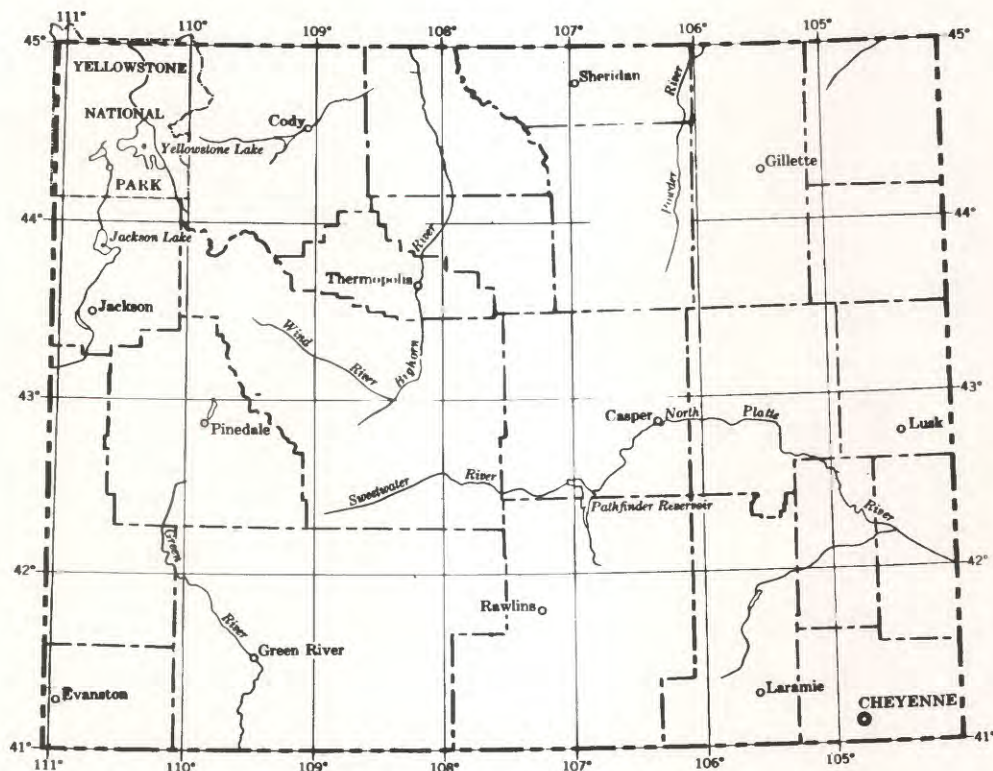


WATER-RESOURCES INVESTIGATIONS OF THE
U. S. GEOLOGICAL SURVEY IN WYOMING,
OCTOBER 1976 TO SEPTEMBER 1977



Prepared by
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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By U.S. Geological Survey, Water Resources Division

Open-File Report 77-222

Cheyenne, Wyoming
February 1977

UNITED STATES DEPARTMENT OF THE INTERIOR

Cecil D. Andrus, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

COOPERATING AGENCIES

State Agencies

Wyoming Department of Agriculture
Wyoming Department of Economic Planning and Development
Wyoming Department of Environmental Quality
Wyoming Highway Department
Wyoming State Engineer
Wyoming Water Resources Research Institute

County

Teton

Municipalities

City of Cheyenne
City of Riverton

Federal Agencies

Bureau of Land Management
Bureau of Reclamation
Corps of Engineers
Energy Research and Development Administration
Environmental Protection Agency
National Park Service

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WATER-RESOURCES INVESTIGATIONS OF THE

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INTRODUCTION

The U.S. Geological Survey, in cooperation with the State of Wyoming, Teton County, the cities of Cheyenne and Riverton, and other Federal agencies, have five data-collection activities and 18 water-resources appraisal projects under way in Wyoming during fiscal year 1977 (October 1, 1976, through September 30, 1977).

The data-collection activities include: (1) Continuous records of streamflow and reservoir storage; (2) peak-flow information at partial-record sites; (3) sampling and chemical analyses of water from streams and wells; (4) sampling and sediment analysis of surface water; and (5) measurements of water levels in wells. This report contains lists of monitoring sites for these five data-collection activities.

The water-resources appraisal projects include: (1) Flood investigations in Wyoming; (2) Flood-hazard information, House Document 465; (3) Water resources of Weston County, Wyoming; (4) Monitoring waste-water effluent in Yellowstone and Grand Teton National Parks, Wyoming; (5) Water and its relation to economic development in the Green River and Great Divide basins in Wyoming; (6) Impacts of economic development and water use on water resources in the Hanna basin in Wyoming; (7) Water resources of the Powder River structural basin in Wyoming in relation to energy development; (8) Hydrology of Paleozoic rocks in the Powder River basin and adjacent areas, northeastern Wyoming; (9) Evaluation of selected Paleozoic and flood-plain aquifers in the Bighorn basin, north-central Wyoming; (10) Algal-growth potential of principal North Platte River reservoirs in Wyoming; (11) Preliminary digital model of the Arikaree aquifer in the Sweetwater River basin, central Wyoming; (12) Quantitative study of the Tertiary aquifers in southern Laramie County, Wyoming; (13) Availability of ground water from the Cretaceous and Tertiary aquifers of the Fort Union Coal Region; (14) Runoff and sediment yield from rainfall simulation; (15) Geochemical survey of waters of the western coal regions; (16) Reconnaissance techniques for evaluating the rehabilitation potential of energy lands; (17) Sorption of residual organic substances in retort waters by spent oil-shale residues; and (18) Hydrology of the Madison aquifer.

The purpose of this report is to describe the water-resources work being done in Wyoming, especially in the coal and oil-shale development areas. It is one phase of an effort to coordinate the water-resources investigations of the U.S. Geological Survey with those of other organizations. Additional information about the water-resources program of the Geological Survey or closer coordination of the water-resources studies may be obtained by contacting the District Chief, Water Resources Division, U.S. Geological Survey, 4020 House Avenue, P.O. Box 2087, Cheyenne, Wyoming 82001. The commercial telephone number is 307-778-2220, extension 2111, and the FTS number is 328-2111.

DATA-COLLECTION ACTIVITIES

Basic data currently being collected are shown as follows: Table 1, Streamflow and reservoir stations; table 2, peak-flow partial-record stations; table 3, chemical-quality stations; table 4, sediment stations; and table 5, observation wells.

Stations in the first four tables are listed in downstream order. Identification numbers have been assigned to conform with the standard downstream order for listing stations within each hydrologic region. The location of each data site is given in the tables.

Observation wells are listed in numerical order by counties. The well-numbering procedure used is based on the U.S. Land Grant System. The first segment of the number is the township (north); the second number segment is the range (west); the third number segment is the section, which is followed by a first letter designating the quarter section, a second letter, if shown, designating the quarter-quarter section, etc., (A-NE $\frac{1}{4}$, B-NW $\frac{1}{4}$, C-SW $\frac{1}{4}$, D-SE $\frac{1}{4}$). Well 30-108-05BCD2, for example, is in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of sec. 5, T.30 N., R.108 W. The number 2 indicates a second well in the quarter-quarter-quarter section. Wells shown in Fremont County have an additional uppercase letter that begins the number. This letter designates the quadrant of the Wind River Meridian and Base Line System. The quadrants are lettered A, B, C, and D in a counter-clockwise direction beginning with A in the northeast quadrant.

The headings of the columns in the five tables are slightly different to accommodate the type of site in each list. In order to include the variety of information required by the many users of the lists, abbreviations and codes were used to conserve space in the tables. Explanations of the abbreviations and codes are given preceeding each table.

The locations of surface-water data sites are shown in figures 1-5. Observation well locations are shown in figures 6-9.

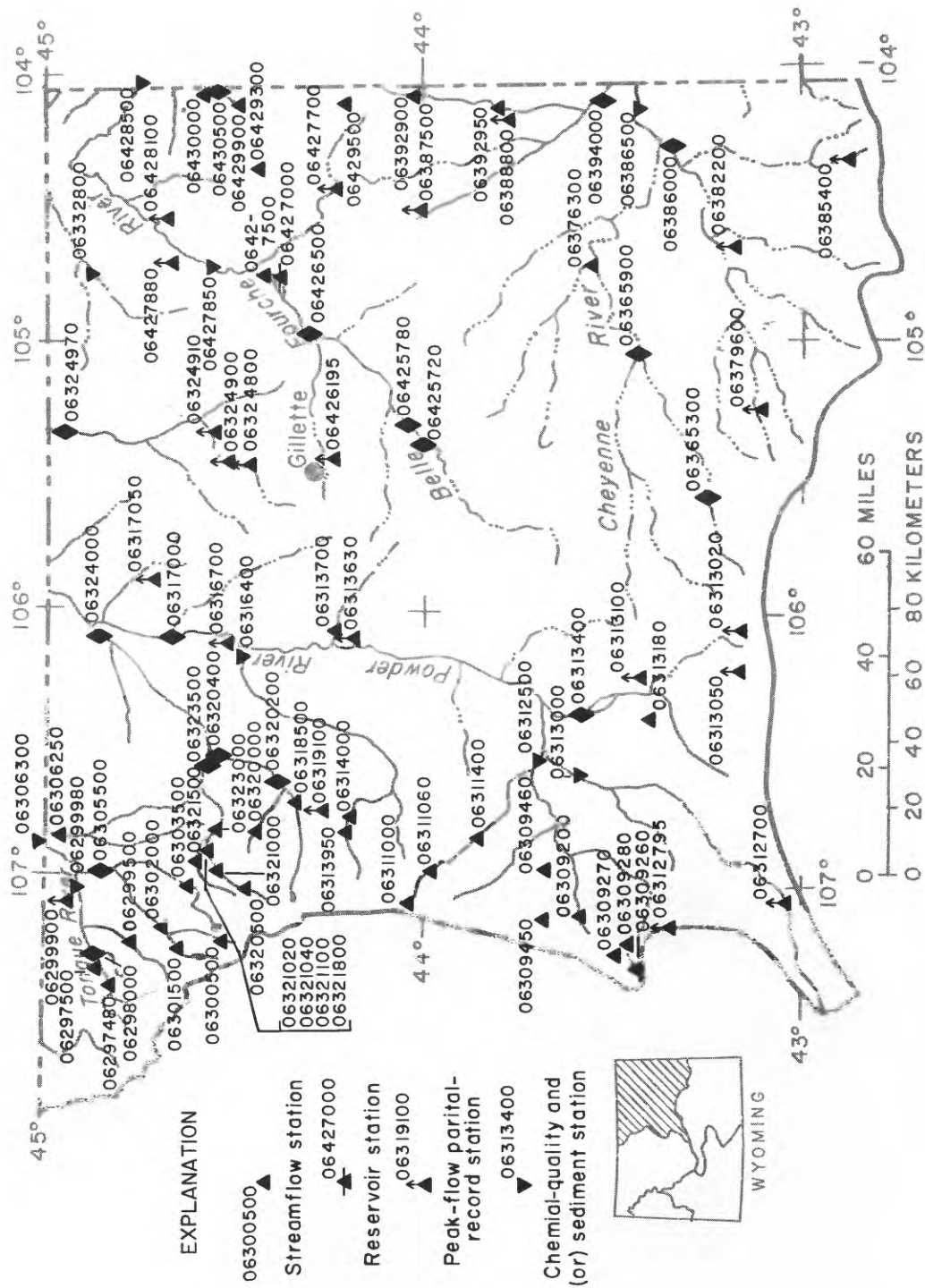


Figure 2.—Location of surface-water data sites in the Tongue River, Powder River, Belle Fourche River, and Cheyenne River basins.

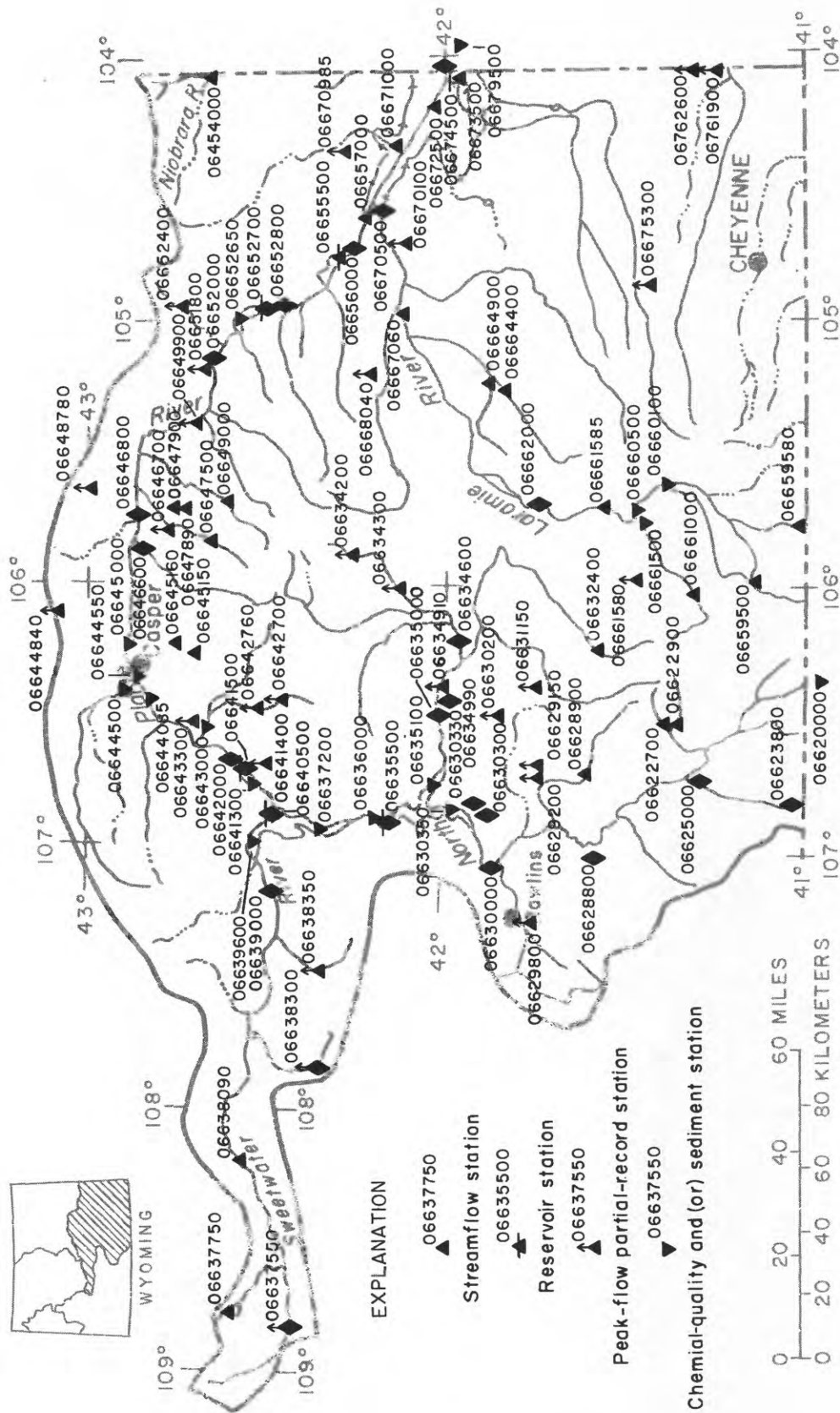


Figure 3.—Location of surface-water data sites in the Niobrara River and Platte River basins.

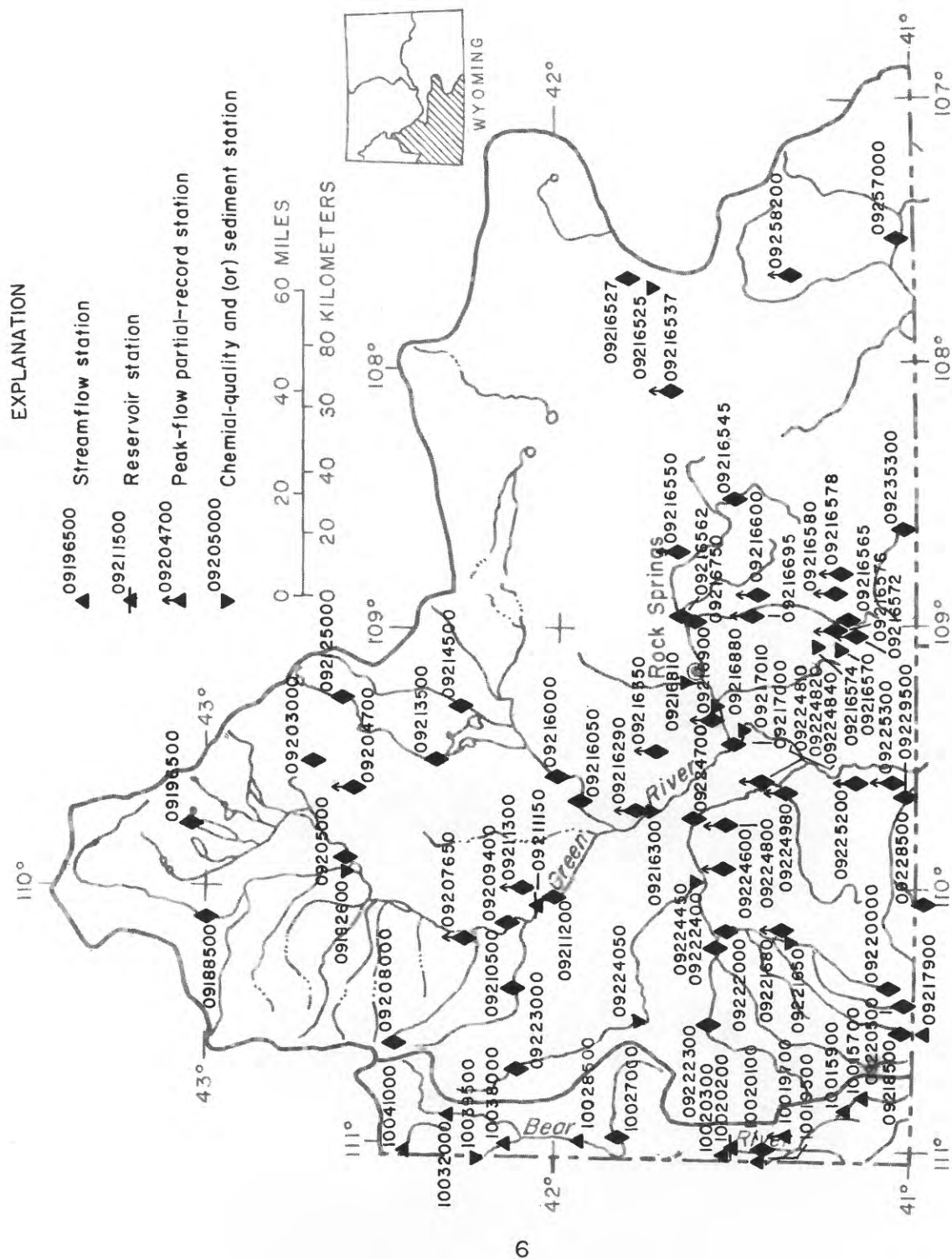


Figure 4.—Location of surface-water data sites in the Green River and Bear River basins.

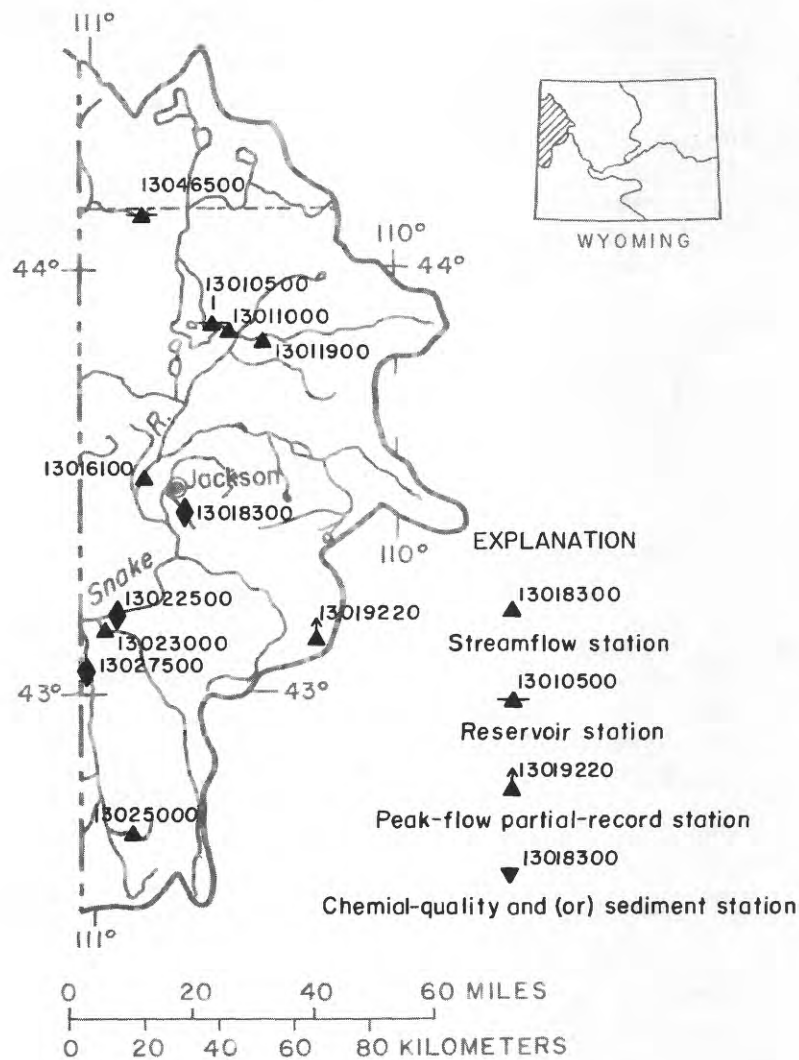


Figure 5.—Location of surface-water data sites in the Snake River basin.

Explanation of abbreviations and codes used in table 1.

Purpose: B, bench-mark or long-term-trend station
C, current-purpose station such as accounting, operation,
forecasting, disposal, water quality, compact or legal,
research or special study
H, hydrologic station
P, principal-stream station
R, regulated station

Period of Record: The dates given are the calendar years in which records
began or ended. Breaks of less than a year are not
shown.

Gage Equipment: D, digital recorder
G, graphic recorder
M, manometer gage
O, observer record only
T, pressure-transducer gage
W, well gage

Current Record Type: S, seasonal operation (no winter records)
Y, full-year operation

Field Office: C, Casper R, Riverton
CF, Cheyenne Field Unit S, Wyoming State Engineer
GR, Green River SD, South Dakota District
I, Idaho District W, Worland
M, Montana District U, Utah District

Cooperator: BLM, Bureau of Land Management
BRUC, Bureau of Reclamation, Upper Colorado Region
BRUM, Bureau of Reclamation, Upper Missouri Region
CE, Corps of Engineers
DEPD, Wyoming Department of Economic Planning and Development
MRB, Missouri River basin project
USE, Utah State Engineer
USGS, Geological Survey--Federal Program
WSE, Wyoming State Engineer

Table 1. Streamflow and reservoir stations

STATION NUMBER	STATION NAME	PURPOSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	EQUIPMENT	RECORD TYPE	FIELD OFFICE	COORDINATOR	REMARKS
					SE	TSP	RNGE			
YELLOWSTONE RIVER BASIN										
06186000	YELLOWSTONE LAKE AT BRIDGE HAY, YNP	P	1006	1921-	-	-	-	O	-	
06186500	YELLOWSTONE R AT YELLOWSTONE LAKE OUTLET, YNP	P	1006	1922-25,	-	-	-	GW	-	
				1926-						
*06207507	BIG SAND COULEE AB STATE DITCH, NR BADGER BASIN	CR	98.3	1973-	14	57N	101W	GW	S	BLM
*06207510	BIG SAND COULEE AT WYOMING-MONTANA STATE LINE	CR	134	1973-	32	9S	22E	GW	S	BLM
*06218500	WIND RIVER NEAR DUBOIS	C	232	1945-	25	42N	108W	DW	Y	R+S
*06220500	EAST FORK WIND RIVER NEAR DUBOIS	C	427	1950-57,	34	6N	6W	GW	Y	MRB
				1975-						
06221400	DIWOODY CREEK ABOVE LAKES, NEAR BURRIS	H	88.2	1957-	1	4N	6W	DW	Y	R+S
*06222700	CROW CREEK NEAR TIPPERARY	H	30.2	1962-	20	7N	4W	GW	Y	MRB
*06224000	BULL LAKE CREEK ABOVE BULL LAKE	H	187	1941-53,	2	2N	4W	DW	Y	MRB
				1966-						
06224500	BULL LAKE NEAR LENORE	C	210	1938-	30	3N	2W	DM	Y	MRB+
06225000	BULL LAKE CREEK NEAR LENORE	C	213	1918-	17	3N	2W	DGM	Y	BRUM
06225500	WIND RIVER NEAR CRDHEART	CP	1891	1945-	16	3N	2W	DGM	Y	BRUM
06226000	WYOMING CANAL NEAR LENORE	CR	-	1941-45,	17	3N	1W	DW	Y	BRUM
				1949-						
06227600	WIND RIVER NEAR KINNEAR	CR	2194	1974-	13	2N	1W	GW	S	BRUM
*06228000	WIND RIVER AT RIVERTON	CR	2309	1906-08,	2	1S	4E	DGM	Y	C E
				1911-						
*06228350	SF LITTLE WIND R AB WASHAKIE RE NR FT WASHAKIE	H	125	1976-	18	1S	2W	GW	Y	MRB
06233000	LITTLE POPO AGIE RIVER NEAR LANDER	C	1904	1946-	27	32N	99W	GW	S	R+S
*06235500	LITTLE WIND RIVER NEAR RIVERTON	CR	418	1941-	11	1S	4E	DW	Y	C E
*06253000	FIVEMILE CREEK NEAR SHOSHONI	C	418	1941-42,	19	3N	6E	GW	Y	BRUM
				1948-						
*06256800	DRY CREEK NEAR BONNEVILLE	CH	52.6	1965-	8	38N	92W	GW	Y	BLM
06258000	MUDDY CREEK NEAR SHOSHONI	C	332	1949-68,	34	4N	5E	GW	Y	BRUM
				1972-						
06258900	BOYSEN RESERVOIR	C	7700	1951-	16	5N	6E	-	-	MRB
*06259000	WIND RIVER BELOW BOYSEN RESERVOIR	CR	7701	1951-	9	5N	6E	DM	Y	BRUM
*06260000	SOUTH FORK OWL CREEK NEAR ANCHOR	CH	85.5	1932,	28	43N	100W	GW	Y	MRB
				1939-43,						
				1959-						
06260300	ANCHOR RESERVOIR	C	131	1960-	26	43N	100W	-	-	MRB
*06260400	SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR	C	131	1959-	25	43N	100W	GW	Y	MRB
06265800	GOOSEBERRY CREEK AT DICKIE	H	95.0	1957-	32	47N	99W	GW	Y	R+S
06267400	EAST FORK NOWATER CREEK NEAR COLTER	H	149	1971-	31	46N	92W	GW	Y	WSE
*06270000	NOMWOOD RIVER NEAR TEN SLEEP	P	803	1938-43,	27	47N	88W	DGM	Y	WSE
				1950-55,						
				1972-						
06274810	WOOD RIVER AT KIRWIN	CH	11.4	1975-	-	-	-	GW	Y	DEPD
06275000	WOOD RIVER AT SUNSHINE	CH	194	1945-	15	47N	101W	GW	Y	WSE
06276500	GREYBULL RIVER AT MEETEETSE	CP	681	1897,	4	48N	100W	DGM	S	WSE
				1903,						
				1920-						
06278300	SHELL CREEK ABOVE SHELL RESERVOIR	BCH	23.1	1956-	1	52N	88W	DW	Y	WSE
06278500	SHELL CREEK NEAR SHELL	CH	145	1940-	17	53N	90W	GW	S	R+S
*06279500	HIGHWAY RIVER AT KANE	CR	15765	1928-	9	55N	94W	GW	Y	MRB
06280300	SOUTH FORK SHOSHONE RIVER NEAR VALLEY	BM	297	1956-	24	49N	106W	DW	Y	USGS
06281000	SOUTH FORK SHOSHONE RIVER ABOVE BUFFALO BILL RES	P	585	1903,	33	52N	103W	GW	Y	WSE
				1905-08,						
				1921-26,						
				1973-						

* Also chemical quality station
Also sediment station

Table 1. Streamflow and reservoir stations (continued)

STATION NUMBER	STATION NAME	PURPOSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	EQUIPMENT	RECORD TYPE	FIELD OFFICE	COOPERATOR	REMARKS
					SE TSP RNCE	GAGE				
YELLOWSTONE RIVER BASIN (Continued)										
06281500	BUFFALO BILL RESERVOIR	C	1498	1909-	12 52N	-	-	-	MRB	FURNISHED BY USBR
06282000	SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR	CR	1538	1921-	3 52N	102W	DM	-	BRUM	
06284200	SHOSHONE RIVER AT WILLWOOD	CR	1980	1974-	34 55N	99W	GM	Y	BRUM	
06284400	SHOSHONE RIVER NEAR GARLAND	CR	2036	1958-53,	13 55N	98W	GM	Y	MRB	
06284500	BITTER CREEK NEAR GARLAND	C	80.5	1950-53,	7 55N	97W	DM	Y	MRB	
				1957-60,						
06284800	WHISTLE CREEK NEAR GARLAND	C	101	1958-60,	30 55N	97W	GM	Y	MRB	
06285100	SHOSHONE RIVER NEAR LOVELL	CR	2350	1968-					MRB	
06285400	SAGE CREEK AT SIOON CANAL, NEAR DEWEER	C	341	1958-60,	34 57N	97W	GM	Y	MRB	
06286258	BIG COULEE NEAR LOVELL	CH	28.8	1969-	34 58N	95W	GM	Y	MRB	
06286400	HIGHORN LAKE NEAR ST. XAVIER, MT	C	19626	1965-	18 65	31E	-	-	MRB	FURNISHED BY USBR
06297480	TONGUE R AT TONGUE CANYON CAMPGROUND, NR DAYTON	C	202	1974-	10 56N	87W	GM	Y	USGS	
06297500	HIGHLINE DITCH NEAR DAYTON	C	-	1919-23,	11 56N	87W	GM	S	WSE	
06298000	TONGUE RIVER NEAR DAYTON	BCH	204	1940-	11 56N	87W	DM	Y	WSE	
06299500	WOLF CREEK AT WOLF	CH	37.8	1940-					WSE	
06300500	EAST FORK BIG GOOSE CREEK NEAR BIG HORN	CH	20.1	1945-	4 55N	86W	GM	S	WSE	
06301500	WEST FORK BIG GOOSE CREEK NEAR BIG HORN	C	24.4	1953-	28 53N	86W	GM	S	WSE	
06302000	BIG GOOSE CREEK NEAR SHERIDAN	C	120	1929-	30 54N	86W	GM	S	WSE	
06303500	LITTLE GOOSE CREEK IN CANYON, NEAR BIG HORN	CH	51.6	1941-	35 55N	86W	GM	S	WSE	
06305500	GOOSE CREEK BELOW SHERIDAN	C	392	1941-	15 53N	85W	GM	S	WSE	
06306250	PRAIRIE DOG CREEK NEAR ACME	C	358	1970-	23 58N	83W	GM	Y	WSE	
06309200	MIDDLE FORK POWDER RIVER NEAR BARNUM	CH	45.2	1961-	26 42N	86W	GM	Y	WSE	
06309270	NORTH FORK BUFFALO CREEK NEAR ARMINTO	C	8.60	1974-	20 40N	86W	GM	Y	USGS	
06309280	BUFFALO CREEK BL N F BUFFALO CREEK, NEAR ARMINTO	C	8.10	1974-	17 40N	86W	GM	Y	USGS	
06309450	BEAVER CREEK BL N F BUFFALO CREEK, NEAR ARMINTO	C	18.6	1974-	21 40N	86W	GM	Y	USGS	
06309460	BEAVER CREEK BELOW BAYER CREEK, NEAR BARNUM	C	10.9	1974-	28 43N	85W	GM	Y	USGS	
06311000	NORTH FORK POWDER RIVER NEAR HAZELTON	BCH	24.2	1974-	16 43N	84W	GM	Y	USGS	
06311060	N FORK POWDER RIVER BL HAZELTON	C	24.5	1946-	21 47N	85W	GM	Y	WSE	
06311400	N FORK POWDER RIVER BL HAZELTON	C	32.3	1974-	25 47N	85W	GM	Y	USGS	
06311400	N FORK POWDER RIVER BL PASS CREEK, NR MAYOWORTH	CH	100	1974-	36 46N	84W	GM	Y	USGS	
06313180	OGOUT CREEK TRIBUTARY NEAR MIDWEST	CH	8	1974-	14 40N	80W	GM	Y	USGS	
06313400	SALT CREEK NEAR SUSSEX	C	769	1975-	8 42N	79W	GM	Y	USGS	
06313700	DEAD HORSE CREEK NEAR BUFFALO	CH	151	1971-	15 49N	77W	GM	Y	WSE	
06313950	N F CRAZY WOMAN CREEK BL POLE CREEK, NR BUFFALO	CH	43.4	1973-	28 49N	83W	GM	Y	DEPD	
06314000	NORTH FORK CRAZY WOMAN CREEK NEAR BUFFALO	CH	44.9	1942-49,	27 49N	83W	GM	Y	DEPD	AUXILIARY WELL GAGE
06317000	POWDER RIVER AT ARVADA	CP	6050	1973-	21 54N	77W	GM	Y	WSE	
06318500	CLEAR CREEK NEAR BUFFALO	C	120	1919-	6 50N	82W	GM	Y	DEPD	
				1896-99,						
				1917-27,						
06320000	ROCK CREEK NEAR BUFFALO	CR	60.0	1938-	29 52N	83W	GM	S	WSE	
06320200	CLEAR CREEK BELOW ROCK CREEK, NEAR BUFFALO	C	322	1941-	30 51N	81W	GM	Y	BLM	
06320400	CLEAR CREEK AT UCROSS	C	409	1975-	19 53N	80W	GM	Y	HLM	
06320500	SOUTH PINY CREEK AT WILLOW PARK	CR	33.6	1945-57,	24 52N	85W	GM	S	WSE	
06321000	SOUTH PINY CREEK NEAR STORY	C	69.4	1959-	23 53N	84W	GM	Y	WSE	
06321020	HEAD-COFFEEN DITCH ABOVE FISH HATCHERY, NR STORY	C	-	1951-	13 53N	84W	DM	Y	USGS	
06321040	HEAD-COFFEEN DITCH BELOW FISH HATCHERY, NR STORY	C	-	1974-	13 53N	84W	DM	Y	USGS	

* Also chemical quality station
Also sediment station

Table 1. Streamflow and reservoir stations (continued)

STATION NUMBER	STATION NAME	PUR-POSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	EQUIPMENT	CURRENT TYPE	FIELD OFFICE	COOPERATOR	REMARKS
					SE TSP RNC					
YELLOWSTONE RIVER BASIN (Continued)										
06321100	S. PINEY CREEK BL MEAD-COFFEEN DITCH, NEAR STORY	C	69.5	1974-	13 53N	GM	Y	M	USGS	
06321500	NORTH PINEY CREEK NEAR STORY	CH	36.8	1951-	15 53N	DM	Y	M	DEPD	
06321800	SPRING CREEK NEAR STORY	C	-	1974-	13 53N	DM	Y	M	USGS	
06323000	PINEY CREEK AT NEARBY	CR	118	1902-06, 1910-17, 1919-23, 1940-	26 53N	GM	Y	S	WSE	
*06323500	PINEY CREEK AT UCROSS	CR	267	1917-23, 1950-	18 53N	GM	Y	C	DEPD	
*06324000	CLEAR CREEK NEAR ARVAUA	C	1110	1915-19, 1928-29, 1939-	36 57N	DM	Y	C	DEPD	
*06324970	LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON	P	1230	1972-	13 57N	GM	Y	C	WSE	
CHEYENNE RIVER BASIN										
*06365300	DRY FORK CHEYENNE RIVER NEAR BILL	C	128	1976-	31 38N	GM	Y	C	BLM	
*06365900	CHEYENNE RIVER NEAR DULL CENTER	C	1527	1975-	20 40N	GM	Y	C	USGS	
06376300	BLACK THUNDER CREEK NEAR HAMPSHIRE	H	535	1972-	31 42N	GM	Y	C	WSE	
*06386600	LANCE CREEK NEAR SPENCER	P	2070	1948-54, 1956-	14 39N	GM	Y	C	BLM	
06392900	BEAVER CREEK AT MALLD CAMP, NEAR FOUR CORNERS	C	10.3	1974-	4 47N	GM	Y	SD	USGS	
06392950	STOCKADE BEAVER CREEK NEAR NEWCASTLE	BP	107	1974-	19 45N	GM	Y	SD	USGS	
*06394000	BEAVER CREEK NEAR NEWCASTLE	C	1320	1943-	18 41N	GM	Y	C	USGS	
*06425720	BELLE FOURCHE RIVER BEL RATLESNAKE CR, NR PINEY	C	495	1975-	9 46N	GM	Y	C	BLM	
*06425780	BELLE FOURCHE RIVER ABOVE DRY CREEK, NEAR PINEY	C	594	1975-	25 47N	GM	Y	C	BLM	
*06426500	BELLE FOURCHE RIVER BELOW MOORCROFT	C	1670	1943-70, 1975-	24 50N	GM	Y	C	BLM	
06427000	KEYHOLE RESERVOIR NEAR MOORCROFT	C	2000	1952-	27 51N	GM	-	-	MKB	FURNISHED BY USBR
06427500	HELLE FOURCHE RIVER BELOW KEYHOLE RESERVOIR	CR	2000	1951-	21 51N	GM	Y	C	PRUM	
06429500	COLD SPRINGS CREEK NEAR BUCKHORN	C	19.0	1974-	9 48N	GM	Y	SD	USGS	
06429900	SAND CREEK AT RANCH A, NEAR BEULAH	C	260	1974-	18 52N	GM	Y	SD	USGS	
06430000	MURRAY DITCH AT WYOMING-SOUTH DAKOTA STATE LINE	C	471	1924-	7 7N	GM	Y	SD	WSE	
*06430500	MEDWATER CR AT WYOMING-SOUTH DAKOTA STATE LINE	CH	471	1929-31, 1936-37, 1954-	18 7N	GM	Y	SD	WSE	
06454000	NIUBARA RIVER AT WYOMING-NEBRASKA STATE LINE	BCH	450	1955-	15 31N	DM	Y	N	-	
PLATEAU RIVER BASIN										
06622700	NORTH BRUSH CREEK NEAR SARATOGA	H	37.4	1960-	8 16N	GM	Y	CF	WSE	AUX TRANSDUCER GAGE
06622900	SOUTH BRUSH CREEK NEAR SARATOGA	C	22.8	1960-	20 16N	GM	S	S	WSE	
*06623800	ENCAMPMENT R AB HOG PARK CREEK, NEAR ENCAMPMENT	BH	72.7	1964-	10 12N	GM	Y	CF	USGS	HYDRO BENCHMARK STA
*06625000	ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT	CH	265	1940-	3 15N	GM	Y	CF	WSE	
*06628800	SAGE CREEK NEAR SARATOGA	C	263	1973-	32 19N	GM	S	CF	BLM	
06628900	PASS CREEK NEAR ELK MOUNTAIN	CH	91.5	1957-	27 19N	GM	Y	CF	WSE	
*06630000	N PLATEAU RIVER AB SEMINOLE RESERVOIR, NR SINCLAIR	CP	8134	1939-	13 22N	GM	Y	CF	WSE	
*06630300	RIG DITCH NEAR COYOTE SPRINGS	C	110	1975-	30 23N	GM	Y	CF	BLM	
*06630330	NORTH DITCH NEAR COYOTE SPRINGS	C	110	1975-	19 23N	GM	Y	CF	BLM	
06632400	MOCK CREEK ABOVE KING CANYON CANAL, NR ARLINGTON	BCH	22.6	1976-	25 19N	GM	Y	CF	WSE	
*06634600	LITTLE MEDICINE BOW RIVER NEAR MEDICINE BOW	P	963	1965-	22 23N	GM	Y	CF	WSE	
*06634990	HANNA DRAW NEAR HANNA	C	21.6	1975-	34 24N	GM	Y	CF	BLM	
*06635000	MEDICINE BOW R AB SEMINOLE RESERVOIR, NEAR HANNA	CP	238	1939-	34 24N	GM	Y	CF	WSE	
*06635500	SEMINOLE RESERVOIR NEAR LEO	C	7230	1939-	81 25N	GM	-	-	MKB	FURNISHED BY USBR
* Also chemical quality station										
# Also sediment station										

Table 1. Streamflow and reservoir stations (continued)

STATION NUMBER	STATION NAME	PUR- POSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RANGE	EQUIPMENT	CURRENT RECORD TYPE	FIELD OFFICE	COOPERATOR	REMARKS
PLATTE RIVER BASIN (Continued)										
06637750	ROCK CREEK ABOVE ROCK CREEK RESERVOIR	CH	9.2	1962-	27 30N	100W	OW	Y	WSE	
06638090	SWEETWATER RIVER NEAR SWEETWATER STATION	P	849	1973-	12 29N	95W	OW	Y	WSE	
*06639000	SWEETWATER RIVER NEAR ALCOVA	CP	2327	1913-24	25 29N	87W	OW	S	WSE	
06640500	PATFINDER RESERVOIR NEAR ALCOVA	C	10711	1938-	24 29N	84W	-	-	MRB	FURNISHED BY USBR
*06641500	ALCOVA RESERVOIR AT ALCOVA	C	10766	1909-	24 30N	83W	-	-	MRB	FURNISHED BY USBR
*06642000	NORTH PLATTE RIVER AT ALCOVA	CR	10812	1904-05	17 30N	82W	OW	Y	C	WSE
06645150	SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER	C	9.91	1974-	15 31N	78W	OT	Y	C	USGS
06645160	SMITH CREEK AT OTTER CREEK, NEAR CASPER	C	10.9	1974-	14 31N	78W	OT	Y	C	USGS
*06646600	DEER CREEK BELOW MILLAR WASTEWAY, AT GLENROCK	CH	213	1961-	4 33N	75W	OW	Y	C+S	WSE
*06646800	NORTH PLATTE RIVER NEAR GLENROCK	CH	13538	1959-	17 33N	74W	OW	Y	C+S	WSE
06647500	BOX ELDER CREEK AT BOXELDER	H	63.0	1946-51	32 31N	75W	OW	Y	C	WSE
06647890	LITTLE BOX ELDER CREEK NEAR CAREYHURST	C	7.18	1961-67	1971-					
06647900	L BOX ELDER C AT L BOX ELDER CAVE, NR CAREYHURST	C	8.47	1974-	8 32N	74W	OW	Y	C	USGS
06649000	LAPRELE CREEK NEAR DOUGLAS	C	135	1919-	5 31N	73W	OW	S	WSE	
*06652000	NORTH PLATTE RIVER AT URIN	CR	14888	1895-99	17 31N	69W	OW	Y	C	WSE
06652700	GLENDU RESERVOIR NEAR GLENDU	C	15545	1958-	24 29N	68W	-	-	MRB	FURNISHED BY USBR
*06652800	NORTH PLATTE RIVER BELOW GLENDU RESERVOIR	CR	15548	1957-	30 29N	67W	OW	Y	C+S	WSE
06655500	GURNSEY RESERVOIR NEAR GUERNSEY	C	16224	1928-	27 27N	66W	-	-	MRB	FURNISHED BY USBR
*06656000	NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR	CR	16237	1900-	27 27N	66W	OW	Y	CF+S	WSE
06657000	NORTH PLATTE R BELOW WHALEN DIVERSION DAM	CR	16425	1909-	12 26N	65W	OW	Y	CF+S	WSE
06659500	LARAMIE RIVER AND PIONEER CANAL NEAR WOODS	CR	434	1912-24	36 14N	77W	OW	S	WSE	
06659580	SAND CREEK AT COLORADO-WYOMING STATE LINE	C	29.2	1926-27						
06661000	LITTLE LARAMIE RIVER NEAR FILMORE	CH	157	1931-	1 12N	75W	OW	S	WSE	
06661585	LARAMIE RIVER NEAR BOSLER	CH	1790	1902-03	4 15N	77W	OW	S	WSE	
*06662000	LARAMIE RIVER NEAR LOOKOUT	CR	2174	1911-26						
06664400	SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND	CH	194	1932-	10 18N	74W	OW	Y	S	WSE
06664900	BLUEGRASS CREEK NEAR WHEATLAND	CR	139	1912-17	27 21N	74W	OW	S	WSE	
06667060	LARAMIE RIVER ABOVE NORTH LARAMIE RIVER, NR UVA	CP	3131	1921-27	27 22N	70W	OW	S	S	WSE
*06670500	LARAMIE RIVER NEAR FORT LARAMIE	CR	4495	1958-63	22 22N	70W	OW	S	S	WSE
06671000	MAMMIE CREEK NEAR LINGLE	C	522	1973-	19 25N	67W	OW	Y	CF	DEPU
06672500	CHERRY CREEK DRAIN NEAR TORRINGTON	C	356	1915-	25 26N	65W	OW	Y	CF	WSE
06673500	KATZER DRAIN NEAR HENRY, NB	C	45.9	1928-	20 25N	62W	OW	S	S	WSE
*06674500	NORTH PLATTE R AT WYOMING-NEBRASKA STATE LINE	CR	22219	1935-	23 24N	61W	OW	S	S	WSE
				1929-	10 23N	60W	OW	S	S	WSE

* Also chemical quality station

Also sediment station

Table 1. Streamflow and reservoir stations (continued)

STATION NUMBER	STATION NAME	PURPOSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	EQUIPMENT	RECORD TYPE	FIELD OFFICE	COOPERATOR	REMARKS
					SE TSP RANGE					
GREEN RIVER BASIN										
**09188500	GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL	C	468	1931-	8 35N 111W	DW	Y	GR	WSE	FURNISHED BY USBR
**09196500	PINE CREEK ABOVE FREMONT LAKE	BCH	75.8	1954-	5 35N 108W	DW	Y	GR	USGS	
**09203000	EAST FORK RIVER NEAR BIG SANDY	C	79.2	1938-	7 31N 105W	DW	Y	GR	WSE	
**09205000	NEW FORK RIVER NEAR BIG PINEY	P	1230	1954-	22 30N 110W	DW	Y	GR	WSE	
**09208000	LABARGE CREEK NR LABARGE MEADOWS RANGER STATION	BCH	6.3	1940-42, 1950-	8 29N 116W	GM	Y	GR	USGS	
**09209400	GREEN RIVER NEAR LABARGE	CP	3910	1963-	33 26N 112W	DW	Y	GR	WSE	
**09210500	FONTENELLE CR NR HERSCHLER RANCH, NR FONTENELLE	CH	152	1951-	21 24N 115W	GM	Y	GR	USGS	
09211150	FONTENELLE RESERVOIR NEAR FONTENELLE	C	4280	1964-	25 24N 112W	-	-	-	-	
**09211200	GREEN RIVER BELOW FONTENELLE RESERVOIR	CR	4280	1963-	31 24N 111W	GM	Y	GR	BRUC	
**09212500	BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY	C	94.0	1910-11, 1939-	18 30N 104W	DW	S	GR	WSE	
**09213500	BIG SANDY RIVER NEAR PARSON	CR	322	1914-17, 1920-24, 1926-34, 1935-	17 27N 106W	GM	S	GR	WSE	
**09214500	LITTLE SANDY CREEK ABOVE EDEN	C	134	1954-	11 26N 105W	GM	Y	GR	BLM	
**09216000	BIG SANDY RIVER BELOW EDEN	CR	1610	1954-	31 24N 107W	DW	Y	GR	BRUC	
**09216050	BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN	CR	1720	1972-	29 23N 108W	GM	Y	GR	BLM	
**09216527	SEPARATION CREEK NEAR RIVER	C	55.3	1975-	32 20N 90W	GM	Y	CF	BLM	
**09216545	BITTER CREEK NEAR BITTER CREEK	C	308	1975-	36 18N 99W	GM	Y	GR	BLM	
**09216562	BITTER CREEK AB SALT WELLS CREEK, NR SALT WELLS	C	836	1975-	21 19N 103W	GM	Y	GR	BLM	
**09216585	SALT WELLS CREEK NEAR SOUTH BAXTER	C	34.7	1976-	15 14N 103W	GM	Y	GR	BLM	
**09216750	SALT WELLS CREEK NEAR SALT WELLS	C	526	1975-	14 19N 103W	GM	Y	GR	BLM	
**09217000	GREEN RIVER NEAR GREEN RIVER	CK	14000	1951-	26 18N 107W	GM	Y	GR	USGS	
09217900	BLACKS FORK NEAR ROBERTSON	H	130	1937-39, 1966-	27 3N 12E	DW	Y	GR	USE	
**09218500	BLACKS FORK NEAR MILLBURNE	C	152	1939-	11 12N 117W	GM	Y	GR	WSE	
**09220000	EAST FORK OF SMITH FORK NEAR ROBERTSON	CH	53.0	1939-	5 12N 115W	GM	S	S	WSE	
**09220500	WEST FORK OF SMITH FORK NEAR ROBERTSON	CH	37.2	1939-	15 12N 116W	GM	S	S	WSE	
**09222000	BLACKS FORK NEAR LYMAN	CR	821	1937-57, 1962-	15 17N 113W	DW	Y	GR	BRUC	
**09222300	LITTLE MUDDY CREEK NEAR GLENCOE	C	416	1975-	31 19N 116W	GM	Y	GR	BLM	
**09222400	MUDDY CREEK NEAR HAMPTON	C	963	1975-	18 18N 113W	GM	Y	GR	BLM	
**09223000	HAMS FORK BELOW POLE CREEK, NEAR FRONTIER	CH	128	1952-	35 25N 117W	GM	Y	GR	USGS	
**09224700	BLACKS FORK NEAR LITTLE AMERICA	CR	3100	1962-	15 18N 109W	DW	Y	GR	USGS	
**09228500	BURNED FORK NEAR BURNED FORK	CH	52.8	1943-	36 3N 16E	GM	S	S	WSE	
**09229500	HENRY'S FORK NEAR MANILA, UT	CP	520	1928-	23 12N 109W	GM	Y	GR	USGS	
**09233500	VERMILLION CREEK NEAR HIAMATHA, CO	C	196	1975-	15 12N 100W	GM	Y	GR	BLM	
**09257000	LITTLE SNAKE RIVER NEAR DIXON	CP	988	1910-23, 1938-	8 12N 90W	GM	S	CF, S	WSE	
BEAR RIVER BASIN										
10015700	SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON	CH	64.2	1957-	35 14N 119W	GM	Y	U	-	FURNISHED BY USBR
10015900	SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON	C	69.2	1958-	28 14N 119W	DW	Y	U	-	
10019500	CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON	C	-	1942-	36 17N 121W	GM	Y	U	-	
*10020100	BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT	CR	752	1961-	29 17N 120W	GM	-	U	-	
10020200	WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT	C	784	1965-	32 18N 120W	-	-	U	-	
10020300	BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT	CR	784	1961-	25 23N 120W	GM	Y	U	-	
*10020700	TWIN CREEK AT SAGE	C	246	1943-62, 1976-	7 21N 119W	DW	Y	GR	BLM	
10028500	BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE	CR	2032	1941-43, 1952-56, 1958-	-	GM	S	U	-	
10032000	SMITHS FORK NEAR BORDER	BCH	165	1942-	33 27N 118W	GM	Y	U	-	
10038000	BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE	C	2447	1954-	28 25N 119W	GM	Y	U	-	
10041000	THOMAS FORK NEAR WYOMING-IDAHO STATE LINE	CH	113	1949-	19 28N 119W	DW	Y	U	-	

* Also chemical quality station
Also sediment station

Table 1. Streamflow and reservoir stations (continued)

STATION NUMBER	STATION NAME	PUR- POSE	DRAINAGE AREA	PERIOD OF RECORD	LOCATION		EQUIPMENT	RECORD TYPE	FIELD OFFICE	COOPERATOR	REMARKS
					SE	TSP R NGE	GAGE				
SNAKE RIVER BASIN											
13010500	JACKSON LAKE NEAR MORAN	C	807	1908-	18 45N	114W	-	-	I	-	FURNISHED BY USBR
13011000	SNAKE RIVER NEAR MORAN	BCR	807	1903-	18 45N	114W	DW	Y	I	-	
13011900	BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN	H	323	1965-	29 45N	113W	GW	Y	I	-	
*13018300	CACHE CREEK NEAR JACKSON	BH	10.6	1962-	1 40N	116W	GW	Y	GR	USGS	HYDRO BENCHMARK STA
13018750	SNAKE RIVER BELOW FLAT CREEK NEAR JACKSON	CR	2342	1975-	3 39N	116W	DGM	Y	I	-	
*13022500	SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE	CR	3465	1917-18, 1937-39,	-	-	GW	Y	I	-	
13023000	GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE	CP	448	1953- 1917-18, 1937-39,	34 37N	112W	GW	Y	I	-	
13025000	SWIFT CREEK NEAR AFTON	CH	27.4	1953-	29 32N	118W	GW	S	S	WSE	
*13027500	SALT RIVER ABOVE RESERVOIR, NEAR ETNA	CR	829	1942- 1953-	28 36N	119W	DW	Y	I	-	
13046500	GRASSY LAKE NEAR MORAN	C	10.4	1939-	18 48N	116W	-	-	-	-	FURNISHED BY USBR

* Also chemical quality station

Also sediment station

Explanation of abbreviations and codes used in table 2.

Period of Record: The dates given are the calendar years in which records began or ended. Breaks of less than a year are not shown.

Gage Equipment: CSI, crest-stage indicator
S-R, stage-rainfall recorder

Field Office: C, Casper
CF, Cheyenne Field Unit
GR, Green River
R, Riverton
W, Worland

Cooperator: BLM, Bureau of Land Management
WHD, Wyoming Highway Department

Table 2. Peak-flow partial-record stations

STATION NUMBER	STATION NAME	DRAINAGE AREA	LOCATION		PERIOD OF RECORD	FIELD OFFICE EQUIPMENT	COOPERATOR	REMARKS
YELLOWSTONE RIVER BASIN								
06218700	WAGON GULCH NEAR DUBOIS	4.89	30	42N	10/W	1961-	WHD	
06223700	SAND DRAW NEAR CROWHEART	12.8	2	3N	3W	1961-	WHD	
06223800	WIND RIVER TRIBUTARY NO 2 NEAR CROWHEART	3.16	18	3N	2W	1961-	WHD	
06226200	LITTLE DRY CREEK NEAR CROWHEART	10.5	35	7N	3W	1961-	WHD	
06226300	URY CREEK NEAR CROWHEART	97.9	19	5N	2W	1959.	WHD	
06229700	NURKOK MEADOWS CREEK NEAR FORT WASHAKIE	15.4	8	1N	1W	1961-	WHD	
06229800	SAND DRAW NEAR FORT WASHAKIE	.99	18	1N	1W	1961-	WHD	
06229900	TROUT CREEK NEAR FORT WASHAKIE	16.1	15	56N	94W	1961-68.	WHD	
06233360	MONUMENT DRAW AT LOWER STATION, NEAR HUDSON	8.38	21	33N	98W	1970-	WHD	
06234800	BOBCAT DRAW NEAR SAND DRAW	2.89	21	33N	95W	1965-73.	WHD	
06236000	KIRBY DRAW NEAR RIVERTON	129	3	1W	5E	1971- 1951-53.	WHD	
06238760	W F DRY CHEYENNE C AT UPPER STATION, NR RIVERTON	.69	4	34N	94W	1961- 1965-73.	WHD	
06255300	POISON CREEK TRIBUTARY NEAR SHOSHONI	.39	33	38N	93W	1973- 1959-	WHD	
06256600	HED CREEK NEAR ARMINTO	7.15	19	38N	87W	1963-	WHD	
06256700	SOUTH BRIDGER CREEK NEAR LYSITE	10.0	9	40N	91W	1960-	WHD	
06257300	SHOTGUN CREEK TRIBUTARY NEAR PAVILLION	2.57	27	6N	1E	1961-	WHD	
06265200	SAND DRAW NEAR THERMOPOLIS	6.33	2	44N	97W	1960-	WHD	
06265600	TIE DOWN GULCH NEAR WORLAND	1.78	10	45N	94W	1961-	WHD	
06266460	MURPHY DRAW NEAR GRASS CREEK	2.32	28	47N	97W	1965-73.	WHD	
06267260	NORTH PRONG EAST FORK NOWATER CREEK NEAR WORLAND	3.8	18	46N	91W	1973- 1964-73.	WHD	
06268500	FIFTEEN MILE CREEK NEAR WORLAND	518	27	47N	93W	1973- 1951-72.	WHD	
06269750	NOWOOD RIVER TRIBUTARY NEAR TEN SLEEP	.42	11	46N	88W	1960-	WHD	
06274190	NOWOOD RIVER TRIBUTARY NO 2 NEAR BASIN	1.51	28	50N	92W	1965-73.	WHD	
06274250	ELK CREEK NEAR BASIN	96.9	16	50N	93W	1973- 1959-	WHD	
06277700	TWENTYFOUR MILE CREEK NEAR EMBLEM	12.8	23	52N	98W	1960-	WHD	
06277750	URY CREEK TRIBUTARY NEAR EMBLEM	.65	19	52N	97W	1960-68.	WHD	
06279020	HED GULCH NEAR SHELL	47.8	32	53N	91W	1970- 1967.	WHD	
06299900	SLATER CREEK NEAR MONARCH	18.0	18	57N	84W	1970- 1967-	WHD	
06312700	SOUTH FORK POWDER RIVER NEAR POWDER RIVER	262	3	35N	85W	1961-	WHD	
06312795	SANCHEZ CREEK ABOVE RESERVOIR, NEAR ARMINTO	5.53	20	39N	86W	1970-	WHD	
06313020	BOBCAT CREEK NEAR EGGERTON	8.29	10	37N	77W	1965-73.	WHD	
06313050	EAST TEAPOT CREEK NEAR EGGERTON	5.44	16	37N	78W	1973- 1965-72.	WHD	
06313100	COAL DRAW NEAR MIDWEST	11.4	8	40N	78W	1973- 1961-	WHD	
06313630	VAN HOUTEN DRAW NEAR BUFFALO	10.8	33	49N	77W	1971-	WHD	
06316700	POWDER RIVER TRIBUTARY NEAR BUFFALO	1.5	9	52N	77W	1965-73.	WHD	
06317050	HUCKER DRAW NEAR SPOTTED HORSE	3.98	28	55N	75W	1973- 1961-	WHD	
06319100	SAND CREEK NEAR BUFFALO	10.8	29	50N	82W	1969-	WHD	
06324800	LITTLE POWDER RIVER TRIBUTARY NEAR GILLETTE	.81	36	52N	72W	1960-	WHD	
06324900	CEDAR DRAW NEAR GILLETTE	3.45	6	52N	71W	1959-	WHD	
06324910	COW CREEK TRIBUTARY NEAR WESTON	.72	26	53N	71W	1971-	WHD	

Also sediment station

* Also chemical quality station

Table 2. Peak-flow partial record stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	LOCATION		PERIOD OF RECORD	GAGE EQUIPMENT	FIELD OFFICE	COOPERATOR	REMARKS
			SE	TSP RNCE					
GREEN RIVER BASIN									
**09204700	SAND SPRINGS DRAW TRIBUTARY NEAR BOULDER	2.77	8	30N 107W	1961-	CSI	GR	WHO	
**09207650	DRY BASIN CREEK NEAR BIG PINEY	47.2	12	28N 112W	1971-	CSI	GR	WHO	
**09211300	FOURMILE GULCH TRIBUTARY NEAR FONTENELLE	14.2	15	24N 111W	1971-	CSI	GR	WHO	
**09216290	EAST OTTERSON WASH NEAR GREEN RIVER	16.6	23	21N 109W	1970-	CSI	GR	WHO	
**09216350	SKUNK CANYON CREEK NEAR GREEN RIVER	15.7	8	20N 107W	1965,	CSI	GR	WHO	
					1971-				
**09216537	DELANEY DRAW NEAR RED DESERT	32.8	8	19N 95W	1961-	CSI	GR	WHO	
**09216550	UCADMAN WASH NEAR POINT OF ROCKS	152	23	20N 101W	1961-	CSI	GR	WHO	
**09216572	BEANS SPRING CREEK NEAR SOUTH BAXTER	4.92	23	14N 104W	1975-	CSI	CP	BLM	
**09216576	GAP CREEK BL BEANS SPRING CR. NEAR SOUTH BAXTER	35.9	7	14N 103W	1976-	CSI	GR	BLM	
**09216578	DRY CANYON NEAR SOUTH BAXTER	3.69	5	14N 102W	1976-	S-R	GR	BLM	
**09216580	BIG FLAT DRAW NEAR ROCK SPRINGS	19.5	4	15N 102W	1972-	CSI	GR	WHO	
**09216600	CUTTHROAT DRAW NEAR ROCK SPRINGS	7.88	17	17N 102W	1959-70,	CSI	GR	WHO	
					1970-72,	S-Y			
**09216695	NO NAME CREEK NEAR ROCK SPRINGS	18.2	1	17N 103W	1972-	CSI	GR	WHO	
**09216900	BITTER CREEK TRIBUTARY NEAR GREEN RIVER	1.65	16	18N 106W	1959-	CSI	GR	WHO	
**09221680	MUD SPRING HOLLOW NEAR CHURCH BUTTE, NEAR LYMAN	8.83	7	16N 113W	1965-73,	S-R			
					1973-	CSI	GR	WHO	
**09224600	BLACKS FORK TRIBUTARY NEAR GRANGER	5.03	15	18N 111W	1959-	CSI	GR	WHO	
**09224800	MEADOW SPRINGS WASH TRIBUTARY NEAR GREEN RIVER	5.22	18	18N 109W	1962-65,	CSI			
					1968-	CSI	GR	WHO	
**09224910	BLACKS FORK TRIBUTARY NO 2 NEAR GREEN RIVER	12.0	8	17N 108W	1965-	CSI	GR	WHO	
**09224920	BLACKS FORK TRIBUTARY NO 3 NEAR GREEN RIVER	3.59	28	17N 108W	1965-	CSI	GR	WHO	
**09224940	BLACKS FORK TRIBUTARY NO 4 NEAR GREEN RIVER	1.26	33	17N 108W	1965-	CSI	GR	WHO	
**09224980	SUMMERS DRY CREEK NEAR GREEN RIVER	423	13	16N 109W	1965-	CSI	GR	WHO	
**09225200	SQUAW HOLLOW NEAR BURNTFORK	6.57	29	14N 108W	1965-	CSI	GR	WHO	
**09225300	GREEN RIVER TRIBUTARY NO 2 NEAR BURNTFORK	13.0	31	13N 108W	1959,	CSI	GR	WHO	
					1961-	CSI	GR	WHO	
**09258200	LURY COW CREEK NEAR BAGGS	49.7	19	16N 91W	1970-	CSI	CF	WHO	
BEAR RIVER BASIN									
10019700	WHITNEY CANYON CREEK NEAR EVANSTON	8.93	27	17N 120W	1965-	CSI	GR	WHO	
SNAKE RIVER BASIN									
13019220	SOUR MOOSE CREEK NEAR BONDURANT	.70	26	37N 112W	1964-	CSI	GR	WHO	

Also sediment station

* Also chemical quality station

Explanation of abbreviations and codes used in table 3.

Period of Record: The dates given are the calendar years in which records began or ended. Breaks of less than a year are not shown.

Cooperator: BLM, Bureau of Land Management
 BRUC, Bureau of Reclamation, Upper Colorado Region
 BRUM, Bureau of Reclamation, Upper Missouri Region
 EPA, Environmental Protection Agency--Region 8
 MRB, Missouri River basin project
 USGS, Geological Survey--Federal Program
 WDA, Wyoming Department of Agriculture
 WDEQ, Wyoming Department of Environmental Quality

Sampling Frequency: C, continuous (recorder)
 D, daily
 BW, biweekly
 BWM, biweekly and (or) monthly
 M, monthly
 MW, monthly, except weekly during irrigation season
 MQ, monthly during summer, quarterly during winter
 Q, quarterly
 HL, high and low flow samples only
 I, infrequent or as requested

Analysis Schedule: 1, salinity (major constituents)
 2, specific conductance
 3, daily temperature (observed)
 4, bacteria or chemical oxygen demand
 5, field determinations of: pH, specific conductance,
 dissolved oxygen, temperature, and (or) turbidity
 6, total coliform, fecal coliform, and (or) fecal
 streptococcus
 7, nutrient
 8, trace metals
 9, pesticides
 10, radiochemical
 11, biological
 12, miscellaneous

Field Office: C, Casper
 CF, Cheyenne Field Unit
 CH, Cheyenne Hydrologic Surveillance Section
 CP, Cheyenne project personnel
 GR, Green River
 R, Riverton
 W, Worland

Table 3. Chemical-quality stations

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RANGE	COORDINATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
YELLOWSTONE RIVER BASIN									
#06205450	CLARKS FK YELLOWSTONE R AT M-W STATE L NR C C M	-	1975-	-	MRB	M	5+8	W	SUMMER ONLY
#06206600	CLARKS FK YELLOWSTONE R AB PAINT CR, NR CLARK	-	1975-	-	MRB	M	5+8	W	SUMMER ONLY
#06207500	CLARKS FK YELLOWSTONE RIVER NEAR BELFRY, MT	1154	1965-	31 9S	MRB	M	1	W	
#06207507	BIG SAND COULEE AB ST DITCH, NEAR BADGER BASIN	94.3	1976-	41 57M	BLM	Q	1+5,7	W	
#06207510	BIG SAND COULEE AT WYOMING-MONTANA STATE LINE	134	1976-	32 9S	BLM	Q	1+5,7	W	
#06218500	WIND RIVER NEAR DUBOIS	232	1947-50, 1965-	25 42N	WDEQ	M	5+6	W	
#06220500	EAST FORK WIND RIVER NEAR DUBOIS	427	1975-	34 6N	WDEQ	M	5+6	W	
#06222700	CROW CREEK NEAR TIPPERARY	30.2	1976-	20 7N	MRB	M	5	W	
#06224000	BULL LAKE CREEK ABOVE BULL LAKE	187	1976-	2 2N	MRB	M	5	W	
#06228000	WIND RIVER AT RIVERTON	2309	1947-50, 1953, 1965-	2 1S	WDEQ	M	5+6	W	
#06228350	SF LITTLE WIND R AB WASHAKIE RE NR FT WASHAKIE	660	1976-	18 1S	MRB	M	1+5	W	
06231000	LITTLE WIND RIVER ABOVE ARAPAHOE		1966-	22 1S	WDEQ	M	5+6	W	
06235000	BEAVER CREEK NEAR ARAPAHOE	354	1967-	29 1S	WDEQ	M	5+6	W	
06235500	LITTLE WIND RIVER NEAR RIVERTON	1904	1965-	11 15N	WDEQ	M	1	W	
06236100	WIND RIVER ABOVE BOYSEN RESERVOIR, NR SHOSHONI	4390	1974-	25 2N	WDEQ	M	1+5,6	W	
06253300	FIVEMILE CREEK NEAR SHOSHONI	418	1949-51, 1953, 1965-	19 3N	WDEQ	M	1	W	
#06256900	DRY CREEK NEAR BONNEVILLE	52.6	1976-	4 38N	ELM	M	1+5	W	
#06259000	WIND RIVER BELOW BOYSEN RESERVOIR	7701	1953-54, 1960-	9 5N	WDEQ	M	2+3	W	
#06260000	SOUTH FORK OWL CREEK NEAR ANCHOR	85.5	1974-	28 43N	WDEQ	M	5+6	W	
06260400	SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR	131	1974-	29 43N	MRB	M	5	W	
06264700	BIGHORN RIVER AT LUCERNE	-	1966-	34 44N	WDEQ	M	5	W	
06268600	BIGHORN RIVER AT MORLAND	10810	1966-	25 47N	WDEQ	M	1	W	
#06270000	NOWOOD RIVER NEAR TEN SLEEP	803	1967-	27 47N	WDEQ	M	1	W	
06273500	POINT ROCK CREEK NEAR MOUTH, BELOW HYATTVILLE	376	1951-53, 1967-	19 49N	WDEQ	M	1	W	
06274220	NOWOOD RIVER AT MANDERSON	2000	1965-	30 50N	WDEQ	M	1	W	
06277500	GREYBULL RIVER NEAR BASIN	1115	1951-53, 1965-	4 51N	WDEQ	M	1	W	
06279090	SHELL CREEK NEAR GREYBULL	560	1951-	4 52N	WDEQ	M	1	W	
#06279500	BIGHORN RIVER AT KANE	15765	1947-53, 1955-57, 1960-	9 55N	WDEQ	M	5+6	W	
06282000	SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR	1538	1947-49, 1964-	3 52N	WDEQ	M	1	W	
06282900	SHOSHONE RIVER ABOVE DRY CREEK, NEAR CODY	-	1974-	13 53N	MRB	C	3	W	
#06284010	SHOSHONE RIVER BELOW WILLWOOD DAM, NEAR RALSTON	-	1972-	8 54N	WDEQ	M	1+5,6	W	
#06284400	SHOSHONE RIVER NEAR GARLAND	2036	1974-	13 55N	BRUM	M	5	W	
#06284500	BITTER CREEK NEAR GARLAND	80.5	1958-60, 1969-	7 55N	MRB	M	2+3	W	
					WDEQ	M	1+7	W	
					WDEQ	M	5+6	W	

@ Also streamflow station
Also sediment station

Table 3. Chemical-quality stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RANGE	COOPERATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
YELLOWSTONE RIVER BASIN (Continued)									
#06284800	WHISTLE CREEK NEAR GARLAND	101	1959-60, 1969-	30 55N 97W	MRB	C	2+3	CH	
#06285100	SHOSHONE RIVER NEAR LOVELL	2350	1966-	10 56N 96W	MRB	D	1+7	CH	
#06285400	SAGE CREEK AT SIOON CANAL, NEAR DEVER	341	1958-60, 1969-	34 57N 97W	MRB	M	1+7	CH	
06286200	SHOSHONE RIVER AT KANE	2989	1976-	6 56N 95W	MRB	M	1+7	CH	
#06286258	BIG COULEE NEAR LOVELL	30.1	1974-	34 58N 95W	MRB	HL	5	W	
#06298000	TONGUE RIVER NEAR DAYTON	204	1966-	11 56N 87W	WDA	M	5+6	CH	
					WDA	M	1	CH	
					WDA	M	4+5+6+7+	CH	
					EPA	M	11	CH	
06299980	TONGUE RIVER AT MONARCH	-	1973-	20 57N 84W	EPA	Q	8	CH	
#06305500	GOOSE CREEK BELOW SHERIDAN	392	1959-60, 1961-64, 1967-	15 56N 84W	WDA	Q	1+4+5+7	CH	
					WDA	M	1	CH	
					WDA	M	5+6	CH	
					WDA	M	4+6+7	CH	
06306300	TONGUE RIVER AT STATE LINE, NEAR DECKER, MT	1477	1965-	33 9S 40E	EPA	Q	1	CH	
					WDA	M	5+6	CH	
06312500	POWDER RIVER NEAR KAYCEE	980	1968-	13 43N 81W	EPA	Q	4+6+7+11	CH	
06313000	SOUTH FORK POWDER RIVER NEAR KAYCEE	1150	1968-	9 42N 81W	WDA	M	1	CH	
					WDA	M	5+6	CH	
#06313400	SALT CREEK NEAR SUSSEX	769	1967-	8 42N 79W	EPA	Q	1	CH	
					WDA	M	4+5+7	CH	
06316400	CRAZY WOMAN CREEK AT UPPER STATION, NEAR ARVADA	945	1966-	10 52N 77W	BLM	Q	1	CH	
#06317000	POWDER RIVER AT ARVADA	6050	1946-53, 1967-	21 54N 77W	WDA	M	1	C	
#06320200	CLEAR CREEK BELOW ROCK CREEK, NEAR BUFFALO	322	1975-	30 51N 81W	WDA	Q	5+6	CH	
#06320400	CLEAR CREEK AT UCROSS	409	1975-	19 53N 80W	BLM	Q	1+4+5+7	CH	
063223500	PINEY CREEK AT UCROSS	267	1975-	18 53N 80W	BLM	Q	1+4+5+7	CH	
#06324000	CLEAR CREEK NEAR ARVADA	1110	1950-54, 1966-	36 57N 77W	EPA	Q	1+5+6+7	CH	
					WDA	M	1	CH	
#06324500	POWDER RIVER AT MOOREHEAD, MT	8088	1976-	8 9S 48E	EPA	Q	4+5+7	CH	
#06324970	LITTLE POWDER RIVER ABOVE DRY CREEK, NR WESTON	1230	1975-	13 57N 71W	WDA	HL	9	CH	
06332800	LITTLE MISSOURI RIVER NEAR NEW HAVEN CHEYENNE RIVER BASIN	-	1975-	20 55N 67W	EPA	Q	1+5+6+7	CH	SAMPLE WHEN FLOW
#06365300	DRY FORK CHEYENNE RIVER NEAR BILL	128	1976-	31 38N 73W	BLM	M	1+4+5+7+8	CH	SAMPLE WHEN FLOW
#06365900	CHEYENNE RIVER NEAR DULL CENTER	1527	1975-	20 40N 68W	USGS	Q	1+4+5+7	CH	
#06386000	LANCE CREEK NEAR SPENCER	2070	1975-	14 39N 62W	BLM	M	1+4+5+7	CH	
06386500	CHEYENNE RIVER NEAR SPENCER	5270	1975-	25 40N 61W	BLM	Q	1+5+6+7	CH	
					EPA	Q	8+10	CH	

@ Also streamflow station.
Also sediment station

Table 3. Chemical-quality stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RANGE	COOPERATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
<u>CHEYENNE RIVER BASIN (Continued)</u>									
#06394000	BEAVER CREEK NEAR NEWCASTLE	1320	1949-53, 1967-	14 41N 60W	WDA	M	1	C	
#06425720	BELLE FOURCHE RIVER BL HATTLESNAKE CR. NR PINEY	495	1975-	46N 71W	BLM	-	144,5,7,8	CH	SAMPLE WHEN FLOW
#06425780	BELLE FOURCHE RIVER ABOVE DRY CREEK, NEAR PINEY	594	1975-	25 47N 71W	BLM	-	144,5,7,8	CH	SAMPLE WHEN FLOW
#06426500	BELLE FOURCHE RIVER BELOW MOORCROFT	1670	1975-	24 50N 68W	EPA	M	144,5,7,8	CH	
							11		
							144,5,7	CH	
							8	CH	
							8	CH	
06427850	BELLE FOURCHE RIVER AT DEVILS TOWER	-	1967-	7 53N 65W	WDA	M	5,6	CH	
							4,6,7,11	CH	
							8	CH	
06428500	BELLE FOURCHE R AT WYO-SOUTH DAKOTA STATE LINE	3280	1965-	18 9N 1E	EPA	M	1	C	
							5,6	CH	
<u>PLATTE RIVER BASIN</u>									
#06520000	NORTH PLATTE RIVER NEAR NORTHGATE, CO	1431	1965-	11 11N 90W	WDA	M	1	CH	
							5,6	CH	
#06623800	ENCAMPMENT RIVER AB HUG PARK CR. NR ENCAMPMENT	72.7	1967-	10 12N 84W	USGS	M	1,5,6,7	CF	
							8,9	CF	
#06625000	ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT	265	1965-	3 15N 83W	USGS	A	10	CF	
#06628800	SAGE CREEK NEAR SARATOGA	263	1972-	34 19N 85W	BLM	M	5,6	CH	
#06630000	NORTH PLATTE RIVER AB SEMINOLE RES. NR SINCLAIR	8134	1960-	13 22N 86W	WDA	M	1	CH	
#06630300	HIG DITCH NEAR COYOTE SPRINGS	110	1974-	30 23N 83W	BLM	M	5,6	CH	
							1,5,7	CF	
#06630330	NORTH DITCH NEAR COYOTE SPRINGS	22.6	1976-	19 23N 83W	BLM	A	10	CF	
							1,5,7	CF	
06630350	SEMINOLE RES IN N PLATTE R ARM NR SEMINOLE BOAT C	-	1972-	35 24N 84W	MRB	MU	5,7,11	CP	
#06634600	LITTLE MEDICINE BOW RIVER NEAR MEDICINE BOW	966	1965-	21 23N 78W	WDA	M	1	CF	
#06634950	HANNA DRAW NEAR HANNA	21.6	1974-	34 24N 81W	BLM	O	8	CF	
							1,5,7	CF	
#06635000	MEDICINE BOW RIVER ABOVE SEMINOLE RES. NR HANNA	2338	1965-	34 24N 81W	WDA	M	10	CF	
06635100	SEMINOLE RE-MEDICINE BOW R ARM NR SEMINOLE BOAT C	-	1972-	13 24N 83W	MRB	MU	5,7,11	CP	
06635500	SEMINOLE RESERVOIR NEAR LEO	7230	1972-	8 25N 84W	MRB	MU	5,7,11	CP	
06636000	NORTH PLATTE RIVER ABOVE PATHFINDER RESERVOIR	7241	1969-	34 26N 84W	MRB	MU	5	CH	
06637200	PATHFINDER RE IN N PLATTE ARM NR SAND CR POINT	-	1972-	20 28N 84W	MRB	MU	5,7,11	CP	
#06639000	SWEETWATER RIVER NEAR ALCOVA	2327	1964-	25 29N 87W	WDA	M	1	CH	
							5,6	CH	
06639600	PATHFINDER RE IN SWEETWATER R ARM NR BISHOP PT	-	1972-	20 29N 84W	MRB	MU	5,7,11	CP	
06640500	PATHFINDER RESERVOIR NEAR ALCOVA	10711	1972-	24 29N 84W	MRB	MU	5,7,11	CP	
06641300	ALCOVA RE AT MOUTH OF FREMONT CANYON, NR ALCOVA	-	1972-	3 29N 83W	MRB	MU	5,7,11	CP	
06641500	ALCOVA RESERVOIR AT ALCOVA	10776	1972-	24 30N 83W	MRB	MU	5,7,11	CP	
06642000	NORTH PLATTE RIVER AT ALCOVA	10912	1955-	1 30N 92W	WDA	M	1	CH	
06643000	BATES CREEK NEAR ALCOVA	393	1970-	1 31N 92W	WDA	M	5,6	CH	
@ Also streamflow station # Also sediment station									

Table 3. Chemical-quality stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RGE	COOPERATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
<u>PLATTE RIVER BASIN (Continued)</u>									
06644085	NORTH PLATTE RIVER AT MILLS	-	1970-	7 33N 79W	MRB	BW	5,6 1,4,5,6,7 7,8,9,10	C	
06644500	CASPER CREEK AT CASPER	668	1970-	7 33N 79W	EPA	M	5	C	
#06644550	NORTH PLATTE RIVER AT CASPER	-	1971-	4 33N 79W	MRB	A	5	C	
06645000	NORTH PLATTE RIVER BELOW CASPER	12574	1950-52, 1957-59, 1967-	4 33N 78W	MRB	M	5	C	
#06646600	DEER CREEK BELOW MILLAR WASTEWAY, AT GLENROCK	213	1967-	4 33N 75W	WDCQ	BWM	5,6	C	
#06646800	NORTH PLATTE RIVER NEAR GLENROCK	13538	1960-	17 33N 74W	WDA	M	4,5,6	C	
#06652000	NORTH PLATTE RIVER AT ORIN	14888	1966-	17 31N 69W	EPA	BW	7,8,9,10	C	
06652650	GLENDO RES OPPOSITE CUTTONWOOD CR ARM NR GLENDO	-	1972-	12 29N 68W	MRB	MQ	5,6	CH	
#06652700	GLENDO RESERVOIR NEAR GLENDO	15545	1972-	13 29N 68W	MRB	MQ	5,7,11	CH	
#06652800	NORTH PLATTE RIVER BELOW GLENDO RESERVOIR	15548	1966-	30 29N 67W	WDA	M	5,7,11	CH	
#06656000	NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR	16237	1950-58, 1965-	27 27N 66W	WDCQ	M	5,6	CH	
06660100	LARAMIE RIVER AT HOWELL	-	1974-	30 17N 73W	WDCQ	M	1,5,6	CH	
06660500	LARAMIE RIVER AT TWO RIVERS	1224	1966-	5 17N 74W	WDA	M	1	CH	
06661500	LITTLE LARAMIE RIVER AT TWO RIVERS	376	1965-	6 17N 74W	WDA	M	1	CH	
#06662000	LARAMIE RIVER NEAR LOOKOUT	2174	1976-	27 21N 74W	WDA	HL	9	CH	
#066670500	LARAMIE RIVER NEAR FORT LARAMIE	4495	1965-	25 26N 65W	WDA	M	1	CH	
#06674500	NORTH PLATTE R AT WYOMING-NEBRASKA STATE LINE	22218	1965-	4 23N 58W	WDA	HL	5,6	CH	
#06679500	NORTH PLATTE RIVER AT MITCHELL NE	24300	1976-	33 33N 56W	WDCQ	M	5,6	CH	
<u>GREEN RIVER BASIN</u>									
#09188500	GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL	468	1962-64, 1967-73, 1974-	8 35N 111W	WDCQ	M	1,5,6	CH	
#09192600	GREEN RIVER NEAR BIG PINEY	-	1967-	21 30N 110W	WDA	M	1	GR	
#09196500	PINE CREEK ABOVE FREMONT LAKE	75.8	1975-	5 35N 108W	USGS	M	5	GR	
#09203000	EAST FORK RIVER NEAR BIG SANDY	79.2	1975-	7 31N 105W	USGS	M	5	GR	
#09204700	SAND SPRINGS DRAW TRIBUTARY NEAR BOULDER	2.77	1975-	8 30N 107W	USGS	M	5	GR	
#09205000	NEW FORK RIVER NEAR BIG PINEY	1230	1965-	22 30N 110W	WDA	M	1	GR	
#09207650	DRY BASIN CREEK NEAR BIG PINEY	47.2	1975-	12 28N 112W	USGS	M	5	GR	
#09208000	LABARGE CREEK NR LABARGE MEADOWS RANGER STATION	6.3	1975-	8 29N 116W	USGS	M	5	GR	
#09209400	GREEN RIVER NEAR LABARGE	3910	1963-	33 26N 112W	WDCQ	M	5,6	CH	
#09210500	FONTENELLE CR NR HERSCHLER RANCH, NR FONTENELLE	152	1975-	2 24N 115W	WDA	HL	1,4,5,6,7	CH	
#09211200	GREEN RIVER BELOW FONTENELLE RESERVOIR	4280	1967-	31 24N 111W	USGS	M	5	CH	
#09211300	FOURMILE GULCH TRIBUTARY NEAR FONTENELLE	14.2	1975-	15 24N 111W	WDCQ	M	5,6	CH	
#09212500	BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY	94	1975-	18 30N 104W	EPA	Q	1,4,5,6,7	CH	
@ Also streamflow station									
# Also sediment station									

Table 3. Chemical-quality stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION SE TSP RNC	COOPERATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
GREEN RIVER BASIN (Continued)									
#09213500	BIG SANDY RIVER NEAR FARSON	322	1975-	1/ 27N 106W	USGS	M	5	GR	
#09214500	LITTLE SANDY CREEK ABOVE EDEN	134	1976-	11 26N 105W	BLM	Q	1,5	CH	
#09216000	BIG SANDY RIVER BELOW EDEN	1610	1961-64, 1967-	31 24N 107W	WDA	M	8	CH	
#09216050	BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN	1720	1975-	29 23N 109W	WDA	HL	1,5,6,7	CH	
#09216290	EAST OTTERSON WASH NEAR GREEN RIVER	16.6	1975-	23 21N 109W	USGS	M	1,5	GR	
#09216300	GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER	-	1968-	26 21N 109W	WDA	M	1	CH	
#09216350	SKUNK CANYON CREEK NEAR GREEN RIVER	15.7	1975-	8 20N 107W	WDEJ	M	5,6	CH	
#09216525	SEPARATION CREEK AT UPPER STATION, NEAR RINER	41.8	1975-	9 19N 90W	BLM	M	5	CF	
#09216527	SEPARATION CREEK NEAR RINER	55.3	1975-	32 20N 90W	BLM	M	1,4,5,7	CH	
#09216545	BITTER CREEK NEAR BITTER CREEK	308	1975-	36 18N 99W	BLM	Q	8	CH	
#09216550	DEADMAN WASH NEAR POINT OF ROCKS	152	1975-	25 20N 101W	USGS	M	1,4,5,7	GR	
#09216562	BITTER CREEK AB SALT WELLS CREEK, NR SALT WELLS	836	1975-	2 19N 103W	BLM	M	5	CH	
#09216565	SALT WELLS CREEK NEAR SOUTH BAXTER	-	1975-	15 14N 103W	BLM	Q	8	CH	
#09216570	GAP CREEK AB BEANS SPRING CR, NEAR SOUTH BAXTER	22.0	1975-	14 14N 103W	USGS	M	5	GR	
#09216572	BEANS SPRING CREEK NEAR SOUTH BAXTER	4.92	1975-	25 14N 104W	USGS	M	5	GR	
#09216574	BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER	13.1	1975-	18 14N 103W	USGS	M	5	GR	
#09216576	GAP CREEK BL BEANS SPRING CR, NEAR SOUTH BAXTER	35.9	1975-	7 14N 103W	USGS	M	5	GR	
#09216578	DRY CANYON NEAR SOUTH BAXTER	3.69	1976-	5 14N 102W	BLM	M	5	GR	
#09216580	BIG FLAT DRAW NEAR POINT OF ROCKS	19.5	1975-	4 15N 102W	USGS	M	5	GR	
#09216600	CUTTHROAT DRAW NEAR ROCK SPRINGS	7.88	1975-	17 17N 102W	USGS	M	5	GR	
#09216625	NO NAME CREEK NEAR ROCK SPRINGS	18.2	1975-	1 17N 103W	USGS	M	5	GR	
#09216750	SALT WELLS CREEK NEAR SALT WELLS	526	1975-	14 19N 103W	BLM	Q	1,4,5,7	CH	
09216810	KILLPECKER CREEK AT ROCK SPRINGS	-	1975-	26 19N 105W	EPA	M	8	CH	
09216880	BITTER CREEK BEL LITTLE BITTER CREEK, NR KANDA	-	1975-	7 18N 105W	EPA	Q	1,5,6,7	CH	
#09216900	BITTER CREEK TRIBUTARY NEAR GREEN RIVER	1.65	1975-	16 18N 106W	EPA	Q	8	CH	
#09217000	GREEN RIVER NEAR GREEN RIVER	14000	1951-	26 18N 107W	USGS	D	2,3	GR	
09217010	GREEN RIVER BELOW GREEN RIVER	-	1973-	36 18N 107W	WDEJ	M	5,6	CH	
#09218500	BLACKS FORK NEAR MILLBURNE	152	1975-	11 12N 117W	WDA	HL	1,5,6,7	CH	
#09221650	SMITHS FORK NEAR LYMAN	-	1974-	12 16N 114W	WDEJ	M	5	CH	
#09221680	MUD SPRING HOLLOW NEAR CHURCH BUTTE, NEAR LYMAN	8.83	1975-	7 16N 116W	USGS	M	1,5,6	GR	
#09222200	BLACKS FORK NEAR LYMAN	821	1962-	15 17N 113W	BRUC	D	2,3	CH	
#09222230	LITTLE MUDDY CREEK NEAR GLENCOE	416	1975-	31 19N 116W	BLM	Q	1,5,6	CH	
							1,4,5,7	CH	

@ Also streamflow station
Also sediment station

Table 3. Chemical-quality stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION			COOPERATOR	SAMPLING FREQUENCY	ANALYSIS SCHEDULE	FIELD OFFICE	REMARKS
GREEN RIVER BASIN (Continued)											
#09222400	MUDDY CREEK NEAR HAMPTON	963	1975-	18	18N	113W	BLM	M	1,4,5,7	CH	
#09223000	HAMS FORK BELOW POLE CREEK, NEAR FRONTIER	128	1975-	35	25N	117W	USGS	M	8	CH	
09224050	HAMS FORK NEAR DIAMONDVILLE	-	1975-	36	21N	116W	EPA	M	1,4,5,6,7	CH	
#09224450	HAMS FORK NEAR GRANGER	670	1965-	30	19N	111W	WDA	M	1	CH	
#09224600	BLACKS FORK TRIBUTARY NEAR GRANGER	5.03	1975-	15	18N	111W	USGS	M	5	CH	
#09224700	BLACKS FORK NEAR LITTLE AMERICA	3100	1951-	15	18N	109W	USGS	D	2,3	CH	
							USGS	M	5,6	CH	
#09224800	MEADOW SPRINGS WASH TRIBUTARY NEAR GREEN RIVER	5.22	1975-	18	18N	109W	WDA	HL	9	CH	
#09224810	BLACKS FORK TRIBUTARY NO 2 NEAR GREEN RIVER	12.0	1975-	18	17N	108W	USGS	M	5	GR	
#09224820	BLACKS FORK TRIBUTARY NO 3 NEAR GREEN RIVER	3.59	1975-	28	17N	108W	USGS	M	5	GR	
#09224840	BLACKS FORK TRIBUTARY NO 4 NEAR GREEN RIVER	1.26	1975-	33	17N	108W	USGS	M	5	GR	
#09224980	SUMMERS DRY CREEK NEAR GREEN RIVER	423	1975-	13	16N	109W	USGS	M	5	GR	
#09225200	SQUAW HOLLOW NEAR BURNTFORK	6.57	1975-	29	14N	108W	USGS	M	5	GR	
#09225300	GREEN RIVER TRIBUTARY NO 2 NEAR BURNTFORK	13.0	1975-	31	13N	108W	USGS	M	5	GR	
#09228500	BURNT FORK NEAR BURNTFORK	52.8	1975-	36	3N	16E	USGS	M	5	GR	
#09229500	HENRYS FORK NEAR MANILA, UT	520	1951-	23	12N	109W	USGS	D	2,3	GR	
#09235300	VERMILLION CREEK NEAR HIAWATHA, CO	196	1975-	15	12N	100W	USGS	M	1	GR	
#09257000	LITTLE SNAKE RIVER NEAR OIXON	988	1975-	8	12N	90W	BLM	O	1,4,5,7	CH	
#09258200	DRY COW CREEK NEAR BAGGS	49.7	1975-	19	16N	91W	USGS	M	5	CF	
BEAR RIVER BASIN											
#10020100	BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT	752	1948-	29	17N	120W	WDA	M	1	CH	
#10027000	TWIN CREEK AT SAGE	246	1967-69, 1975-	7	21N	119W	EPA	M	1,5,6,7	CH	
#10039500	BEAR RIVER AT BORDER	2490	1965-	15	14S	46E	BLM	M	1,4,5,7	CH	
							WDA	M	1	CH	
							WDA	M	5,6	CH	
SNAKE RIVER BASIN											
#13018300	CACHE CREEK NEAR JACKSON	10.6	1965-	1	40N	116W	USGS	M	1,5,6,7	GR	
							USGS	HL	8,9	GR	
							USGS	A	10	GR	
							WDA	M	1	CH	
							WDA	M	5,6	CH	
							USGS	D	2,3	CH	
							USGS	M	7,11	CH	
							USGS	D	8	CH	
							USGS	A	9,10	CH	
							WDA	M	1	CH	
							WDA	M	5,6	CH	
							HL	9	CH		

@ Also streamflow station
Also sediment station

Explanation of abbreviations and codes used in table 4.

Period of Record: The dates given are the calendar years in which records began or ended. Breaks of less than a year are not shown.

Sampling Equipment: H, hydrographer sample
O, observer sample
P, pumping sampler
S, single-stage samplers

Suspended Sediment Sampling Frequency:

- 1, samples collected by observer once daily except during periods of rapidly changing flow when additional samples are collected.
- 2, sampled by hydrographer at least once a month all year, with additional samples collected during periods of rapidly changing flow.
- 3, sampled by hydrographer at least once a month during open-water period and at least twice during extended periods of ice cover.
- 6, samples collected as requested by cooperator.
- 7, pumping sampler serviced monthly or more often during periods of high runoff.
- 8, single-stage sampler serviced at least monthly. Samples collected by hydrographer if there is flow at time of visit.
- 9, infrequent sampling, sample when visiting station operated by WSE personnel.

Bed Material Sampling Frequency:

- 3, sample the surficial bed material in the cross section at least three times per year (high, medium, and low flow).
- 4, manual in-situ measurement and analysis of stream-bed material (pebble count), at a frequency of once per year (or longer), at the discretion of the District sediment specialist.

Laboratory: W, Worland

Cóoperator: BLM, Bureau of Land Management
BRUM, Bureau of Reclamation, Upper Missouri Region
MRB, Missouri River basin project
RIV, City of Riverton
USGS, Geological Survey--Federal Program
WSE, Wyoming State Engineer

Field Office: C, Casper
CF, Cheyenne Field Unit
CH, Cheyenne Hydrologic Surveillance Section
GR, Green River
R, Riverton
W, Worland

Table 4. Sediment stations

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	SAMPLING ROUTINE	SUSPENDED MATERIAL	RED MATERIAL	LABORATORY	COORDINATOR	FIELD OFFICE	REMARKS
				SE	TSP	RNGE					
YELLOWSTONE RIVER BASIN											
*06205450	CLARKS FK YELLOWSTONE R AT M-W STATE L NR C C M	-	1975-	-	-	-	3	4	M HRB		
*06206600	CLARKS FK YELLOWSTONE R AB PAINT CR, NR CLARK	-	1975-	-	-	-	3	4	M HRB		
*06207507	BIG SAND COULEE AB ST DITCH, NEAR BADGER BASIN	98.3	1973-	14	57N	101W	0	1	M HLM		
*06207510	BIG SAND COULEE AT WYOMING-MONTANA STATE LINE	134	1973-	32	9S	22E	0	1	M HLM		
*06220500	EAST FORK WIND RIVER NEAR DUBOIS	427	1975-	34	6N	6W	3	4	M HLB		
*06225500	WIND RIVER NEAR CROWHEART	1891	1971-	16	3N	2W	3	4	M HSE		
06227700	LECLAIR CANAL NEAR RIVERTON	-	1976-	29	1N	4E	6	6	M RIV		
*06256900	DRY CREEK NEAR RIVERTON	52.6	1965-	8	38N	92W	1	3	M HLM		
*06270000	DRY CREEK NEAR BONNEVILLE	80.3	1971-	27	47N	88W	3	4	M HSE		
*06279500	HIGHORN RIVER AT KANE	15765	1946-64	9	55N	94W	6	3	M HRS		
*06284010	SHOSHONE RIVER BELOW WILLWOOD DAM, NEAR RALSTON	-	1969-	8	54N	100W	6	-	M GHUM		
*06285100	SHOSHONE RIVER NEAR LOVELL	2350	1971-	16	56N	96W	3	4	M HSE		
*06286258	BIG COULEE NEAR LOVELL	30.1	1970-	34	58N	95W	0	1	M HLB		
*06305500	GOOSE CREEK BELOW SHERIDAN	392	1971-	15	56N	84W	3	4	M HSE		
*06313400	SALT CREEK NEAR SUSSEX	769	1976-	8	42N	79W	3	3	M HLM		
*06317000	POWDER RIVER AT ARVADA	6050	1946-57	21	54N	77W	0	1	M HLM		
*06320200	CLEAR CREEK BELOW ROCK CREEK, NEAR BUFFALO	322	1976-	30	51N	81W	3	4	M HLM		
*06320400	CLEAR CREEK AT UCROSS	409	1976-	19	53N	80W	3	4	M HLM		
*06324000	CLEAR CREEK NEAR ARVADA	1110	1950-53	36	57N	77W	3	4	M HLM		
*06324970	LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON	1230	1975-	13	57N	71W	3	4	M HSE		
CHEYENNE RIVER BASIN											
*06363300	DRY FORK CHEYENNE RIVER NEAR BILL	128	1976-	31	38N	73W	3	4	M HLM		
*06365900	CHEYENNE RIVER NEAR DULL CENTER	1527	1976-	20	40N	68W	3	3	M USGS		
*06386000	LANCE CREEK AT SPENCER	2070	1976-	14	39N	62W	3	3	M HLM		
*06425720	BELLE FOURCHE RIVER BEL RATTLESNAKE CR, NR PINEY	495	1975-	9	46N	71W	7	3	M HLM		
*06425760	BELLE FOURCHE RIVER ABOVE DRY CREEK, NEAR PINEY	594	1975-	25	47N	71W	7	3	M HLM		
*06426500	BELLE FOURCHE RIVER BELOW MOORCROFT	1670	1976-	24	50N	68W	3	3	M HLM		
*06430500	REDWATER CR AT WYOMING-SOUTH DAKOTA STATE LINE	471	1971-	18	7N	1E	3	4	M HSE		
PLATTE RIVER BASIN											
*06623800	ENCAMPMENT RIVER AB HUG PARK CR, NEAR ENCAMPMENT	72.7	1964-	10	12N	86W	3	4	M USGS		
*06628800	SAGE CREEK NEAR SARATOGA	263	1972-	32	19N	85W	3	3	M HLM		
*06630300	BIG DITCH NEAR COYOTE SPRINGS	110	1974-	30	23N	83W	3	3	M HLM		
*06630330	NORTH DITCH NEAR COYOTE SPRINGS	22.6	1976-	19	23N	83W	3	3	M HLM		
*06634600	LITTLE MEDICINE BOW RIVER NEAR MEDICINE BOW	963	1971-	22	23N	78W	3	3	M HSE		
*06634990	HANNA DRAW NEAR HANNA	21.6	1974-	34	24N	81W	3	4	M HLM		
*06635000	MEDICINE BOW R AB SEMINOLE RESERVOIR, NEAR HANNA	2338	1971-	34	24N	81W	3	4	M HLM		
*06637550	SWEETWATER RIVER NEAR SOUTH PASS CITY	11.6	1975-	28	28N	101W	3	4	M HLM		
*06638300	WEST FORK CROOKS CREEK NEAR JEFFREY CITY	177	1975-	31	28N	92W	5	8	M HLM		
*06639000	SWEETWATER RIVER NEAR ALCOVA	2327	1974-	25	29N	87W	3	3	M HSE		
*06644500	NORTH PLATTE RIVER AT CASPER	-	1971-	4	33N	79W	3	4	M HSE		
*06645200	NORTH PLATTE RIVER AT ORIN	14888	1971-	17	31N	69W	3	3	M HSE		
*066670500	LARAMIE RIVER NEAR FORT LARAMIE	4495	1971-	25	26N	65W	3	4	M HSE		
*06674500	NORTH PLATTE RIVER AT WYOMING-NEBRASKA ST LINE	22218	1971-	4	23N	58W	3	3	M HSE		
GREEN RIVER BASIN											
*09188500	GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL	468	1975-	8	35N	111W	3	4	M USGS		
*09192600	GREEN RIVER NEAR BIG PINEY	-	1975-	21	30N	110W	3	4	M USGS		
*09196500	PINE CREEK ABOVE FREMONT LAKE	75.8	1975-	5	35N	108W	3	4	M USGS		
*09203000	EAST FORK RIVER NEAR BIG SANDY	79.2	1975-	7	31N	105W	3	4	M USGS		
*09204700	SAND SPRINGS DRAW TRIBUTARY NEAR BOULDER	12.77	1975-	8	30N	107W	3	4	M USGS		
*09205000	NEW FORK RIVER NEAR BIG PINEY	1230	1975-	22	30N	110W	3	4	M USGS		
*09207650	DRY BASIN CREEK NEAR BIG PINEY	47.2	1975-	12	28N	112W	3	4	M USGS		
*09208000	LABARGE CREEK NEAR LABARGE MEADOWS RANGER STA	6.3	1975-	8	29N	116W	3	4	M USGS		
*09209400	GREEN RIVER NEAR LABARGE	3910	1974-	33	26N	112W	3	4	M HSE		
*09210500	FONTENELLE CR NR HENSCHLER RANCH, NR FONTENELLE	152	1975-	2	24N	115W	3	4	M USGS		

@ Also gaging station

* Also chemical quality station

Table 4. Sediment stations (continued)

STATION NUMBER	STATION NAME	DRAINAGE AREA	PERIOD OF RECORD	LOCATION	SAMPLING	LABORATORY	COOPERATOR	REMARKS
				SE TSP RGE	SAMPLING	SAMPLING		
GREEN RIVER BASIN (Continued)								
*#09211200	GREEN RIVER BELOW FONTENELLE RESERVOIR	4280	1975-	31 24N 111W	H	3	USGS	
*#09211300	FOURMILE GULCH TRIBUTARY NEAR FONTENELLE	14.2	1975-	15 24N 111W	S	3	USGS	
*#09212500	BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY	94.0	1975-	18 30N 106W	H	3	USGS	
*#09213500	BIG SANDY RIVER NEAR PARSON	322	1971-	17 27N 106W	H	3	WSE	
*#09214500	LITTLE SANDY CREEK ABOVE EDEN	134	1975-	11 26N 105W	H	3	USGS	
*#09216000	BIG SANDY RIVER BELOW EDEN	1610	1971-	31 24N 107W	H	3	WSE	
*#09216050	BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN	1610	1975-	29 23N 108W	H	3	USGS	
*#09216290	EAST OTTERSON WASH NEAR GREEN RIVER	1720	1975-	23 21N 109W	S	3	USGS	
*#09216300	GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER	16.6	1975-	26 21N 109W	H	3	USGS	
*#09216350	SUNKEN CANYON CREEK NEAR GREEN RIVER	15.7	1975-	8 20N 107W	S	3	USGS	
*#09216525	SEPARATION CREEK AT UPPER STATION, NEAR RINER	41.8	1975-	9 19N 90W	S	3	BLM	
*#09216527	SEPARATION CREEK NEAR RINER	55.3	1975-	32 20N 90W	P	7	BLM	
*#09216537	DELANEY DRAW NEAR RED DESERT	32.8	1975-	8 19N 95W	S	3	BLM	
*#09216545	BITTER CREEK NEAR BITTER CREEK	308	1975-	46 18N 99W	S	3	BLM	
*#09216550	DEADMAN WASH NEAR POINT OF ROCKS	132	1975-	25 20N 101W	S	3	USGS	
*#09216562	BITTER CREEK ABOVE SALT WELLS CR, NR SALT WELLS	836	1975-	12 19N 103W	H	3	BLM	
*#09216570	SALT WELLS CREEK NEAR SOUTH BAXTER	34.7	1975-	15 14N 103W	P	7	USGS	
*#09216572	BEANS SPRING CREEK NEAR SOUTH BAXTER	22.0	1975-	18 14N 103W	H	3	USGS	
*#09216574	BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER	4.92	1975-	25 14N 104W	S	3	USGS	
*#09216576	GAP CREEK BELOW BEANS SPRING CR, NR SOUTH BAXTER	13.1	1975-	18 14N 103W	S	3	USGS	
*#09216578	URY CANYON NEAR SOUTH BAXTER	35.9	1975-	7 14N 103W	S	3	BLM	
*#09216580	BIG FLAT DRAW NEAR POINT OF ROCKS	3.69	1975-	5 14N 102W	HS	3	BLM	
*#09216600	CUTTHROAT DRAW NEAR ROCK SPRINGS	19.5	1975-	4 15N 102W	HS	3	USGS	
*#09216695	NO NAME CREEK NEAR ROCK SPRINGS	7.88	1975-	17 17N 102W	S	3	USGS	
*#09216750	SALT WELLS CREEK NEAR SALT WELLS	18.2	1975-	1 17N 103W	S	3	USGS	
*#09217000	GREEN RIVER NEAR GREEN RIVER	526	1975-	14 19N 103W	H	3	BLM	
*#09218500	BLACKS FORK NEAR MILLBURN	14000	1951-	26 18N 107W	O	1	USGS	
*#09220000	EAST FORK OF SMITH FORK NEAR ROBERTSON	152	1975-	11 12N 117W	H	3	USGS	
*#09220500	WEST FORK OF SMITH FORK NEAR ROBERTSON	53.0	1975-	5 12N 115W	H	3	USGS	
*#09221650	SMITH FORK NEAR LYMAN	37.2	1975-	15 12N 116W	H	3	USGS	
*#09221680	MUD SPRING HOLLOW NEAR CHURCH BUTTE, NEAR LYMAN	8.83	1975-	12 16N 114W	H	3	USGS	
*#09222000	BLACKS FORK NEAR LYMAN	821	1971-	7 16N 113W	S	3	USGS	
*#09222300	LITTLE MUDDY CREEK NEAR GLENCOE	416	1976-	15 17N 113W	H	3	USGS	
*#09222400	MUDDY CREEK NEAR HAMPTON	963	1976-	31 19N 116W	H	3	BLM	
*#09223000	MAWS FORK BELOW POLE CREEK, NEAR FRONTIER	128	1975-	18 18N 113W	H	3	BLM	
*#09224450	MAWS FORK NEAR GRANGER	670	1971-	35 25N 117W	H	3	USGS	
*#09224700	BLACKS FORK NEAR LITTLE AMERICA	3100	1967-	30 19N 111W	H	3	WSE	
*#09224800	MEADOW SPRINGS WASH TRIBUTARY NEAR GREEN RIVER	5.22	1975-	15 18N 109W	S	3	USGS	
*#09224810	BLACKS FORK TRIBUTARY NO 2 NEAR GREEN RIVER	12.0	1975-	8 17N 108W	S	3	USGS	
*#09224820	BLACKS FORK TRIBUTARY NO 3 NEAR GREEN RIVER	3.59	1975-	28 17N 108W	S	3	USGS	
*#09224840	BLACKS FORK TRIBUTARY NO 4 NEAR GREEN RIVER	1.26	1975-	33 17N 108W	S	3	USGS	
*#09224980	SUMMERS DRY CREEK NEAR GREEN RIVER	423	1975-	13 16N 109W	S	3	USGS	
*#09225200	SQUAW HOLLOW NEAR BURNTFORK	6.57	1975-	29 14N 108W	S	3	USGS	
*#09225300	GREEN RIVER TRIBUTARY NO 2 NEAR BURNTFORK	13.0	1975-	31 13N 108W	S	3	USGS	
*#09225500	BURNT FORK NEAR BURNTFORK	52.8	1975-	36 3N 16E	H	3	USGS	
*#09225900	HENRY'S FORK NEAR MANILA, UT	520	1975-	23 12N 109W	H	3	USGS	
*#09235300	VERMILLION CREEK NEAR HIAWATHA, CO	196	1976-	15 12N 100W	H	3	BLM	
*#09257000	LITTLE SNAKE RIVER NEAR DIXON	988	1971-	8 12N 90W	H	3	WSE	
*#09258200	URY COW CREEK NEAR BAGGS	49.7	1975-	19 16N 91W	S	3	USGS	
BEAR RIVER BASIN								
*#10027000	TWIN CREEK AT SAGE	246	1976-	7 21N 119W	H	3	BLM	
SNAKE RIVER BASIN								
*#13018300	CACHE CREEK NEAR JACKSON	10.6	1968-	1 40N 116W	H	3	USGS	
*#1302500	SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE	3465	1965-	-	-	-	USGS	

@ Also gaging station

* Also chemical quality station

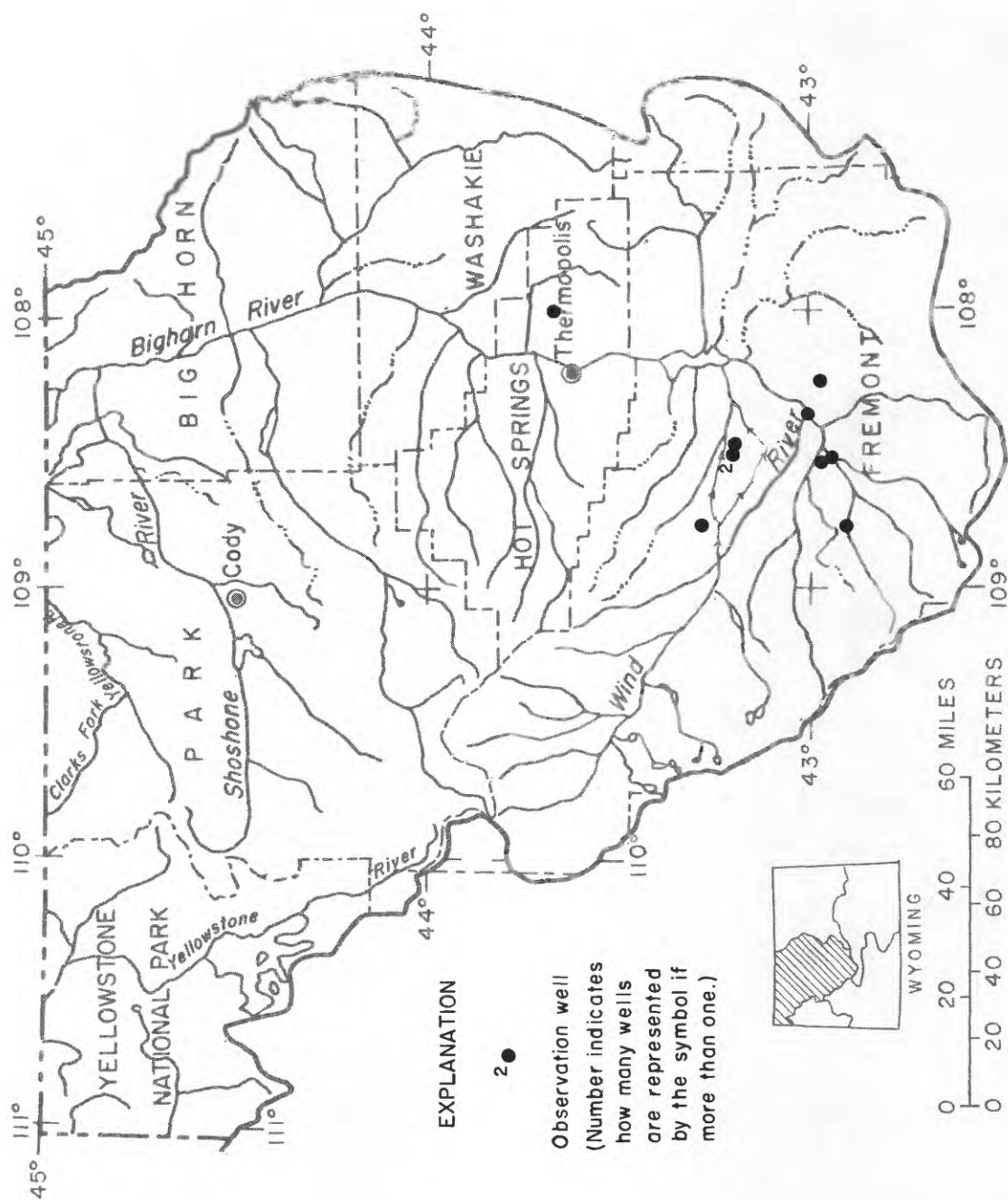


Figure 6.—Location of observation wells in the Yellowstone River, Clarks Fork Yellowstone River, and Bighorn River basins.

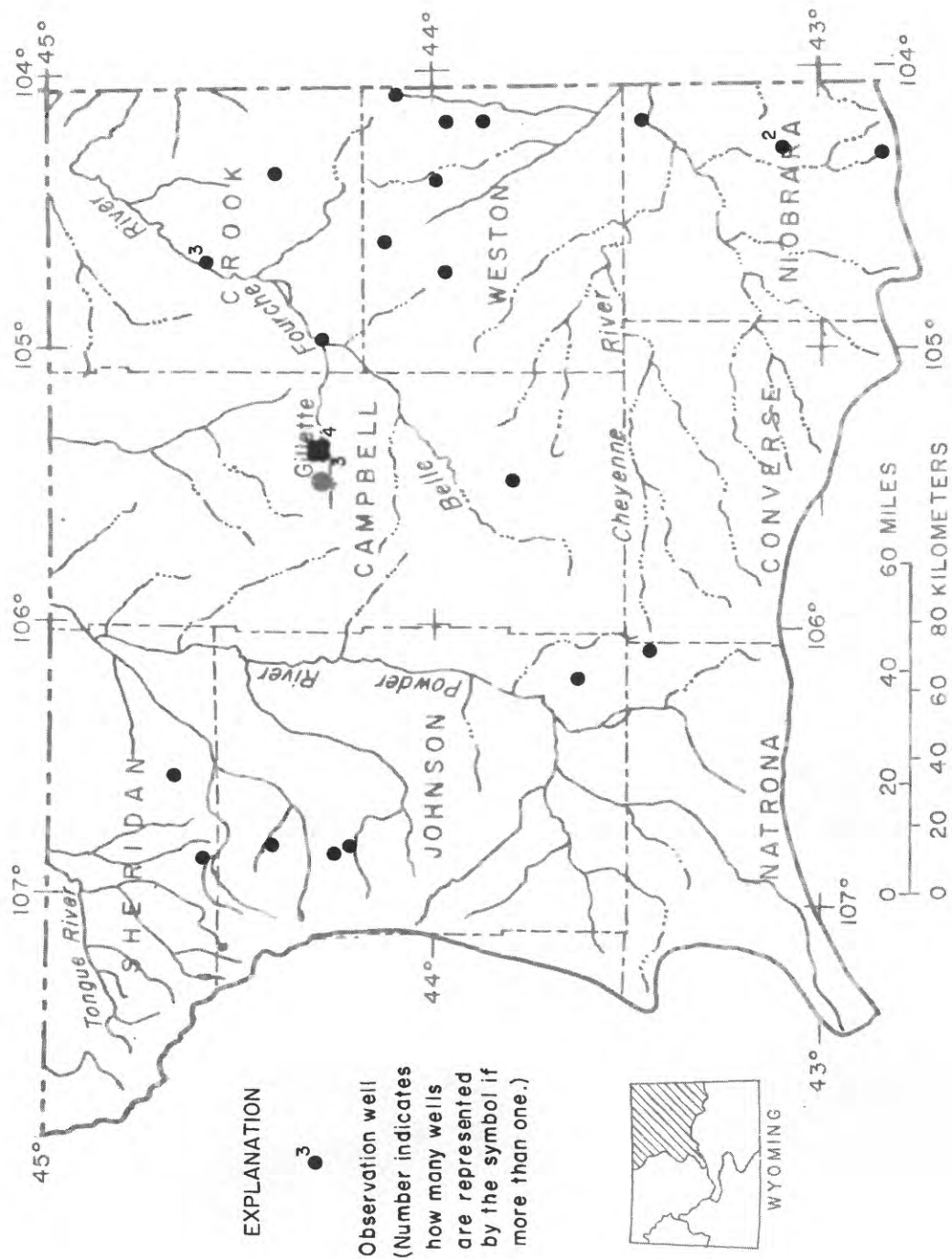


Figure 7.—Location of observation wells in the Tongue River, Powder River, Belle Fourche River, and Cheyenne River basins.

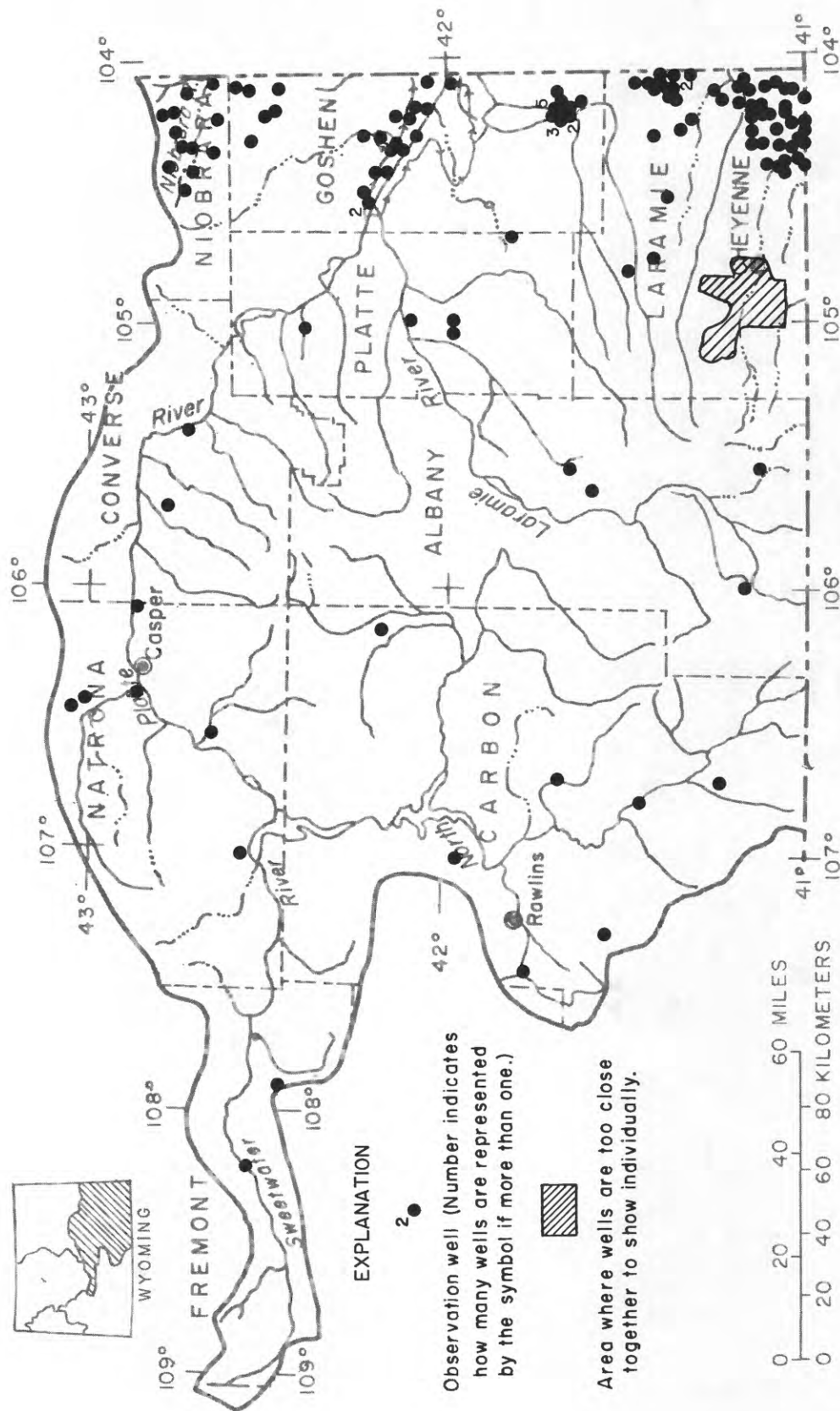


Figure 8.—Location of observation wells in the Niobrara River and Platte River basins.

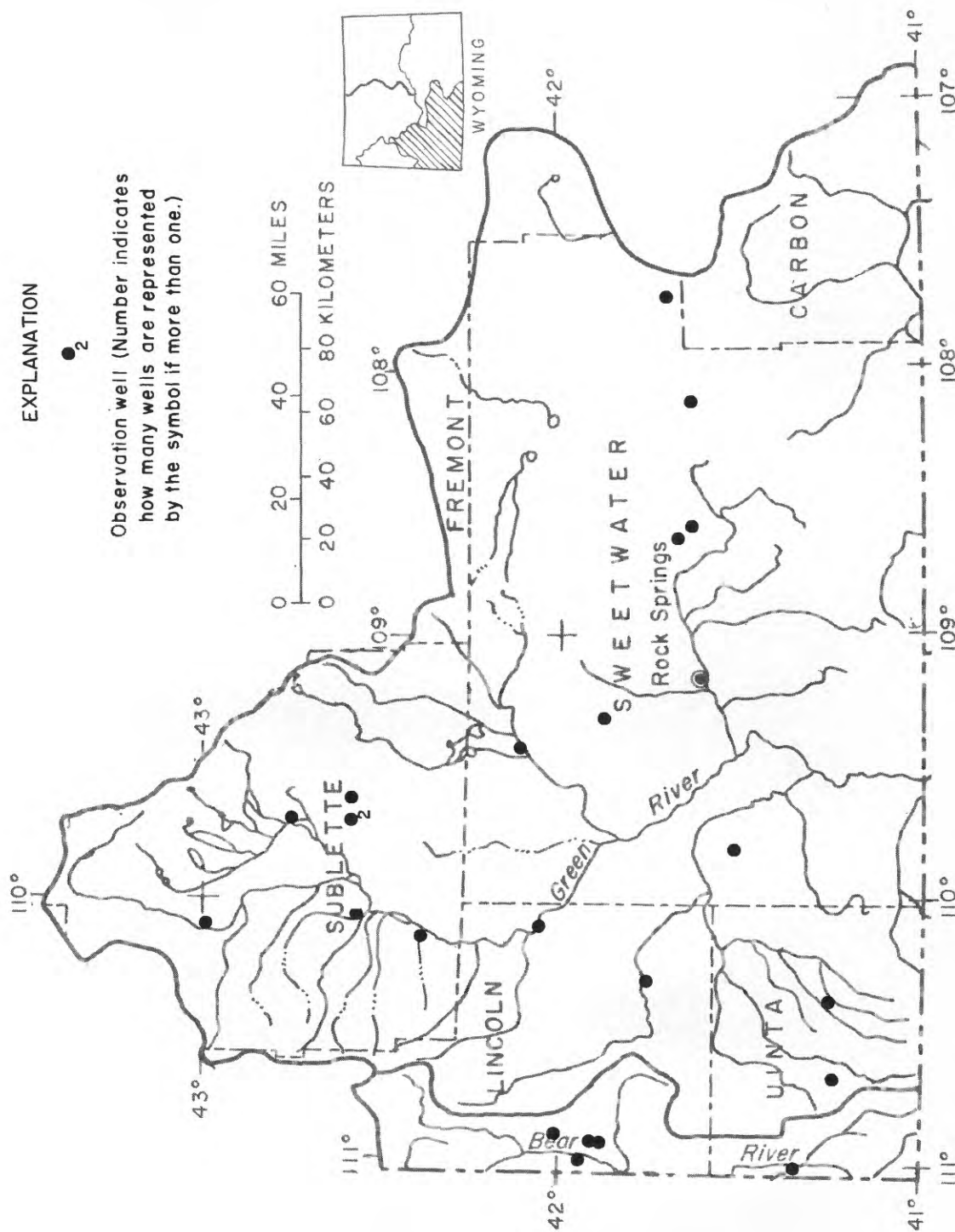


Figure 9.—Location of observation wells in the Green River and Bear River basins.

Explanation of abbreviations and codes used in table 5.

Lat-Long-Seq No: The first six digits are the latitude in degrees, minutes, and seconds. The next seven digits are the longitude in degrees, minutes, and seconds. The last two digits indicate the sequence number of when the well was inventoried in the event more than one well has the same latitude and longitude.

Geologic Unit:

111 ALVM	Alluvial deposits	211 LNCE	Lance Formation
111 TRRC	Terrace deposits	211 MVRD	Mesaverde Formation
121 NRPK	North Park Formation	211 STEL	Steele Shale
121 OGLL	Ogallala Formation	217 CLVL	Cloverly Formation
122 ARKR	Arikaree Formation	217 LKOT	Lakota Formation
123 BRUL	Brule Formation	221 SNDC	Sundance Formation
123 WRVR	White River Formation or Group	237 SPRF	Spearfish Formation
124 LNEY	Laney Shale Member of Green River Formation	317 CSFR	Casper Formation
124 WDRV	Wind River Formation	317 FRLL	Forelle Limestone
124 WSTC	Wasatch Formation	317 MNKT	Minnekahta Limestone
125 FRUN	Fort Union Formation	331 MDSN	Madison Formation or Group
211 ALMD	Almond Formation	337 PHSP	Pahasapa Limestone
211 FXHL	Fox Hills Sandstone	374 FLTD	Flathead Quartzite or Sandstone
		374 GRVR	Gros Ventre Formation

The 7-character geologic unit code given above consists of two parts. The first three characters are numeric and identify the Era, System, and Series of the rock unit. The next four characters are in alpha mnemonic code for the name of the rock-stratigraphic unit.

Numeric Codes for Geologic Age Identification

	Code		Code
Cenozoic	100	Paleozoic (continued)	
Quaternary	110	Pennsylvanian	320
Holocene	111	Upper	321
Pleistocene	112	Middle	324
Tertiary	120	Lower	327
Pliocene	121	Mississippian	330
Miocene	122	Upper	331
Oligocene	123	Lower	337
Eocene	124	Devonian	340
Paleocene	125	Upper	341
Mesozoic	200	Middle	344
Cretaceous	210	Lower	347
Upper	211	Silurian	350
Lower	217	Upper	351
Jurassic	220	Middle	354
Upper	221	Lower	357
Middle	224	Ordovician	360
Lower	227	Upper	361
Triassic	230	Middle	364
Upper	231	Lower	367
Middle	234	Cambrian	370
Lower	237	Upper	371
Paleozoic	300	Middle	374
Permian	310	Lower	377
Upper	311	Precambrian	400
Lower	317		

Explanation of abbreviations and codes used in table 5 (continued).

Cooperator: CHEY, City of Cheyenne
USGS, Geological Survey--Federal Program
WSE, Wyoming State Engineer

Field Office: C, Casper
CF, Cheyenne Field Unit
CH, Cheyenne Hydrologic Surveillance Section
GR, Green River
R, Riverton
SD, South Dakota District
W, Worland

Frequency of Observation:
C, continuous (graphic or digital recorder)
M, monthly (12 visits per year)
BM, bimonthly (6 visits per year)
Q, quarterly (4 visits per year)
SA, semiannual (2 visits per year)
A, annual (1 visit per year)
I, infrequent or as required

Period of Record: The dates given are the calendar years in which records began or ended. A record consists of one or more measurements during a calendar year.

Table 5. Observation wells

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
ALBANY COUNTY							
MISSOURI RIVER BASIN							
13-073-02CAA	410725105325301	317CSPR	WSE	CF SA	66-68,70-73,75-	WM. D. EMBREE	
14-077-25DCD	410847105585201	111ALVM	WSE	CF SA	48-53,59-	GIL SMITH	
19-073-02CDD	413816105325601	317FRL	WSE	CF A	65-68,70-	O. L. SCHMIDL	
19-074-36CCA	413424105350301	211STEL	WSE	CF A	68,70-		
CAMPBELL COUNTY							
MISSOURI RIVER BASIN							
44-072-22CC	434611105295001	124WSTC	WSE	C SA	66-	DURHAM MEAT CO.	
50-071-20BAA	441808105251201	124WSTC	WSE	C Q	74-	WYODAK	
50-071-21BBA	441816105243101	125FRUN	WSE	C Q	74-	USGS	
50-071-27AAC1	441749105221901	111ALVM	WSE	C Q	74-	USGS	
50-071-27BAA1	441728105224801	125FRUN	WSE	C Q	74-	USGS	
50-071-27BAA2	441717105225501	125FRUN	WSE	C Q	74-	USGS	RECORDED 74-
50-071-27BAU	441716105224901	111ALVM	WSE	C Q	74-	USGS	RECORDED 74-
50-071-33BAC1	441628105240801	125FRUN	WSE	C Q	74-	USGS	
50-071-33BAC2	441628105240802	125FRUN	WSE	C Q	74-	USGS	
50-071-33BAC3	441628105240803	111ALVM	WSE	C Q	74-	USGS	
CARBON COUNTY							
MISSOURI RIVER BASIN							
15-083-320DD	411307106442601	121NRPK	WSE	CF SA	67-68,70-	HENRY FINCH	
17-086-140DB	412626106482401	121NRPK	WSE	CF SA	67-68,70-	CHARLES WELTON	
18-086-108DA	413308107174401	217CLVL	WSE	CH I	65-	CITY OF RAWLINS	
20-083-288AB	414104106442701	121NRPK	WSE	CF SA	50-	STATE OF WYOMING	
21-089-22ADA	414650107254501	125FRUN	WSE	CF SA	63,65-	BLM	
23-085-190DO	415652107014201	211WRO	WSE	CF SA	67-68,70-	MILLER ESTATE	
25-078-03CCC	420936106105001	111ALVM	WSE	CF SA	68,70-		
CONVERSE COUNTY							
MISSOURI RIVER BASIN							
32-071-31AAA	424229105242901	123MRVR	WSE	C SA	50-56,59-	SALLIE EDWARDS	
32-074-038CD	424620105424201	331MDSN	WSE	C C	74-	WM BARBER	RECORDED 74-
CROOK COUNTY							
MISSOURI RIVER BASIN							
50-068-36AO	441620104575001	211LNCE	WSE	C Q	69-	STATE OF WYOMING	
51-063-23AAC	442340104225001	221SNDG	WSE	C A	68,70-	CITY OF SUNDANCE	
53-065-188AC	443503104425101	317MKT	WSE	C Q	55,60,62-	NATIONAL PARK SERVICE	
53-065-188BD1	443450104430001	251SPRF	WSE	C Q	62-	NATIONAL PARK SERVICE	
53-065-188BD2	443453104425602	331PHSP	WSE	C Q	62-	NATIONAL PARK SERVICE	
FREMONT COUNTY							
MISSOURI RIVER BASIN							
29-093-360B	4226321075440501	122ARKR	WSE	R Q	74-	STATE OF WYOMING	RECORDED 74-
30-095-31AD	423127108132201	122ARKR	WSE	R Q	65,73-	TETON STUDS CORP.	RECORDED 66-
A 1-4-3300B	430051108240901	124MDRV	WSE	R C	51,61-	H. W. ROLAND	
A 3-3-21ADA1	431326108311001	124MDRV	WSE	R Q	49,65-	H. W. ROLAND	
A 3-3-21ADA2	431327108311101	124MDRV	WSE	R Q	48-	USBR	
A 3-3-2588B	431253108284401	124MDRV	WSE	R Q	49-	USGS	
A 4-1-1B08C	431915108481501	124MDRV	WSE	R Q	66-67,70-	USGS	
D 1-3-070CD	425900108355401	124MDRV	WSE	R Q	66-67,70-	USGS	
D 1-3-29CCC	425623108332401	124MDRV	WSE	R Q	66-67,70-	USGS	
D 1-5-1180D	425931108151301	111ALVM	WSE	R Q	65-67,70-	USGS	
D 2-1-060DD	425437108474101	111ALVM	WSE	R Q	65-67,70-	I. W. SEAMANDS	

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
GOSHEN COUNTY MISSOURI RIVER BASIN							
19-061-02CCD	413816104094901	111ALVM	WSE	CH Q	43-49-69,72-	CITY OF LAGRANGE	RECORDED 73-
19-061-04ABC	413852104114901	111ALVM	WSE	CH C	72-	FRANK SANDERS	
19-061-04CDD2	413813104115702	111ALVM	WSE	CH Q	43-48-69,72-	HUGH STEHLER	
19-061-13BAA	413715104082701	123BRUL	WSE	CH Q	72-	FLORA VANDENEL	
20-060-30CBB	414023104074501	123BRUL	WSE	CH Q	72-	JOHN MEIER & SON, INC.	RECORDED 73-
20-061-21DDO	414051104112201	111ALVM	WSE	CH Q	70-	CURTIS MEIER	
20-061-23CCC	414051104100701	111ALVM	WSE	CH C	72-	USGS	
20-061-2308B2	414104104091702	111ALVM	WSE	CH Q	72-	CURTIS MEIER	
20-061-24CDD	414052104083001	123BRUL	WSE	CH Q	76-	JOHN MEIER & SON, INC.	RECORDED 75
20-061-25C8C2	414017104085702	111ALVM	WSE	CH Q	72-	CURTIS TEMPLIN	
20-061-27DDA	414005104101701	111TRRC	WSE	CH Q	72-	JAMES WARD	
20-061-30BAC	414043104142301	123BRUL	WSE	CH Q	72-	LOWERCHECK LAND & CATTLE	
20-061-31B8C	413944104144101	123BRUL	WSE	CH Q	72-	WARD HAY & CATTLE CO.	RECORDED 75- RECORDED 74-
20-061-31DAD	413919104134101	123BRUL	WSE	CH Q	72-	FRANK SANDERS	
20-061-33CCB	413917104122401	111ALVM	WSE	CH Q	72-	CURTIS MEIER	
20-061-35AAB	413954104091101	123BRUL	WSE	CH Q	70-	FRENCH IRR. DIST.	
23-060-10AAC	415021104031601	111ALVM	WSE	CH Q	50-	USGS	RECORDED 75- RECORDED 74-
24-060-28CDD	420141104051501	111ALVM	WSE	CH Q	62-	USGS	
24-061-05CBB2	420449104133402	111ALVM	WSE	CH Q	51-	BILL RING	
24-061-11B8B	420426104100601	111TRRC	WSE	CH Q	62-	USGS	
24-061-23CCB	420204104100601	111ALVM	WSE	CH Q	62-	USGS	RECORDED 75
24-062-11AAA	420429104155801	111ALVM	WSE	CH Q	62-	M. W. BERRY	
25-061-28B8C	420426104114501	111TRRC	WSE	CH Q	62-	USGS	
25-062-02B8B	421031104170001	111ALVM	WSE	CH Q	62-	LESTER STROUD	
25-062-19AAB	420753104204701	111ALVM	WSE	CH Q	48-53,55-	USGS	RECORDED 75
25-062-27BDC2	420840104175402	111ALVM	WSE	CH Q	62-	EMERY BRIGHT	
25-062-31ADC	420548104204801	111ALVM	WSE	CH Q	62-	LESTER DUNN	
25-063-09CCB	420900104262201	111ALVM	WSE	CH Q	43-48-	JOSEPH SPECKNER	
26-062-14BBA	421357104165001	111ALVM	WSE	CH Q	48-	USGS	RECORDED 75
26-063-32DAC	421044104263201	111ALVM	USGS	CH Q	48-	NPS-FED ND. 2	
26-064-23CDA	421233104303401	111ALVM	USGS	CH Q	48-	KEITH NEWMAN	
26-064-28B8B	421216104332301	111ALVM	WSE	CH SA	42-43,46-	GERALD STURMAN	
26-064-29ADA	421205104333001	111ALVM	WSE	CH SA	49,72-	WM IMMESOLEIA	RECORDED 75- RECORDED 74-
29-060-29CDD	422718104060501	122AKR	WSE	CH SA	49-51,70,75-	OTTO YORK	
29-061-08CDD	422946104131001	122AKR	WSE	CH C	74-	RONALD PODALAK	
29-061-26ACC	422734104092501	122AKR	WSE	CH A	72-	USGS	
30-060-040AA	423603104041001	122AKR	WSE	CH A	72-		
30-060-29B8C	423255104062301	122AKR	WSE	CH A	72-		
30-062-33DCA	423130104183401	122AKR	WSE	CH SA	74-		
HOT SPRINGS COUNTY MISSOURI RIVER BASIN							
43-093-28CCC	433938108020301	374GRVR	WSE	CH Q	70-		
JOHNSON COUNTY MISSOURI RIVER BASIN							
42-078-14DDB	433618106112901	211LNC	WSE	C SA	65-	W. B. LINCH	RECORDED 75- RECORDED 74-
49-093-05DCC	440912104511201	374FLY	WSE	CH C	74-	MOBIL OIL	
49-083-2708A2	4411211040493502	331MDSN	WSE	C C	74-	MOBIL OIL	
51-083-10ACB	442427106494001	124WSTC	WSE	W SA	60-	NIELS NIELSON	

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
LARAMIE COUNTY							
MISSOURI RIVER BASIN							
12-060-060002	410152104072502	123BRUL	WSE	CH SA 72-		SAM ROTH	
12-061-060C88	410218104152201	111TRRC	WSE	CH SA 69-		KENNETH THOMPSON	
12-061-15000	410007104105301	123BRUL	WSE	CH SA 70-		USGS	
12-061-180C88	410034104152401	111TRRC	WSE	CH SA 52-59, 72-		BAUMAN BROS.	
12-062-050C88	410205104210201	111TRRC	WSE	CH SA 70-			
12-062-108C88	410145104184101	111TRRC	WSE	CH SA 70-			
12-062-138AA	410100104160301	111TRRC	WSE	CH C 75-		STATE ENGINEER	RECORDED 75-
12-062-22A88	410008104181101	111TRRC	WSE	CH SA 52, 70-		FRANK DWINNELL	
12-062-22DCA	410111104000101	111ALVM	WSE	CH SA 42-48, 69-74, 76-		OTIS BREEDEN	
12-063-15AA42	410059104243202	123BRUL	WSE	CH C 73-		USGS	RECORDED 72-
13-060-050C88	410703104071201	123BRUL	WSE	CH C 69-		ELMER GLANTZ	
13-060-2088C	410458104071201	123BRUL	WSE	CH SA 46, 70-		BERNARD MORTIZ	
13-060-31AAA	410322104071701	123BRUL	WSE	CH SA 40-		W. I. YOUNG	
13-061-040C88	410710104125801	123BRUL	WSE	CH SA 53, 59, 65, 70-		CLAUS PLAMBECK	
13-061-130C88	410234104125601	123BRUL	WSE	CH SA 70-		TOM PORTER	
13-061-350C88	410237104104101	111TRRC	WSE	CH SA 70-		A. M. IDE	
13-062-040D0	410654104184301	123BRUL	WSE	CH SA 70-		USGS	
13-062-24888	410507104162301	111TRRC	WSE	CH SA 70-			
13-062-288C88	410356104195001	111TRRC	WSE	CH SA 42-47, 64, 71-		W. M. DITTMER	
13-063-10AAA	410653104243001	111TRRC	WSE	CH SA 70-			
13-063-270D0	410330104243501	123BRUL	WSE	CH SA 70-			
13-063-320C88	410237104271801	123BRUL	WSE	CH SA 72-			
13-063-350C88	410235104242801	123BRUL	WSE	CH SA 71-			
13-067-068C88	410738104563501	1210GLL	CHEY	CH A 67-		USGS	
13-067-070AD	410622104552801	1210GLL	CHEY	CH A 63-64, 67-		ART KING	
13-067-1588A	410608104525201	1210GLL	CHEY	CH A 41-43, 49-50, 64-65, 67-68, 71-		WARREN LIVESTOCK CO.	
13-067-16A8C	410557104534101	1210GLL	CHEY	CH A 41-43, 50, 64-65, 67-		WARREN LIVESTOCK CO.	
13-067-19A8A	410517104554601	1210GLL	CHEY	CH A 64, 67-		DAN REES	
13-067-19CAA	410446104560501	1210GLL	CHEY	CH A 41-42, 50, 64, 67-		DUCK CREEK GRAZING ASSN.	
13-067-2788A	410420104525601	1210GLL	CHEY	CH A 41-42, 50, 64, 67-		DUCK CREEK GRAZING ASSN.	
13-067-288C88	410401104540801	1210GLL	CHEY	CH A 41-42, 50, 63, 65, 67-		DUCK CREEK GRAZING ASSN.	
13-067-3488A	410330104525801	1210GLL	CHEY	CH A 63-		STATE OF WYOMING	
13-068-018C88	410731104572901	1210GLL	CHEY	CH A 63, 67-		ART & JERRY KING	
13-068-0388A	410747104594601	1210GLL	CHEY	CH SA 44-		CITY OF CHEYENNE	
13-068-04AA0	410742105000301	1210GLL	CHEY	CH SA 44-		CITY OF CHEYENNE	
13-068-04A0C	410729105001801	1210GLL	CHEY	CH SA 44-		CITY OF CHEYENNE	
13-068-04C80	410717105010101	1210GLL	CHEY	CH SA 45-48, 50-		CITY OF CHEYENNE	
13-068-040C88	410707105002801	1210GLL	CHEY	CH SA 44-48, 50-		CITY OF CHEYENNE	
13-068-098AC	410640105004801	1210GLL	CHEY	CH A 44, 55, 68-		ART KING	
13-068-10A00	410637104590001	1210GLL	CHEY	CH A 63, 67-		ART & JERRY KING	
13-068-11AAC	410642104581201	1210GLL	CHEY	CH SA 69-		ART KING	
13-068-12CCA	410622104573501	1210GLL	CHEY	CH A 63-64, 67-		CHEVRON OIL CO.	
13-068-12DCA	410623104565601	1210GLL	CHEY	CH A 70-		ART & JERRY KING	
13-068-120C88	410622104573201	1210GLL	CHEY	CH C 42-50, 69-		ART KING	
13-068-130C88	410530104574601	1210GLL	CHEY	CH SA 45-50, 69-		CITY OF CHEYENNE	
13-068-1488B	410608104584901	1210GLL	CHEY	CH SA 45-		ART & JERRY KING	
13-068-14C80	410501104583901	1210GLL	CHEY	CH A 63, 68, 70-79-		ART & JERRY KING	
13-068-15C80	410537104594701	1210GLL	CHEY	CH A 63, 67, 69-			RECORDED 72-
13-068-1608A	410542105002201	1210GLL	CHEY	CH A			

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD FREQUENCY OF OBSERVATION OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
LARAMIE COUNTY MISSOURI RIVER BASIN (Continued)							
13-068-160D	410534105002401	1210GLL	CHEY	CH SA 49-		CITY OF CHEYENNE	
13-068-17CCB	410531105021601	1210GLL	CHEY	CH SA 65,67-69,71-		BELVOIR GRAZING ASSN.	
13-068-239BC	410507104585201	1210GLL	CHEY	CH A 67-		BELVOIR GRAZING ASSN.	
13-068-24AAC	410506104563701	1210GLL	CHEY	CH SA 64,67-		CITY OF CHEYENNE	
13-068-26AAA	410424104575101	1210GLL	CHEY	CH SA 73-		BELVOIR GRAZING ASSN.	
13-068-34ADD	410314104585801	1210GLL	CHEY	CH A 61-69,71-		CITY OF CHEYENNE	
14-060-058CB	410238104070801	1238RUL	WSE	CH C 57-		C. C. GROSS	RECORDED 72-
14-060-100BB	411131104041801	1238RUL	WSE	CH C 73-		USGS	RECORDED 73-
14-060-198DA	411001104075001	111TRRC	WSE	CH SA 42,71-		DALE BOWERS	
14-061-028CC	41123010413501	1238RUL	WSE	CH SA 59,70-		R. M. FRANZEN	
14-061-220CC	41100010413501	1238RUL	WSE	CH SA 71-75		SHERIL BROWN	RECORDED 75-
14-061-23AAB	411019104094501	1238RUL	WSE	CH SA 71-		WALTER BROWN	
14-061-25CCB	410847104093101	1238RUL	WSE	CH SA 70-		JAY BROWN	
14-061-26ABC	410912104103801	1238RUL	WSE	CH SA 73-		JAY BROWN	
14-062-20CCB	410940104205501	121ARKR	WSE	CH SA 59,64,70-		JOHN BASTIAN	
14-062-24BAB	411019104160201	1238RUL	WSE	CH SA 70-		MINNICK	
14-066-188BD	411110104492601	1210GLL	CHEY	CH Q 75-		JOHN BASTIAN	
14-066-210DD	410938104462201	1210GLL	WSE	CH Q 76-		FRED BONER	
14-067-060AD	411231104553401	1210GLL	CHEY	CH A 64-65,67-		JOHN BELL	
14-067-07CCB	411130104562701	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-067-070CB	411131104555601	1210GLL	CHEY	CH SA 64-65,67-		CITY OF CHEYENNE	
14-067-18CDB	411030104562001	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-067-180CC	411034104554001	1210GLL	CHEY	CH C 56-		CITY OF CHEYENNE	
14-067-198BD	411020104562701	1210GLL	CHEY	CH SA 56-		MARK T. COX III	RECORDED 72-
14-067-318BD	410834104562201	1210GLL	CHEY	CH A 41-43,64,67-		FRED KOSTER	
14-068-020DA	411224104574801	1210GLL	CHEY	CH A 42,64,68-		CITY OF CHEYENNE	
14-068-100CD	411124104591101	1210GLL	CHEY	CH A 64-65,67-		CITY OF CHEYENNE	
14-068-120BC	411138104570501	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-13ACB	411109104571001	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-13CCD	411032104573001	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-130AD	411045104564201	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-14ADA	411107104574901	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-14CAD	411049104582301	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-14CBB	411050104584701	111ALVM	CHEY	CH SA 41-48,50-		CITY OF CHEYENNE	
14-068-140CD	411035104580501	1210GLL	CHEY	CH SA 56-		CITY OF CHEYENNE	
14-068-2300C	410939104580101	1210GLL	CHEY	CH SA 40-47,49-		CITY OF CHEYENNE	
14-068-2400D	411007104571801	1210GLL	CHEY	CH SA 50-53,55-62,64-		CITY OF CHEYENNE	
14-068-2400D	410939104563601	1210GLL	CHEY	CH A 41-42,50-51,64,70-		CITY OF CHEYENNE	
14-068-250DA	410932104565801	1210GLL	CHEY	CH M 41-		CITY OF CHEYENNE	
14-068-250DA	410857104564401	1210GLL	CHEY	CH A 42-43,45-47,68-69,71-		CITY OF CHEYENNE	
14-068-26800	410908104581801	1210GLL	CHEY	CH SA 40-		CITY OF CHEYENNE	
14-068-268C1	410901104585501	1210GLL	CHEY	CH SA 40-42-61,63-		FRANCIS LIVESTOCK CO.	
14-068-270CC	410848104592301	1210GLL	CHEY	CH A 64-65,67-		FRANCIS LIVESTOCK CO.	
14-068-288C2	410922105010402	1210GLL	CHEY	CH A 64-		SILAS COLE	
14-068-288DA	410921105004001	1210GLL	CHEY	CH A 41,76-		CITY OF CHEYENNE	
14-068-29CBB	410908105021601	1210GLL	CHEY	CH SA 48-		CITY OF CHEYENNE	
14-068-300AA	410911105022101	1210GLL	CHEY	CH SA 45-48,50-		CITY OF CHEYENNE	
14-068-3200C	410759105012201	1210GLL	CHEY	CH SA 40,42		CITY OF CHEYENNE	
14-068-33AAC	410836105002901	1210GLL	CHEY	CH SA 43-48,50,69-		CITY OF CHEYENNE	
14-068-330CC	410758105003501	1210GLL	CHEY	CH SA 44-48,50-		CITY OF CHEYENNE	
14-068-34AAA	410844104590601	1210GLL	CHEY	CH SA 44-48,50-		CITY OF CHEYENNE	
14-068-340BD	410809104591901	1210GLL	CHEY	CH SA 44-48,50-		CITY OF CHEYENNE	
14-068-340DD	410755104590001	1210GLL	CHEY	CH SA 44-48,50-		CITY OF CHEYENNE	

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
LARAMIE COUNTY MISSOURI RIVER BASIN (Continued)							
14-068-35CAC	410811104583501	1210GLL	CHEY	CH SA 45-		CITY OF CHEYENNE	RECORDER 72-
14-068-35CDD2	410757104582302	1210GLL	CHEY	CH C 69-		CITY OF CHEYENNE	
14-068-36ACC	410825104571001	1210GLL	CHEY	CH SA 41-		CITY OF CHEYENNE	
14-068-36ADB	410833104565101	1210GLL	CHEY	CH SA 41-61,63-		CITY OF CHEYENNE	
14-068-36BCA	410832104573501	1210GLL	CHEY	CH SA 41-61,63-		CITY OF CHEYENNE	
15-060-180BA	411571104074001	123BRUL	WSE	CH SA 71-		HENRY JESSEN	
15-061-25CCC	411348104092301	123BRUL	WSE	CH SA 71-		USGS	
15-067-02DBA	411750104510901	1210GLL	WSE	CH SA 61-		ERVIN M. MUELLER	
15-067-32DBA	411330104543701	1210GLL	CHEY	CH A 42,50,53,64,67,69-		WARREN LIVESTOCK CO.	
15-069-06ACA	411808105094201	123BRUL	CHEY	CH SA 43-44,54-		CITY OF CHEYENNE	
15-069-09CAD	411655105073501	123BRUL	CHEY	CH SA 42-44,54-		CITY OF CHEYENNE	
15-069-16ACB	411621105072901	123BRUL	CHEY	CH SA 54-		CITY OF CHEYENNE	
15-069-21DCC	411452105072801	123BRUL	CHEY	CH SA 54-		CITY OF CHEYENNE	
15-069-27CUC	411406105063701	123BRUL	CHEY	CH SA 55-		CITY OF CHEYENNE	
15-069-28DBA	411425105071701	123BRUL	CHEY	CH SA 54-		CITY OF CHEYENNE	
15-069-33ABR	411359105072701	123BRUL	CHEY	CH SA 55-		CITY OF CHEYENNE	
15-069-34AAA	411355105055401	123BRUL	CHEY	CH SA 54-		CITY OF CHEYENNE	
16-060-06BBA	412321104080501	1210GLL	WSE	CH SA 72-		HENRY JESSEN	
16-060-07BBB	412227104081401	1210GLL	WSE	CH C 75-		STATE ENGINEER	
16-060-10BCH	412210104045501	1210GLL	WSE	CH SA 72,75-		MARION L. PETERS	
16-060-10CBH	412156104045301	1210GLL	WSE	CH SA 76-		MARION L. PETERS	
16-060-27ABC	411941104041401	1210GLL	WSE	CH SA 72-		ANDERSON LIVESTOCK	
16-061-01CBA	412312104092201	1210GLL	WSE	CH SA 72-		ORVILLE LEMURISH	
16-061-14BBA	412126104102909	1210GLL	WSE	CH SA 64,74-		WARREN ANDERSON	
16-061-30BBB	411952104150501	122AKRR	WSE	CH SA 64-69,72-		FAYE MARQUISS	
16-062-14AAA	412134104162201	1210GLL	WSE	CH SA 72-		WARREN ANDERSON	
16-062-03CBB	412238104322201	1210GLL	WSE	CF SA 53,64-70,72,74-		DAVID JOHNSON	
17-060-04CBB	412806104052801	122AKRR	WSE	CH SA 64,76-		EO BRANIGAN	
17-060-20ADA2	412542104053202	122AKRR	WSE	CH SA 72-		JOHN W. FREEBURG	
17-060-30DAD	412429104064101	1210GLL	WSE	CH SA 72-		RICHARD R. LARSON	
17-060-33BCC	412348104052501	1210GLL	WSE	CH SA 72-		MALM RANCH CO.	
17-060-33CBH	412343104053101	1210GLL	WSE	CH C 75-		STATE ENGINEER	
17-060-34CBB	412346104041801	1210GLL	WSE	CH SA 72-		EO P. ANDERSON	
17-062-26AAA	412505104160301	1210GLL	WSE	CH SA 53,64-70,72-		STOCKGROWERS BANK	
17-066-28BCC	412456104470901	1210GLL	WSE	CH SA 72-		HAROLD LEWIS	
18-066-31CCC	412853104493001	122AKRR	USGS	CF SA 63-			
LINCOLN COUNTY GREEN RIVER BASIN							
21-114-268CC1	414619110193301	124LNEY	WSE	GR SA 65-		STATE OF WYOMING	RECORDER 75-
24-112-08CBB	420430110191901	124LNEY	WSE	GR SA 66-70,72-		NATIONAL PARK SERVICE	
LINCOLN COUNTY BEAR RIVER BASIN							
22-119-05CDA	415442110571801	111TRRC	WSE	GR SA 59,62-		DOYLE KNOUSE	RECORDER 75-
23-119-32BDA2	415522110571502	111TRRC	WSE	GR SA 62-		THORNOCK PHOS.	
23-120-13ACC	415849110590801	111ALVM	WSE	GR SA 55-		DOYLE KNOUSE	
24-119-28ACA	420202110555501	111TRRC	WSE	GR SA 62-		HERMAN TEICHERT	
NATRONA COUNTY MISSOURI RIVER BASIN							
30-085-21BAB	423346107014201	122AKRR	WSE	C SA 67-		USGS	RECORDER 75-
31-081-18AAA	423938106350301	111ALVM	WSE	C SA 66-		J. H. RISSLER	
33-077-03BDC	425131106042801	111ALVM	WSE	C SA 66-		JOHN PIERCE	
33-080-04ABH	425147106263701	111TRRC	WSE	C SA 50,65-		USBR	
34-080-08CCC	425517106282501	111TRRC	WSE	C SA 67-		USGS	
35-080-31DDB	425700106282801	111TRRC	WSE	C Q 67-		USGS	
40-078-15AAB	426633106115201	211FAHL	WSE	C SA 65-		TOWN OF EDEGTON	

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
NIDRARA COUNTY MISSOURI RIVER BASIN							
31-060-150A	423940104031201	122ARKR	WSE	CH A	62-	USGS	
31-061-298B	423916104131501	122ARKR	WSE	CH A	72-	ROBERT HOLMES	
31-062-180C		122ARKR	WSE	CH A	73,75-	GORDAN KAAN	
32-060-298C	424323104060301	122ARKR	WSE	CH A	56,72-	A. E. LARSON	
32-061-10AB	424610104101301	122ARKR	WSE	CH A	72-		
32-062-12CCU	424532104153001	122ARKR	WSE	CH A	72-	KEN FREEMAN	
32-062-20BDU	424410104195401	122ARKR	WSE	CH A	58,68,70-	KOEL LARSEN	
32-062-3288B	424241104202001	122ARKR	WSE	CH C	70-	RICHARD PFISTER	
32-063-02CCC	424262104234601	122ARKR	WSE	CH A	52,59,68-	G. CHRISTIAN	
32-063-3388B	424232104261001	122ARKR	WSE	CH A	57,60-	EARL GUILBLEY	
32-064-24DA2	424355104290202	122ARKR	WSE	CH A	60-	IRA LAMB	
33-061-348UC	424401104203101	122ARKR	WSE	CH A	75-	STATE OF WYOMING	
33-062-29DBA	430422104183201	331HOSN	WSE	CH A	67-74,76-	DALE FALLEKTON	
36-062-28AB3	430422104183203	217LKOT	WSE	CH C	74-	ENERGY TRANS. CO.	
40-061-218AB	432611104114801	111ALVM	WSE	C	70-	USGS	
PLATTE COUNTY MISSOURI RIVER BASIN							
21-065-16AAA	414755104391101	122ARKR	USGS	CF Q	72-	HELLBAUM	
23-068-15DDU	415733104585601	122ARKR	WSE	CF Q	58-70,72,74-	USBR	
23-068-180AD	415749105022501	122ARKR	WSE	CF Q	58-70,72-	USBR	
24-068-03DAD	420441104585801	122ARKR	WSE	CF Q	58-70,72-	W. H. JOHNSON	
28-068-17CBC	422355105023801	122ARKR	WSE	CF Q	61-70,72-		
SHERIDAN COUNTY MISSOURI RIVER BASIN							
53-083-07AUC	443450106534801	124WSTC	WSE	W	60-	MR. PRATHER	
54-081-148C2	443915106352201	124WSTC	WSE	C	60-	ULM SCHOOL	
SUBLETTE COUNTY GREEN RIVER BASIN							
28-112-19AC1	422348110114501	124WSTC	WSE	GR SA	65-70,72-	BLM	
30-107-056D1	423540109382001	124WSTC	WSE	GR SA	64-66,68-	BLM	
30-108-058CD1	423555109445701	125FRUN	WSE	GR SA	73-		
30-108-058CD2	423555109445702	124WSTC	WSE	GR SA	73-		
30-111-17ACA1	423504110053001	124WSTC	WSE	GR SA	65-	SUBLETTE COUNTY	
32-108-058A	424624109450201	111ALVM	WSE	GR SA	65-	JAMES BARGER	
35-111-08AD8	430118110071001	111ALVM	WSE	GR SA	65-	USGS	
SWEETWATER COUNTY GREEN RIVER BASIN							
18-110-2108A	413128109495801	111ALVM	WSE	GR SA	64-	R. E. HOLDING	
19-095-05DD	413502104070601	124WSTC	WSE	GR SA	72-	MR. JOLLEY	
19-099-060CC	413850108362501	125FRUN	WSE	GR SA	63-	ROCK SPGS GRAZING ASSOC.	
20-092-11ACC	414335107431501	124WSTC	WSE	CF SA	62-	JOHN HANSEN	
20-100-250CD	414035108442001	211ALMD	WSE	GR SA	63-	USGS	
22-105-07AAD	415402109203601	124LNEY	WSE	GR SA	64-	SHEEP CO.	
25-106-27CCU	420615109265201	124LNEY	WSE	GR SA	65-	TOWN OF FARSON	

Table 5. Observation wells (continued)

WELL NUMBER	LAT-LONG-SEQ NO	GEOLOGIC UNIT	COOPERATOR	FIELD OFFICE	PERIOD OF RECORD	NAME OF OWNER	REMARKS
UINTA COUNTY		GREEN RIVER BASIN					
15-115-20C8A	411549110243501	111TRRC	WSE	GR M	57-	SCHOOL DISTRICT	
15-118-248CB	411607110404201	124WSTC	WSE	GR Q	64-		
UINTA COUNTY		BEAR RIVER BASIN					
16-121-11ACC	412249111015801	111TRRC	WSE	GR BM	55-	ELWIN SESSIONS	
WESTON COUNTY		MISSOURI RIVER BASIN					
45-061-33AB	435030104110001	33/PHSP	WSE	CH A	75-	CORONADO CU. FARELLA BROS. BLACK HILLS POWER AND LIG HT TERRA RESOURCES WESTON COUNTY TOWN OF UPTON	
46-061-298AC	435628104123401	337PHSP	WSE	C A	69-		
46-063-090B	435840104253001	217LKOT	WSE	C BM	69-		
46-066-2508B	435610104433001	331MDSN	WSE	CH C	62.75-		
47-060-04ADA	440500104434001	337PHSP	WSE	SD M	72.75-		
48-065-35CB	440645104365601	337PHSP	WSE	CH M	76-		

WATER-RESOURCES APPRAISAL PROJECTS

The numerous water-resources appraisal projects being made in Wyoming are described below. The areas of project activity are shown in figure 10.

Flood investigations in Wyoming

(Project WY 59-010)

Funds: Wyoming Highway Department and U.S. Geological Survey

The main objective is to obtain sufficient basic hydrologic data to define the magnitude and frequency of floods on a regional basis for the entire state and to publish the interpretative analyses in easily usable form. On request from the cooperator, flood-flow characteristics of streams at specific sites will be determined by studying such factors as: history of past floods; distribution of flow across the flood-plain and main channel; and mean velocities in the main channel and overflow areas.

Flood-hazard information, House Document 465

(Project WY 73-022)

Funds: U.S. Federal Insurance Agency (HUD) and U.S. Geological Survey

The objective is to delineate flood-prone areas on U.S. Geological Survey 7½' quadrangles and distribute copies of the maps to any one who can use them. Quadrangles selected are those covering major streams, with priority given to urban areas. The estimated 100-year flood is the basis for the delineation.

Water resources of Weston County, Wyoming

(Project WY 74-026)

Funds: Wyoming State Engineer and U.S. Geological Survey

The objectives are to determine: (1) The distribution (areally and vertically) and the thickness of each of the principal aquifers or aquifer systems; (2) the movement of water in each of the principal aquifers or aquifer systems; (3) the hydraulic characteristics for each principal aquifer or aquifer system; (4) the water-bearing properties of subordinate aquifers; (5) the volume of ground water in storage; (6) the quality of water in each aquifer; (7) the quantity of runoff from small watersheds; (8) the quality of runoff at gage sites; (9) the effect of ground-water withdrawal on water levels; and (10) to evaluate the potential for artificial recharge.

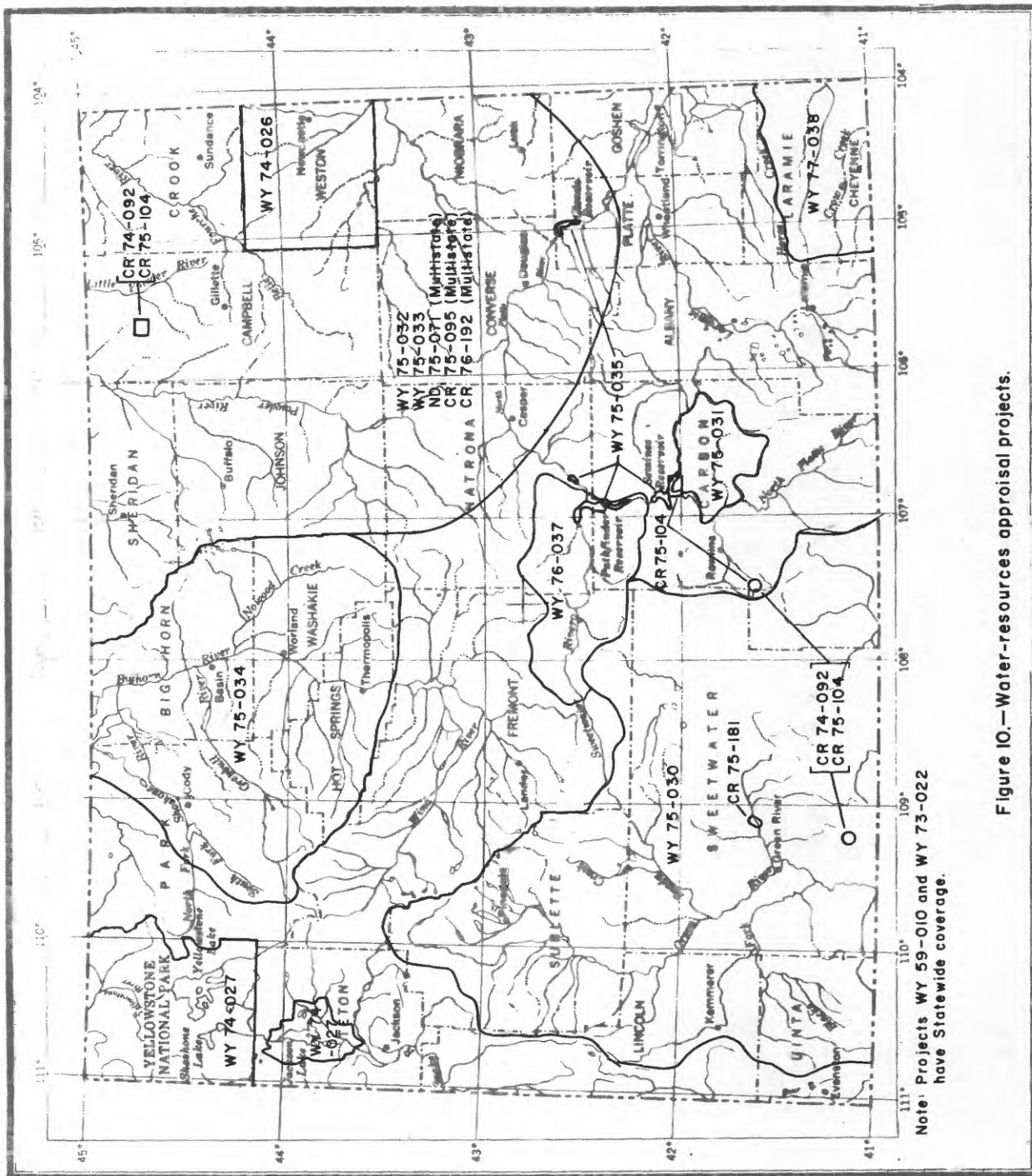


Figure 10.—Water-resources appraisal projects.

Monitoring waste-water effluent in Yellowstone
and Grand Teton National Parks, Wyoming

(Project WY 74-027)

Funds: National Park Service and Teton County

The objectives are to determine: (1) Position of the water table and its relation to percolation ponds and nearby surface-water bodies; (2) the slope of the water table and thus the direction of movement of the effluent; (3) ground-water velocities and thus the time of travel of effluent from pond to surface-water body; (4) the vertical zone of movement of the effluent; and (5) baseline water quality in the shallow aquifers in the vicinity of the percolation ponds.

Water and its relation to economic development
in the Green River and Great Divide basins in Wyoming

(Project WY 75-030)

Funds: U.S. Geological Survey, with basic-data support funds from
U.S. Bureau of Land Management

The study is designed to gather information and make available to interested industrial, agricultural, and governmental people, interpretive reports that describe: (1) The distribution and quality of surface water in space and time; (2) relationships between surface water and ground water; (3) the distribution, quantity, and quality of ground water; and (4) hydrology-related aspects of the environment. Efforts of the study are directed toward: (1) Describing the water resources and hydrologic relationships that presently exist; (2) developing predictive methods that may be used to describe future conditions, including reactions to increased water development; and (3) establishing monitoring programs for detecting possible changes in water parameters.

Impacts of economic development and water use
on water resources in the Hanna basin in Wyoming

(Project WY 75-031)

Funds: U.S. Geological Survey and U.S. Bureau of Land Management

The objectives of the project are to describe the present characteristics of the hydrologic environment, to monitor changes in it, and to evaluate the effects of those changes. On the surface, peak and annual flows, channel geometry, sedimentation rates, erosion rates, uses, and quality of water will be investigated. In the subsurface, aquifer characteristics, ground-water uses, and pumping amounts will be estimated.

The approach will be to: (1) Describe streamflow conditions--evaluate past records, establish three gaging sites for flow measurements, sediment sampling, and chemical quality (use channel-geometry methods where necessary); and (2) define aquifer characteristics--perform aquifer tests, draw potentiometric maps, analyze water quality, and identify recharge and discharge areas. The three gaging stations, Hanna Draw near Hanna, North Ditch near Coyote Springs, and Big Ditch near Coyote Springs are included in the lists of streamflow, chemical-quality and sediment stations.

Water resources of the Powder River structural
basin in Wyoming in relation to energy development

(Project WY 75-032)

Funds: U.S. Geological Survey, with basic-data support funds from U.S. Bureau of Land Management and U.S. Environmental Protection Agency

The study is designed to gather information and make available to industrial, governmental, and other interested people, interpretive reports that describe the water supply in the area and the possible impact of planned development on the water resources.

A planning report was prepared during the first year of the project, outlining the approach to be used in the study. Techniques included are those for determination of aquifer properties, streamflow analysis, channel geometry, isotope study, biological assay, water budgets, modeling, and geophysics.

Hydrology of Paleozoic rocks in the Powder River
basin and adjacent areas, northeastern Wyoming

(Project WY 75-033)

Funds: U.S. Geological Survey

The project is designed to derive a conceptual model of the aquifer system to better predict the quantity and quality of water available from the Paleozoic rocks and to predict some of the effects of its development. Principal objectives are to determine: (1) The distribution, thickness and physical properties of the aquifer system; (2) processes that developed the present distribution of aquifer parameters in order to extend point data to other parts of the aquifer system; (3) the potentiometric surface and chemical quality of the water in the aquifer system; and (4) the effects of increased development of water from the aquifer system.

Evaluation of selected Paleozoic and flood-plain aquifers
in the Bighorn basin, north-central Wyoming

(Project WY 75-034)

Funds: Wyoming State Engineer and U.S. Geological Survey

The primary objectives are: (1) To ascertain to the extent possible the safe yield of the aquifer system in the Paleozoic rocks without causing a substantial decrease in the ground-water storage or a significant decrease in the amount of artesian pressure, and (2) to delineate areas of the flood-plain alluvium where additional well pumpage will not cause appreciable decrease in ground-water storage or affect the flow of streams adjoining the flood plains. The present study will be concentrated in the Ten Sleep area in the eastern part of the basin; based on results, recommendations will be made regarding additional studies elsewhere in the basin.

Algal-growth potential of principal
North Platte River reservoirs in Wyoming

(Project WY 76-035)

Funds: U.S. Geological Survey (Missouri River basin program)

Eutrophic conditions may be developing in one or more of the four major reservoirs on the North Platte River (Seminoe, Pathfinder, Alcova, and Glendo). Oxygen depletion could have an adverse effect on recreational use of the reservoirs and on fish habitat. Development of mineral resources, particularly coal mining, is taking place at locations adjacent to one of the reservoirs. There is no information about the present state of algal growth with which to evaluate the seriousness of the problem, to evaluate changes caused by mining activities, or to predict future trends.

The objectives of the study are to: (1) Determine the extent of algal growth in the four major reservoirs; (2) evaluate trends in algal-growth potential, including effects of effluent from coal-mining activities adjacent to the reservoirs; and (3) determine the feasibility of developing a model for predicting algal growth.

The first three years will be devoted exclusively to data collection, with analysis of data and preparation of a report scheduled for the fourth year. Vertical-profile water samples will be collected monthly (May-October) from a boat at sites above the dams and in the principal arms of each reservoir. Sampling will also be done twice each winter. Field parameters will include dissolved oxygen and temperature. Laboratory parameters will include NH_4 , $\text{NO}_2 + \text{NO}_3$, P, residue, and AGP. A set of phytoplankton samples will be collected each year in early spring and in late summer for identification of genera. Graphical and statistical techniques, such as regression, will be used.

Preliminary digital model of the Arikaree aquifer
in the Sweetwater River basin, central Wyoming

(Project WY 76-037)

Funds: Wyoming State Engineer and U.S. Geological Survey

The objectives of this study are: (1) To develop a preliminary digital model of the Arikaree aquifer in the Sweetwater River basin; (2) to define the existing stream-aquifer relationship; and (3) to evaluate the feasibility of developing a comprehensive digital model of the Arikaree aquifer.

Quantitative study of the Tertiary aquifers in
southern Laramie County, Wyoming

(Project WY 77-038)

Funds: Wyoming State Engineer, Wyoming Department of Economic Planning and Development, and U.S. Geological Survey

The objectives are to: (1) Determine the extent of ground-water development for irrigation, industry, and public supply and describe the effect of this development on water levels and stream discharge in the study area, and (2) provide a means of predicting the effects of alternative ground-water management decisions.

Availability of ground water from the Cretaceous and
Tertiary aquifers of the Fort Union Coal Region

(Project ND 75-071)

Funds: U.S. Geological Survey

This investigation is a compilation of existing data from South Dakota, North Dakota, Montana, and Wyoming of the Tertiary rocks and aquifers overlying the Pierre Shale. The objectives of the investigation are: (1) To determine the location, extent, and nature of the aquifers and confining beds; (2) to evaluate the occurrence and movement of ground water, including the sources of recharge and discharge; and (3) to determine the chemical quality of the ground water. This project is being done by the North Dakota District, Water Resources Division, U.S. Geological Survey, headquartered in Bismarck, North Dakota.

Runoff and sediment yield from rainfall simulation

(Project CR 74-092)

Funds: U.S. Geological Survey and U.S. Bureau of Land Management

During the summer of 1976 rainfall simulation studies were conducted at three EMRIA (Energy Mineral Rehabilitation Inventory and Analysis) locations in Wyoming. These were at Potter Mountain near Rock Springs, Red Rim near Rawlins, and White Tail Butte near Recluse.

Simulated rainstorms of about 1.5 inches in 45 minutes were applied to small watersheds of about 3,000 square feet at eleven different sites within these study areas. The purpose of the studies was to characterize the hydrologic properties of undisturbed areas prior to mining. Runoff and sediment production from these simulated storms are being related to slope, vegetative cover, soil texture, root development, and antecedent moisture.

Plans for operations in Wyoming during 1977 are not definite.

Geochemical survey of waters of
the western coal regions

(Project CR 75-095)

Funds: U.S. Geological Survey

It is the goal of this project to efficiently provide data on the "natural" or pre-development geochemistry of the waters of the western coal regions, with particular emphasis on trace elements that may have a relationship to health and disease in humans and animals.

To date, sampling and data interpretation of ground water in the Fort Union Coal Region has been completed. Sampling of ground water in the Powder River basin of Montana and Wyoming has been completed, but laboratory results are pending.

Reconnaissance techniques for evaluating the
rehabilitation potential of energy lands

(Project CR 75-104)

Funds: U.S. Geological Survey and U.S. Bureau of Land Management

The Public Lands Hydrology Program is participating in EMRIA studies in cooperation with the BLM at four locations in Wyoming as the main activity of this project. The purposes are: (1) To provide baseline data in map and graphic form on vegetation, soil-vegetation-water relations, soil erodibility, and sediment yields; (2) to estimate what effect surface

mining would have on the above parameters; and (3) to recommend measures for minimizing environmental damage if mining occurs. Data have been gathered at the following locations: Hanna study area near Hanna, Potter Mountain near Rock Springs, Red Rim near Rawlins, and White Tail Butte near Recluse. Contributions were made to an Inter-Agency administrative report on the Hanna study area which was released by BLM in 1975. Contributions to the Inter-Agency report for the Red Rim are in review. Contributions for the Potter Mountain and White Tail Butte reports will be prepared in 1977.

Another activity of this project is the preparation of a source-area sediment-yield map of the areas upstream of the outcrops of surface-minable coal in Campbell County, Wyoming. The purpose of the map is to provide estimates of sediment yield from small watershed areas in order to have a baseline with which to assess possible changes in sediment yield caused by surface mining. The map will be based on sediment surveys of 21 stock reservoirs and characteristics of the associated watersheds in Campbell County, in addition to an earlier sediment-yield study in the Upper Cheyenne River basin of Wyoming. A draft map of the center one-third of Campbell County was prepared in 1976 and preparation of draft maps of the other two-thirds of the county is planned for late 1977.

A third activity of this project is a cooperative study with the Wyoming District, Water Resources Division and the Regional Geochemistry Branch, Geologic Division at the abandoned Hidden Water mine near Ranchester, Wyoming. The purpose of the study is to compare the sediment yield and geochemistry of a small unmined watershed and an adjacent watershed that was surface-mined about 25 years ago but never rehabilitated. Sediment surveys were completed in reservoirs at the mouths of the watersheds and samples were obtained of hillslope, channel and reservoir bottom material for particle size and elemental analyses in the fall of 1976. A report on this study will be prepared in 1977.

Sorption of residual organic substances in retort
waters by spent oil-shale residues

(Project CR 75-181)

Funds: U.S. Geological Survey

The analytical techniques used to concentrate, separate, and classify natural organic solutes in water (Leenheer and Huffman, 1976) were scaled up and applied to aqueous-process wastes from oil-shale retorting operations such that gram-sized quantities of these waste organic solutes were isolated for further study. This large-scale separation was necessary for the study of the sorption of these waste organic solutes upon processed shale, soil, and sediment after disposal of the aqueous-process wastes. The goal of this research is to provide the analytical methodology which can be used to provide the sorption parameters needed in organic-solute transport models of wastes in surface and ground water.

Hydrology of the Madison aquifer

(Project CR 76-192)

Funds: U.S. Geological Survey

The objectives of the project are to evaluate the Madison Limestone and associated rocks as a source for water supplies and to provide the necessary information for an orderly development of the aquifer. The study area includes 188,000 square miles in eastern Montana, western North and South Dakota, a small part of northwestern Nebraska, and north-eastern Wyoming. The Wyoming part comprises about 32,000 square miles.

During calendar year 1976, as a part of the regional evaluation of the geology, hydrology, and geochemistry of the Madison aquifer, a 4,341-foot test well was completed and another test well to be drilled to a depth of about 9,800 feet was begun.

Madison Test Well No. 1, in section 15, T.57 N., R.65 W., Crook County, Wyo., was completed as a Precambrian test in October 1976. Twenty-two cores were taken at selected intervals and 16 drill-stem and packer tests were made. Geophysical logs available include electric, induction electric, gamma, guard, neutron, acoustic, density, 3-dimensional velocity, temperature, and caliper.

Madison Test Well No. 2 was begun November 17, 1976. It is in section 18, T.1 N., R.54 E., Custer County, Mont.

SELECTED REFERENCES

A listing of selected references of publications by the U.S. Geological Survey is given in the pamphlet "Water Resources Investigations in Wyoming, 1976". A more complete State list of reports is given in a pamphlet "Geologic and Water-Supply Reports and Maps--Wyoming". Both pamphlets may be obtained free on application to the Wyoming District Office of the U.S. Geological Survey.

Listed below are additional selected references of recent publications not given in the pamphlets previously mentioned.

- Hadley, R. F., and Keefer, W. R., 1975, Some potential effects of surface mining of the Wyodak-Anderson coal in the Gillette area, Campbell County, Wyoming: U.S. Geol. Survey Misc. Geol. Inv. Map I-848-F.
- Keefer, W. R., and Hadley, R. F., 1976, Land and natural resource information and some potential environmental effects of surface mining in the Gillette area, Wyoming: U.S. Geol. Survey Circ. 743, 27 p.
- Leenheer, J. A., and Huffman, E. W. D., Jr., 1976, Classification of organic solutes in water using macroreticular resins: Jour. Research U.S. Geol. Survey, v. 4, no. 6, p. 737-751.
- Lusby, G. C., and Toy, T. J., 1976, An evaluation of surface-mine spoils area restoration in Wyoming using rainfall simulation: Earth Surface Processes, v. 1, p. 375-386.