

# BIBLIOGRAPHY OF REPORTS BY U.S. GEOLOGICAL SURVEY AUTHORS ABOUT THE WATER RESOURCES OF WYOMING

## Listed by Major Area of Wyoming

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## ABOUT THIS BIBLIOGRAPHY

Since the late 19th Century, long before the first U.S. Geological Survey (USGS) office was opened in Wyoming, USGS scientists have been investigating the geology and water resources of the State and publishing their findings. The main product of all USGS work in Wyoming comprises the published reports of those investigations—mostly maps and book reports of the USGS, but also articles in scientific journals, guidebooks, conference proceedings, and publications of Wyoming State agencies.

**Criteria for Inclusion.**—In this bibliography we have attempted to include all reports that contain information about water in Wyoming and for which at least one author was a USGS employee during the reported investigation. A report published by USGS but written by an author who was not a USGS employee also would be included.

Reports of investigations that are regional (multi-State) in scope may contain new data or conclusions specific to Wyoming, or estimating procedures applicable to Wyoming—a method for estimating the magnitude of floods at ungaged sites, for example. Such reports are included in this bibliography. Reports of regional studies that contain analysis of previously published data for Wyoming but no conclusions specific to Wyoming generally are excluded, with the benefit of the doubt given to inclusion.

**Organization.**—Except for water-data reports and flood-prone area maps, the reports are listed alphabetically by author for four geographic areas delineated by the boundaries of major river basins, as shown on the index map below. Southeastern Wyoming, for example, is defined as the Wyoming part of the Platte River basin. The other areas are Northeastern Wyoming, Northwestern Wyoming, and Southwestern Wyoming. This organization works well for both surface-water reports and ground-water reports, because generally, the mountain ranges that control the boundaries of the major river basins in Wyoming also control the boundaries of the major aquifer systems. Reports of areas that include all or parts of two of the four major areas are listed under both areas and are cross-referenced. Reports of areas that include all or parts of three or all four major areas are listed under the category, Wyoming Statewide. Thus, users of this bibliography are reminded to include the Statewide listing in their search for reports of a specific area.

For the user's convenience, water-data reports (records of streamflow, water quality, and ground-water levels) are listed separately and chronologically by report type. Flood-prone area maps also are listed separately, by river basin.

**Availability of Listed Reports.**—Most USGS map and book reports published during the last 20 years or so, as well as many older reports, are available for purchase from USGS Branch of Information Services, Box 25286, Denver Federal Center, Lakewood CO 80225 (**1-888-ASK-USGS**; online at [http://mapping.usgs.gov/estic/to\\_order.html](http://mapping.usgs.gov/estic/to_order.html)). Many of the most recently published reports also are available on the World Wide Web in HTML or PDF format. The URLs for those reports are included in this listing.

As of 2004, there is a new way to search for bibliographic citations and availability of USGS reports and to obtain USGS report products. **USGS Publications Warehouse** at <http://pubs.usgs.gov> contains more than 60,000 bibliographic citations of numbered-series reports.

Also in 2004, the Survey began a huge project to scan and place online for viewing all numbered-series reports not currently online. To date more than 200 old reports about Wyoming water have been scanned. The URLs (suffix *.djvu*) are included in this listing. As additional historical Wyoming reports are scanned and placed online, they will be so noted in this bibliography. The free plug-in required for viewing *.djvu* files (for Microsoft and Netscape browsers), which are similar to PDF files, can be downloaded at [http://www.lizardtech.com/download/dl\\_download.php?detail=doc\\_djvu\\_plugin&platform=win](http://www.lizardtech.com/download/dl_download.php?detail=doc_djvu_plugin&platform=win) [spaces are underscores]

General information about availability of all reports listed in this bibliography, including loan copies, may be obtained by contacting the USGS Wyoming District Office at 2617 East Lincolnway, Suite B, Cheyenne WY 82001 (307-778-2931). *e-mail*: [dc\\_wy@usgs.gov](mailto:dc_wy@usgs.gov) Availability of reprints of journal

articles and other outside publications should be determined by contacting the publisher. Many of the reports are available through the Wyoming State Library system (online at <http://wyldweb.state.wy.us>).



### INDEX MAP OF WYOMING

Reports in this bibliography are listed by geographic area as indicated by shading on the map.

## SOUTHEASTERN WYOMING

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## WATER-RESOURCES DATA

Nearly all water-resources data (also called "records") collected by the U.S. Geological Survey (USGS) for hydrologic monitoring in Wyoming are published in the reports listed below. USGS began collecting "hydrographic" data in 1888 as part of its Irrigation Survey. Typically, data are collected continuously or intermittently at a station or well for a period of a few years to many decades. The stations and observation wells are referred to collectively as hydrologic-data networks. The reports also contain results of streamflow measurements and water-quality sampling at miscellaneous sites. Some data collected during short-term hydrologic investigations of specific areas, such as a county, however, are not included in the data reports listed below. Such data typically are published separately in open-file reports or are included in the interpretive reports of the investigations (see previous listings by geographic area).

Results of the earliest hydrographic work were published in the series, *Annual Reports of the United States Geological Survey to the Secretary of the Interior* (and in two USGS Bulletins). After creation of the Water-Supply Paper series in 1896, records of surface-water quantity and quality through water year 1970 were published in that series. Wyoming records are included in the volumes for the following areas: Part 6, Missouri River Basin; Part 9, Colorado River Basin (Green River Basin in Wyoming); Part 10, The Great Basin (Bear River Basin in Wyoming); and Part 13, Snake River Basin.

Two sets of "compilation" reports also were published in Water-Supply Papers. These reports summarize all monthly and yearly streamflow and reservoir data collected by USGS or furnished by other agencies. The first set includes the records collected through water year 1950; the second, the records collected during water years 1951-60.

Records of water levels and artesian pressures in observation wells were published in Water-Supply Papers annually for 1940-55 and at multiple-year intervals for 1956-60, 1961-65, 1966-70, and 1971-74. Wyoming records are included in the volumes for Part 5, Northwestern States (not the same area as surface-water Part 5)

Observation-well records for 1940-71 and 1972-73 also were compiled by USGS and published in reports of the Wyoming Water Planning Program (Wyoming State Engineer's Office). Records for the observation-well network for 1974-77 were published annually in USGS open-file reports. Records for 1978-95 were published in open-file reports at intervals of approximately 2 years; these reports include water-level hydrographs for the most recent 10 years.

In 1961 USGS initiated an annual series of unnumbered water-resources data reports for each State. Through water year 1974 the series is untitled, but the reports informally are called "annual data reports." Reports for water years 1961-63 contain only surface-water records; records of surface-water quality have been included since 1964. For water years 1964-74, surface-water records and water-quality records were published in separate volumes (parts 1 and 2), each covering the entire State. The records for water years 1961-65 and 1966-70 also were published in Water-Supply Papers; after 1970 the use of the Water-Supply Paper series for this purpose was discontinued.

Beginning with the 1975 report, the annual series is titled "Water-Data Reports," and the reports are numbered. Surface-water and surface-water-quality records for water years 1976-81 were combined, but published in two volumes—volume 1, Missouri River basin; and volume 2, the rest of the State. Reflecting a steadily decreasing number of stations, all data for the entire State for water years 1982-96 were published in a single volume. Selected observation-well data (from the open-file reports described above) were included in the reports for water years 1975-96. Beginning with the report for water year 1997, all observation-well-network data, including water-level hydrographs and water-quality data, are published in a separate volume (part 2) of the annual Water-Data Report. Publication of ground-water data biennially in open-file reports was discontinued.

### **Streamflow Data through 1897 (Earliest USGS Reports)**

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**[Lists discharge measurements of Yellowstone River at outlet of Yellowstone Lake (p. 86).]**
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**[Describes the first gaging station in Wyoming, Laramie River at Woods Landing, installed by the Wyoming State Engineer, Dec. 1888 (p. 239); however, see Thirteenth Annual Report below.]**
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**[Information about Wyoming stations on p. 289-298, 306-312, and 358-362.]**

### **Streamflow Data, 1896-1970 (USGS Water-Supply Papers)**

**Water-Supply Papers containing annual streamflow data, 1896-1960**

[Drainage-basin part: 6, Missouri River basin; 9, Colorado River basin; 10, The Great Basin; 13, Snake River basin; W, Water-Supply Paper]

Year	Drainage-basin part				Year	Drainage-basin part			
	6	9	10	13		6	9	10	13
1896	W11	W11	[no stas.]	[no stas.]	1930	W701	W704	W705	W708
1897	W15	W16	[no stas.]	[no stas.]	1931	W716	W719	W720	W723
1898	W27	W28	[no stas.]	[no stas.]	1932	W731	W734	W735	W738
1899	W37	W37	[no stas.]	W38	1933	W746	W749	W750	W753
1900	W49	W50	[no stas.]	[no stas.]	1934	W761	W764	W765	W768
1901	W66	W66	[no stas.]	[no stas.]	1935	W786	W789	W790	W793
1902	W84	W85	[no stas.]	[no stas.]	1936	W806	W809	W810	W813
1903	W99	W100	[no stas.]	[no stas.]	1937	W826	W829	W830	W833
1904	W130 W131	W133	[no stas.]	W135	1938	W856	W859	W860	W863
1905	W172	W175	[no stas.]	W178	1939	W876	W879	W880	W883
1906	W208	W211	[no stas.]	W214	1940	W896	W899	W900	W903
1907, 08	W246	[no stas.]	[no stas.]	W252	1941	W926	W929	W930	W933
1909	W266	[no stas.]	[no stas.]	W272	1942	W956	W959	W960	W963
1910	W286	W289	[no stas.]	W292	1943	W976	W979	W980	W983
1911	W306	W309	[no stas.]	W312	1944	W1006	W1009	W1010	W1013
1912	W326	W329	[no stas.]	W332	1945	W1036	W1039	W1040	W1043
1913	W356	W359	[no stas.]	W362	1946	W1056	W1059	W1060	W1063
1914	W386	W389	W390	W393	1947	W1086	W1089	W1090	W1093
1915	W406	W409	W410	W413	1948	W1116	W1119	W1120	W1123
1916	W436	W439	W440	W443	1949	W1146	W1149	W1150	W1153
1917	W456	W459	W460	W463	1950	W1176	W1179	W1180	W1183
1918	W476	W479	W480	W483	1951	W1209 W1210	W1213	W1214	W1217
1919, 20	W506	W509	W510	W513	1952	W1239 W1240	W1243	W1244	W1247
1921	W526	W529	W530	W533	1953	W1279 W1280	W1283	W1284	W1287
1922	W546	W549	W550	W553	1954	W1339 W1340	W1343	W1344	W1347
1923	W566	W569	W570	W573	1955	W1389 W1390	W1393	W1394	W1397
1924	W586	W589	W590	W593	1956	W1439 W1440	W1443	W1444	W1447
1925	W606	W609	W610	W613	1957	W1509 W1510	W1513	W1514	W1517
1926	W626	W629	W630	W633	1958	W1559 W1560	W1563	W1564	W1567
1927	W646	W649	W650	W653	1959	W1629 W1630	W1633	W1634	W1637
1928	W666	W669	W670	W673	1960	W1709 W1710	W1713	W1714	W1717
1929	W686	W689	W690	W693					

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- U.S. Geological Survey, compiler, 1974a, Surface water supply of the United States, 1966-70; Part 6. Missouri River basin; Volume 1. Missouri River basin above Williston, North Dakota: U.S. Geological Survey Water-Supply Paper 2116, 835 p.
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## Surface-Water-Quality Data, 1946-1970 (USGS Water-Supply Papers)

[Part 6, Missouri River basin; Parts 9, Colorado River basin; Part 10, The Great Basin; Part 13, Snake River basin]

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- U.S. Geological Survey, compiler, 1970b, Quality of surface waters of the United States, 1965; Parts 9-11. Colorado River basin to Pacific slope basins in California: U.S. Geological Survey Water-Supply Paper 1965, 678 p.
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### **Ground-Water Data, 1940-74 (USGS Water-Supply Papers)**

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- U.S. Geological Survey, 1977, Wyoming, in U.S. Geological Survey, compiler, Ground-water levels in the United States, 1971-74, Northwestern States: U.S. Geological Survey Water-Supply Paper 2161, p. 141-153.

### **Ground-Water Data, 1940-95 (State Reports & USGS Open-File Reports)**

(Also listed under Statewide Reports)

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- Ringen, B.H., 1974, Ground-water levels in Wyoming, 1972-1973: Wyoming State Engineer's Office, Wyoming Water Planning Program Report No. 13, Supplement no. 1, 158 p.
- Ballance, W.C., and Freudenthal, P.B., 1975, Ground-water levels in Wyoming, 1974: U.S. Geological Survey open-file report, 185 p.
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- Stevens, M.D., 1978, Ground-water levels in Wyoming, 1977: U.S. Geological Survey Open-File Report 78-605, 203 p.
- Ragsdale, J.O., 1982, Ground-water levels in Wyoming, 1971 through part of 1980: U.S. Geological Survey Open-File Report 82-859, 200 p.
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- Kennedy, H.I., and Oberender, C.B., 1987, Ground-water levels in Wyoming, 1976 through 1985: U.S. Geological Survey Open-File Report 87-456, 122 p.
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### **USGS Water-Data Reports (unnumbered), 1961-74**

[Listed chronologically. Dates and words in brackets do not appear on report cover or title page.]

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- U.S. Geological Survey, compiler, [1964], Surface water records of Wyoming, [water year] 1963: U.S. Geological Survey [water-data] report, 262 p.
- U.S. Geological Survey, compiler, [1965a], Surface water records of Wyoming, [water year] 1964: U.S. Geological Survey [water-data] report, 257 p.
- U.S. Geological Survey, compiler, [1965b], Water quality records in Wyoming, [water year] 1964: U.S. Geological Survey [water-data] report, 114 p.
- U.S. Geological Survey, compiler, [1966a], Water resources data for Wyoming, [water year] 1965; Part 1. Surface water records: U.S. Geological Survey [water-data] report, 274 p.

- U.S. Geological Survey, compiler, [1966b], Water resources data for Wyoming, [water year] 1965; Part 2. Water quality records: U.S. Geological Survey [water-data] report, 131 p.
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## USGS FLOOD-PRONE AREA MAPS

The 89th United States Congress (1966) recommended preparation of flood-prone area maps to quickly identify areas of probable flood hazard. USGS was assigned primary responsibility for delineating on topographic quadrangles (scale 1:24,000) approximate areas that would be inundated by a 100-year flood. The Federal Insurance Administration, U.S. Department of Housing and Urban Development, used the USGS maps to authorize flood insurance in communities waiting for detailed flood-hazard surveys. During 1972-77, and 1981-82, USGS personnel delineated flood-prone areas for Wyoming streams on parts of 234 quadrangles. The general method and the equation used to estimate the depths of 100-year floods in Wyoming streams are described in a report by *Burkham (1978)*, listed under *Wyoming Statewide* in this bibliography. The maps are reproduced in-house for free distribution upon request; however, users of these maps are cautioned that the maps are to be used only for general guidance about possible flood hazards. Official flood-insurance maps are available from the *Federal Emergency Management Agency* (online at <http://www.fema.gov/maps.shtm> ). The mapped quadrangles for Wyoming are listed below in downstream order by major geographic area.

## SOUTHEASTERN WYOMING

<p><b>North Platte River</b></p> <p>Saratoga Alcova Alcova SE Clarkson Hill Bessemer Mountain Emigrant Gap Goose Egg Bishop Casper Brookhurst Lockett Parkerton Glenrock Careyhurst Orpha Douglas</p>	<p>Orin Glendo Sibley Peak Cassa Herman Ranch Guernsey Reservoir Guernsey Fort Laramie Barnes Lingle (part of quad attached to Barnes quad) Habig Spring (part of quad attached to Cottier quad) Cottier Torrington Torrington SE Lyman (quad available from Nebraska District)</p>	<p><b>Laramie River</b></p> <p>Laramie SW Laramie Hightower Wheatland Dwyer Antelope Gap Wheatland NE Register Cliff</p> <p><b>Cheyenne Area</b></p> <p>Cheyenne North Cheyenne South Archer Altvan</p>
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**NORTHEASTERN WYOMING**

<p><b><i>Tongue River</i></b></p> <p>Dayton South Dayton North Wolf Ranchester Monarch Hultz Draw Sheridan Acme</p> <p><b><i>Powder River</i></b></p> <p>Kaycee Kaycee NE Figure 8 Reservoir Sussex House Creek Soldier Creek Fort Reno Hoe Ranch</p>	<p>Bowman Flat Juniper Draw Laskie Draw (part of quad attached to Juniper Draw quad) Sommerville Flats West Sommerville Flats East (part of quad attached to Sommerville Flats West quad) Mitchell Draw Livingston Draw Lariat Arvada Arvada NE Fawn Draw Cabin Creek SE Cabin Creek NE Black Draw Buffalo</p>	<p><b><i>Belle Fourche River</i></b></p> <p>Slaughter Reservoir (originally “The Forks;” quad available from South Dakota District)</p> <p><b><i>Cheyenne River Basin</i></b></p> <p>Newcastle Twenty-One Divide (quad available from South Dakota District)</p>
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**NORTHWESTERN WYOMING**

<p><b>Wind River</b></p> <p>Dubois  Mason Draw  Torrey Lake  Blue Holes  Wilderness  Crowheart NW (part of quad  attached to Crowheart quad)  Crowheart  Crowheart Butte  Bull Lake East  Argo Butte  Morton  Pavillion  St. Lawrence Basin  Wise Flat  Fort Washakie  Wind River (part of quad  attached to Fort Washakie  quad)  Ethete  Mule Butte  Pavillion SE  Mount Arter SE  Lander  Lander SE  Lander NW  Hudson  Arapahoe</p>	<p>Arapahoe NE  Riverton West  Riverton East  Riverton NE (part of quad  attached to Riverton East  quad)  Indian Butte  Hidden Valley  Wedding of the Waters  Bighorn River  Thermopolis  Banjo Flats West  Worland  Rairden  Ten Sleep  Wild Horse Hill  Hyattville  Weintz Draw  McDermotts Butte  Manderson SE  Manderson  Orchard Bench  Greybull South  Greybull North    Sheep Canyon  Spence  Alkali Creek (part of quad  attached to Spence quad)  Kane</p>	<p><b>Shoshone River</b></p> <p>Corbett Dam  Vocation  Ralston  Gilmore Hill NW  Gilmore Hill NopdE  Byron  Lovell  Lovell Lakes  Sykes Spring (part of quad  attached to Lovell Lakes  quad)</p> <p><b>Snake River</b></p> <p>Gros ventre Junction  Teton Village  Jackson  Cache Creek  Camp Davis  Munger Mountain  Pine Creek</p>
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**SOUTHWESTERN WYOMING**

<b>Green River</b>	<b>Blacks Fork &amp; Hams Fork</b>	<b>Henrys Fork</b>
Warren bridge	Buck Fever Ridge	Table Mountain
Signal Hill (part of quad attached to Warren Bridge quad)	Meeks Cabin Reservoir	Lonetree
Webb Draw	Piedmont Reservoir	Burntfork
Daniel Junction	Hague Creek	McKinnon
Cora	Robertson	Antelope Wash
Fremont Lake South	Leavitt Bench	
Pinedale	Guild Hollow	<b>Bear River</b>
Mt. Airy	Ragan	Myers Reservoir
Daniel	Leroy	Sulphur Springs Reservoir
Mesa Spring	Fort Bridger	Millis
Ross Butte	Mountain View	Evanston
Big Piney East	Turtle Hill	Murphy Ridge
Big Piney West	Little Dee Creek	Neponset Reservoir NE
Milleson Draw	Meadow Draw	Sawtooth Mountain
LaBarge SE (part of quad attached to LaBarge quad)	Bridger	Woodruff Narrows
LaBarge	Carter	Rex Peak
Names Hill	Austin Reservoir	Leefe
Fontenelle Reservoir SE	Millersville	South Lake
Fontenelle	Bell Butte NE	Cokeville
McCullen Bluff	Warfield Creek	Nugent Park
Thoman School	Bell Butte	Marse
Lombard Buttes	Elkol SW	Border (quad available from Utah District)
Big Island Bridge	Cumberland Gap	
Stevens Flat	Mulkay Spring	
Austin Ranch	Hampton	
Peru	Church Butte	
Green river	Verne	
Reliance	Elkol	
Rock Springs	Little Round Mountain	
Kanda	Willow Springs	
	Opal	
	Cow Hollow Creek	
	Church Butte NW	
	Moxa	
	Granger	
	Sevenmile Gulch (part of quad attached to Blue Point quad)	
	Blue Point	
	Little America	
	Bryan	