

BIBLIOGRAPHY OF U.S. GEOLOGICAL SURVEY WATER-RESOURCES REPORTS FOR UTAH, 1886-1993

Compiled by Ellen E. Hardy and Stefanie L. Dragos

U.S. GEOLOGICAL SURVEY

Open-File Report 94-309

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U.S. DEPARTMENT OF THE INTERIOR

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U.S. Geological Survey

INTRODUCTION

This bibliography contains a complete listing of reports prepared by personnel of the U.S. Geological Survey from 1886 through December 31, 1993, that discuss the water resources of Utah. The reports were prepared primarily by personnel of the Water Resources Division, Utah District, in cooperation with State, other Federal, and local agencies. Several reports were prepared as a part of studies directly funded by the U.S. Geological Survey, and several were prepared by contractors for the U.S. Geological Survey.

The bibliography is divided into three major parts: (1) publications of the U.S. Geological Survey; (2) publications prepared by the U.S. Geological Survey in cooperation with and published by agencies of the State of Utah; and (3) reports printed in other publications—reports prepared by the U.S. Geological Survey but published by other agencies or by professional organizations.

Publications of the U.S. Geological Survey still in print may be purchased from the U.S. Geological Survey, Earth Science Information Center, Open-File Reports Section, Box 25286, MS 517, Denver Federal Center, Denver, Colorado 80225. Publications that are out of print at the time of this compilation are marked with an asterisk (*). Except for water-supply papers, most publications that are out of print and unavailable for purchase may be examined at the U.S. Geological Survey Earth Science Information Center, 2222 West 2300 South, 2nd Floor, Salt Lake City, Utah 84119.

Reports published by the Utah Department of Natural Resources, Divisions of Water Rights and Water Resources, are available on request from these agencies or from the U.S. Geological Survey, Water Resources Division, Room 1016 Administration Building, 1745 West 1700 South, Salt Lake City, Utah 84104. Water-Resources Bulletins of the Utah Geological Survey may be purchased from that agency at 2363 Foothill Drive, Salt Lake City, Utah 84109-1491.

Inquiries as to the availability of reports listed as “reports printed in other publications” must be addressed to the professional organization or agency that published them. Most of these reports are available in larger libraries, such as the library of the University of Utah.

Most open-file reports are available for inspection at the U.S. Geological Survey, Water Resources Division, Room 1016 Administration Building, 1745 West 1700 South, Salt Lake City, Utah 84104. A small number of the open-file reports that have been duplicated as Utah basic- (or hydrologic-) data reports are free on request.

An index is included in this bibliography for ease of reference. Water-supply papers on the quantity and quality of ground and surface water in Utah that were published in a series are not listed separately in the index but are presented in tables 1 to 4.

PUBLICATIONS OF THE U.S. GEOLOGICAL SURVEY

Water-Supply Papers

The series of water-supply papers entitled "Water levels and artesian pressures in north-western States" contains records of ground-water-level measurements made throughout Utah. Utah reports published in this series from 1935 through 1974 are listed in table 1. Beginning with water year 1975, records of water levels and artesian pressures have been reported in the annual water-resources data reports for Utah (see "Water-resources data reports" section).

Table 1. *Water-supply papers containing records of water levels and artesian pressures in observation wells in Utah, 1935–74*
[WSP, water-supply paper; *, report is out of print]

Water year	WSP number	Water year	WSP number	Water year	WSP number	Water year	WSP number
1935	*777	1942	*948	1949	*1160	1956-60	*1760
1936	*817	1943	*990	1950	*1169	1961-65	*1845
1937	*840	1944	*1020	1951	*1195	1966-70	*1980
1938	*845	1945	*1027	1952	*1225	1971-74	2161
1939	*886	1946	*1075	1953	*1269		
1940	*910	1947	*1100	1954	*1325		
1941	*940	1948	*1130	1955	*1408		

The series of water-supply papers describing the surface-water supply of drainage basins in Utah from 1899 through 1970 is listed in table 2. Prior to 1899, surface-water records were published in annual reports (see "Annual reports" section). Beginning with water year 1961, surface-water records for Utah have been reported in the annual water-resources data reports for Utah (see "Water-resources data reports" section).

The series of water-supply papers entitled "Quality of surface waters of the United States" contains records of the chemical quality and temperature of surface water and the suspended-sediment load of streams. Utah reports published in this series from 1941 through 1970 are listed in table 3. Beginning with water year 1964, water-quality records for both surface and ground water have been reported in the annual water-resources data reports for Utah (see "Water-resources data reports" section).

The series of water-supply papers entitled "Quality of surface waters for irrigation, western United States" contains chemical-quality data for surface water used for irrigation. Utah reports published in this series from 1951 through 1965 are listed in table 4.

Table 2. *Water-supply papers containing records of surface-water supply for Utah, 1899–1970*

[WSP, water-supply paper; *, report is out of print; —, not applicable;
Part 9, Colorado River Basin; Part 10, Great Basin; Part 13, Snake River Basin;
parts 9, 10, and 13 were designated beginning with the reports for 1907]

Year	WSP number, Part 9	WSP number, Part 10	WSP number, Part 13	Year	WSP number, Part 9	WSP number, Part 10	WSP number, Part 13
1899	*38	—	—	1935	*789	*790	*793
1900	*50	—	—	1936	*809	*810	*813
1901	*66	—	—	1937	*829	*830	*833
	*75	—	—	1938	*859	*860	*863
1902	*85	—	—	1939	*879	*880	*863
1903	*100	—	—	1940	*899	*900	*903
1904	*133	—	—	1941	*929	*930	*933
1905	*175	—	—	1942	*959	*960	*963
	*176	—	—	1943	*979	*980	*983
1906	*211	—	—	1944	*1009	*1010	*1013
	*212	—	—	1945	*1039	*1040	*1043
1907	*249	*250	*252	1945	*1059	*1060	*1063
1908	*249	*250	*252	1947	*1089	*1090	*1093
1909	*269	*270	*272	1948	*1119	*1120	*1123
1910	*289	*290	292	1949	*1149	*1150	*1153
1911	*309	*310	*312	1950	*1179	*1180	*1183
1912	*329	*330	*332	1951	*1212	*1214	*1217
1913	*359	*360	*362	1952	*1243	*1244	*1247
1914	*389	*390	*393	1953	*1283	*1284	*1287
1915	*409	*410	*413	Compilation through Sept. 1950			
1916	*439	*440	*443		*1313	*1314	*1317
1917	*459	*460	*463				
1918	*479	*480	*483	1954	*1343	*1344	*1347
1919	*509	*510	*513	1955	*1393	*1394	*1397
1920	*509	*510	*513	1956	*1443	*1444	*1447
1921	*521	*530	*533	1957	*1513	*1514	*1517
1922	*549	*550	*553	1958	*1563	*1564	*1567
1923	*569	*570	*573	1959	*1633	*1634	*1637
1924	*589	*590	*593	1960	*1713	*1714	*1717
1925	*609	*610	*613	Compilation Oct. 1950 to*1733 Sept. 1960			
1926	*629	*630	*633				
1927	*649	*650	*653				
1928	*669	*670	*673	1961-65	¹ *1924	*1927	*1934
1929	*689	*690	*693		² *1925		
1930	*704	*705	*708		³ *1926		
1931	*719	*720	*723	1966-70	¹ *2124	*2127	*2134
1932	*734	*735	*738		² *2125		
1933	*749	*750	*753		³ *2126		
1934	*764	*765	*768				

¹WSP 1924 and 2124, Volume 1, Colorado River above Green River.

²WSP 1925 and 2125, Volume 2, Colorado River from Green River to Compact Point.

³WSP 1926 and 2126, Volume 3, Lower Colorado River Basin.

Table 3. *Water-supply papers containing records of quality of surface water in Utah, 1941-70*

[WSP, water-supply paper; *, report is out of print]

Year	WSP number	Year	WSP number	Year	WSP number	Year	WSP number
1941	*942	1949	*1163	1957	*1523	1965	*1965
1942	*950	1950	*1189	1958	*1574	1966	*1995
1943	*970	1951	*1200	1959	*1645	1967	*2015
1944	*1022	1952	*1253	1960	*1745	1968	2098
1945	*1030	1953	*1293	1961	*1885	1969	*2148
1946	*1050	1954	*1353	1962	*1945	1970	2158
1947	*1102	1955	*1403	1963	*1951		
1948	*1133	1956	*1453	1964	*1958		

Table 4. *Water-supply papers containing records of quality of surface water used for irrigation in Utah, 1951-65*

[WSP, water-supply paper; *, report is out of print]

Year	WSP number	Year	WSP number	Year	WSP number	Year	WSP number
1951	*1264	1955	*1465	1959	*1699	1963	*1952
1952	*1362	1956	*1485	1960	*1746	1964	*1960
1953	*1380	1957	*1524	1961	*1886	1965	*1967
1954	*1430	1958	*1575	1962	*1946		

WATER-SUPPLY PAPERS
[* indicates report is out of print]

Report number	
*7	Seepage water of northern Utah, Samuel Fortier, 1897.
*44	Profiles of rivers in the United States, Henry Gannett, 1901, p. 8-90.
*61	Preliminary list of deep borings in the United States, Part 2, N.H. Darton, 1902, p. 59-60.
*149	Preliminary list of deep borings in the United States, (2nd ed.), N.H. Darton, 1905, p. 156-157.
*157	Underground water in the valleys of Utah Lake and Jordan River, Utah, G.B. Richardson, 1906.
*199	Underground water in Sanpete and central Sevier Valleys, Utah, G.B. Richardson, 1907.
*217	Water resources of Beaver Valley, Utah, W.T. Lee, 1908.
*274	Some stream waters of the western United States, Herman Stabler, 1911.
*277	Ground water in Juab, Millard, and Iron counties, Utah, O.E. Meinzer, 1911.
*333	Ground water in Box Elder and Tooele Counties, Utah, Everett Carpenter, 1913.
*340	Stream-gaging stations and publications relating to water resources, 1885-1913, Part 9, Colorado River Basin, p. 105-116; Part 10, The Great Basin, p. 117-129; compiled by B.D. Wood, 1916.
*364	Water analyses from the laboratory of the United States Geological Survey, F.W. Clarke, 1914, p. 27-28, 38.
*380	The Navajo country, a geographic and hydrographic reconnaissance of parts of Arizona, New Mexico, and Utah, H.E. Gregory, 1916, p. 12-188.
*395	Colorado River and its utilization, E.C. LaRue, 1916.
*396	Profile surveys in the Colorado River basin in Wyoming, Utah, Colorado, and New Mexico, U.S. Geological Survey, 1916.
*420	Profile surveys along Henrys Fork, Idaho, and Logan River and Blacksmith Fork, Utah, U.S. Geological Survey, 1916.
*489	The occurrences of ground water in the United States, O.E. Meinzer, 1923, p. 182-183, 237-313.
*517	Water powers of the Great Salt Lake Basin, R.R. Woolley, 1924.
*520-F	Temperatures of water available for industrial use in the United States, W.D. Collins, 1925.
*538	The San Juan Canyon, southeastern Utah—A geographic and hydrographic reconnaissance, H.D. Miser, 1924, p. 71-78.

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Report number	
*556	Water power and flood control of Colorado River below Green River, Utah, E.C. LaRue, 1925.
*557	Large springs in the United States, O.E. Meinzer, 1927, p. 8-88.
*577	Plants as indicators of ground water, O.E. Meinzer, 1927.
*596-B	Quality of water of Colorado River in 1925-26, W.D. Collins and C.S. Howard, 1928.
*617	Upper Colorado River and its utilization, Robert Follansbee, 1929.
*618	The Green River and its utilization, R.R. Woolley, 1930.
*636-A	Quality of water of the Colorado River, W.D. Collins and C.S. Howard, 1929.
*636-B	Suspended matter in the Colorado River in 1925-28, C.S. Howard, 1930.
*638-D	Quality of water of the Colorado River in 1928-30, W.D. Collins and C.S. Howard, 1931.
*657	Water utilization in the Snake River Basin, W.G. Hoyt, 1935.
*659-A	A method of estimating ground-water supplies based on discharge by plants and evaporation from soil—results of investigations in Escalante Valley, Utah, W.N. White, 1932.
*679-B	Thermal springs in the United States, N.D. Stearns, H.T. Stearns, and G.A. Waring, 1937, p. 108-109, 112-113, 179-183.
*771	Floods in the United States, magnitude and frequency, C.S. Jarvis and others, 1936.
*796-D	Geology and ground-water resources of Ogden Valley, Utah, R.M. Leggette and G.H. Taylor, 1937.
*836-C	Artesian-water levels and interference between artesian wells in the vicinity of Lehi, Utah, G.H. Taylor and H.E. Thomas, 1939.
*847	Maximum discharges at stream-measurement stations through December 31, 1937, G.R. Williams and L.C. Crawford, 1940.
*918	Summary of records of surface waters at base stations in Colorado River Basin, 1891-1938, W.E. Dickinson, 1944.
*920	Utilization of surface-water resources of Sevier Lake basin, Utah, R.R. Woolley, 1947.
*993	Geology and ground-water resources of Cedar City and Parowan valleys, Iron County, Utah, H.E. Thomas and G.H. Taylor, 1946.
*994	Cloudburst floods in Utah, 1850-1938, R.R. Woolley, 1946.

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Report number	
*995	Index to river surveys made by the United States Geological Survey and other agencies revised to July 1, 1947, B.E. Jones and R.O. Helland, 1948, p. 102-110.
*998	Suspended sediment in the Colorado River, 1925-41, C.S. Howard, 1947.
*1029	Ground water in the Jordan Valley, Utah, G.H. Taylor and R.M. Leggette, 1949.
*1049	Summary of records of surface water at stations on tributaries in Lower Colorado River Basin, 1888-1938, U.S. Geological Survey, 1947.
*1260-E	Floods of April-June 1952 in Utah and Nevada, W.P. Somers and others, 1957.
*1260-F	Summary of floods in the United States during 1952, U.S. Geological Survey, 1959, p. 700.
*1300	The industrial utility of public water supplies in the United States, 1952, Part 2, States west of the Mississippi River, E.W. Lohr and S.K. Love, 1954, p. 421-431.
*1320-E	Summary of floods in the United States during 1953, U.S. Geological Survey, 1959, p. 351.
*1360-A	Reservoirs in the United States, N.O. Thomas and G.E. Harbeck, Jr., 1956.
*1374	Preliminary survey of the saline-water resources of the United States, R.A. Krieger, J.L. Hatchett, and J.L. Poole, 1957.
*1423	Phreatophytes, T.W. Robinson, 1958.
*1475-G	Water-supply possibilities at Capitol Reef National Monument, Utah, I.W. Marine, 1962.
*1475-M	Ground-water resources of the Bryce Canyon National Park area, Utah, I.W. Marine, 1963.
*1475-N	Hydrology and stock-water development on the public domain of western Utah, C.T. Snyder, 1963.
*1535-J	Chemical composition of snow in the northern Sierra Nevada and other areas, J. H. Feth, S.M. Rogers, and C.E. Roberson, 1964.
*1544-H	A water budget for the artesian aquifer in Ogden Valley, Weber County, Utah, <i>in</i> Methods of collecting and interpreting ground-water data, H.E. Thomas, 1963, p. H63-H97.
*1547	Inventory of published and unpublished sediment-load data, United States and Puerto Rico, 1950-60, K.F. Harris, 1962.
*1587	Water resources of the Raft River basin, Idaho-Utah, R.L. Nace, S.W. Fader, and H.G. Sisco, 1961.
*1619-K	Hydrogeology of Middle Canyon, Oquirrh Mountains, Tooele County, Utah, J.S. Gates, 1963.

WATER-SUPPLY PAPERS—Continued

Report number	
*1660-B	Summary of floods in the United States during 1958, U.S. Geological Survey, 1963.
*1683	Magnitude and frequency of floods in the United States, Part 9, Colorado River Basin, J.L. Patterson and W.P. Somers, 1966.
*1684	Magnitude and frequency of floods in the United States, Part 10, The Great Basin, Elmer Butler, J.K. Reid, and V.K. Berwick, 1966.
1688	Magnitude and frequency of floods in the United States, Part 13, Snake River Basin, C.A. Thomas, H.C. Broom, and J.E. Cummans, 1963.
*1750-B	Summary of floods in the United States during 1959, U.S. Geological Survey, 1964.
*1786	Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961, T.H. Woodard and S.G. Heidel, 1964.
*1787	Ground-water conditions and storage in the Central Sevier Valley, Utah, R.A. Young and C.H. Carpenter, 1965.
*1790-B	Summary of floods in the United States during 1960, J.O. Rostvedt, 1965, p. 109-110.
*1794	Ground-water resources of Pavant Valley, Utah, R.W. Mower, 1965.
*1800	The role of ground water in the national water situation, C.L. McGuinness, 1963, p. 864-887.
*1810	Summary of floods in the United States during 1961, J.O. Rostvedt, 1965, p. 77-82.
*1812	Public water supplies of the 100 largest cities in the United States, C.N. Durfor and Edith Becker, 1964, p. 343-346.
*1820	Summary of floods in the United States during 1962, J.O. Rostvedt and others, 1968.
*1822	Two simplified variations of a method for computing ground-water pumpage, G.W. Sandberg, 1966, p. 114-117.
*1830-B	Summary of floods in the United States during 1963, J.O. Rostvedt and others, 1968.
*1836	Ground-water conditions and geologic reconnaissance in the Upper Sevier River basin, Utah, C.H. Carpenter, G.B. Robinson, Jr., and L.J. Bjorklund, 1967.
*1838	Reservoirs in the United States, R.O.R. Martin and R.L. Hanson, 1966, p. 8, 99-101, 113.

WATER-SUPPLY PAPERS—Continued

Report number	
*1839-E	Causes of fluctuations in the rate of discharge of Clear Lake Springs, Millard County, Utah, R.W. Mower, 1967.
*1840-C	Summary of floods in the United States during 1964, J.O. Rostvedt and others, 1970.
*1848	Ground-water resources of the Sevier River basin between Yuba Dam and Leamington Canyon, Utah, L.J. Bjorklund and G.B. Robinson, Jr., 1968.
*1854	Ground-water hydrology of the Sevier Desert, Utah, R.W. Mower and R.D. Feltis, 1968.
*1870-A	Floods of December 1966 in southwestern Utah, Elmer Butler and J.C. Mundorff, 1970.
*1871	Water data for metropolitan areas, compiled by W.J. Schneider, 1968.
*1875	Correlative estimates of streamflow in the Upper Colorado River Basin, L.E. Carroon, 1970.
1887	Maximum floodflows in the conterminous United States, J.R. Crippen and C.D. Bue, 1977.
*1896	Ground-water hydrology of the San Pitch River drainage basin, Sanpete County, Utah, G.B. Robinson, Jr., 1971.
*2009-C	Chemical quality of surface water in the Flaming Gorge Reservoir area, Wyoming and Utah, R.J. Madison and K.M. Waddell, 1973.
2039-A	Chemical quality and temperature of water in Flaming Gorge Reservoir, Wyoming and Utah, and the effect of the reservoir on the Green River, E.L. Bolke and K.M. Waddell, 1975.
2052	Floods of September 1970 in Arizona, Utah, Colorado, and New Mexico, R.H. Roeske, M.E. Cooley, and B.N. Aldridge, 1978.
2057	Hydrology and surface morphology of the Bonneville Salt Flats and Pilot Valley playa, Utah, G.C. Lines, 1979.
2058	Dissolved-oxygen depletion and other effects of storing water in Flaming Gorge Reservoir, Wyoming and Utah, E.L. Bolke, 1979.
2060	Simulation analysis of the unconfined aquifer, Raft River geothermal area, Idaho-Utah, W.D. Nichols, 1979.
2068	Hydrologic reconnaissance of the Wasatch Plateau-Book Cliffs coal-fields area, Utah, K.M. Waddell, C.T. Sumsion, J.R. Butler, and P.K. Contratto, 1981.
2074	Geochemistry of spring water, southeastern Uinta Basin, Utah and Colorado, B.A. Kimball, 1981.

WATER-SUPPLY PAPERS—Continued

Report number	
2195	Hydrology of the Ferron Sandstone aquifer and effects of proposed surface-coal mining in Castle Valley, Utah, G.C. Lines and D.S. Morrissey, 1981.
2224	Quality and quantity of streamflow in the southeastern Uinta Basin, Utah and Colorado, K.L. Lindskov and B.A. Kimball, 1984.
2232	Ground water in Utah's densely populated Wasatch Front area-the challenge and the choices, Don Price, 1985.
2246	Hydrology of the Price River basin, Utah, with emphasis on selected coal-field areas, K.M. Waddell, J.E. Dodge, D.W. Darby, and S.M. Theobald, 1986.
2247	Chemical and physical characteristics of water and sediment in Scofield Reservoir, Carbon County, Utah, K.M. Waddell, D.W. Darby, and S.M. Theobald, 1986.
2248	Ground water in the southeastern Uinta Basin, Utah and Colorado, W.F. Holmes and B.A. Kimball, 1987.
2250	National Water Summary 1983—Hydrologic events and issues, U.S. Geological Survey, 1984, p. 19-22, 218-220.
2259	The ground-water system and possible effects of underground coal mining in the Trail Mountain area, central Utah, G.C. Lines, 1985.
2275	National Water Summary, 1984—Ground-water resources, U.S. Geological Survey, 1985, p. 3-33, 415-420.
2300	National Water Summary, 1985—Surface-water resources, U.S. Geological Survey, 1986, p. 45-460.
2325	National Water Summary, 1986—Ground-water quality, U.S. Geological Survey, 1986, p. 493-500.
2332	Hydrologic characteristics of the Great Salt Lake, Utah: 1847-1986, Ted Arnow and D.W. Stephens, 1990.
2350	National Water Summary, 1987—Water supply and use, U.S. Geological Survey, 1987, p. 491-499.
2375	National Water Summary, 1988-89—Floods and droughts, 1991, p. 527-533.
2400	National Water Summary, 1990-91—Hydrologic Events and Stream Water Quality, U.S. Geological Survey, 1993, p. 19-22, 517-524.

WATER-RESOURCES DATA REPORTS

[* indicates report is out of print]

Year	
*1961-64	Surface-water records of Utah.
*1964	Water-quality records in Utah.
*1965-74	Water resources data for Utah, Part I—Surface-water records Part II—Water-quality records.
1975-present	Water resources data for Utah.
Water year	Report number
*1975	UT-75-1
*1976	UT-76-1
*1977	UT-77-1
*1978	UT-78-1
*1979	UT-79-1
*1980	UT-80-1
1981	UT-81-1
Report number	
*UT-82-1	Water resources data—Utah, Water Year 1982, M.D. ReMillard and others.
UT-83-1	Water resources data—Utah, Water Year 1983, M.D. ReMillard and others.
UT-84-1	Water resources data—Utah, Water Year 1984, M.D. ReMillard and others.
UT-85-1	Water resources data—Utah, Water Year 1985, M.D. ReMillard and others.
UT-86-1	Water resources data—Utah, Water Year 1986, M.D. ReMillard and others.
UT-87-1	Water resources data—Utah, Water Year 1987, M.D. ReMillard and others.
UT-88-1	Water resources data—Utah, Water Year 1988, M.D. ReMillard and others.
UT-89-1	Water resources data—Utah, Water Year 1989, L.R. Herbert and others.
*UT-90-1	Water resources data—Utah, Water Year 1990, D.D. Carlson and others.
UT-91-1	Water resources data—Utah, Water Year 1991, M.D. ReMillard and others.
UT-92-1	Water resources data—Utah, Water Year 1992, M.D. ReMillard and others.

PROFESSIONAL PAPERS [* indicates report is out of print]

Report number	
*135	The composition of the river and lake waters of the United States, F.W. Clarke, 1924.
*228	Geology and geography of the Henry Mountains region, Utah, C.B. Hunt, 1953.
*257-A	Lake Bonneville: Geology of northern Utah Valley, Utah, C.B. Hunt, H.D. Var- nes, and H.E. Thomas, 1953.
*372-F	Effects of drought in the Colorado River basin, H.E. Thomas and others, 1963.
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