	280	0	230	200
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	140	84	44	48	1.1	52	3.8	310	0	250	180
04...	--	--	--	--	--	--	--	--	--	--	--
24...	140	75	46	58	1.3	61	3.4	290	0	240	220
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	150	65	46	57	1.3	61	3.7	240	0	200	230
15...	--	--	--	--	--	--	--	--	--	--	--
30...	150	60	48	56	1.3	60	3.5	240	0	200	240
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--
27...	180	71	44	56	1.3	60	4.2	--	--	180	240

BEAR RIVER BASIN

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
28...	43	.4	11	638	.87	10.2	.07	.07	--	.55
NOV										
25...	45	.4	12	719	.98	12.4	.15	.02	--	.38
DEC										
05...	--	--	--	--	--	--	--	--	--	--
21...	240	1.1	51	2750	3.74	25.2	1.2	.05	--	.87
JAN										
02...	--	--	--	--	--	--	--	--	--	--
19...	44	.4	14	691	.94	9.14	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
24...	62	.5	18	964	1.31	18.7	.34	.10	--	.45
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	55	.4	9.3	731	.99	45.4	.16	.05	--	.77
06...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	30	.4	9.7	548	.75	65.1	.06	.03	.04	.34
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	24	.5	9.4	547	.74	38.4	.02	.06	.07	.55
04...	--	--	--	--	--	--	--	--	--	--
24...	33	.4	7.7	587	.80	19.0	.02	.04	.05	.45
JUL										
06...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	31	.4	6.0	557	.76	10.5	.02	.00	.00	.59
15...	--	--	--	--	--	--	--	--	--	--
30...	32	.4	6.6	565	.77	11.6	.02	.09	.11	.57
SEP										
05...	--	--	--	--	--	--	--	--	--	--
27...	41	.5	7.9	573	.78	6.65	.12	.05	.06	.66

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT										
03...	--	--	--	--	--	--	--	--	55	.97
26...	--	--	--	--	--	--	--	--	46	.77
28...	.62	.69	3.1	.03	--	--	2.7	.4	--	--
NOV										
25...	.40	.55	2.4	.03	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	54	1.0
21...	.92	2.1	9.4	.12	--	--	--	--	--	--
JAN										
02...	--	--	--	--	--	--	--	--	136	1.8
19...	--	--	--	.04	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	48	.92
24...	.55	.89	3.9	.05	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	66	2.0
APR										
01...	.82	.98	4.3	.06	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	326	24
26...	--	--	--	--	--	--	--	--	270	27
29...	.37	.43	1.9	.41	1.3	1.3	6.5	1.8	--	--
MAY										
11...	--	--	--	--	--	--	--	--	192	18
JUN										
03...	.61	.63	2.8	.05	.15	.15	--	--	--	--
04...	--	--	--	--	--	--	--	--	118	7.6
24...	.49	.51	2.3	.01	.03	.03	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	81	2.6
31...	--	--	--	--	--	--	--	--	66	1.3
AUG										
03...	.59	.61	2.7	.03	--	.09	--	--	--	--
15...	--	--	--	--	--	--	--	--	55	1.1
30...	.66	.68	3.0	.04	--	.12	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	53	1.0
27...	.71	.83	3.7	.03	--	.09	--	--	--	--

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)
OCT												
28...	1215	390	390	0	2	2	0	0	0	110	1	0
NOV												
25...	1230	--	--	--	--	--	--	--	--	110	--	--
DEC												
21...	1045	--	--	--	--	--	--	--	--	540	--	--
JAN												
19...	1230	--	--	--	--	--	--	--	--	120	--	--
FEB												
24...	1200	--	--	--	--	--	--	--	--	160	--	--
APR												
01...	1130	--	--	--	--	--	--	--	--	130	--	--
29...	1200	6700	6700	0	3	2	0	0	<1	100	1	0
JUN												
03...	1200	--	--	--	--	--	--	--	--	90	--	--
24...	1210	--	--	--	--	--	--	--	--	150	--	--
AUG												
03...	1230	--	--	--	--	--	--	--	--	100	--	--
30...	1120	--	--	--	--	--	--	--	--	110	--	--
SEP												
27...	1120	--	--	--	--	--	--	--	--	130	--	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)
OCT 28...	3	0	0	0	4	1	3	450	440	10	110	98
NOV 25...	--	--	--	--	--	--	--	--	--	80	--	--
DEC 21...	--	--	--	--	--	--	--	--	--	140	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	100	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	60	--	--
APR 01...	--	--	--	--	--	--	--	--	--	80	--	--
29...	<1	10	10	0	4	2	2	3700	3700	10	28	27
JUN 03...	--	--	--	--	--	--	--	--	--	20	--	--
24...	--	--	--	--	--	--	--	--	--	40	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	40	--	--
30...	--	--	--	--	--	--	--	--	--	30	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	40	--	--

[illegible]

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	4	3	0	3	2	0	2	.0	10	0	10
NOV 25...	--	--	--	--	--	--	--	--	--	--	--
DEC 21...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
APR 01...	--	--	--	--	--	--	--	--	--	--	--
29...	10	9	9	0	1	0	1	.4	50	50	<3
JUN 03...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL 06...	1250	2	14.0	12	1	2	5	12

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL 06...	16	18	22	28	34	53	90	100

BEAR RIVER BASIN

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²).

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m), from river-profile map. Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft³/s (0.008 m³/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 254 ft³/s (7.19 m³/s) June 7; minimum daily, 1.3 ft³/s (0.037 m³/s) May 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	149	20	5.4	36	28
2							---	166	40	5.4	32	25
3							---	144	73	5.4	35	25
4							---	109	89	5.9	31	24
5							---	91	102	6.3	24	24
6							---	85	194	7.2	27	24
7							---	76	254	14	38	24
8							---	63	249	36	53	22
9							---	69	237	45	57	22
10							---	72	225	114	82	23
11							---	69	245	182	46	22
12							---	66	213	138	50	22
13							---	62	156	100	59	22
14							---	58	53	85	52	21
15							---	54	69	73	47	22
16							---	50	70	40	43	21
17							---	49	55	90	44	22
18							---	218	24	49	45	25
19							---	216	1.3	41	46	25
20							---	192	1.8	32	47	24
21							---	206	1.8	9.1	49	42
22							---	212	1.7	11	55	34
23							---	165	1.6	13	56	31
24							---	189	1.6	14	56	31
25							---	194	2.8	14	53	28
26							---	158	3.4	14	50	2.1
27							---	157	4.1	13	49	5.4
28							---	157	5.4	12	46	15
29							---	157	3.4	5.4	50	20
30							---	149	4.4	5.4	60	23
31							---	9.5	---	51	33	---
TOTAL							---	1498.8	2576.9	1698.6	1382	698.5
MEAN							---	48.3	85.9	54.8	44.6	23.3
MAX							---	166	254	182	82	42
MIN							---	1.3	5.4	5.4	24	2.1
AC-FT							---	2970	5110	3370	2740	1390

BEAR RIVER BASIN

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE4NE4 sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi² (6,338 km²).

PERIOD OF RECORD.--April 1954 to current year.

REVISÉD RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (1,871 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--25 years, 424 ft³/s (12.0 m³/s), 307,200 acre-ft/yr (379 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 26, 1956, gage height, 7.54 ft (2.298 m); minimum, 31 ft³/s (0.878 m³/s) Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 978 ft³/s (27.7 m³/s) June 7, gage height, 4.68 ft (1.426 m); minimum, 88 ft³/s (2.49 m³/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	190	173	150	140	175	451	454	641	368	160	142
2	201	195	160	150	140	179	498	513	621	348	142	130
3	194	190	150	150	140	175	490	524	656	308	131	125
4	201	197	150	150	140	175	477	483	712	298	126	120
5	199	189	150	150	140	168	481	488	741	287	119	125
6	195	183	150	150	140	174	457	592	836	296	111	122
7	198	182	150	150	140	179	526	548	964	289	114	123
8	194	188	150	150	140	187	581	477	929	297	130	121
9	193	197	150	150	151	196	572	427	871	341	149	120
10	190	200	150	150	152	190	530	392	789	357	176	117
11	189	132	150	150	163	194	486	349	772	474	154	122
12	193	160	150	150	158	192	429	335	722	444	137	116
13	188	170	150	150	161	196	396	332	665	378	151	123
14	188	170	150	150	163	197	365	366	574	342	159	115
15	189	170	150	150	168	202	345	417	524	316	156	109
16	185	170	150	150	170	208	390	505	520	260	149	111
17	185	163	150	150	170	215	432	606	497	217	145	109
18	190	172	150	154	170	220	451	680	466	256	153	109
19	201	170	150	155	170	221	430	665	455	222	165	110
20	204	170	150	157	170	214	392	658	425	203	169	109
21	203	176	150	157	170	219	372	653	365	195	182	112
22	200	176	150	150	170	236	445	656	327	200	173	127
23	194	172	150	150	170	244	388	716	312	206	164	111
24	191	170	150	150	170	252	417	787	350	203	160	111
25	190	170	150	150	170	287	423	798	345	193	156	110
26	188	176	150	150	170	321	415	803	335	189	159	115
27	186	170	150	150	170	372	412	830	333	182	160	93
28	177	170	150	150	170	442	429	849	324	174	159	88
29	174	170	150	150	---	521	467	888	313	166	155	94
30	171	176	150	150	---	548	475	855	303	170	152	99
31	170	---	150	150	---	483	---	735	---	171	148	---
TOTAL	5930	5284	4683	4673	4446	7782	13422	18381	16687	8350	4664	3438
MEAN	191	176	151	151	159	251	447	593	556	269	150	115
MAX	209	200	173	157	170	548	581	888	964	474	182	142
MIN	170	132	150	150	140	168	345	332	303	166	111	88
AC-FT	11760	10480	9290	9270	8820	15440	26620	36460	33100	16560	9250	6820
CAL YR 1978	TOTAL	146937	MEAN 403	MAX	1820	MIN 83	AC-FT	291400				
WTR YR 1979	TOTAL	97740	MEAN 268	MAX	964	MIN 88	AC-FT	193900				

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, ID, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Idaho-Wyoming State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m), National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--42 years, 419 ft³/s (11.9 m³/s), 303,600 acre-ft/yr (374 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum, 24 ft³/s (0.68 m³/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 773 ft³/s (21.9 m³/s) May 30, gage height, 3.98 ft (1.213 m); minimum, 82 ft³/s (2.322 m³/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	174	135	130	140	185	416	462	548	274	141	138
2	213	190	135	130	140	186	443	500	478	279	133	128
3	199	183	135	130	140	190	452	545	481	250	120	123
4	201	189	135	130	140	190	440	510	532	241	116	119
5	205	183	135	130	140	190	452	510	564	234	110	119
6	201	183	135	135	140	190	428	587	612	232	95	119
7	199	178	136	135	145	200	491	571	722	232	89	116
8	199	183	135	135	145	200	558	503	740	227	92	114
9	198	190	135	140	145	210	567	452	729	252	98	114
10	190	198	130	140	145	210	542	413	659	286	105	111
11	190	195	130	140	150	210	510	368	629	343	122	114
12	194	195	130	145	150	210	450	348	593	353	99	111
13	189	190	130	145	150	210	410	336	535	317	106	112
14	183	190	130	145	160	210	380	370	478	286	114	110
15	180	190	130	150	160	210	360	443	413	259	120	101
16	178	180	130	150	165	220	400	516	411	238	116	101
17	174	170	130	150	165	230	450	599	399	183	112	95
18	174	160	130	150	165	240	449	662	370	198	111	94
19	181	160	130	147	170	240	428	673	360	181	122	94
20	189	160	130	145	170	240	391	656	355	167	127	94
21	185	160	130	145	170	240	365	652	315	154	139	94
22	185	150	130	140	170	250	411	642	271	154	153	108
23	185	150	130	140	175	260	394	652	255	162	147	99
24	183	150	130	140	175	270	399	697	252	158	151	95
25	183	140	130	140	180	290	408	725	269	151	146	95
26	181	140	130	140	180	312	405	697	269	146	146	102
27	181	140	130	140	180	334	397	711	262	141	147	91
28	176	140	130	140	185	388	413	722	255	136	147	85
29	174	140	130	140	---	455	449	740	264	136	144	85
30	171	140	130	140	---	494	471	747	241	136	141	91
31	169	---	130	140	---	452	---	642	---	144	138	---
TOTAL	5819	5091	4076	4347	4440	7916	13129	17651	13261	6650	3847	3172
MEAN	188	170	131	140	159	255	438	569	442	215	124	106
MAX	213	198	136	150	185	494	567	747	740	353	153	138
MIN	169	140	130	130	140	185	360	336	241	136	89	85
AC-FT	11540	10100	8080	8620	8810	15700	26040	35010	26300	13190	7630	6290
CAL YR 1978 TOTAL	147492		MEAN 404	MAX 1860	MIN 110	AC-FT 292600						
WTR YR 1979 TOTAL	89399		MEAN 245	MAX 747	MIN 85	AC-FT 177300						

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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to current year.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromhos Dec. 27, 1975; minimum daily, 312 micromhos Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.0°C Aug. 7, 1970, Aug. 9, 1972, July 7, 1973, July 24, 25, 1974, Aug. 4, 5, 1979; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 795 micromhos July 11; minimum daily, 354 micromhos May 26.
WATER TEMPERATURES: Maximum, 23.0°C Aug. 4, 5; minimum, 0.0°C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
OCT												
26...	1630	181	550	--	6.5	--	--	--	--	--	--	--
28...	1420	178	550	8.1	5.0	3	10.8	--	K4	27	260	50
NOV												
25...	1410	140	550	8.0	.0	4	11.8	9	K5	77	260	39
DEC												
07...	1240	136	625	--	.0	--	--	--	--	--	--	--
21...	1220	130	590	7.8	.0	3	9.8	13	K13	79	260	63
JAN												
19...	1220	147	560	--	.0	--	--	--	--	--	--	--
19...	1400	147	550	7.6	.0	3	9.5	--	30	26	260	45
FEB												
24...	1330	175	580	8.2	.0	3	11.8	31	K1	K13	270	70
MAR												
02...	1145	186	495	--	.0	--	--	--	--	--	--	--
APR												
01...	1300	408	695	8.0	2.0	40	10.6	36	K10	K640	260	48
18...	1525	449	620	--	10.5	--	--	--	--	--	--	--
29...	1500	468	610	8.1	12.0	55	8.8	21	K10	K5	250	40
MAY												
18...	1230	662	430	--	12.5	--	--	--	--	--	--	--
JUN												
01...	1530	548	400	--	12.5	--	--	--	--	--	--	--
03...	1400	484	540	8.0	14.0	40	8.2	25	220	K1600	240	47
24...	1400	247	620	8.1	17.0	6	8.9	31	K20	K1600	250	39
28...	1050	255	560	--	15.5	--	--	--	--	--	--	--
AUG												
02...	1655	133	540	--	21.0	--	--	--	--	--	--	--
03...	1430	120	560	8.2	20.0	6	9.4	23	K44	--	230	33
30...	0800	136	550	8.1	14.0	15	6.9	63	210	230	250	51
SEP												
11...	1430	114	530	--	15.0	--	--	--	--	--	--	--
27...	0740	91	590	8.1	10.0	10	7.3	19	290	K930	270	48

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

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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												
26...	--	--	--	--	--	--	--	--	--	--	--	--
28...	66	23	22	.6	--	2.0	240	0	210	70	27	.2
NOV												
25...	64	24	24	.7	--	2.0	280	0	220	72	26	.2
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	64	25	23	.6	--	2.1	250	0	200	70	27	.2
JAN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	66	22	19	.5	--	1.8	250	0	210	62	20	.1
FEB												
24...	70	23	20	.5	--	1.9	250	3	200	69	19	.2
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
01...	54	30	38	1.0	--	5.2	260	0	210	96	33	.2
18...	--	--	--	--	--	--	--	--	--	--	--	--
29...	62	23	26	.7	28	2.4	250	0	210	74	25	.2
MAY												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
03...	62	20	22	.6	24	2.4	230	0	190	55	21	.2
24...	60	24	28	.8	--	2.3	240	0	210	71	30	.2
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
03...	57	22	20	.6	23	2.6	250	0	200	67	24	.2
30...	61	24	25	.7	27	2.2	240	0	200	76	26	.2
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	66	25	26	.7	28	2.1	280	0	220	75	25	.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 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)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
28...	7.5	336	344	.47	165	.07	.05	--	.10	--	.58
NOV											
25...	8.5	372	310	.42	117	.29	.15	--	.03	--	.53
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	9.4	359	341	.46	120	.41	.31	--	.13	--	.39
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	9.8	301	327	.44	130	.32	--	--	--	--	--
FEB											
24...	9.0	357	332	.45	157	.27	.22	--	.16	--	.52
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	11	399	394	.54	434	.02	.13	--	.16	--	.81
18...	--	--	--	--	--	--	--	--	--	--	--
29...	7.8	352	347	.47	438	.41	.12	--	.09	.11	.31
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
03...	7.8	315	305	.41	399	.00	.10	--	.12	.15	.74
24...	6.6	367	340	.46	227	.02	.02	--	.07	.08	.50
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	7.1	347	320	.44	104	.72	.11	--	.16	.19	.94
30...	7.7	347	342	.47	126	.00	.02	--	.03	.04	.51
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--
27...	8.1	372	360	.49	88.5	--	.08	.06	.10	.12	.70

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
28...	.68	.05	.63	.73	3.2	--	.03	--	--	.02	--
NOV											
25...	.56	.00	.57	.71	3.1	--	.01	--	--	.00	2.5
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	.52	.01	.51	.83	3.7	--	.03	--	--	.02	1.7
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	.02	--	--	.01	--
FEB											
24...	.68	.16	.52	.90	4.0	--	.03	--	--	.01	2.1
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	.97	.70	.27	1.1	4.9	--	.05	--	--	.02	11
18...	--	--	--	--	--	--	--	--	--	--	--
29...	.40	.11	.29	.52	2.3	--	.12	.37	.37	.02	--
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
03...	.86	.18	.68	.96	4.3	--	.04	.12	.12	.02	5.5
24...	.57	.56	.01	.59	2.6	--	.03	.03	.03	.01	4.9
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	1.1	.33	.77	1.2	5.4	--	.08	--	.25	.00	--
30...	.54	.06	.48	.56	2.5	--	.04	--	.12	.00	4.8
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--
27...	.80	.23	.57	.88	3.9	.63	.05	--	.15	.00	5.8
DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
28...	2.5	.5	--	--	--	--	--	--	11	5.3	98
NOV											
25...	--	--	190	--	--	--	--	--	26	9.8	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	32	11	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	60	24	--
FEB											
24...	--	--	--	--	--	--	--	--	18	8.5	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	62	68	--
18...	--	--	--	--	--	--	--	--	--	--	--
29...	3.8	1.1	1500	--	--	--	--	--	178	225	97
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	990	16.9	18.7	250	7.19	1.00	94	123	94
24...	--	--	860	126	129	1149	2.61	.090	69	46	84
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	3.4	.3	--	--	--	--	--	--	46	15	95
30...	--	--	2300	10.7	12.6	6762	.281	.071	64	24	98
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	7500	.240	.390	1154	.130	.000	82	20	79

BEAR RIVER BASIN

219

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 28...	1420	1	1	0	0	0	1	0	3	0
JAN 19...	1400	1	1	100	10	90	6	0	8	20
APR 29...	1500	1	2	100	0	100	3	2	<1	10
AUG 03...	1430	2	2	100	20	80	1	0	2	0

DATE	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
OCT 28...	0	0	0	0	0	6	2	4	300	280
JAN 19...	10	10	1	0	<3	5	3	2	190	160
APR 29...	10	0	0	0	<3	4	2	2	2400	2400
AUG 03...	0	0	0	0	<3	1	1	0	210	190

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 28...	20	8	6	2	40	30	10	.0	.0	.0
JAN 19...	30	6	6	0	20	10	10	.0	.0	.0
APR 29...	40	23	23	0	230	220	10	.0	.0	.0
AUG 03...	20	2	2	0	40	20	20	.0	.0	.0

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	0	0	0	0	0	0	50	30	20
JAN 19...	0	0	0	0	0	0	20	20	<3
APR 29...	1	0	1	0	0	0	100	100	<3
AUG 03...	0	0	0	0	0	0	30	30	<3

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 03...	1400	.0	0	.00	.1	.0	0	.00	.0	.00	.1
AUG 03...	1430	ND	--	ND	--	ND	--	ND	--	ND	--
SEP 27...	0740	.0	0	.00	.0	.0	0	.00	.1	.00	.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 03...	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00	.0
AUG 03...	ND	--	ND	ND	--	--	ND	--	ND	ND	--
SEP 27...	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00	.0

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
JUN 03...	.00	.0	.00	.0	.00	.00	ND	.00	.00	.00	.00
AUG 03...	ND	--	ND	--	ND	ND	--	ND	ND	--	ND
SEP 27...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00	.00

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 03...	.00	0	0	.00	.00	0	.00	0	.00	.0
AUG 03...	--	ND	--	ND	--	--	--	--	--	--
SEP 27...	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
JUN 3...	.00	0	.00	0
SEP 27...	.00	0	.00	0

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	527	544	525	617	564	522	616	548	402	600	565	524
2	531	574	530	573	565	528	657	516	591	759	576	530
3	525	557	578	573	576	541	660	516	576	655	554	529
4	517	561	550	571	555	543	714	518	594	634	557	529
5	525	542	541	573	565	530	725	510	590	649	568	515
6	519	553	498	575	553	503	722	516	596	644	549	515
7	535	552	582	510	541	501	722	518	578	740	532	546
8	519	552	622	550	508	511	735	507	590	738	566	546
9	526	542	631	569	530	501	673	541	587	727	577	550
10	532	544	626	588	525	520	670	561	593	727	564	552
11	526	549	620	550	552	520	676	550	604	795	577	558
12	539	517	668	526	540	509	689	556	598	718	560	550
13	512	514	608	541	552	514	695	552	598	707	577	546
14	522	556	665	521	530	509	695	552	595	607	572	546
15	519	572	420	530	541	504	680	552	547	618	560	540
16	513	562	576	530	550	480	692	395	590	624	546	552
17	528	551	450	535	539	515	683	383	590	618	544	529
18	507	552	625	538	537	498	659	395	573	591	562	552
19	525	542	566	547	551	497	648	395	573	607	596	569
20	544	548	518	538	560	497	656	396	601	596	503	563
21	531	573	582	558	550	524	651	368	590	602	542	569
22	551	572	528	566	539	524	634	357	587	623	531	565
23	508	572	552	524	539	532	628	358	583	615	478	565
24	550	563	552	542	539	543	587	358	547	626	454	560
25	537	569	618	551	533	562	587	360	558	639	564	565
26	439	572	596	556	539	530	587	354	558	613	552	560
27	533	528	607	543	524	541	587	412	577	589	558	560
28	532	581	594	562	522	524	587	408	586	594	530	565
29	539	575	595	562	---	622	528	414	578	599	513	562
30	549	553	595	593	---	610	529	367	589	582	519	565
31	578	---	592	593	---	610	---	400	---	585	530	---
MEAN	527	555	575	555	544	528	652	456	577	646	548	549
WTR YR 1979	MEAN	559	MAX	795	MIN	354						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	4.5	1.0	.5	.0	1.0	4.0	11.5	14.0	15.5	22.0	18.0
2	11.0	10.0	1.0	.5	.0	1.0	4.0	10.5	14.5	18.5	22.0	18.5
3	10.0	8.5	1.0	.5	.0	1.0	4.0	10.5	14.5	20.0	22.5	18.0
4	10.0	8.0	1.0	.0	.0	1.0	5.5	9.5	14.5	18.5	23.0	18.0
5	10.0	8.5	1.0	.0	.0	1.5	5.5	9.0	15.5	17.5	23.0	18.0
6	10.5	8.0	1.0	.5	.0	1.5	5.5	9.0	15.5	15.5	22.0	18.0
7	10.0	8.5	1.0	.5	.0	1.5	7.0	9.0	15.5	16.5	21.5	17.5
8	10.0	8.5	1.0	.5	.0	1.5	7.0	9.0	15.0	16.5	20.5	18.0
9	10.5	7.5	1.0	.5	.0	1.5	6.5	14.0	15.0	17.0	20.5	17.0
10	10.0	7.5	1.0	.5	.0	1.5	6.5	15.0	16.0	17.0	20.0	16.0
11	10.5	3.0	1.0	.5	.0	1.5	7.0	15.0	16.0	18.0	20.0	15.0
12	10.0	1.5	.5	1.0	.0	1.5	7.0	15.0	18.0	20.0	18.0	17.0
13	10.0	1.5	.5	1.0	.0	1.5	8.0	15.0	18.5	20.0	18.0	17.0
14	10.0	1.0	.5	1.0	.0	1.0	8.0	15.5	18.5	21.0	18.0	17.0
15	10.0	1.5	.5	.5	.0	1.0	10.0	15.5	18.5	21.0	19.0	17.0
16	10.0	1.5	1.0	.5	.0	1.0	11.5	15.5	17.0	21.0	19.0	17.5
17	10.0	1.5	1.0	.5	.0	1.5	12.5	15.5	14.0	21.0	19.0	18.0
18	10.5	1.5	1.0	.5	.0	1.5	10.5	15.5	13.5	21.0	18.5	17.0
19	10.5	1.5	1.0	.5	.0	1.5	10.5	15.5	13.5	20.0	18.5	16.5
20	7.5	1.5	1.0	.5	.0	1.5	10.5	15.5	15.5	19.0	18.0	16.5
21	8.0	1.5	1.0	.5	.0	5.0	10.5	15.5	15.5	18.5	15.0	16.5
22	7.5	1.0	1.0	.5	.0	6.5	12.5	15.5	16.0	18.0	18.0	16.5
23	7.0	1.0	1.0	.5	.0	6.0	10.5	15.5	15.5	18.0	18.0	16.0
24	6.5	1.0	1.0	.5	.0	5.5	11.0	15.5	18.5	20.0	18.0	16.0
25	6.5	1.5	.5	.5	.0	5.0	12.0	14.5	19.5	21.0	18.0	16.0
26	6.5	1.0	.5	.5	.0	5.0	12.0	15.0	17.5	21.0	18.0	16.0
27	6.5	1.0	.0	1.5	.0	5.5	12.0	10.0	17.5	21.0	18.0	15.5
28	5.0	1.5	.0	1.0	.0	5.0	12.5	10.5	17.5	21.0	18.0	15.0
29	6.0	1.5	.0	.5	---	4.5	11.5	10.5	15.5	21.0	18.0	14.5
30	6.0	1.5	.0	.5	---	4.0	11.5	10.0	15.5	21.0	18.0	14.0
31	9.5	---	.0	.5	---	4.0	---	13.5	---	21.0	18.0	---
MEAN	9.0	3.5	.5	.5	.0	2.5	9.0	13.0	16.0	19.0	19.5	16.5
WTR YR 1979	MEAN	9.0	MAX	23.0	MIN	.0						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
PHYTOPLANKTON ANALYSES

DATE TIME	NOV 25,78 1410	APR 29,79 1500	JUN 3,79 1400	JUN 24,79 1400	AUG 30,79 0800	SEP 27,79 0740
TOTAL CELLS/ML	190	1500	990	860	2300	7500
DIVERSITY: DIVISION	0.4	1.6	1.7	1.6	0.9	0.4
..CLASS	0.4	1.6	1.7	1.6	0.9	0.4
..ORDER	1.2	2.3	2.1	2.2	1.5	0.7
...FAMILY	1.2	3.0	2.5	2.7	2.1	0.7
....GENUS	0.0	3.4	2.5	2.8	2.2	0.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	100	10	--	-	--	-	--	-
....MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	13	1	--	-	--	-
....MICRACTINIUM	--	-	290#	19	--	-	--	-	--	-	--	-
....OOCYSTACEAE												
....ANKISTRODESUS	--	-	200	13	64	6	51	6	160	7	--	-
....CHLORELLA	--	-	14	1	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	29	2	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	100	7	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	13	1	--	-	--	-
....SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	--	-	160	7	--	-
....SCENEDESMUS	120#	62	43	3	52	5	77	9	160	7	--	-
....VOLVOCALES												
...CHLAMYDOMONADACEAE	58#	31	--	-	--	-	--	-	--	-	--	-
...CHLAMYDOMONAS	--	-	160	10	--	-	26	3	--	-	60	1
...CHLOROGONIUM	--	-	--	-	13	1	--	-	--	-	--	-
CHRYSTOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	29	2	180#	18	230#	27	1300#	58	6700#	90
...PENNALES												
....CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	--	-	20	1	--	-
....DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	--	-	60	3	--	-
....FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	13	1	--	-	--	-	--	-
....SYNEURA	14	8	--	-	--	-	26	3	--	-	--	-
...GOMPHONEMACEAE												
....GOMPHONEMA	--	-	--	-	--	-	13	1	--	-	--	-
....NAVICULACEAE												
....NAVICULA	--	-	86	6	--	-	--	-	40	2	120	2
....NITZSCHACEAE												
....NITZSCHIA	--	-	170	11	180#	18	150#	18	240	10	300	4
....SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	13	1	60	3	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	40	2	60	1
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	26	3	--	-	--	-	60	1
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	110	8	360#	36	230#	27	--	-	60	1
...HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	170	11	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	14	1	--	-	13	1	20	1	--	-
....PHACUS	--	-	14	1	--	-	--	-	--	-	--	-
....TRACHELONAS	--	-	72	5	--	-	--	-	--	-	120	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, WY, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, ID.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m), from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--30 years, 54.4 ft³/s (1.54 m³/s), 39,410 acre-ft/yr (48.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
May 5	2400	307	8.69	2.32	0.707
May 16	2400	*331	9.37	2.39	.728

Minimum discharge, 9.4 ft³/s (0.266 m³/s) Mar. 1, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	20	17	16	16	16	17	138	124	44	21	16
2	21	20	17	16	16	16	17	166	119	43	21	16
3	21	19	17	16	16	16	17	168	113	42	20	15
4	21	19	18	16	16	16	17	180	106	42	19	15
5	21	18	19	16	16	16	18	223	101	40	19	15
6	21	21	20	16	16	17	21	263	98	40	19	14
7	21	21	20	16	17	17	27	202	96	40	19	14
8	21	20	20	16	17	19	28	192	95	38	20	14
9	21	19	20	16	17	19	32	174	91	36	22	14
10	21	17	20	16	17	18	28	163	84	35	24	14
11	20	18	19	16	17	18	26	149	81	35	20	14
12	20	20	19	16	17	17	25	144	78	34	21	14
13	20	19	19	16	17	17	24	152	75	33	29	14
14	20	18	19	16	17	17	25	183	73	31	23	14
15	20	17	19	16	17	17	36	214	69	31	22	14
16	20	17	18	16	17	17	47	260	67	30	22	14
17	20	17	18	16	17	16	67	284	65	28	22	14
18	21	18	18	16	17	16	74	277	65	27	20	13
19	20	18	18	16	17	16	60	256	70	28	21	13
20	20	18	18	16	17	16	53	244	63	27	24	14
21	20	17	17	16	17	16	62	229	60	26	22	13
22	20	18	17	16	17	16	84	219	57	32	19	13
23	20	18	17	16	17	17	94	207	55	32	18	13
24	20	18	17	16	17	17	85	196	54	28	18	13
25	19	18	16	16	17	17	80	185	52	26	17	13
26	19	18	16	16	17	17	88	176	49	26	17	15
27	20	18	16	16	17	18	102	163	49	26	17	15
28	19	18	16	16	16	19	121	161	48	24	17	14
29	19	18	16	16	---	19	133	157	46	23	16	13
30	20	18	16	16	---	19	135	141	45	22	16	13
31	21	---	16	16	---	18	---	132	---	21	16	---
TOTAL	629	553	553	496	469	530	1643	5998	2248	990	621	420
MEAN	20.3	18.4	17.8	16.0	16.8	17.1	54.8	193	74.9	31.9	20.0	14.0
MAX	22	21	20	16	17	19	135	284	124	44	29	16
MIN	19	17	16	16	16	16	17	132	45	21	16	13
AC-FT	1250	1100	1100	984	930	1050	3260	11900	4460	1960	1230	833

CAL YR 1978 TOTAL 30324 MEAN 83.1 MAX 672 MIN 11 AC-FT 60150
WTR YR 1979 TOTAL 15150 MEAN 41.5 MAX 284 MIN 13 AC-FT 30050

SNAKE RIVER BASIN

SNAKE RIVER MAIN STEM

13010500 JACKSON LAKE NEAR MORAN, WY

LOCATION.--Lat 43°51'33", long 110°35'23", in SE4SW4 sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, near left end of spillway over Jackson Lake Dam on Snake River, 4.3 mi (6.9 km) west of Moran, and at mile 988.9 (1,591.1 km).

DRAINAGE AREA.--807 mi² (2,090 km²).

PERIOD OF RECORD.--July 1908 to September 1979 (discontinued), 1908-10 fragmentary. Prior to October 1968, published as "at Moran".

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

GAGE.--Water-stage recorder. Datum of gage is 6,700.00 ft (2,042.160 m), Water and Power Resources Service datum. Datum of Geological Survey, National Geodetic Vertical Datum of 1929, is 2.08 ft (0.634 m) lower. July 1908 to June 1, 1941, nonrecording gage at site 300 ft (91 m) upstream at same datum. June 1, 1941, to Feb. 17, 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft (370 hm³). 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 (469 hm³). The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft (974 hm³). In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft (1,040 hm³) between elevations 6,730 ft (2,051 m), top of baffles to sluices, and 6,769 ft (2,063 m), top of spillway gates. Reservoir is used to store water for irrigation in Snake River valley in Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 859,530 acre-ft (1,060 hm³) July 11, 1965, elevation, 6,769.49 ft (2,063.341 m); no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 626,500 acre-ft (772 hm³) June 27, elevation, 6,760.09 ft (2,060.475 m); maximum elevation, 6,760.14 ft (2,060.491 m) June 25, 27 (wind affected); minimum, 467,400 acre-ft (576 hm³) May 15, elevation, 6,753.30 ft (2,058.406 m).

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

6,740	182,500
6,750	392,900
6,760	624,400
6,770	872,600

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	535000	540000	549000	567000	571000	559000	530000	485000	569000	622000	576000	519000
2	535000	540000	550000	568000	570000	559000	529000	484000	569000	621000	574000	517000
3	535000	540000	550000	569000	570000	558000	528000	483000	572000	619000	572000	515000
4	536000	540000	550000	569000	570000	557000	527000	482000	577000	619000	570000	512000
5	536000	540000	553000	569000	569000	556000	526000	482000	584000	619000	568000	510000
6	536000	539000	553000	569000	569000	556000	525000	482000	591000	617000	566000	508000
7	536000	540000	553000	569000	568000	555000	524000	482000	595000	617000	564000	506000
8	537000	540000	553000	569000	568000	554000	523000	482000	596000	616000	562000	504000
9	537000	540000	554000	570000	568000	553000	522000	479000	596000	614000	561000	502000
10	537000	541000	554000	570000	567000	552000	521000	476000	596000	612000	559000	500000
11	537000	541000	556000	572000	567000	550000	520000	474000	598000	611000	557000	499000
12	538000	541000	556000	573000	567000	550000	519000	472000	602000	608000	555000	498000
13	537000	542000	556000	574000	567000	549000	517000	470000	607000	607000	554000	498000
14	537000	542000	557000	575000	567000	547000	515000	468000	612000	605000	553000	498000
15	537000	542000	557000	576000	567000	546000	514000	467000	616000	604000	551000	499000
16	537000	542000	558000	577000	566000	545000	512000	471000	617000	603000	549000	498000
17	538000	542000	558000	577000	566000	544000	510000	475000	618000	601000	548000	499000
18	538000	542000	560000	578000	565000	543000	508000	480000	617000	600000	546000	499000
19	538000	542000	560000	577000	565000	542000	505000	484000	616000	598000	544000	499000
20	538000	543000	561000	577000	565000	541000	504000	492000	616000	596000	542000	498000
21	539000	543000	561000	577000	564000	540000	502000	499000	617000	594000	541000	498000
22	539000	544000	563000	576000	563000	538000	501000	508000	620000	592000	539000	499000
23	539000	545000	563000	576000	563000	537000	499000	517000	622000	592000	537000	498000
24	540000	545000	564000	576000	562000	536000	496000	527000	625000	590000	535000	498000
25	539000	545000	563000	575000	562000	536000	494000	536000	626000	589000	533000	498000
26	539000	545000	564000	574000	561000	535000	491000	546000	626000	587000	531000	499000
27	540000	545000	565000	574000	561000	535000	489000	557000	627000	585000	528000	498000
28	540000	546000	566000	573000	560000	534000	488000	564000	626000	584000	527000	499000
29	539000	546000	567000	572000	---	533000	488000	568000	625000	582000	525000	499000
30	539000	547000	567000	571000	---	532000	487000	569000	624000	580000	524000	499000
31	539000	---	567000	571000	---	531000	---	569000	---	578000	520000	---
MAX	540000	547000	567000	578000	571000	559000	530000	569000	627000	622000	576000	519000
MIN	535000	539000	549000	567000	560000	531000	487000	467000	569000	578000	520000	498000
(+)	6756.31	6756.66	6733.05	6757.69	6757.22	6755.97	6754.06	6757.61	6759.98	6758.00	6755.49	6754.58
(‡)	+4700	+7200	+20000	-4300	-11100	-28600	-44700	+82700	+54900	-46200	-57600	-21800

CAL YR 1978 MAX 627000 MIN 287000 (+) +282,400
WTR YR 1979 MAX 627000 MIN 467000 (+) -36,200

(+) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft (305 m) downstream from Jackson Lake Dam, 4.1 mi (6.6 km) west of Moran, and at mile 984.5 (1,584.1 km).

DRAINAGE AREA.--807 mi² (2,090 km²). Mean altitude, 8,040 ft (2,450 m).

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. WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft (2,050.646 m), National Geodetic Vertical Datum of 1929 (levels by WPRS). Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi (2.4 km) downstream at different datums.

REMARKS.--Records excellent. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Once-daily gage readings for current reporting purposes furnished by Water and Power Resources Service.

AVERAGE DISCHARGE.--76 years, 1,439 ft³/s (40.75 m³/s), 1,043,000 acre-ft/yr (1,290 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) June 12, 1918, gage height, 10.41 ft (3.173 m), site and datum then in use; minimum, 0.30 ft³/s (0.01 m³/s) Oct. 26, 27, 28, 1969, gage height, 0.89 ft (0.271 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considerably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,920 ft³/s (139 m³/s) June 18, 19, gage height, 7.25 ft (2.210 m); minimum, 62 ft³/s (1.76 m³/s) Oct. 11, gage height, 1.55 ft (0.472 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	237	251	262	684	845	942	2050	3950	4100	1630	1500
2	263	237	250	262	684	845	942	2050	3930	3720	1620	1490
3	258	237	249	262	689	851	1000	2050	3940	3380	1620	1480
4	258	237	251	262	689	857	1060	2040	3930	3330	1620	1480
5	258	236	251	262	684	857	1060	2370	3950	3350	1620	1480
6	257	237	251	262	684	949	1060	2570	3970	3350	1620	1480
7	257	237	251	262	684	949	1060	2560	4010	3350	1620	1470
8	254	237	251	266	684	949	1060	2560	4010	3350	1620	1470
9	254	238	251	266	684	949	1070	2550	4190	3360	1560	1460
10	254	240	251	265	689	955	1070	2540	4490	3350	1520	1360
11	242	241	251	265	689	955	1060	2530	4620	2750	1520	702
12	239	241	252	265	695	955	1060	2550	4660	2460	1510	374
13	237	241	254	266	695	955	1360	2550	4780	2290	1520	289
14	237	241	254	266	695	955	1590	2540	4790	2180	1520	267
15	237	241	252	266	695	955	1580	2500	4850	2180	1520	254
16	237	241	254	266	735	955	1580	2520	4870	2030	1510	251
17	237	241	254	266	814	955	1580	2500	4900	1950	1500	251
18	240	243	254	377	832	955	1590	2510	4900	1950	1500	251
19	239	243	254	586	832	949	1580	2520	4910	1940	1500	251
20	239	244	254	713	832	949	1580	2530	4780	1930	1500	250
21	240	244	254	701	839	949	1580	2390	3760	1920	1490	249
22	239	245	254	695	839	949	1580	2220	3320	1930	1490	247
23	240	247	254	690	839	949	1880	2740	2610	1940	1510	248
24	240	246	254	687	845	949	2070	3120	2620	1750	1550	248
25	240	247	254	685	845	949	2060	3150	3450	1650	1530	248
26	240	247	254	684	845	949	2060	3330	3910	1640	1530	244
27	240	248	257	689	845	949	2060	3710	3940	1640	1520	236
28	240	247	257	684	845	949	1570	3910	3940	1640	1520	235
29	239	248	258	684	---	949	1790	3920	4040	1640	1510	235
30	237	248	258	684	---	942	2050	3940	4100	1630	1500	235
31	238	---	261	684	---	942	---	3950	---	1630	1500	---
TOTAL	7595	7257	7855	13734	21111	28969	43584	84970	124120	75310	47800	20235
MEAN	245	242	253	443	754	934	1453	2741	4137	2429	1542	675
MAX	265	248	261	713	845	955	2070	3950	4910	4100	1630	1500
MIN	237	236	249	262	684	845	942	2040	2610	1630	1490	235
AC-FT	15060	14390	15580	27240	41870	57460	86450	168500	246200	149400	94810	40140
CAL YR 1978 TOTAL	420306			MEAN 1152	MAX 5780	MIN 157	AC-FT 833700					
WTR YR 1979 TOTAL	482540			MEAN 1322	MAX 4910	MIN 235	AC-FT 957100					

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WY

LOCATION.-- Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec. 23, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 40 ft (12 m) upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5 (0.8 km).

DRAINAGE AREA.-- 169 mi² (502 km²). Mean altitude, 8,160 ft (2,490 m).

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. Altitude of gage is 6,720 ft (2,050 m) from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi (0.6 km) downstream at different datum. July 20, 1917, to Sept. 30, 1918, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Sept. 23, 1944, to Nov. 13, 1959, at site 100 ft (30 m) upstream at same datum. Nov. 14, 1959, to Sept. 24, 1975, at site 35 ft (11 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. No diversion or regulation.

AVERAGE DISCHARGE.--32 years (1944-75, 1979), 267 ft³/s (7.561 m³/s), 22.66 in/yr (576 mm/yr), 193,400 acre-ft/yr (238 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,790 ft³/s (107 m³/s) June 15, 1974, maximum gage height, 6.35 ft (1.935 m) June 23, 1971; minimum daily discharge, 19 ft³/s (0.54 m³/s) Dec. 31, 1979.

EXTREMES FOR CURRENT YEAR.-- Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 27	0245	*2,000 56.6	5.51 1.679	June 14	0145	1,760 49.8	5.41 1.649
June 6	2330	1,690 47.9	5.32 1.622				

Minimum daily discharge, 19 ft³/s (0.54) Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	48	40	20	22	42	47	416	781	434	87	61
2	75	48	35	23	24	42	47	434	772	388	85	61
3	71	49	39	26	26	40	45	429	854	356	82	59
4	67	50	41	28	27	42	46	495	1160	331	80	56
5	69	50	39	25	28	46	46	562	1320	306	78	54
6	65	47	34	23	29	50	48	781	1540	283	76	52
7	66	45	29	22	30	56	57	602	1400	266	76	52
8	65	45	28	23	31	54	59	487	1090	249	76	52
9	63	45	32	24	33	51	57	402	901	221	78	52
10	63	45	36	26	35	50	56	347	890	187	78	50
11	63	44	41	29	40	50	56	323	1000	166	74	48
12	63	43	44	30	41	50	55	305	1180	162	74	48
13	61	42	44	29	39	50	52	299	1400	159	78	48
14	57	40	42	27	36	50	51	329	1530	152	80	48
15	58	44	40	26	35	49	55	468	1340	149	79	48
16	57	48	39	26	35	49	65	740	1130	145	79	48
17	58	51	37	26	36	50	82	993	1080	133	73	46
18	62	54	36	26	37	51	102	1130	1050	129	71	46
19	63	55	36	26	38	50	107	1190	897	124	71	46
20	64	55	35	26	39	49	100	1260	776	118	73	45
21	65	54	35	26	40	48	102	1330	719	116	74	45
22	65	54	35	26	39	49	124	1460	714	116	71	45
23	65	54	36	27	39	48	146	1510	720	130	69	43
24	61	52	36	27	38	49	149	1580	709	128	65	43
25	61	45	37	27	39	49	149	1620	705	114	63	43
26	60	43	36	26	40	49	152	1740	662	107	65	45
27	56	44	35	25	41	50	177	1810	623	102	63	49
28	56	48	34	24	41	50	255	1800	578	102	64	50
29	56	50	24	23	---	51	303	1620	530	99	65	50
30	55	47	21	22	---	50	367	1120	485	92	61	47
31	51	---	19	21	---	50	---	937	---	69	60	---
TOTAL	1935	1439	1095	785	978	1514	3157	28519	28536	5633	2268	1480
MEAN	62.4	48.0	35.3	25.3	34.9	48.8	105	920	951	182	73.2	49.3
MAX	75	55	44	30	41	56	367	1810	1540	434	87	61
MIN	51	40	19	20	22	40	45	299	485	69	60	43
AC-FT	3840	2850	2170	1560	1940	3000	6260	56570	56600	11170	4500	2940
WTR YR 1979	TOTAL	77339	MEAN	212	MAX	1810	MIN	19	AC-FT	153400		

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE&NE& sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--323 mi² (837 km²).

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 4 mi (6 km) downstream.

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

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m), National Geodetic Vertical Datum of 1929 (U.S. Bureau of Public Roads bench mark).

REMARKS.--Records good except those for winter period, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--14 years (water years 1966-79), 571 ft³/s (16.17 m³/s), 413,700 acre-ft/yr (510 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft³/s (170 m³/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft³/s (2.32 m³/s) Jan. 28-31, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft³/s (87.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 29	0500	3,520 99.7	6.28 1.914	June 15	0430	*4,060 115	6.76 2.060
June 7	0130	3,200 90.6	5.97 1.820				

Minimum daily discharge, 83 ft³/s (2.35 m³/s) Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	185	150	94	90	110	120	404	1220	1820	365	272
2	283	190	145	105	94	110	120	434	1130	1630	355	256
3	274	197	120	115	97	110	115	417	1200	1490	343	247
4	273	195	125	120	100	110	120	471	1630	1280	334	240
5	266	191	130	115	105	110	125	525	2320	1300	325	235
6	261	160	125	97	105	114	131	667	2860	1120	319	229
7	259	170	115	98	108	135	141	542	2670	1070	315	224
8	257	185	110	98	110	130	131	473	1770	1050	325	221
9	254	190	115	102	115	125	139	405	1370	992	326	217
10	250	180	130	115	125	125	143	369	1250	923	398	213
11	248	180	145	120	130	125	138	352	1560	886	331	210
12	245	180	155	125	130	120	134	336	2150	800	316	209
13	232	175	145	120	130	120	135	346	2920	793	403	207
14	233	170	135	120	120	120	132	381	3600	744	354	206
15	235	165	130	120	110	120	139	493	3330	681	334	204
16	232	140	125	120	100	120	156	694	2520	653	313	199
17	232	150	120	120	100	120	187	854	2280	655	299	196
18	245	165	120	120	102	120	230	1010	2480	610	297	193
19	237	175	120	125	105	120	218	1150	1740	569	323	191
20	231	180	125	120	105	120	191	1280	1360	540	356	190
21	228	180	125	125	108	120	198	1490	1310	537	338	190
22	221	175	130	125	108	125	223	1830	1380	508	318	189
23	209	170	135	132	108	125	256	2170	1570	588	301	183
24	213	155	135	135	108	125	264	2390	1780	543	296	180
25	211	135	140	145	108	125	252	2550	2020	483	285	180
26	195	135	135	140	108	125	250	2930	2190	454	276	198
27	200	138	130	135	108	125	269	3110	2270	429	273	205
28	216	140	120	125	108	125	311	3140	2250	416	295	191
29	204	150	110	115	---	125	350	3080	2140	401	288	185
30	186	150	95	100	---	125	389	2010	2040	395	266	177
31	180	---	83	87	---	125	---	1510	---	380	273	---
TOTAL	7298	5051	3923	3633	3045	3754	5707	37813	60310	24740	9940	6237
MEAN	235	168	127	117	109	121	190	1220	2010	798	321	208
MAX	288	197	155	145	130	135	389	3140	3600	1820	403	272
MIN	180	135	83	87	90	110	115	336	1130	380	266	177
AC-FT	14480	10020	7780	7210	6040	7450	11320	75000	119600	49070	19720	12370
CAL YR 1978 TOTAL	233180		MEAN 639	MAX 3640	MIN 83	AC-FT 462500						
WTR YR 1979 TOTAL	171451		MEAN 470	MAX 3600	MIN 83	AC-FT 340100						

FLAT CREEK BASIN

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--10.6 mi² (27.4 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Oct. 1-4, Dec. 11-27, Jan. 1 to Feb. 13, which are poor. No diversion above station.

AVERAGE DISCHARGE.--17 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Jan. 1, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52 ft³/s (1.47 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 11	1200	--	--	June 5	2200	55	1.56
May 28	1830	*72	2.04				
			a*3.30 1.006				2.79 0.850
			2.96 .902				

a-Backwater from ice.

Minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.6	4.9	3.0	3.4	3.3	3.9	10	41	28	12	7.8
2	7.8	6.6	4.8	3.2	3.5	3.3	4.0	10	37	26	12	7.6
3	7.6	6.6	4.7	3.4	3.5	3.6	4.0	11	38	26	12	7.6
4	7.6	6.4	4.8	3.5	3.5	3.8	4.0	12	44	24	11	7.4
5	7.6	6.4	4.8	3.5	3.5	3.8	4.0	13	52	24	11	7.4
6	7.6	6.2	4.8	3.3	3.5	3.9	4.3	15	54	23	11	7.4
7	7.6	6.2	4.5	3.5	3.5	3.9	4.3	13	51	22	11	7.2
8	7.6	6.4	4.2	3.7	3.5	3.8	4.3	12	45	21	12	7.2
9	7.4	6.4	4.4	3.9	3.5	4.0	4.3	11	41	21	11	7.0
10	7.4	6.2	4.6	4.1	3.5	4.2	4.2	10	39	20	11	7.0
11	7.4	6.0	4.6	4.2	3.5	4.4	4.2	9.9	40	19	11	7.0
12	7.4	5.8	4.6	4.2	3.6	4.2	4.3	9.9	43	19	11	7.0
13	7.2	5.6	4.6	4.1	3.6	4.2	4.3	11	47	18	11	7.0
14	7.2	5.2	4.6	4.0	3.6	4.1	4.3	13	48	18	11	7.0
15	7.2	4.8	4.6	4.0	3.6	4.2	4.6	18	46	17	10	7.0
16	7.2	4.6	4.4	3.8	3.5	4.3	5.0	20	43	17	9.7	6.8
17	7.0	4.4	4.4	3.8	3.6	4.0	5.8	21	41	16	9.7	6.6
18	7.0	4.6	4.4	3.8	3.6	4.0	5.8	23	41	16	9.7	6.6
19	7.0	4.8	4.2	4.0	3.6	4.0	5.4	24	38	15	9.7	6.4
20	7.0	5.0	4.4	4.2	3.6	3.9	5.4	28	35	15	9.7	6.4
21	7.0	5.0	4.4	4.2	3.6	3.9	5.5	33	34	15	9.4	6.2
22	6.8	5.0	4.4	4.1	3.6	3.9	6.2	39	33	15	9.2	6.2
23	6.8	5.0	4.4	4.0	3.6	3.9	6.8	45	32	15	8.7	6.2
24	6.8	5.0	4.4	4.0	3.6	3.9	6.6	52	31	14	8.7	6.2
25	6.6	5.2	4.2	4.0	3.4	3.9	6.2	55	31	14	8.5	6.2
26	6.6	5.2	4.3	3.8	3.4	3.9	6.6	59	31	13	8.5	6.6
27	6.6	5.0	4.4	3.8	3.4	3.9	8.2	64	31	13	8.2	6.4
28	6.6	4.9	4.5	3.8	3.3	3.9	8.7	66	30	13	8.5	6.2
29	6.6	4.9	4.1	3.8	---	3.9	9.2	62	29	13	8.2	6.2
30	7.2	4.9	3.7	3.5	---	3.9	9.7	52	28	12	8.0	6.2
31	7.0	---	3.2	3.2	---	3.9	---	44	---	12	8.2	---
TOTAL	222.2	164.9	137.3	117.4	98.6	121.8	164.1	865.8	1174	554	310.6	204.0
MEAN	7.17	5.50	4.43	3.79	3.52	3.93	5.47	27.9	39.1	17.9	10.0	6.80
MAX	7.8	6.6	4.9	4.2	3.6	4.4	9.7	66	54	28	12	7.8
MIN	6.6	4.4	3.2	3.0	3.3	3.3	3.9	9.9	28	12	8.0	6.2
AC-FT	441	327	272	233	196	242	325	1720	2330	1100	616	405
CAL YR 1978	TOTAL	5598.9	MEAN 15.3	MAX 100	MIN 2.1	AC-FT 11110						
WTR YR 1979	TOTAL	4134.7	MEAN 11.3	MAX 66	MIN 3.0	AC-FT 8200						

FLAT CREEK BASIN

229

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
04...	1000	--	7.6	285	8.6	2.0	1	10.8	12	4	18	180
30...	1430	--	8.2	290	8.3	.5	2	9.8	3	2	18	170
NOV												
28...	1700	4.9	--	310	8.4	1.0	1	10.8	1	2	5	170
DEC												
27...	1340	4.4	--	300	8.6	.0	1	--	31	21	3	170
FEB												
13...	1455	--	3.6	310	8.3	2.0	1	10.5	11	14	9	160
MAR												
08...	0920	--	3.8	220	8.7	1.0	1	10.8	1	8	2	160
APR												
03...	1530	4.0	--	310	9.1	.0	1	11.4	0	3	9	170
30...	1525	--	9.4	340	8.8	5.0	2	11.1	0	2	8	200
JUN												
05...	1730	--	54	260	8.3	7.5	19	9.7	0	<1	8	160
JUL												
02...	1300	--	26	320	8.3	8.5	--	9.9	50	46	K17	140
31...	1400	--	12	310	8.7	9.0	1	9.1	47	2	130	150
SEP												
05...	0905	--	7.6	310	8.4	5.5	--	9.7	--	5	53	170

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

DATE	HARD- NESS, NONCAR- BONATE (MG/L 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+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (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												
04...	5	47	14	1.9	.1	--	.5	170	4.0	.7	.1	5.2
30...	7	42	15	2.1	.1	--	.5	160	6.7	.7	.1	4.7
NOV												
28...	3	46	14	2.3	.1	--	.6	170	5.1	.7	.1	4.9
DEC												
27...	5	43	14	2.1	.1	--	.6	160	5.8	.8	.1	4.9
FEB												
13...	0	42	14	2.1	.1	--	.5	170	2.8	.8	.1	5.5
MAR												
08...	0	42	14	2.3	.1	--	.5	170	6.3	.7	.1	5.3
APR												
03...	4	45	15	2.4	.1	--	.6	170	6.1	.8	.1	5.1
30...	19	55	15	3.7	.1	--	.8	180	16	1.2	.1	5.5
JUN												
05...	14	46	12	2.1	.1	2.9	.8	150	12	.7	.1	4.1
JUL												
02...	0	38	11	1.7	.1	2.5	.8	150	7.2	.7	.1	4.0
31...	0	38	14	1.8	.1	2.5	.7	160	2.5	.7	.1	4.7
SEP												
05...	12	44	15	2.1	.1	2.6	.5	160	9.1	.7	.1	4.6

FLAT CREEK BASIN

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, RESIDUE AT 180 DEC. 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)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 04...	165	176	.24	3.61	.05	.01	--	--	.00	8	.16
30...	173	168	.23	3.72	.05	.00	--	--	--	14	.31
NOV 28...	185	176	.24	2.33	.12	.01	--	--	--	26	.34
DEC 27...	177	168	.23	2.00	.09	.02	--	--	--	60	.71
FEB 13...	176	170	.23	1.65	.08	.02	--	--	--	4	.04
MAR 08...	153	173	.24	1.78	.08	.04	--	--	--	14	.14
APR 03...	184	177	.24	1.91	.05	.01	--	--	--	6	.06
30...	198	206	.28	5.23	.03	.03	.09	.09	--	14	.36
JUN 05...	168	168	.23	24.5	.06	.02	.06	.06	.00	99	14
JUL 02...	159	154	.21	10.8	.04	.01	.03	.03	--	19	--
31...	167	159	.22	5.28	.07	.03	--	.09	--	13	.43
SEP 05...	170	172	.23	3.53	.03	.01	--	.03	.00	17	.35

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 04...	1000	0	0	8	0	10	80
JUN 05...	1730	1	0	1	20	5	1200
SEP 05...	0905	0	0	0	10	3	170

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 04...	120	40	.0	0	0	20
JUN 05...	24	50	.2	1	0	40
SEP 05...	7	20	--	0	0	10

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 EXTRAC- TION (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
NOV 28...	1700	2.6	<.4	<1.1	<.4	<1.1	<.4	.07	.50	--	--
SEP 05...	0905	<2.2	<.4	<1.0	<.4	<1.0	<.4	.08	.44	<1.5	<.3

FLAT CREEK BASIN

231

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 28...	1700	.0	0	.00	.00	.0	.0	0	.00	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 28...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
NOV 28...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00

DATE	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 28...	.00	.00	.00	0	0	.00	.00	.00	.00

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft (6.1 m) upstream from county road bridge, about 1 mi (1.6 km) downstream from Flat Creek, 4.8 mi (7.7 km) upstream from Hoback River, 7.0 mi (11.3 km) south of Jackson, and at mile 937.9 (1,509.1 km).

DRAINAGE AREA.--2,627 mi² (6,804 km²).

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m), from topographic map.

REMARKS.--Records fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s (538 m³/s) June 10, 1978, gage height, 8.64 ft (2.634 m); minimum daily, 780 ft³/s (22.1 m³/s) Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft³/s (447 m³/s) May 28, gage height, 7.83 ft (2.387 m); minimum daily, 780 ft³/s (22.1 m³/s) Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1520	1500	880	1100	1760	1980	4370	10400	10200	3370	2720
2	1860	1530	1480	900	1150	1770	1930	4480	9720	9750	3310	2660
3	1850	1530	1450	950	1200	1720	1930	4500	9620	8630	3250	2610
4	1820	1530	1420	990	1250	1700	2000	4610	10400	7470	3190	2580
5	1800	1530	1370	1000	1300	1720	2080	4890	11600	6850	3140	2540
6	1780	1510	1340	990	1350	1710	2200	6060	12700	6540	3120	2500
7	1780	1460	1300	950	1330	1850	2330	6060	13700	6420	3120	2450
8	1760	1470	1270	960	1320	1950	2270	5670	12400	6190	3270	2450
9	1750	1550	1300	1000	1400	1880	2280	5250	11000	6010	3170	2420
10	1760	1550	1350	1020	1490	1840	2230	4930	10500	5790	3120	2390
11	1770	1460	1420	1120	1520	1820	2180	4710	11000	5650	3090	2090
12	1740	1440	1440	1200	1610	1820	2160	4510	11700	5460	3060	1810
13	1710	1460	1420	1200	1670	1830	2170	4530	13000	5300	3160	1620
14	1680	1470	1360	1200	1730	1850	2610	4700	14300	4810	3230	1520
15	1670	1440	1340	1180	1670	1840	2840	5120	14900	4590	3130	1470
16	1670	1390	1330	1180	1640	1850	3040	5940	13800	4460	3100	1410
17	1680	1390	1330	1180	1680	1880	3200	7090	12900	4400	3050	1390
18	1700	1460	1330	1200	1710	1890	3340	7970	12700	4350	3010	1360
19	1700	1500	1330	1200	1740	1890	3240	8630	12400	4270	3010	1360
20	1690	1510	1330	1250	1750	1890	3100	9050	11400	4170	3050	1350
21	1670	1500	1330	1250	1760	1880	3080	9620	9530	4060	3080	1340
22	1640	1480	1330	1270	1750	1880	3170	10100	7740	4100	3000	1330
23	1640	1500	1330	1280	1760	1900	3320	11200	7740	4250	2970	1310
24	1620	1470	1330	1250	1750	1900	3780	12900	8030	4230	2930	1310
25	1610	1430	1300	1230	1740	1930	3800	13100	8900	3930	2910	1320
26	1600	1400	1250	1200	1740	1960	3740	13800	10200	3790	2860	1350
27	1590	1400	1180	1170	1730	2040	3800	14500	10500	3690	2820	1370
28	1570	1420	1050	1120	1730	2060	3860	15000	10600	3660	2850	1360
29	1570	1450	940	1100	---	2020	3030	15000	10400	3600	2800	1340
30	1570	1490	850	1080	---	2000	4120	13300	10400	3510	2720	1300
31	1530	---	780	1050	---	1980	---	11500	---	3420	2700	---
TOTAL	52680	44240	40080	34550	43570	58010	84810	253090	334180	163550	94590	54030
MEAN	1699	1475	1293	1115	1556	1871	2827	8164	11140	5276	3051	1801
MAX	1900	1550	1500	1280	1760	2060	4120	15000	14900	10200	3370	2720
MIN	1530	1390	780	880	1100	1700	1930	4370	7740	3420	2700	1300
AC-FT	104500	87750	79500	68530	86420	115100	168200	502000	662800	324400	187600	107200
CAL YR 1978	TOTAL	1455030	MEAN	3986	MAX	17800	MIN	780	AC-FT	2886000		
WTR YR 1979	TOTAL	1257380	MEAN	3445	MAX	15000	MIN	780	AC-FT	2494000		

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, 16.1 mi (25.9 km) upstream from Palisades Dam, and at mile 917.5 (1,476.3 km).

DRAINAGE AREA.--3,465 mi² (8,974 km²).

WATER-DISCHARGE RECORDS

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 (1,732.453 m), National Geodetic Vertical Datum of 1929. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi (9.7 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

AVERAGE DISCHARGE.--27 years (water years 1938, 1954-79), 4,576 ft³/s (130 m³/s), 3,315,000 acre-ft/yr (4.09 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft³/s (810 m³/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft³/s (21.0 m³/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,400 ft³/s (549 m³/s) May 28, gage height, 9.59 ft (2.923 m); maximum gage height, 10.87 ft (3.313 m) Dec. 23 (backwater from ice); minimum daily discharge, 900 ft³/s (25.5 m³/s) Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2280	1820	1780	960	1250	1950	2090	5880	11800	11100	4120	3400
2	2230	1840	1710	1010	1290	1950	2030	6150	10900	10600	4060	3340
3	2200	1840	1650	1050	1380	1900	2010	6000	10800	9480	3990	3280
4	2180	1840	1690	1100	1450	1900	2070	6170	11600	8530	3910	3200
5	2170	1830	1620	1120	1520	1890	2130	6580	13300	7840	3860	3120
6	2150	1790	1600	1120	1600	1870	2270	8110	15000	7520	3830	3060
7	2130	1760	1550	1110	1540	1990	2460	7680	16200	7360	3820	2980
8	2110	1770	1450	1100	1700	2120	2430	6990	14400	7100	4030	2960
9	2090	1830	1480	1100	1750	2020	2490	6420	12300	6960	4030	2960
10	2080	1830	1500	1210	1850	1970	2460	5950	11400	6730	3880	2910
11	2110	1750	1550	1310	1800	1960	2390	5660	11900	6520	3840	2630
12	2080	1730	1580	1360	1800	1960	2340	5500	13000	6320	3780	2260
13	2050	1740	1600	1380	1850	1990	2360	5570	14600	6150	3980	2020
14	2020	1730	1500	1370	1900	1980	2700	6000	16100	5690	4120	1900
15	1980	1680	1500	1350	1850	1970	3100	6910	16800	5430	3990	1840
16	2000	1680	1500	1340	1800	2010	3430	7980	15500	5290	3890	1790
17	2000	1770	1500	1350	1820	2030	3670	9180	14200	5200	3800	1750
18	2010	1740	1520	1370	1880	1990	4040	9980	13800	5130	3760	1720
19	2020	1760	1520	1390	1900	2010	3920	10600	13500	5090	3800	1710
20	2010	1770	1520	1450	1900	1990	3690	11100	12200	5000	3830	1700
21	1990	1760	1520	1460	1900	1990	3650	11900	10400	4870	3860	1690
22	1970	1770	1520	1460	1900	1980	3920	12600	8860	4920	3770	1690
23	1950	1790	1500	1450	1900	1990	4220	13600	8890	5090	3710	1670
24	1940	1740	1480	1430	1900	1990	4600	15600	9090	5120	3660	1660
25	1930	1660	1450	1410	1900	2030	4600	16100	9790	4810	3630	1660
26	1900	1650	1400	1390	1900	2060	4530	16900	11100	4620	3560	1730
27	1890	1630	1380	1340	1900	2120	4850	18000	11400	4500	3530	1750
28	1890	1680	1300	1310	1900	2160	5200	18800	11500	4480	3540	1730
29	1890	1690	1200	1270	---	2130	4580	18700	11400	4430	3480	1690
30	1860	1720	1100	1240	---	2110	5500	16300	11400	4300	3410	1670
31	1830	---	900	1200	---	2090	---	13600	---	4200	3370	---
TOTAL	62940	52590	46070	39510	49030	62100	99730	316510	373130	190380	117840	67470
MEAN	2030	1753	1486	1275	1751	2003	3324	10210	12440	6141	3801	2249
MAX	2280	1840	1780	1460	1900	2160	5500	18800	16800	11100	4120	3400
MIN	1830	1630	900	960	1250	1870	2010	5500	8860	4200	3370	1660
AC-FT	124800	104300	91380	78370	97250	123200	197800	627800	740100	377600	233700	133800
CAL YR 1978 TOTAL	1800280	MEAN	4932	MAX	22800	MIN	900	AC-FT	3571000			
WTR YR 1979 TOTAL	1477300	MEAN	4047	MAX	18800	MIN	900	AC-FT	2930000			

SNAKE RIVER MAIN STEM

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge at Astoria Springs, 3.0 mi (4.8 km) downstream from Hoback River, 13 mi (21 km) upstream from discharge station, and 15 mi (24 km) northeast of Alpine.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT										
01...	0915	2160	330	7.8	9.0	1	8.9	K15	160	45
26...	1430	1890	428	--	4.5	--	--	--	--	--
29...	0915	1770	340	7.8	5.0	1	10.5	60	160	37
NOV										
26...	0900	1630	340	7.9	.5	1	11.0	43	170	39
DEC										
11...	1430	1470	--	--	.0	--	--	--	--	--
22...	0830	1520	370	7.8	.0	1	11.3	K8	160	37
JAN										
20...	1000	1550	350	7.8	.0	1	11.4	21	160	37
FEB										
25...	0930	1900	340	7.9	.5	1	11.2	K120	140	33
MAR										
05...	1510	1890	347	--	8.0	--	--	--	--	--
APR										
02...	0930	2050	340	8.0	2.0	2	11.1	K30	130	23
09...	1330	2510	326	--	5.0	--	--	--	--	--
30...	0920	5920	420	7.6	7.0	15	9.8	94	150	27
MAY										
14...	1657	6160	285	--	10.0	--	--	--	--	--
JUN										
04...	0830	11400	240	7.5	9.0	15	9.2	74	110	20
13...	1155	14500	218	--	10.0	--	--	--	--	--
25...	0900	9770	315	7.3	12.0	5	8.6	42	110	12
JUL										
23...	1310	5130	280	--	15.0	--	--	--	--	--
AUG										
04...	0750	3800	275	7.8	13.0	1	8.6	70	120	22
29...	1415	3340	295	8.2	15.5	1	9.5	K10	130	32
SEP										
04...	1215	3240	375	--	14.0	--	--	--	--	--
26...	1430	1610	365	8.2	12.5	1	10.2	K15	170	39

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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
01...	46	10	6.4	.2	1.8	140	0	120	50
26...	--	--	--	--	--	--	--	--	--
29...	46	12	9.7	.3	1.9	150	0	120	64
NOV									
26...	48	11	8.0	.3	1.8	160	0	130	57
DEC									
11...	--	--	--	--	--	--	--	--	--
22...	47	11	8.9	.3	1.8	150	0	120	56
JAN									
20...	45	10	8.9	.3	1.7	150	0	120	48
FEB									
25...	39	9.5	11	.4	1.7	130	0	110	48
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
02...	37	9.0	11	.4	1.9	130	0	110	31
09...	--	--	--	--	--	--	--	--	--
30...	44	10	21	.7	3.9	150	0	120	61
MAY									
14...	--	--	--	--	--	--	--	--	--
JUN									
04...	32	6.4	8.0	.3	.6	110	0	90	27
13...	--	--	--	--	--	--	--	--	--
25...	33	7.4	17	.7	3.3	120	0	98	38
JUL									
23...	--	--	--	--	--	--	--	--	--
AUG									
04...	36	7.7	8.7	.3	1.9	120	0	98	31
29...	39	8.3	9.3	.4	.0	120	0	98	35
SEP									
04...	--	--	--	--	--	--	--	--	--
26...	51	11	8.0	.3	2.3	160	0	130	46

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT									
01...	2.6	.2	7.5	194	.26	1130	.11	--	.02
26...	--	--	--	--	--	--	--	--	--
29...	2.9	.4	9.8	222	.30	1060	.00	--	.03
NOV									
26...	1.8	.5	5.7	210	.29	924	.09	--	.02
DEC									
11...	--	--	--	--	--	--	--	--	--
22...	5.5	.6	8.7	213	.29	874	.18	--	.03
JAN									
20...	4.2	.4	11	203	.28	850	.09	--	.02
FEB									
25...	4.7	.5	12	193	.26	990	.07	--	.02
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
02...	6.2	.7	11	174	.24	963	.00	--	.01
09...	--	--	--	--	--	--	--	--	--
30...	17	.6	11	242	.33	3870	.29	--	.04
MAY									
14...	--	--	--	--	--	--	--	--	--
JUN									
04...	7.3	.5	10	145	.20	4460	.00	--	.04
13...	--	--	--	--	--	--	--	--	--
25...	14	.5	12	182	.25	4800	.05	--	.02
JUL									
23...	--	--	--	--	--	--	--	--	--
AUG									
04...	5.2	.5	11	162	.22	1660	.00	--	.01
29...	5.7	.5	11	169	.23	1520	.00	--	.00
SEP									
04...	--	--	--	--	--	--	--	--	--
26...	5.2	.5	11	210	.29	913	--	.00	.02

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W., (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.0 mi (4.8 km) upstream from maximum flowline of Palisades Reservoir, and 3.6 mi (5.8 km) southeast of Alpine.

DRAINAGE AREA.--448 mi² (1,160 km²). Mean altitude, 8,080 ft (2,460 m).

WATER-DISCHARGE RECORDS

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, ID, 1917-18 and as Greys River near Alpine, WY, 1937-39.

REVISED RECORDS.--WRD ID 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (1,740 m), 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 (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

REMARKS.--Records fair. Less than 500 acres (202 hm²) irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--27 years (water years 1938, 1954-79), 654 ft³/s (18.52 m³/s), 19.82 in/yr (503 mm/yr), 473,800 acre-ft (584 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft³/s (205 m³/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m), former site and datum, about Dec. 18, 1965 (ice jam); minimum daily discharge, 92 ft³/s (2.61 m³/s) Jan. 2, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 29	0300	*2,760 78.2	4.57 1.393	June 6	2330	2,120 60.0	4.00 1.219

Minimum daily discharge, 150 ft³/s (4.25 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	378	344	155	215	235	218	1020	1530	1120	547	382
2	395	378	323	150	219	230	218	1060	1450	1070	541	374
3	395	374	311	170	215	230	208	1100	1490	1080	530	361
4	396	374	332	190	210	230	218	1250	1630	1000	520	357
5	397	374	336	180	210	230	214	1380	1810	928	505	347
6	400	348	263	175	220	240	221	1530	2010	904	500	343
7	400	357	235	170	230	250	271	1140	1950	868	480	338
8	400	369	200	170	235	242	264	968	1690	826	465	336
9	401	369	225	185	235	211	298	838	1490	784	435	331
10	399	357	245	200	242	202	294	790	1400	742	430	326
11	400	357	275	210	245	208	279	754	1430	730	416	326
12	401	368	280	220	245	208	268	766	1550	742	430	328
13	402	369	280	210	245	214	246	920	1690	718	450	328
14	404	318	270	200	245	218	246	1220	1760	706	455	327
15	405	315	260	200	255	214	287	1420	1720	688	445	325
16	410	332	255	205	250	224	387	1690	1570	670	440	321
17	415	365	255	210	240	228	500	1920	1480	640	430	317
18	420	369	255	215	230	221	596	2010	1400	629	435	309
19	411	343	260	220	230	218	500	1840	1320	618	430	305
20	411	356	265	225	230	211	450	1900	1210	591	430	299
21	406	347	265	230	230	211	485	1960	1160	580	420	297
22	401	353	265	240	225	214	591	2230	1180	596	420	295
23	401	352	265	230	225	211	682	2340	1180	606	411	287
24	392	340	265	230	225	214	646	2430	1170	623	406	290
25	392	299	260	230	225	228	591	2260	1170	607	396	292
26	382	340	260	230	225	224	596	2370	1160	602	411	314
27	387	332	260	225	230	228	730	2410	1140	596	406	303
28	392	315	250	220	235	235	856	2550	1120	585	392	288
29	387	336	250	210	---	224	952	2520	1100	574	382	286
30	369	344	220	205	---	224	992	2020	1140	563	378	285
31	378	---	190	205	---	221	---	1710	---	558	382	---
TOTAL	12342	10528	8219	6315	6464	6898	13304	50316	43100	22544	13718	9617
MEAN	398	351	265	204	231	223	443	1623	1437	727	443	321
MAX	420	378	344	240	255	250	992	2550	2010	1120	547	382
MIN	369	299	190	150	210	202	208	754	1100	558	378	285
AC-FT	24480	20880	16300	12530	12820	13680	26390	99800	85490	44720	27210	19080
CAL YR 1978 TOTAL	279552		MEAN 766	MAX 3530	MIN 92	AC-FT 554500						
WTR YR 1979 TOTAL	203365		MEAN 557	MAX 2550	MIN 150	AC-FT 403400						

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1977 to current year.

INSTRUMENTATION.--Temperature recorder since May 18, 1977.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 21.0°C July 18, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 16.5°C July 16, 17; minimum, 0.0°C on many days during winter months.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.5	6.5	4.0	1.0	.0	.0						
2	7.5	4.5	4.5	2.0	.0	.0						
3	7.5	3.5	4.5	2.0	.0	.0						
4	7.5	4.0	3.5	2.5	.0	.0						
5	7.5	3.5	3.5	2.0	.0	.0						
6	8.0	4.0	2.0	.0	.0	.0						
7	8.5	4.5	2.0	.0	.0	.0						
8	8.5	5.0	4.0	1.0	.0	.0						
9	8.5	4.5	4.0	1.5	.0	.0						
10	8.0	4.5	1.5	.0	.0	.0						
11	8.5	5.0	.0	.0	.0	.0						
12	8.0	5.5	.5	.0	.0	.0						
13	6.5	3.0	1.0	.0	.0	.0						
14	6.5	3.0	.5	.0	.0	.0						
15	7.0	3.5	.0	.0	.0	.0						
16	6.0	4.0	.0	.0	.0	.0						
17	7.0	4.5	.0	.0	.0	.0						
18	8.0	5.5	.5	.0	.0	.0						
19	7.0	4.0	1.5	.0	.0	.0						
20	7.5	4.5	2.0	1.5	.0	.0						
21	7.0	4.0	2.0	.5	.0	.0						
22	5.5	3.0	1.0	.0	.0	.0						
23	5.0	2.0	1.5	.5	.0	.0						
24	5.0	2.5	1.5	.0	.0	.0						
25	4.5	2.5	.0	.0	.0	.0						
26	4.0	1.0	.0	.0	.0	.0						
27	4.0	1.0	.0	.0	.0	.0						
28	5.0	2.0	.0	.0	.0	.0						
29	4.0	2.5	.0	.0	.0	.0						
30	2.5	.0	.5	.0	---	---						
31	3.0	.0	---	---	---	---						
MONTH	8.5	.0	4.5	.0	.0	.0						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

13025000 SWIFT CREEK NEAR AFTON, WY

LOCATION.--Lat 42°43'30", long 110°54'00", in SE¼ sec.29, T.32 N., R.118 W., Lincoln County, Hydrologic Unit 17040105, Bridger National Forest, on right bank 1.0 mi (1.6 km) upstream from mouth of canyon, 1.5 mi (2.4 km) east of Afton, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--27.4 mi² (71.0 km²).

PERIOD OF RECORD.--October 1942 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good. Small powerplant and reservoir, adjudication, 48.45 acre-ft/yr (0.060 hm³/yr), 0.2 mi (0.3 km) upstream. Pipeline, adjudication, 2.5 ft³/s (0.071 m³/s), diverts water above station for town of Afton. No diversion for irrigation above station.

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

AVERAGE DISCHARGE.--29 years (water years 1943-71), 86.9 ft³/s (2.461 m³/s), 62,960 acre-ft/yr (77.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 793 ft³/s (22.5 m³/s) July 6, 1975, gage height, 3.78 ft (1.152 m); minimum daily, 20 ft³/s (0.57 m³/s) Dec. 30, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 373 ft³/s (10.6 m³/s) June 2, gage height 3.12 ft (0.951 m), no peak above base of 390 ft³/s (11.0 m³/s); minimum daily discharge, 28 ft³/s (0.79 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							28	46	327	187	98	55
2							32	48	358	170	75	53
3							33	48	340	147	74	51
4							34	49	285	140	75	50
5							36	54	244	136	74	50
6							37	62	204	127	72	50
7							35	56	201	125	72	47
8							32	54	262	123	75	47
9							31	53	322	119	74	48
10							30	51	350	117	77	48
11							31	49	311	125	78	48
12							33	48	247	119	80	49
13							36	47	277	119	78	50
14							37	47	318	115	78	50
15							37	50	315	111	78	50
16							37	62	270	109	78	49
17							40	77	255	107	75	50
18							40	93	227	104	74	49
19							39	100	190	100	72	49
20							37	113	160	98	69	49
21							37	125	165	96	68	49
22							39	152	190	95	67	47
23							40	162	201	95	65	46
24							40	145	198	93	64	47
25							39	143	204	89	61	47
26							39	143	204	89	60	50
27							40	155	195	88	59	49
28							42	143	198	85	57	48
29							44	150	195	85	56	49
30							46	217	192	81	56	48
31							---	277	---	80	56	---
TOTAL							1101	3019	7405	3474	2195	1472
MEAN							36.7	97.4	247	112	70.8	49.1
MAX							46	277	358	187	98	55
MIN							28	46	160	80	56	46
AC-FT							2180	5990	14690	6890	4350	2920

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi (5.5 km) northwest of Etna and 8.0 mi (12.9 km) upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--829 mi² (2,147 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m), National Geodetic Vertical Datum of 1929 (levels by WPRS).

REMARKS.--Records good. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km²) of which about 1,000 acres (405 hm²) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--26 years, 772 ft³/s (21.86 m³/s), 559,300 acre-ft/yr (690 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft³/s (110 m³/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft³/s (4.53 m³/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) May 6, gage height, 3.70 ft (1.128 m); minimum, 251 ft³/s (7.11 m³/s) Jan. 2, gage height, 1.73 ft (0.527 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	665	677	660	324	454	493	542	1330	1310	582	421	502
2	693	677	639	279	457	496	539	1370	1190	572	424	507
3	669	677	618	295	441	490	529	1350	1100	556	421	492
4	712	677	626	347	452	481	528	1410	1040	559	409	488
5	667	672	663	353	453	492	526	1520	978	569	409	485
6	692	663	598	367	464	487	549	1800	961	571	416	474
7	664	655	583	373	479	491	611	1570	1000	573	415	469
8	685	663	538	365	467	508	644	1440	1010	568	430	455
9	671	670	555	358	483	497	670	1340	928	566	440	449
10	666	670	537	389	494	489	649	1250	851	563	450	442
11	670	663	540	397	494	487	618	1190	799	556	440	442
12	674	664	577	421	499	484	582	1160	762	548	441	444
13	670	665	535	425	495	485	577	1160	737	499	470	449
14	670	670	540	444	514	480	585	1260	742	485	493	452
15	677	648	563	460	533	480	642	1420	755	480	488	455
16	684	633	540	481	513	485	744	1580	750	481	492	454
17	677	659	553	473	514	486	855	1700	741	474	487	454
18	690	651	562	490	497	480	1020	1740	735	465	500	449
19	700	655	576	500	510	483	967	1730	783	476	538	446
20	685	663	558	506	506	492	908	1710	772	499	540	443
21	685	654	565	526	504	493	931	1700	742	500	563	448
22	692	655	565	532	506	491	1030	1710	718	515	562	444
23	692	654	560	493	495	493	1140	1710	692	480	557	442
24	692	655	576	487	495	496	1120	1720	666	473	549	444
25	700	633	575	514	490	503	1050	1700	656	461	543	457
26	692	640	563	507	496	510	1010	1680	637	449	544	476
27	677	640	547	493	499	523	1100	1660	626	442	543	470
28	677	640	580	493	493	541	1200	1700	611	451	519	469
29	672	637	558	448	---	542	1280	1710	594	446	512	493
30	672	635	427	435	---	547	1320	1620	584	433	502	491
31	677	---	358	448	---	544	---	1460	---	429	503	---
TOTAL	21109	19715	17435	13423	13697	15449	24466	47400	24470	15721	15021	13885
MEAN	681	657	562	433	489	498	816	1529	816	507	485	463
MAX	712	677	663	532	533	547	1320	1800	1310	582	563	507
MIN	664	633	358	279	441	480	526	1160	584	429	409	442
AC-FT	41870	39100	34580	26620	27170	30640	48530	94020	48540	31180	29790	27540
CAL YR 1978 TOTAL	366961			1005	MAX 2980	MIN 262	AC-FT 727900					
WTR YR 1979 TOTAL	241791			662	MAX 1800	MIN 279	AC-FT 479600					

SALT RIVER BASIN

241

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 (discontinued).

INSTRUMENTATION.--Temperature recorder since May 17, 1977.

REMARKS.--Interruptions in temperature record due to equipment malfunction. October 1979 daily water temperatures available in Idaho district office upon request.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 19.5°C July 16-18, 29, 1979; minimum, 0.0°C Jan. 23-31, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 19.5°C July 16-18, 29, 1979; minimum 0.0°C Jan 23-31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT										
01...	0730	665	490	7.8	8.0	2	7.5	58	230	33
18...	0835	697	445	--	6.5	--	--	--	--	--
29...	0745	677	450	7.7	5.0	1	9.3	K26	190	51
NOV										
26...	0730	640	480	7.8	1.5	2	9.7	56	230	41
DEC										
11...	1212	520	--	--	2.0	--	--	--	--	--
22...	0730	576	480	7.9	1.0	2	10.1	25	220	31
JAN										
20...	0815	500	480	7.8	1.0	2	9.4	28	230	41
22...	1330	538	286	--	1.0	--	--	--	--	--
FEB										
25...	0815	490	520	7.9	.5	3	9.8	42	210	13
MAR										
05...	1130	468	440	--	3.5	--	--	--	--	--
APR										
02...	0815	539	570	7.9	3.5	9	9.5	K12	220	23
09...	1105	658	471	--	6.0	--	--	--	--	--
30...	0800	1360	440	7.8	6.0	60	9.4	K56	190	34
MAY										
11...	1016	1240	439	--	6.0	--	--	--	--	--
JUN										
04...	0715	1050	450	7.9	10.0	10	8.3	130	210	30
13...	0937	732	424	--	11.0	--	--	--	--	--
25...	0730	663	460	7.7	11.5	2	7.3	96	210	13
JUL										
26...	1000	462	460	--	13.5	--	--	--	--	--
AUG										
04...	0630	409	460	7.7	10.0	2	7.2	84	220	23
29...	1600	512	485	8.1	16.0	2	10.0	46	230	41
SEP										
07...	0957	448	475	--	11.0	--	--	--	--	--
26...	1610	480	470	8.4	12.5	2	11.3	120	230	33

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

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
01...	62	18	13	.4	1.0	240	0	200	38
18...	--	--	--	--	--	--	--	--	--
29...	53	15	13	.4	.6	170	0	140	38
NOV									
26...	63	17	15	.4	1.3	230	0	190	40
DEC									
11...	--	--	--	--	--	--	--	--	--
22...	62	17	16	.5	1.1	230	0	190	43
JAN									
20...	61	18	12	.3	1.0	230	0	190	42
22...	--	--	--	--	--	--	--	--	--
FEB									
25...	56	18	20	.6	1.2	240	0	200	36
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
02...	61	17	27	.8	1.4	240	0	200	29
09...	--	--	--	--	--	--	--	--	--
30...	53	13	17	.5	1.4	190	0	160	28
MAY									
11...	--	--	--	--	--	--	--	--	--
JUN									
04...	60	15	12	.4	.0	220	0	180	28
13...	--	--	--	--	--	--	--	--	--
25...	59	16	14	.4	1.3	240	0	200	35
JUL									
26...	--	--	--	--	--	--	--	--	--
AUG									
04...	60	18	12	.3	1.6	240	0	200	30
29...	64	18	12	.3	.0	230	0	190	36
SEP									
07...	--	--	--	--	--	--	--	--	--
26...	64	18	11	.3	1.5	240	0	200	30

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, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT									
01...	15	.1	1.3	271	.37	487	.68	--	.03
18...	--	--	--	--	--	--	--	--	--
29...	17	.2	3.7	228	.31	417	.88	--	.05
NOV									
26...	18	.2	.0	279	.38	482	1.1	--	.06
DEC									
11...	--	--	--	--	--	--	--	--	--
22...	18	.1	7.2	307	.42	477	.88	--	.05
JAN									
20...	17	.2	6.7	272	.37	367	.88	--	.06
22...	--	--	--	--	--	--	--	--	--
FEB									
25...	22	.2	6.9	284	.39	376	.77	--	.10
MAR									
05...	--	--	--	--	--	--	--	--	--
APR									
02...	32	.3	5.2	293	.40	426	.07	--	.09
09...	--	--	--	--	--	--	--	--	--
30...	23	.2	5.8	241	.33	885	2.0	--	.32
MAY									
11...	--	--	--	--	--	--	--	--	--
JUN									
04...	18	.2	6.7	250	.34	709	.05	--	.12
13...	--	--	--	--	--	--	--	--	--
25...	14	.1	5.1	267	.36	478	.50	--	.05
JUL									
26...	--	--	--	--	--	--	--	--	--
AUG									
04...	14	3.0	5.1	267	.36	295	.77	--	.03
29...	15	.2	5.4	263	.36	364	.54	--	.03
SEP									
07...	--	--	--	--	--	--	--	--	--
26...	15	.1	6.1	266	.36	345	--	.77	.04

SALT RIVER BASIN

243

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT 01...	0730	.0	--	.00	.00	--	.0	--	.00	--	.00
JUN 04...	0715	.0	0	--	.00	.0	.0	0	.00	.1	.00
AUG 29...	1600	--	--	--	--	--	--	--	--	--	--
SEP 26...	1610	.0	0	--	.00	.0	.0	0	.00	.0	.00

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 01...	--	.00	--	.00	.00	--	.00	.00	--	.00	.00
JUN 04...	.2	.00	.0	.00	.00	.1	.00	.00	.0	.00	.00
AUG 29...	--	--	--	--	--	--	--	--	--	--	--
SEP 26...	.0	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00

DATE	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 01...	--	.00	--	.00	--	.00	--	--	.00	.00	.00
JUN 04...	.0	.00	.0	.00	.0	.00	--	--	.00	.00	.00
AUG 29...	--	--	--	--	--	--	--	--	--	--	--
SEP 26...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 01...	.00	--	0	--	.00	.00	0	.00	0	.00	.0
JUN 04...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0
AUG 29...	--	--	--	--	--	.00	0	.00	0	.00	.0
SEP 26...	.00	.00	0	0	.00	.00	0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA- TERIAL (UG/KG)
OCT 01...	.00	2.5	.00	0
JUN 04...	.00	0	.00	0
AUG 29...	.00	0	.00	0
SEP 26...	.00	0	.00	0

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	8.5	4.5	9.0	5.5	---	---	18.5	12.5	18.5	13.0	16.0	10.5				
2	8.5	4.0	9.0	6.0	---	---	18.5	12.5	19.0	13.0	16.5	11.0				
3	8.0	3.5	10.0	5.0	---	---	16.5	12.5	18.5	12.5	16.0	11.0				
4	7.5	4.5	10.0	5.5	---	---	18.0	12.0	18.5	12.5	16.0	11.0				
5	9.0	4.5	10.0	6.5	---	---	18.5	12.5	18.5	13.0	16.0	11.0				
6	10.0	5.5	10.0	5.5	---	---	16.0	13.0	17.5	13.5	16.0	11.0				
7	9.0	6.5	7.5	4.0	---	---	18.0	11.5	16.5	13.5	16.0	11.0				
8	10.0	4.5	6.0	4.0	---	---	18.5	12.5	16.5	14.0	15.0	11.0				
9	8.0	5.0	8.0	5.0	---	---	18.5	12.5	16.5	13.0	16.5	12.0				
10	6.5	4.0	8.5	6.0	---	---	18.5	12.5	17.5	12.0	15.5	11.5				
11	8.0	3.5	---	---	---	---	18.5	12.5	17.5	12.5	14.0	9.5				
12	9.0	4.5	---	---	---	---	19.0	12.5	15.0	12.5	13.0	9.0				
13	8.5	5.0	---	---	---	---	19.0	13.0	15.0	13.0	12.5	8.5				
14	10.5	5.5	---	---	17.0	13.0	19.0	12.5	16.0	12.5	14.0	8.5				
15	11.0	6.5	---	---	17.0	11.0	17.5	12.5	15.5	12.0	14.5	9.0				
16	11.5	6.5	---	---	16.5	11.0	19.5	13.5	16.0	12.5	14.5	9.5				
17	11.0	6.5	---	---	15.5	11.0	19.5	13.5	17.5	12.0	14.5	9.5				
18	10.5	6.0	---	---	13.5	10.5	19.5	14.0	16.0	13.5	14.5	9.5				
19	8.0	4.5	---	---	11.0	9.0	18.5	13.5	15.0	12.5	12.5	9.5				
20	9.0	4.0	---	---	14.0	9.0	19.0	13.5	14.0	12.0	14.0	9.0				
21	10.5	5.5	---	---	16.0	11.0	17.5	13.5	16.0	11.5	13.5	9.0				
22	10.0	6.0	---	---	18.0	12.0	16.0	14.0	17.0	11.5	13.5	9.0				
23	9.5	5.5	---	---	18.0	11.5	17.0	13.5	17.5	12.0	13.0	8.5				
24	8.0	5.5	---	---	19.0	12.0	19.0	13.0	17.0	12.5	13.0	8.5				
25	7.5	5.0	---	---	19.0	13.0	18.0	13.5	16.0	11.5	12.0	9.0				
26	10.0	5.0	---	---	18.5	13.5	19.0	13.0	16.0	11.5	13.0	10.0				
27	10.5	6.0	---	---	19.5	13.5	17.5	13.5	15.5	12.0	13.0	9.0				
28	11.0	6.5	---	---	19.5	13.0	18.5	13.0	16.5	12.5	13.0	8.5				
29	10.5	5.5	---	---	19.5	13.5	19.5	13.5	17.5	12.0	13.0	8.5				
30	10.0	5.5	---	---	19.0	14.0	19.0	13.0	16.0	12.0	13.0	8.5				
31	---	---	---	---	---	---	19.0	13.0	14.0	12.0	---	---				
MONTH	11.5	3.5	10.0	4.0	19.5	9.0	19.5	11.5	19.0	11.5	16.5	8.5				

YEAR	19.5	.0
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13046500 GRASSY LAKE NEAR MORAN, WY

LOCATION.--Lat 44°07'45", long 110°49'05", in NE¼ sec.18, T.48 N., R.116 W., Teton County, Hydrologic Unit 17040202, in gatehouse at dam 0.4 mi (0.6 km) upstream from mouth on Grassy Creek, which is tributary to headwaters of Falls River, and 25.4 mi (40.9 km) northwest of Moran, WY.

DRAINAGE AREA.--10.4 mi² (26.9 km²), including basin of Cascade Creek, from which water is diverted into Grassy Lake.

PERIOD OF RECORD.--October 1939 to September 1979 (discontinued).

GAGE.--Mercury pressure gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam; storage began Oct. 18, 1939. Capacity, 15,200 acre-ft (18.7 hm³) between elevations 7,135.0 ft (2,174.75 m), sill of trashrack, and 7,210.0 ft (2,197.61 m), crest of spillway. Water is used for irrigation of lands in Fremont-Madison irrigation district, Idaho. Gage read about twice monthly. Records given herein represent usable contents.

COOPERATION.--Gage-height record and capacity table furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 15,400 acre-ft (19.0 hm³) July 2, 1943, elevation, 7,210.85 ft (2,197.867 m); no contents Oct. 2-5, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 15,300 acre-ft (18.9 hm³), elevation, 7,210.25 ft (2,197.684 m), June 8; minimum observed, 10,500 acre-ft (12.9 hm³) Sept. 7, 12, elevation, 7,194.10 ft (2,192.762 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30	-	12,100	
Oct. 31	-	12,000	-100
Nov. 30	-	12,200	+200
Dec. 31	-	12,400	+200
CALENDAR YEAR 1978	-		+4,340
Jan. 31	-	12,500	+100
Feb. 28	-	12,700	+200
Mar. 31	-	12,900	+200
Apr. 30	-	13,000	+100
May 31	-	15,100	+2,100
June 30	-	14,600	-500
July 31	-	12,200	-2,400
Aug. 31	-	10,800	-1,400
Sept. 30	-	10,600	-200
WATER YEAR 1979	-		-1,500

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Green River basin							
09204700	Sand Springs Draw tributary near Boulder, WY	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-79	4- 8-79	a6.39	b5
09207650	Dry Basin Creek near Big Piney, WY	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-79	8-14-79	3.98	268
09211300	Fourmile Gulch tributary near Fontenelle, WY	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-79	8-14-79	7.91	92
09216290	East Otterson Wash near Green River, WY	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-79	8-14-79	5.52	84
09216350	Skunk Canyon Creek near Green River, WY	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-79	8-15-79	6.93	88
09216537	Delaney Draw near Red Desert, WY	Lat 41°38'22", long 108°07'43", in SW¼NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1.0 mile southwest of Red Desert and 1.7 miles upstream from culvert on Interstate Highway 80. Oct. 1, 1960, to Sept. 30, 1969, at site 1.6 miles downstream and Oct. 1, 1969, to Sept. 30, 1976, at site 0.4 mile downstream at different datums.	34.5	1961-79	8-20-79	9.43	3
09216550	Deadman Wash near Point of Rocks, WY	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	152	1962-79	8- 9-79	11.25	1,320
09216576	Gap Creek below Beans Spring Creek, near South Baxter, WY	Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, 0.1 mile upstream from county bridge, 0.5 mile south of Titsworth Springs, 12 miles south of South Baxter, and 28 miles south of Rock Springs.	35.9	1976 [†] , 1977-79	6- 8-79	2.32	22
09216578	Dry Canyon Creek near South Baxter, WY	Lat 41°13'02", long 108°54'56", in NE¼SW¼SE¼ sec.5, T.14 N., R.102 W., Sweetwater County, 2.3 miles upstream from Pio Reservoir, 13.5 miles southeast of South Baxter, and 29.0 miles southeast of Rock Springs.	3.69	1977-79	7-24-77 1978 8-15-79	3.80 3.54	c23 c(d) 18

See footnotes at end of table, p. 248.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Green River basin--Continued							
09216580	Big Flat Draw near Rock Springs, WY	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-79	8-19-79	17.09	217
09216600	Cutthroat Draw near Rock Springs, WY	Lat 41°27'25", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-79	8-19-79	5.80	83
09216695	No Name Creek near Rock Springs, WY	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth and 15 miles southeast of Rock Springs.	18.2	1973-79	8-19-79	17.38	234
09216900	Bitter Creek tributary near Green River, WY	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-79	4-18-79	15.00	(†)
09221680	Mud Spring Hollow near Church Butte, near Lyman, WY	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-79	4-14-79	4.08	557
09224600	Blacks Fork tributary near Granger, WY	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-79	4-11-79	6.95	105
09224800	Meadow Springs Wash tributary near Green River, WY	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-79	8-14-79	2.00	55
09224810	Blacks Fork tributary No. 2 near Green River, WY	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-79	4- 8-79	5.12	8
09224820	Blacks Fork tributary No. 3 near Green River, WY	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-79	8-14-79	6.09	19
09224840	Blacks Fork tributary No. 4 near Green River, WY	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-79	8-14-79	5.11	9
09224980	Summers Dry Creek near Green River, WY	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-79	4-11-79	5.89	112

See footnotes at end of table, p. 248.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drain- age area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (cfs)
Green River basin--Continued							
09225200	Squaw Hollow near Burntfork, WY	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-79	8-14-79	13.11	132
09225300	Green River tributary No. 2 near Burntfork, WY	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, UT, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-79	8-14-79	14.46	1,530
09258200	Dry Cow Creek near Baggs, WY	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Car- bon County, 1.6 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-79	4-10-79	6.29	106
Bear River basin							
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-79	8-18-79	5.30	25
Hoback River basin							
13019220	Sour Moose Creek near Bondurant, WY	Lat 43°09'00", long 110°15'20", in N¼ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187, and 9.5 miles southeast of Bondurant.	2.77	1964-79	5-28-79	5.12	9

‡-Operated as a continuous-record gaging station.

†-Discharge not determined.

a-Backwater from ice and snow.

b-Estimated.

c-Not previously published

d-No evidence of flow.

Discharge measurements made at miscellaneous sites during water year 1979

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Dis- charge (cfs)
Green River Basin						
North Fork Little Snake River diversion to Hog Park Creek 09251750	Transbasin diversions between North Fork Little Snake River and Hog Park Creek	Lat 41°02'17", long 106°53'16", in NW¼SW¼ sec.6, T.12 N., R.84 W., Carbon County, below outlet, just upstream from Hog Park Creek, and 13 miles southwest of Encampment.		1966-78	10-26-78 6-27-79 7-20-79 8-17-79 9-27-79	1.09 59.4 15.4 3.92 1.73

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY
(LAT 42 58 59 LONG 110 36 40)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 03...	1614	3.0	325	8.3	15.0	1	8.3	130	0	43	5.7	5.2

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	.2	.9	160	0	130	11	.8	.1	4.5	150	.20	1.22

DATE	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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTH0, DIS- SOLVED (MG/L AS P)
OCT 03...	.04	.01	.01	.35	.32	.36	.03	.33	.00	.01	.00

DATE	PHOS- PHATE, ORTH0, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT CHARGE, SUS- PENDE (T/DAY)
OCT 03...	.00	30	10	0	0	.2	50000	.040	.000	33	.27

PHYTOPLANKTON ANALYSES

DATE	TIME	OCT	3,78
TOTAL CELLS/ML		0	
DIVERSITY: DIVISION		0.0	
..CLASS		0.0	
...ORDER		0.0	
...FAMILY		0.0	
....GENUS		0.0	
ORGANISM		CELLS /ML	PER- CENT

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

251

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY--Continued
(LAT 42 58 59 LONG 110 36 40)

OCT. 3, 1978

1614 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..ZYGNEATALES	
...ZYGNEMATACEAE	
...MOUGEOTIA	
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNIALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
...RHOICOSPHEA	
...CYMBELLACEAE	
...AMPHORA	
...CYMBELLA	
...EPITHEMIA	
...DIATOMACEAE	
...DIATOMA	
...FRAGILARIACEAE	
...HANNAEA	
& ...SYNEDRA	
...GOMPHONEMATACEAE	
...GOMPHONEIS	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...AMPHIPLEURA	
...GYROSTOMA	
& ...NAVICULA	
...NEIDIUM	
...PINNULARIA	
...NITZSCHACEAE	
...NITZSCHIA	
...SURIRELLACEAE	
...CYMATOPLEURA	
...SURIRELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425859110364001 NORTH HORSE CREEK ABOVE MULE CREEK, NEAR SHERMAN RANGER STATION, WY--Continued
(LAT 42 58 59 LONG 110 36 40)

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3,78
TIME	1614
TOTAL COUNT	141
DIVERSITY: PHYLUM	0.0
..CLASS	0.4
..ORDER	1.5
...FAMILY	2.1
....GENUS	3.1
....GENUS-INSECTA	2.9

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...DIPTERA	
....CHIRONOMIDAE	
....CRICOTOPUS	14
....DIAMESA	2
....MICROPSECTRA	17
....TANYTARSUS	11
...SIMULIIDAE	
....SIMULIUM	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	23
...HEPTAGENIIDAE	
....STENONEMA	26
...SIPHONURIDAE	
....SIPHONURUS	3
..PLECOPTERA	
...PERLIDAE	
....ACRONEURIA	7
..DIPTERA	
...CHIRONOMIDAE	
....PSECTROCLADIUS	25
..ARACHNIDA	
...HYDRACARINA	
....UNKNOWN FAMILY	
....UNKNOWN GENUS	12

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

253

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425040110303001 HORSE CREEK ABOVE SHERMAN RANGER STATION, WY (LAT 42 50 40 LONG 110 30 30)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 03...	1700	5.0	215	8.4	15.0	1	8.3	160	10	51	7.4	5.0

DATE	SODIUM AD- SURP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	.2	.8	180	0	150	19	.8	.1	4.6	178	.24	2.40

DATE	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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 03...	.01	.01	.00	2.7	.27	2.7	2.4	.27	.00	.00	.00

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 03...	.00	40	10	0	150	2.5	50000	.040	.000	14	.19

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425040110303001 HORSE CREEK ABOVE SHERMAN RANGER STATION, WY--Continued (LAT 42 50 40 LONG 110 30 30)

PHYTOPLANKTON ANALYSES

DATE	OCT 3,78
TIME	1700
TOTAL CELLS/ML	150
DIVERSITY: DIVISION	1.3
..CLASS	1.3
..ORDER	1.8
...FAMILY	1.9
....GENUS	1.9

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...HYDRODICTYACEAE		
....PEDIASTRUM	76#	52
...OEDOGONIALES		
...OEDOGONIACEAE		
....OEDOGONIUM	10	7
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5	3
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....FRAGILARIA	5	3
....SYNEDRA	5	3
...NITZSCHIAEAE		
....NITZSCHIA	5	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
..CYANOPHYCEAE		
...HORMOGONIALES		
...NOSTOCACEAE		
....ANABAENA	40#	28

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

425040110303001 HORSE CREEK ABOVE SHERMAN RANGER STATION, WY--Continued (LAT 42 50 40 LONG 110 30 30)

OCT. 3, 1978
1700 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
...CLOSTERIUM	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNACEAE	PENNATE
...CYMBELLACEAE	
...AMPHORA	
...CYMBELLA	
...FRAGILARIACEAE	
& ...SYNEURA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..CHROOCYCEAE	COCCOID BLUE-GREENS
...CHROOCYCEAE	
& ...ANACYSTIS	
..HORMOGONIALES	FILAMENTOUS BL-GREEN
...OSCILLATORIA	
& ...OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3, 78
TIME	1700
TOTAL COUNT	21
DIVERSITY: PHYLUM	0.0
..CLASS	0.0
...ORDER	1.6
...FAMILY	1.6
...GENUS	1.6
...GENUS-INSECTA	1.6
ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...COLEOPTERA	
...ELMIDAE	
...HETERIMNIUS	3
..DIPTERA	
...ATHERICIDAE=RHAGIONIDAE	
...ATHERIX	1
..PLECOPTERA	
...CHLOROPERLIDAE	
...ALLOPERLA	11
..TRICHOPTERA	
...BRACHYCENTRIDAE	
...BRACHYCENTRUS	6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY (LAT 42 56 40 LONG 110 23 20)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
OCT 03...	1730	10	310	8.4	10.0	1	8.4	170	2	51	9.5	
DATE	AS NA)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	4.5	.2	.9	200	0	160	13	.9	.1	4.1	183	
DATE	AC-FT)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT 03...	.25	4.94	.10	.00	.18	.18	.00	.00	.00	.00	.00	
DATE	AS B)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	
OCT 03...	30	10	0	76	.7	24690	.081	.000	8	.22		

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY--Continued (LAT 42 56 40 LONG 110 23 20)

PHYTOPLANKTON ANALYSES

DATE	OCT 3,78
TIME	1730

TOTAL CELLS/ML	76
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DIVERSITY: DIVISION	0.9
..CLASS	0.9
...ORDER	1.4
...FAMILY	1.4
....GENUS	1.9

ORGANISM	CELLS /ML	PER- CENT
----------	--------------	--------------

CHLOROPHYTA (GREEN ALGAE)

..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	5	7
...OEDOGONIALES		
...OEDOGONIACEAE		
...OEDOGONIUM	15#	20
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5	7

CYANOPHYTA (BLUE-GREEN ALGAE)

..CYANOPHYCEAE		
...CHROOCOCCALES		
...CHROOCOCCACEAE		
...ANACYSTIS	40#	53
...CUCCOCHLORIS	10	13

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
 GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY--Continued (LAT 42 56 40 LONG 110 23 20)

OCT. 3, 1978
 1730 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
...SCENEDESMACEAE	
...SCENEDESMUS	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
...CLOSTERIUM	
...ZYGNEMATACEAE	
...MOUGEOTIA	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
& ...MELOSIRA	
..PENNALES	PENNATE
...CYMBELLACEAE	
...CYMBELLA	
...EPITHEMIA	
...RHOPALODIA	
...DIATOMACEAE	
...DIATOMA	
...FRAGILARIACEAE	
...SYNEDRA	
...GOMPHONEMACEAE	
...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHACEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...NOSTOCACEAE	
&ANABAENA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WY--Continued (LAT 42 56 40 LONG 110 23 20)

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3,78
TIME	1730
TOTAL COUNT	104
DIVERSITY: PHYLUM	0.0
..CLASS	0.1
..ORDER	1.3
...FAMILY	2.2
....GENUS	2.7
....GENUS-INSECTA	2.6

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...DIPTERA	
....CERATOPOGONIDAE=HELEIDAE	
....UNKNOWN GENUS	2
...CHIRONOMIDAE	
....CONCHAPELOPIA	3
....MICROPSECTRA	43
....ORTHOCLADIUS	6
...PSYCHODIDAE	
....PERICOMA	6
...SIMULIIDAE	
....SIMULIUM	2
...TIPULIDAE	
....DICRANOTA	7
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	23
...EPHEMERELLIDAE	
....EPHEMERELLA	2
..PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	7
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....HYDROPSYCHE	1
..ARACHNIDA	
...HYDRACARINA	
....UNKNOWN FAMILY	
....UNKNOWN GENUS	2

09207650 DRY BASIN CREEK NEAR BIG PINEY, WY (LAT 42 25 28 LONG 110 06 35)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
MAY 04...	1600	.44	850	8.0	550

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY (LAT 42 29 58 LONG 110 39 15)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	
OCT 03...	1145	7.0	310	8.2	6.0	1	8.4	160	17	46	12	1.9	
DATE		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	.1	.5	180	0	150	23	.8	.1	5.4	179	.24	3.38	
DATE		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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	
OCT 03...	.03	.01	.00	.13	.23	.14	.00	.23	.02	.01	.00		
DATE		PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	
OCT 03...	.00	20	10	0	1600	5.2 19800	.101	.000	16	.30			

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY--Continued (LAT 42 29 58 LONG 110 39 15)

PHYTOPLANKTON ANALYSES

DATE	OCT 3,78
TIME	1145
TOTAL CELLS/ML	1600
DIVERSITY: DIVISION	0.6
..CLASS	0.6
...ORDER	1.0
...FAMILY	1.9
...GENUS	1.9

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...UOCYSTACEAE		
...ANKISTRODESMUS	83	5
...SCENEDESMACEAE		
...CRUCIGENIA	56	3
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	14	1
..PENNALES		
...NAVICULACEAE		
...NAVICULA	28	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
..CYANOPHYCEAE		
...CHROCOCCALES		
...CHROCOCCACEAE		
...ANACYSTIS	140	9
...HORMOGONALES		
...NOSTOCACEAE		
...CYLINDROSPERMUM	540#	34
...OSCILLATORIA		
...OSCILLATORIA	740#	46

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY--Continued (LAT 42 29 58 LONG 110 39 15)

OCT. 3, 1978
1145 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
..ZYGEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
...CLOSTERIUM	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
...MELOSTRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
...COCCONEIS	
...RHOICOSPHENIA	
...CYMBELLACEAE	
...AMPHORA	
& ...CYMBELLA	
...EPITHEMIA	
...RHOPALODIA	
...DIATOMACEAE	
...DIATOMA	
...FRAGILARIACEAE	
...HANNAEA	
...SYNEDRA	
...GOMPHONEMATACEAE	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...PINNULARIA	
...NITZSCHACEAE	
...NITZSCHIA	
...SURIPELLACEAE	
...CYMATOPLEURA	
...SURIPELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

422958110391501 LA BARGE CREEK NEAR SCALERS CABIN, WY--Continued (LAT 42 29 58 LONG 110 39 15)

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3,78
TIME	1145
TOTAL COUNT	163
DIVERSITY: PHYLUM	0.0
..CLASS	0.1
...ORDER	1.8
...FAMILY	2.6
....GENUS	3.6
....GENUS-INSECTA	3.6
ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...COLEOPTERA	
....ELMIDAE	
....HETERIMNIUS	2
...DIPTERA	
...CHIRONOMIDAE	
....CLADOTANYTARSUS	17
....CONCHAPELOPIA	2
....DIAMESA	6
....ORTHOCLADIUS	19
....TANYTARSUS	11
....TRICHOCLADIUS	10
...PSYCHODIDAE	
....PERICOMA	5
...SIMULIIDAE	
....SIMULIUM	4
...EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	44
....EPHEMERELLIDAE	
....EPHEMERELLA	6
...PLECOPTERA	
...CHLOROPERLIDAE	
....ALLOPERLA	7
...TRICHOPTERA	
...BRACHYCENTRIDAE	
....AMIOCENTRUS	2
....BRACHYCENTRUS	8
...HYDROPSYCHIDAE	
...CHEUMATOPSYCHE	6
...POLYCENTROPODIDAE	
....CYRNELLUS	6
...RHYACOPHILIDAE	
....RHYACOPHILA	3
...HYDRUPSYCHIDAE	
...HYDROPSYCHE	3
ARACHNIDA	
...HYDRACARINA	
...UNKNOWN FAMILY	
...UNKNOWN GENUS	2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY (LAT 42 30 30 LONG 110 40 10)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (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
OCT 03...	1100	6.2	345	2.0	1	8.3	150	15	42	12	1.4	.1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	.5	170	0	140	24	.8	.2	4.8	170	.23	2.85	.04

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 03...	.01	.04	.05	.29	.61	.30	.00	.65	.02	.02	.06

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SW METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 03...	.18	20	20	0	0	21	150000	.020	.000	18	.30

PHYTOPLANKTON ANALYSES

DATE	OCT 3,78
TIME	1100
TOTAL CELLS/ML	0
DIVERSITY:	
DIVISION	0.0
CLASS	0.0
ORDER	0.0
FAMILY	0.0
GENUS	0.0
ORGANISM	
CELLS PER- /ML CENT	

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued
(LAT 42 30 30 LONG 110 40 10)OCT. 3, 1978
1100 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
...SCENEDESMACEAE	
....ACTINASTRUM	
..ZYGNEMATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
...CLOSTERIUM	
CHRYSOPHYTA	
..RACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
...MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
....ACHNANTHES	
&COCCONEIS	
...RHOTICOSPHEA	
...CYMBELLACEAE	
....AMPHORA	
&CYMBELLA	
...EPITHEMIA	
...DIATOMACEAE	
....DIATOMA	
...FRAGILARIACEAE	
...HANNAEA	
...SYNEDRA	
...GOMPHONEMACEAE	
...GOMPHONEIS	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NEIDIUM	
...NITZSCHIAEAE	
...NITZSCHIA	
...SURIPELLACEAE	
...SURIPELLA	
EUGLENOPHYTA	EUGLENOIDS
..EUGLENOPHYCEAE	
..EUGLENALES	
...EUGLENACEAE	
....TRACHELOMONAS	

NOTE: & = ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued
(LAT 42 30 30 LONG 110 40 10)

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3,78
TIME	1100
TOTAL COUNT	86
DIVERSITY: PHYLUM	0.0
..CLASS	0.5
...ORDER	2.1
...FAMILY	2.2
....GENUS	2.5
....GENUS-INSECTA	2.2

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...COLEOPTERA	
...ELMIDAE	
....HETERIMNIUS	26
...DIPTERA	
...CHIRONOMIDAE	
....CONSTEMPELLINA	1
....EUKIEFFERIELLA	2
...MICROPSECTRA	30
...ORTHOCLEADUS	1
...PSYCHODIDAE	
....PERICOMA	2
...EPHEMEROPTERA	
...BAETIDAE	
...BAETIS	2
...PLECOPTERA	
...CHLOROPERLIDAE	
...PARAPERLA	6
...TRICHOPTERA	
...LIMNIPHILIDAE	
...DICOSMOECUS	7
..ARACHNIDA	
...HYDRACARINA	
...UNKNOWN FAMILY	
...UNKNOWN GENUS	9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

267

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY (LAT 42 13 20 LONG 110 19 10)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	
OCT 03...	1253	25	380	8.4	9.0	2	8.8	220	85	62	17	2.8	
DATE		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (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)
OCT 03...	.1	.7	170	0	140	80	1.4	.4	7.2	255	.35	17.2	
DATE		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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHODIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHODIS- SOLVED (MG/L AS P)	
OCT 03...	.00	.00	.00	.16	1.6	.16	.00	1.6	.01	.01	.00		
DATE		PHOS- PHATE, ORTHODIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUORUM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUORUM (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	
OCT 03...	.00	40	10	0	42	1.3	14130	.283	.000	9	.61		

PHYTOPLANKTON ANALYSES

DATE	TIME	OCT 3,78
		1253
	TOTAL CELLS/ML	42
	DIVERSITY: DIVISION	0.0
	..CLASS	0.0
	...ORDER	0.0
	FAMILY	1.6
	GENUS	1.6
ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...PENNIALES		
....GOMPHONEMACEAE		
.....GOMPHONEIS	14#	33
...NAVICULACEAE		
....NAVICULA	14#	33
....NITZSCHIA		
.....NITZSCHIA	14#	33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY--Continued (LAT 42 13 20 LONG 110 19 10)

OCT. 3, 1978
1253 HOURS

PERIPHYTON IDENTIFICATION

__ORGANISM__NAME__	__COMMON__NAME__
CHLOROPHYTA	GREEN ALGAE
..CHLOROPHYCEAE	
...ZYGNEATALES	
...DESMIDIACEAE	PLACODERM DESMIDS
...CLOSTERIUM	
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...ACHNANTHACEAE	
...ACHNANTHES	
& ...COCCONEIS	
...CYMBELLACEAE	
...AMPHORA	
& ...CYMBELLA	
...EPITHEMIA	
...DIATOMACEAE	
& ...DIATOMA	
...FRAGILARIACEAE	
...SYNEDRA	
...GOMPHONEMACEAE	
& ...GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHACEAE	
...NITZSCHIA	
CYANOPHYTA	BLUE-GREEN ALGAE
..CYANOPHYCEAE	
..HORMOGONALES	FILAMENTOUS BL-GREEN
...OSCILLATORIACEAE	
...LYNGBYA	
...OSCILLATORIA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

09208500 LA BARGE CREEK NEAR VIOLA, WY--Continued (LAT 42 13 20 LONG 110 19 10)

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 3,78
TIME	1253

TOTAL COUNT	52
-------------	----

DIVERSITY: PHYLUM	0.0
..CLASS	0.1
...ORDER	1.9
...FAMILY	2.4
....GENUS	2.5
....GENUS-INSECTA	2.4

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...COLEOPTERA	
....ELMIDAE	
....ETERLIMNIUS	18
...DIPTERA	
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....DIAMESA	6
...TIPULIDAE	
...DICRANOTA	1
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	13
...EPHEMERELLIDAE	
....EPHEMERELLA	7
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....AMIOCENTRUS	1
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	4
..ARACHNIDA	
...HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

GREEN RIVER BASIN

420547109272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY (LAT 42 05 47 LONG 109 27 25)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT 15...	1430	--	--	--	--	1	--	--	--	--
MAR 25...	1600	18	1920	8.0	.0	4	750	570	200	62

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 15...	--	--	--	--	--	--	--	--	--
MAR 25...	250	4.0	3.6	220	0	180	970	54	8.9

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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 15...	--	--	--	--	--	--	--	--	--
MAR 25...	1660	2.26	80.7	.48	.88	.00	.89	.09	.00

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, DIS- SOLVED (UG/L AS FE)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 15...	--	--	1100	20200	.099	.020	28	--	--
MAR 25...	.00	40	--	--	--	--	36	1.7	83

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

412450108231001 LANEY WASH AT FORT LA CLEDE, WY (LAT 41 24 50 LONG 108 23 10)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 04...	1430	.01	3900	8.4	16.0	20	9.1	190	0	42	21	970

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINEITY AS (MG/L 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)
OCT 04...	31	2.6	280	11	250	1600	200	1.9	6.7	2990	4.07	.08

DATE	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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 04...	.13	.19	.02	.65	.87	.84	.00	.89	.07	.02	.02

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 04...	.06	610	50	10	10	.0	12900	.620	.019	156	.00

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
OCT 04...	1430	2	16.0	.01	18	27	43

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT 04...	57	59	66	81	94	98	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

412450108231001 LANEY WASH AT FORT LA CLEDE, WY--Continued (LAT 41 24 50 LONG 108 23 10)

PHYTOPLANKTON ANALYSES

DATE	OCT 4, 78
TIME	1430
TOTAL CELLS/ML	10
DIVERSITY: DIVISION	0.0
..CLASS	0.0
...ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)		
..EUGLENOPHYCEAE		
...EUGENALES		
...EUGLENACEAE		
....TRACHELOMONAS	10#100	

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

OCT. 4, 1978
 1430 HOURS

PERIPHYTON IDENTIFICATION

ORGANISM NAME	COMMON NAME
CHRYSTOPHYTA	
..BACILLARIOPHYCEAE	DIATOMS
...PENNALES	PENNATE
...CYMBELLACEAE	
....CYMBELLA	
....RHOPALODIA	
...FRAGILARIACEAE	
& ...SYNEDRA	
...NAVICULACEAE	NAVICULOID
...NAVICULA	
...NITZSCHACEAE	
...NITZSCHIA	
...SURIPELLACEAE	
...SURIPELLA	

NOTE: & - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
 SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
 ANALYSIS METHOD: SLIDE MOUNTING, INVERTED MICROSCOPE

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 4, 78
TIME	1430
TOTAL COUNT	0
DIVERSITY: PHYLUM	0.0
..CLASS	0.0
...ORDER	0.0
...FAMILY	0.0
....GENUS	0.0
....GENUS-INSECTA	0.0
ORGANISM	COUNT

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY (LAT 41 32 00 LONG 108 34 42)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 04...	1200	3.0	3500	8.5	8.0	10	8.3	1600	1400	200	270	270

DATE	SODIUM AD- SURP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINEITY (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)
OCT 04...	2.9	18	220	0	180	1800	140	.6	1.2	2810	3.82	22.8

DATE	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, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 04...	.43	.41	.43	.47	1.5	.88	.00	1.9	.06	.19	.18

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	IN- VERTE- BRATES, BENTHIC WET WT. (G/SQ METER)	BIOMASS CHLORO- PHYLL RATIO PLANK- TON (UNITS)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 04...	.55	720	40	20	1600	.9	5663	.883	.076	57	.46

DATE	TIME	TYPE	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
OCT 04...	1200	2	8.0	3.0	16	30	82	98	98	99	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

413200108344201 BITTER CREEK BELOW PATRICK DRAW, NEAR BITTER CREEK, WY--Continued
(LAT 41 32 00 LONG 108 34 42)

PHYTOPLANKTON ANALYSES

DATE	OCT 4, 78
TIME	1200
TOTAL CELLS/ML	1600
DIVERSITY: DIVISION	0.2
..CLASS	0.2
...ORDER	0.2
...FAMILY	0.5
....GENUS	0.5
ORGANISM	CELLS PER- /ML CENT
CHLOROPHYTA (GREEN ALGAE)	
..CHLOROPHYCEAE	
...CHLOROCOCCALES	
...OOCYSTACEAE	
....OOCYSTIS	61 4
CHRYSOPHYTA	
..BACILLARIOPHYCEAE	
...PENNALES	
...GOMPHONEMACEAE	
....GOMPHONEMA	15 1
...NAVICULACEAE	
...NAVICULA	46 3
...NITZSCHACEAE	
....NITZSCHIA	1500# 93

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE	OCT 4, 78
TIME	1200
TOTAL COUNT	10
DIVERSITY: PHYLUM	0.0
..CLASS	0.0
...ORDER	0.9
...FAMILY	1.2
....GENUS	1.6
....GENUS-INSECTA	1.6
ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...DIPTERA	
...CHIRONOMIDAE	
....CHAETOCLODIUS	1
....CRICOTOPIUS	6
...EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
...EPHEMERELLIDAE	
....EPHEMERELLA	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

411111107042301 HAGGARTY CREEK AT L-113, ABOVE FERRIS HAGGARTY MINE, WY (LAT 41 11 11 LONG 107 04 23)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	11	160	10	0	19

411056107044401 HAGGARTY CREEK AT L-115, BELOW FERRIS HAGGARTY MINE, WY (LAT 41 10 56 LONG 107 04 44)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	12	4400	20	0	21

411044107050401 HAGGARTY CREEK AT L-118, BELOW FERRIS HAGGARTY MINE, WY (LAT 41 10 44 LONG 107 05 04)

DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 05...	1645 170

411027107052701 HAGGARTY CREEK AT L-121, AT DILLON, WY (LAT 41 10 27 LONG 107 05 27)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	10	680	0	0	17

411015107060701 HAGGARTY CREEK AT L-124, BELOW BACHELOR CREEK, AT DILLON, WY
(LAT 41 10 15 LONG 107 06 07)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	10	480	0	0	14

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

411009107062501 HAGGARTY CREEK AT L-125, NEAR DILLON, WY (LAT 41 10 09 LONG 107 06 25)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 06...	0945	110

410953107063301 HAGGARTY CREEK AT L-126, NEAR DILLON, WY (LAT 41 09 53 LONG 107 06 33)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 06...	1045	92

410938107064201 HAGGARTY CREEK AT L-128, NEAR DILLON, WY (LAT 41 09 38 LONG 107 06 42)

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JUL 06...	1230	0	200	0

410923107065301 HAGGARTY CREEK AT L-129, NEAR COPPERTON, WY (LAT 41 09 23 LONG 107 06 53)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 06...	1400	60

410901107070601 HAGGARTY CREEK AT L-130, ABOVE BELVIDERE DITCH, WY (LAT 41 09 01 LONG 107 07 06)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 06...	1500	58

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

277

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

410850107071201 HAGGARTY CREEK AT L-131, BELOW BELVIDERE DITCH, WY (LAT 41 08 50 LONG 107 07 12)

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JUL 06...	1600	0	120	0

410838107071501 HAGGARTY CREEK AT L-133, AT COPPERTON, WY (LAT 41 08 38 LONG 107 07 15)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	10	180	0	0	16

410818107063702 HAGGARTY CREEK AT L-47, AT SAVERY STOCK DRIVEWAY, WY (LAT 41 08 18 LONG 107 06 37)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 01...	0900	48

410818107065501 HAGGARTY CREEK AT L-134, BELOW COPPERTON, WY (LAT 41 08 18 LONG 107 06 55)

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JUL 07...	1230	0	13	0

410804107064601 HAGGARTY CREEK AT L-135, BELOW COPPERTON, WY (LAT 41 08 04 LONG 107 06 46)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 07...	1330	40

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GREEN RIVER BASIN

410750107065101 HAGGARTY CREEK AT L-136, NEAR COPPERTON, WY (LAT 41 07 50 LONG 107 06 51)

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 22...	0	10	130	0	0	15

410733107065101 HAGGARTY CREEK AT L-137, NEAR COPPERTON, WY (LAT 41 07 33 LONG 107 06 51)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUL 07...	1530	12

410732107064101 LOST CREEK AT L-45, NEAR MOUTH, NEAR COPPERTON, WY (LAT 41 07 32 LONG 107 06 41)

DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JUN 30...	1830	1	8	0

410730107065402 WEST FORK BATTLE CREEK AT L-42, BELOW HAGGARTY CREEK, WY (LAT 41 07 30 LONG 107 06 54)

DATE	TIME	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JUN 30...	1530	64

09258200 DRY COW CREEK NEAR BAGGS, WY (LAT 41 20 24 LONG 107 40 14)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
MAR 28...	0900	.16	1150	.50	25	27	73	93	99	100
APR 26...	0900	--	135	--	--	--	--	--	--	--

CARBON COUNTY

414650107254501. Local number, 21N 089W 22ada01.
 LOCATION.--Lat 41°46'50", long 107°25'45", in NE¼SE¼NE¼ sec.22, T.21 N., R.89 W., Hydrologic Unit 14040200.
 Owner: U.S. Bureau of Land Management.
 AQUIFER.--Fort Union Formation.
 WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in (10 cm), depth 156 ft (47.5 m), cased.
 DATUM.--Altitude of land-surface datum is about 6,705 ft (2,044 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
 PERIOD OF RECORD.--July 1963, April 1965 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.17 ft (10.72 m) below land-surface datum, Feb. 16, 1979;
 lowest, 42.64 ft (13.00 m) below land-surface datum, July 18, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
JAN 18	(M)
FEB 16	35.17

M - Obstruction in well above water level.

LINCOLN COUNTY

415442110571801. Local number, 22N 119W 05cda01.
 LOCATION.--Lat 41°54'42", long 110°57'18", in NE¼SE¼SW¼ sec.5, T.22 N., R.119 W., Hydrologic Unit 16010101.
 Owner: Doyle Knouse.
 AQUIFER.--Terrace deposits of Bear River.
 WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in (30 cm), depth 250 ft (76.2 m), cased, perforated 40-250 ft (12.2-76.2 m).
 DATUM.--Altitude of land-surface datum is about 6,227 ft (1,898 m). Measuring point: Top of west side of airline plug, 0.50 ft (0.15 m) above land-surface datum.
 PERIOD OF RECORD.--April 1959, April 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.26 ft (8.92 m) below land-surface datum, Aug. 26, 1975;
 lowest, 47.24 ft (14.40 m) below land-surface datum, Oct. 26, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
OCT 26	47.24

415557110571502. Local number, 23N 119W 32bda02.
 LOCATION.--Lat 41°55'57", long 110°57'15", in NE¼SE¼NW¼ sec.32, T.23 N., R.119 W., Hydrologic Unit 16010101.
 Owner: Thornock Bros.
 AQUIFER.--Terrace deposits of Bear River.
 WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased.
 DATUM.--Altitude of land-surface datum is about 6,211 ft (1,893 m). Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.
 PERIOD OF RECORD.--April 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.48 ft (3.80 m) below land-surface datum, Aug. 9, 1972;
 lowest, 32.14 ft (9.80 m) below land-surface datum, Mar. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
OCT 26	25.61
MAR 16	29.58

420202110560201. Local number, 24N 119W 28aca01.
 LOCATION.--Lat 42°02'02", long 110°56'02", in NE¼SW¼NE¼ sec.28, T.24 N., R.119 W., Hydrologic Unit 16010102.
 Owner: Herman Teichert.
 AQUIFER.--Terrace deposits of Bear River.
 WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased, perforated 0-220 ft (0-67.1 m).
 DATUM.--Altitude of land-surface datum is about 6,195 ft (1,888 m). Measuring point: Hole inside east side of pump shell, 0.20 ft (0.06 m) above land-surface datum.
 PERIOD OF RECORD.--April 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft (2.88 m) below land-surface datum, July 9, 1971;
 lowest, 20.78 ft (6.33 m) below land-surface datum, Jan. 3, 1977.
 REVISION.--The lowest water level has been revised to 20.78 ft (6.33 m) below land-surface datum, Jan. 3, 1977, superceding the figure published in reports for 1977 and 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
OCT 26	14.59

GROUND-WATER LEVELS

SUBLETTE COUNTY

423504110053001. Local number, 30N 111W 17aca01.

LOCATION.--Lat 42°35'04", long 110°05'30", in NE&SW&NE& sec.17, T.30 N., R.111 W., Hydrologic Unit 14040101.

Owner: Sublette County.

AQUIFER.--Wasatch Formation.

WELL CHARACTERISTICS.--Drilled public-service artesian well, diameter 8 in (20 cm), depth 435 ft (132.6 m), cased.

DATUM.--Altitude of land-surface datum is about 6,880 ft (2,097 m). Measuring point: Hole in board over casing,

6.00 ft (1.83 m) below land-surface datum.

PERIOD OF RECORD.--April 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.13 ft (5.53 m) below land-surface datum, Aug. 6, 1971;
lowest, 22.38 ft (6.82 m) below land-surface datum, Mar. 8, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
NOV 1	20.16
APR 6	22.05

430118110071001. Local number, 35N 111W 08adb01.

LOCATION.--Lat 43°01'18", long 110°07'10", in NW&SE&NE& sec.8, T.35 N., R.111 W., Hydrologic Unit 14040101.

Owner: U.S. Geological Survey.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1 in (3 cm), depth 39 ft (11.9 m), slotted
pipe 30-39 ft (9.1-11.9 m).

DATUM.--Altitude of land-surface datum is about 7,500 ft (2,286 m). Measuring point: Top of pipe, 3.00 ft

(0.91 m) above land-surface datum.

PERIOD OF RECORD.--April 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.65 ft (1.42 m) below land-surface datum, Apr. 27, 1965;
lowest, 7.05 ft (2.15 m) below land-surface datum, July 25, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
OCT 31	6.42
APR 5	6.36

UINTA COUNTY

411600110243301. Local number, 15N 115W 20cba01.

LOCATION.--Lat 41°16'00", long 110°24'33", in NE&NW&SW& sec.20, T.15 N., R.115 W., Hydrologic Unit 14040107.

Owner: School District.

AQUIFER.--Alluvium of terrace along Blacks Fork.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (61 cm), depth 17 ft (5.2 m), cased with tile.

DATUM.--Altitude of land-surface datum is about 6,940 ft (2,115 m). Measuring point: Top of concrete cover,

1.00 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--April 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.16 ft (0.05 m) above land-surface datum, July 4, 1971,
July 10, 1974; lowest, 11.47 ft (3.50 m) below land-surface datum, Mar. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL
OCT 1	2.23
MAR 16	9.09

412248111020301. Local number, 16N 121W 11acc01.

LOCATION.--Lat 41°22'48", long 111°02'03", in SW&SW&NE& sec.11, T.16 N., R.121 W., Hydrologic Unit 16010101.

Owner: Elwin Sessions.

AQUIFER.--Terrace deposits.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 48+ in (122+ cm), depth 34 ft (10.4 m), cribbed
with rock.DATUM.--Altitude of land-surface datum is about 6,575 ft (2,004 m). Measuring point: Top of corrugated casing,
3.50 ft (1.01 m) above land-surface datum (since Mar. 4, 1970).

PERIOD OF RECORD.--November 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.19 ft (3.72 m) below land-surface datum, June 8, 1970;
lowest, 29.12 ft (8.88 m) below land-surface datum, Mar. 15, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

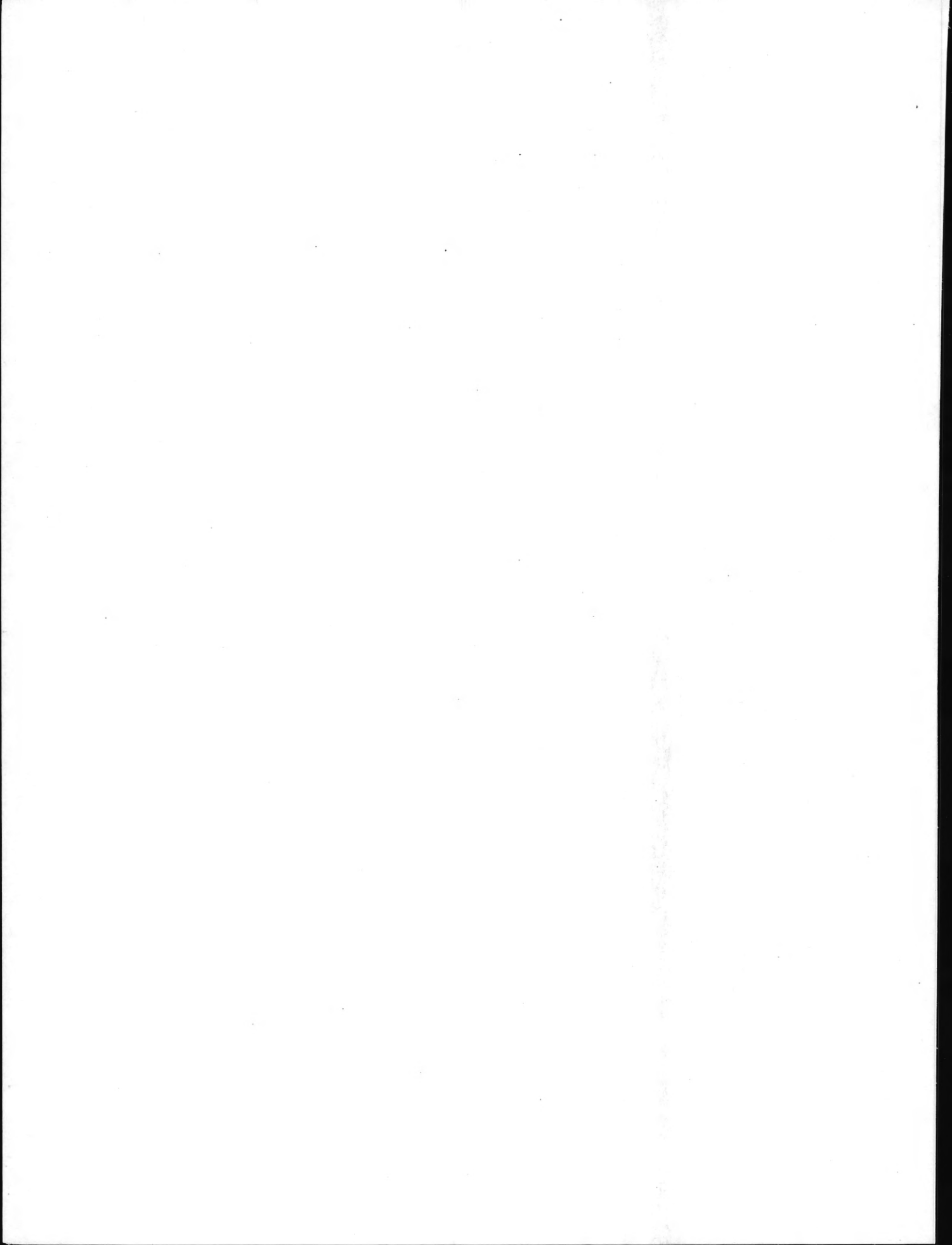
DATE	WATER LEVEL
OCT 31	23.64
MAR 16	25.68

INDEX

	Page		Page
Accuracy of field data and computed results..	12	Cokeville, Bear River below Pixley Dam, near.	212
Acre-foot, definition of.....	2	Bear River below Smiths Fork, near.....	214
Adenosine triphosphate, definition of.....	2	Coliform bacteria, fecal, definition of.....	2
Afton, Swift Creek near.....	239	fecal streptococcal, definition of.....	2
Algae, blue-green, definition of.....	5	total, definition of.....	2
Algae, definition of.....	2	Collection and computation of	
Algae, green, definition of.....	5	surface-water data.....	10
Algal growth potential, definition of.....	2	Collection and examination of	
Alpine, Greys River above reservoir, near....	236-238	water-quality data.....	13
Snake River above reservoir, near.....	233-235	Collection of ground-water level data.....	14
Aquifer, definition of.....	2	Colorado River basin, analyses of samples	
Artificial substrate, definition of.....	7	collected at miscellaneous sites in....	250-278
Artesian, definition of.....	2	crest-stage partial-record stations in....	246-248
Ash mass, definition of.....	3	discharge measurements at miscellaneous	
		sites in.....	249
Bacteria, definition of.....	2	gaging-station records in.....	21-190
Baggs, Little Snake River near.....	189-190	Color unit, definition of.....	3
Battle Creek, West Fork, at L-42,		Concentration, mean, definition of.....	7
below Haggerty Creek.....	278	Contents, definition of.....	3
Bear River, above reservoir, near		Control, definition of.....	3
Woodruff, UT.....	199-201	Control structure, definition of.....	3
at Border.....	215-222	Cooperation.....	1
below Pixley Dam, near Cokeville.....	212	Crest-stage partial-record stations,	
below reservoir, near Woodruff, UT.....	203	discharge of.....	246-248
below Smiths Fork, near Cokeville.....	214	Cubic feet per second per square mile,	
East Fork, near Evanston.....	191	definition of.....	3
near Randolph, UT.....	204	Cubic foot per second, definition of.....	3
near Utah-Wyoming State line.....	195	Cutthroat Draw near Rock Springs.....	247
West Fork, at Whitney Dam, near Oakley, UT.	193		
below Deer Creek, near Evanston.....	194	Daniel, Green River at Warren Bridge, near...	21-23
Bear River basin, crest-stage partial-		Deadman Wash near Point of Rocks.....	246
record station in.....	248	Definition of terms.....	2
gaging-station records in.....	191-223	Delaney Draw near Red Desert.....	246
Bed material, definition of.....	3	Diamondville, Hams Fork near.....	154-157
Big Flat Draw near Rock Springs.....	247	Diatoms, definition of.....	5
Big Piney, Green River near.....	24	Discharge, at crest-stage partial-record	
New Fork River near.....	27-30	stations.....	246-248
Big Sandy, Big Sandy River at		at miscellaneous sites.....	249
Leckie Ranch, near.....	52	definition of.....	4
East Fork River near.....	26	instantaneous, definition of.....	4
Big Sandy River, above Little Sandy Creek,		mean, definition of.....	4
near Farson.....	270	Dissolved, definition of.....	4
at Gasson Bridge, near Eden.....	65-67	Diversity index, definition of.....	4
at Leckie Ranch, near Big Sandy.....	52	Dixon, Little Snake River near.....	186-187
below Eden.....	59-64	Willow Creek near.....	188
near Farson.....	53-54	Downstream order and station number.....	9
Biochemical oxygen demand, definition of....	3	Drainage area, definition of.....	4
Biomass, definition of.....	3	Drainage basin, definition of.....	4
Bitter Creek, Bitter Creek near.....	75-84	Dry Basin Creek near Big Piney.....	246,259
Bitter Creek, above Salt Wells Creek,		Dry Canyon Creek near South Baxter.....	101,246
near Salt Wells.....	85-90	Dry Cow Creek near Baggs.....	248,278
below Little Bitter Creek, near Kanda.....	110-113	Dry mass, definition of.....	3
below Patrick Draw, near Bitter Creek.....	273-274		
near Bitter Creek.....	75-84	East Fork River near Big Sandy.....	26
tributary near Green River.....	247	East Otterson Wash near Green River.....	246
Blacks Fork, near Little America.....	160-164	Eden, Big Sandy River at Gasson Bridge, near.	65-67
near Lyman.....	135-140	Big Sandy River below.....	59-64
near Millburne.....	130	Little Sandy Creek above.....	55-58
near Robertson.....	129	Etna, Salt River above reservoir, near.....	240-244
tributary near Granger.....	247	Evanston, Chapman Canal at State line, near..	198
tributary No. 2 near Green River.....	247	East Fork Bear River near.....	191
tributary No. 3 near Green River.....	247	Hilliard-East Fork Canal near State	
tributary No. 4 near Green River.....	247	line, near.....	192
Blue-green algae, definition of.....	5	Sulphur Creek, above reservoir, near.....	196
Border, Bear River at.....	215-222	below reservoir, near.....	197
Smiths Fork near.....	213	West Fork Bear River below Deer Creek,	
Bottom material, recoverable from.....	3	near.....	194
total in.....	3		
Buffalo Fork above Lava Creek, near Moran....	227	Farson, Big Sandy River near.....	53-54
Burnt Fork near Burnt Fork.....	165	Flaming Gorge Reservoir at Flaming Gorge	
Burnt Fork, Burnt Fork near.....	165	Dam, UT.....	170
		Fontenelle, Fontenelle Reservoir near.....	40
Cache Creek near Jackson.....	228-231	Fontenelle Creek near Herschler Ranch,	
Cells per volume, definition of.....	3	near.....	39
Cfs-day, definition of.....	3	Fontenelle Creek near Herschler Ranch,	
Chapman Canal at State line, near Evanston...	198	near Fontenelle.....	39
Chemical oxygen demand, definition of.....	3	Fontenelle Reservoir, Green River below.....	41-51
Chlorophyll, definition of.....	3	near Fontenelle.....	40

	Page		Page
Fourmile Gulch tributary near Fontenelle.....	246	La Barge Creek, near La Barge Meadows	
Fremont Lake, Pine Creek above.....	25	ranger station.....	31, 264-266
Frontier, Hams Fork below Pole Creek, near...	153	near Scalers Cabin.....	260-263
		near Viola.....	267-269
Gage height, definition of.....	4	Lakes and reservoirs:	
Gaging station, definition of.....	4	Flaming Gorge Reservoir.....	170
Gap Creek below Beans Spring Creek, near		Fontenelle Reservoir near Fontenelle.....	40
South Baxter.....	246	Grassy Lake near Moran.....	245
Glencoe, Little Muddy Creek near.....	141-147	Jackson Lake near Moran.....	224
Granger, Hams Fork near.....	158-159	Woodruff Narrows Reservoir near	
Grassy Lake near Moran.....	245	Woodruff, UT.....	202
Great Salt Lake basin, gaging station		Laney Wash at Fort La Clede.....	271-272
records in.....	191-223	Little America, Blacks Fork near.....	160-164
Green algae, definition of.....	5	Little Muddy Creek near Glenco.....	141-147
Green River, Green River at Big Island, near.	68-69	Little Sandy Creek above Eden.....	55-58
Green River below.....	123-128	Little Snake River, near Baggs.....	189-190
near.....	114-122	near Dixon.....	186-187
Green River, at Big Island, near Green River.	68-69	near Slater, CO.....	182-184
at Warren Bridge, near Daniel.....	21-23	North Fork, diversion to Hog Park Creek,	
below Fontenelle Reservoir.....	41-51	near Encampment.....	249
below Green River.....	123-128	Lost Creek at L-45, near mouth, near	
near Big Piney.....	24	Copperton.....	278
near Green River.....	114-122	Lyman, Blacks Fork near.....	135-140
near Greendale, UT.....	171-176	Smiths Fork near.....	133-134
near La Barge.....	32-38		
tributary No. 2 near Burntfork.....	248	Manila, UT, Henrys Fork near.....	166-169
Green River basin, analyses of samples		Meadow Springs Wash tributary near	
collected at miscellaneous sites in....	250-278	Green River.....	247
crest-stage partial-record stations in....	246-248	Mean concentration, definition of.....	7
discharge measurements at miscellaneous		Mean discharge, definition of.....	4
sites in.....	249	Metamorphic stage, definition of.....	4
gaging-station records in.....	21-190	Methylene blue active substance,	
Greendale, UT, Green River near.....	171-176	definition of.....	4
Greys River above reservoir, near Alpine.....	236-238	Micrograms per gram, definition of.....	4
Ground-water level records, explanation of...	14	Micrograms per liter, definition of.....	4
Ground-water records, by county:		Millburne, Blacks Fork near.....	130
Carbon County.....	279	Milligrams of carbon per area or volume per	
Lincoln County.....	279	unit time [mg C/(m ² .time)] for peri-	
Sublette County.....	280	phyton and macrophytes and	
Uinta County.....	280	mg C/(m ³ .time)] for phytoplankton.....	6
Haggarty Creek, at L-113, above Ferris		Milligrams of oxygen per area or volume per	
Haggerty Mine.....	275	unit time [mg O ₂ /(m ² .time)] for peri-	
at L-115, below Ferris Haggerty Mine.....	275	phyton and macrophytes and	
at L-118, below Ferris Haggerty Mine.....	275	mg O ₂ /(m ³ .time)] for phytoplankton.....	6
at L-121, at Dillon.....	275	Milligrams per liter, definition of.....	4
at L-124, below Bachelor Creek, at Dillon..	275	Miscellaneous sites, analyses of samples	
at L-125, near Dillon.....	276	collected at.....	250-278
at L-126, near Dillon.....	276	discharge measurements at.....	249
at L-128, near Dillon.....	276	Moran, Buffalo Fork above Lava Creek, near...	227
at L-129, near Copperton.....	276	Grassy Lake near.....	245
at L-130, above Belvidere Ditch.....	276	Jackson Lake near.....	224
at L-131, below Belvidere Ditch.....	277	Pacific Creek near.....	226
at L-133, at Copperton.....	277	Snake River near.....	225
at L-47, at Savery Stock Driveway.....	277	Mud Spring Hollow near Church Butte,	
at L-134, below Copperton.....	277	near Lyman.....	247
at L-135, below Copperton.....	277	Muddy Creek near Hampton.....	148-152
at L-136, near Copperton.....	278		
at L-137, near Copperton.....	278	National Geodetic Vertical Datum of 1929,	
Hampton, Muddy Creek near.....	148-152	definition of.....	4
Hams Fork, below Pole Creek, near Frontier...	153	National stream-quality accounting network,	
near Diamondville.....	154-157	definition of.....	10
near Granger.....	158-159	Natural substrate, definition of.....	7
Hardness, definition of.....	4	New Fork River near Big Piney.....	27-30
Henrys Fork near Manila, UT.....	166-169	No Name Creek near Rock Springs.....	247
Hiawatha, CO, Vermillion Creek near.....	177-181	North Horse Creek above Mule Creek, near	
Hilliard-East Fork Canal near State line,		Sherman ranger station.....	250-252
near Evanston.....	192	Numbering system for wells and	
Horse Creek, above Sherman ranger station....	253-255	miscellaneous sites.....	9
at Sherman ranger station.....	256-259		
Hydrologic bench-mark station,		Oakley, UT, West Fork Bear River at	
definition of.....	10	Whitney Dam, near.....	193
Hydrologic conditions.....	2	Organic mass, definition of.....	3
Hydrologic unit, definition of.....	4	Organism, definition of.....	5
		Organism count/area, definition of.....	5
Instantaneous discharge, definition of.....	4	Organism count/volume, definition of.....	5
Introduction.....	1	Other data available.....	13
Jackson, Cache Creek near.....	228-231	Pacific Creek near Moran.....	226
Snake River below Flat Creek, near.....	232	Partial-record station, definition of.....	5
Jackson Lake near Moran.....	224	Partial-record stations, discharge at.....	246-248
		Particle size, definition of.....	5
Kanda, Bitter Creek below Little Bitter		Particle-size classification, definition of...	5
Creek, near.....	110-113	Percent composition, definition of.....	5
Killpecker Creek at Rock Springs.....	107-109	Periphyton, definition of.....	5
La Barge, Green River near.....	32-38	Pesticide program, definition of.....	10
		Pesticides, definition of.....	5
		Phytoplankton, definition of.....	5

	Page		Page
Picocurie, definition of.....	5	Specific conductance, definition of.....	7
Pine Creek above Fremont Lake.....	25	Squaw Hollow near Burntfork.....	248
Plankton, definition of.....	5	Stage-discharge relation, definition of.....	7
Polychlorinated biphenyls, definition of.....	6	Station number, downstream order and.....	9
Primary productivity, definition of.....	6	Streamflow, definition of.....	7
Publications on techniques of water- resources investigations.....	15	Substrate, definition of.....	7
Radiochemical program, definition of.....	10	Artificial, definition of.....	7
Randolph, UT, Bear River near.....	204	Natural, definition of.....	7
Records, explanation of.....	10	Sulphur Creek, above reservoir, near Evanston.....	196
Ground-water, collection.....	14	below reservoir, near Evanston.....	197
Surface-water, accuracy.....	12	Summers Dry Creek near Green River.....	247
collection.....	10	Surface area, definition of.....	7
computation.....	10	Surface-water records.....	21-245
other agencies.....	13	Surface-water records, explanation of.....	10
other data.....	13	Surficial bed material, definition of.....	7
Water-quality, analysis.....	13	Suspended, definition of.....	7
collection.....	13	recoverable, definition of.....	6
examination.....	13	total, definition of.....	6
sediment.....	14	Suspended sediment, definition of.....	6
temperature.....	13	Suspended-sediment, concentration, definition of.....	6
Records of discharge collected by agencies other than the Geological Survey.....	13	discharge, definition of.....	6
Reservoirs. See lakes and reservoirs.		load, definition of.....	6
Riner, Separation Creek near.....	70-74	Swift Creek near Afton.....	239
Robertson, Blacks Fork near.....	129	Taxonomy, definition of.....	8
East Fork of Smiths Fork near.....	131	Terms and abbreviations, definition of.....	2
West Fork of Smiths Fork near.....	132	Thermograph, definition of.....	8
Rock Springs, Killpecker Creek at.....	107-109	Thomas Fork near Wyoming-Idaho State line....	223
Runoff in inches, definition of.....	6	Time-weighted average, definition of.....	8
Sage, Twin Creek at.....	205-211	Tons per acre-foot, definition of.....	8
Salt River above reservoir, near Etna.....	240-244	Tons per day, definition of.....	8
Salt Wells, Bitter Creek above Salt Wells Creek, near.....	85-90	Total, definition of.....	7
Salt Wells Creek near.....	102-106	Total coliform bacteria, definition of.....	2
Salt Wells Creek, near Salt Wells.....	102-106	Total load, definition of.....	8
near South Baxter.....	91-100	Total organism count, definition of.....	5
Sand Springs Draw tributary near Boulder.....	246	Total recoverable, definition of.....	7
Sediment, explanation of records collected... definition of.....	14 6	Total sediment discharge or total sediment load, definition of.....	7
Separation Creek near Riner.....	70-74	Tritium network, definition of.....	10
Skunk Canyon Creek near Green River.....	246	Twin Creek at Sage.....	205-211
Slater, CO, Little Snake River near.....	182-184	Vermillion Creek near Hiawatha, CO.....	177-181
Slater Fork near.....	185	Water analysis.....	13
Slater Fork near Slater, CO.....	185	Water-quality records, definition of.....	13
Smiths Fork (tributary to Blacks Fork), East Fork of, near Robertson.....	131	Water temperature.....	13
near Lyman.....	133-134	Water year, definition of.....	8
West Fork of, near Robertson.....	132	WDR, definition of.....	8
Smiths Fork (Bear River basin) near Border....	213	Weighted average, definition of.....	8
Snake River, above reservoir, near Alpine.....	233-235	Well number.....	9
below Flat Creek, near Jackson.....	232	Wet mass, definition of.....	3
near Moran.....	225	Whitney Canyon Creek near Evanston.....	248
Snake River basin, crest-stage partial- record station in.....	248	Willow Creek near Dixon.....	188
gaging-station records in.....	224-245	Woodruff Narrows Reservoir near Woodruff, UT.....	202
Sodium-adsorption ratio, definition of.....	7	Woodruff, UT, Bear River above reservoir, near.....	199-201
Solute, definition of.....	7	Bear River below reservoir, near.....	203
Sour Moose Creek near Bondurant.....	248	Woodruff Narrows Reservoir near.....	202
South Baxter, Dry Canyon Creek near.....	101	WSP, definition of.....	8
Salt Wells Creek near.....	91-100	Zooplankton, definition of.....	6
Special networks and programs.....	10		



CALENDAR FOR WATER YEAR 1979

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OCTOBER

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