

BIBLIOGRAPHY OF SELECTED WATER-RESOURCES INFORMATION FOR THE ARKANSAS RIVER BASIN IN COLORADO THROUGH 1985

by John M. Kuzmiak and Hyla H. Strickland

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BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

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For additional information write to:

District Chief
U.S. Geological Survey
Box 25046, MS 415
Denver Federal Center
Denver, CO 80225

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CONVERSION FACTORS

Multiply	By	To obtain
square mile (mi^2)	2.590	square kilometer

Bibliography of Selected Water-Resources Information for the Arkansas River Basin in Colorado Through 1985

By John M. Kuzmiak and Hyla H. Strickland

Abstract

The Arkansas River basin composes most of southeastern Colorado, and the numerous population centers and vast areas of agricultural development are located primarily in the semiarid part of the basin east of the Continental Divide. Because effective management and development of water resources in this semiarid area are essential to the viability of the basin, many hydrologic data-collection programs and investigations have been done. This report contains a bibliography of selected water-resources information about the basin, including regularly published information and special investigations, from Federal, State, and other organizations. To aid the reader, the information is indexed by author, subject, county, and hydrologic unit (drainage basin).

INTRODUCTION

Major changes in the use of water and the quality of water in the Arkansas River basin (fig. 1) are affecting many water users in the basin. Surface-water supplies are provided by a complex water-supply system of transmountain diversions, reservoir storage, and development of the hydraulically connected alluvial aquifer. To assess the effects of the changes in water use on the water quantity and quality in the basin, the U.S. Geological Survey, in cooperation with the Southeastern Colorado Water Conservancy District, in 1981 began the development of a model capable of simulating these effects. Because of the large quantity of hydrologic data and the many interpretive reports that have been published about the water resources in the basin, a bibliography was needed to provide a better understanding of those resources. Therefore, in 1985, the U.S. Geological Survey began preparation of such a bibliography.

Purpose and Scope

This report provides a compilation of selected water-resources information about the Arkansas River basin that was available through 1985. The report includes tables listing the contents and availability of periodically published information that relates to the water resources of the basin and a bibliography of other types of water-resources information about the basin. The bibliography contains information from Federal, State, county, and local governments and agencies; engineering consultants; universities; industries; conservancy districts; irrigation companies; and water and sanitation districts. Subject matter includes only those topics directly related to water resources; topics about geology, for example, are not included unless the subject matter is partly related to water resources. As in any bibliography that consists of such a variety of topics, time period, and geographical extent, an exhaustive listing is not practically feasible. This report can help eliminate overlap of future hydrologic studies and indicate those areas in which further study is needed.

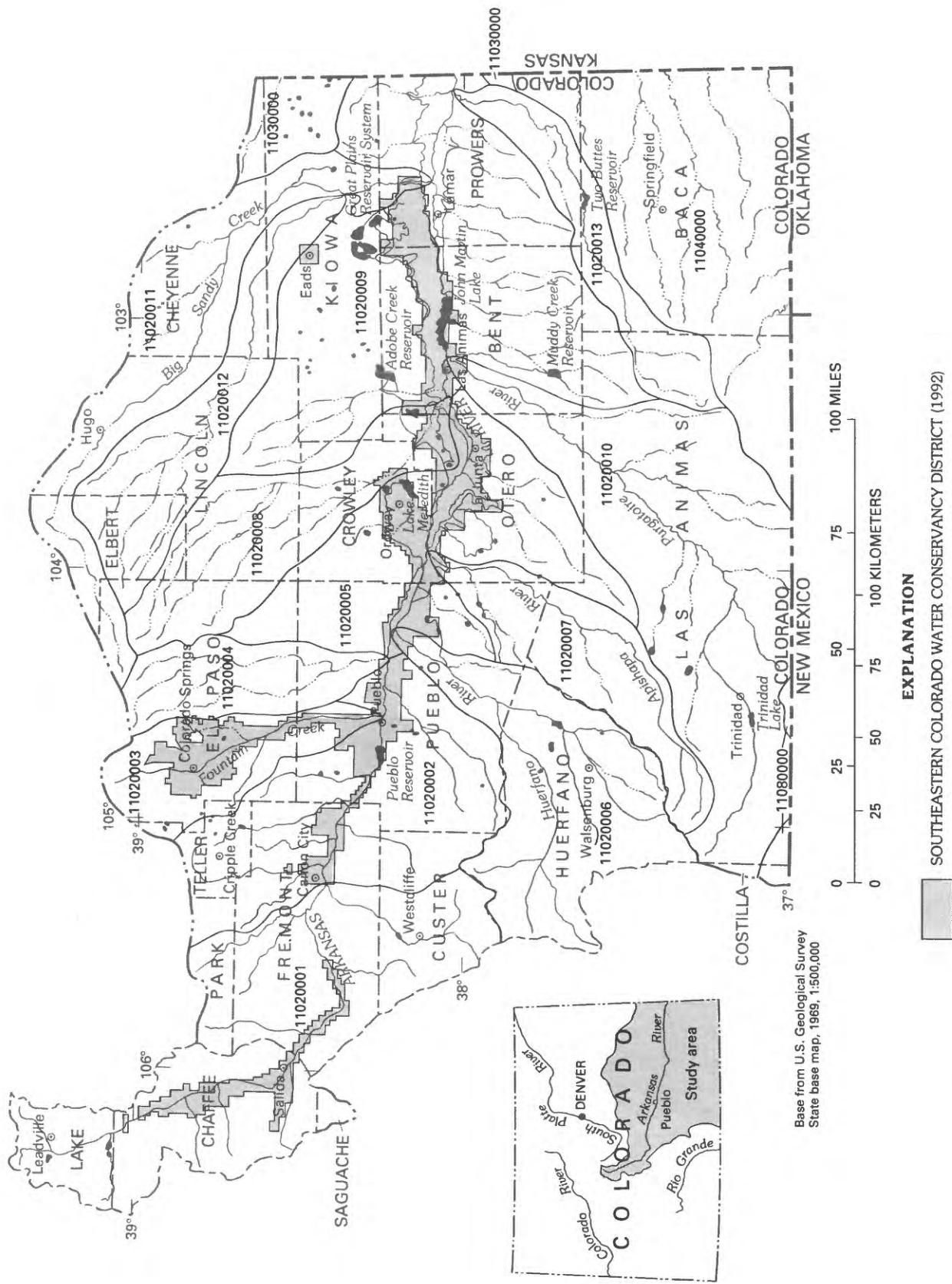


Figure 1. The Arkansas River basin and hydrologic units, Colorado.

Approach

A computer search of numerous bibliographic data bases (table 1) was used to efficiently retrieve publications relevant to the water resources of the Arkansas River basin. Because of the large areal extent of the basin ($28,260 \text{ mi}^2$), an initial search using geographic identifiers was used. This search provided titles of publications in Colorado; those associated with counties or hydrographic features outside the basin were excluded. In the relevant bibliographic data bases, secondary computer searches were done by using selected hydrologic terms.

Because the listings of most of the bibliographic data bases began in the 1960's or 1970's, and because these data bases were not likely to contain some of the local water-resources information available, a manual search for relevant titles was necessary. Numerous inquiries were made to Federal, State, county, and local governments; universities; councils of governments; water and sanitation districts; private industries; and other organizations and private individuals to find additional sources of water-resources information.

Table 1. Bibliographic data bases used in retrieving titles relevant to water resources of the Arkansas River basin through 1985¹

Data base	Contents
Agricola	Comprehensive worldwide journal and monographic literature about agriculture and related subjects.
Aquaculture	Access to information about the growing of marine, brackish, and fresh-water organisms.
Aquatic-sciences and fisheries abstracts	Printed publications about life sciences of the seas and inland water and related legal, political, and social topics.
Compendex	Abstracted information from the significant engineering and technological literature of the world.
Dissertation abstracts online	American and some Canadian and foreign dissertations accepted at accredited institutions.
GEOREF	Comprehensive access to publications, dissertations, theses, and maps about geology and related subjects.
Government Printing Office monthly catalogue	Records of reports, studies, fact sheets, maps, handbooks, conference proceedings, and so on, issued by all Federal agencies including the U.S. Congress.
National Technical Information Service	Unclassified government-sponsored reports and analyses prepared by contractors of grantees.
Pollution abstracts	References to environmentally related literature about pollution, its sources, and its control.
Water-resources abstracts	English-language materials on water-resources topics.
Waternet	Comprehensive index of publications of the American Water Works Association (AWWA) and the AWWA Research Foundation.

¹ From Dialog Information Services, Inc.

Acknowledgments

Appreciation is extended to Mr. and Mrs. Frank Milenski for allowing access to their extensive personal library. Additionally, the authors thank the numerous Federal, State, county, and local agencies and the many private and corporate entities for their contributions to the bibliography. Special appreciation is extended to Gary Krammes and Eva Morrell for setting up the data base and to Janet Garoutte for data entry.

WATER-RESOURCES INFORMATION PUBLISHED PERIODICALLY

A number of Federal and State agencies and other organizations publish information relevant to water resources. The following sections describe the various agencies from which these and other water-resources data are available.

Federal Agencies

Several Federal agencies regularly publish information relevant to the water resources of the Arkansas River basin. These publications are not included in the bibliography but are summarized by agency in this section.

U.S. Geological Survey

The U.S. Geological Survey regularly publishes data (by water year, October–September) about surface water, water quality, and ground water of the Arkansas River basin. The surface-water data generally may include daily, monthly, and annual values of stream discharge at streamflow-gaging stations; month-end contents of reservoirs; miscellaneous measurements at ungaged sites; and monthly maximum discharges at partial-record (crest-stage) stations. The water-quality data generally may include the results of measurements and laboratory analyses of the physical, chemical, and biological properties of water samples; the suspended-sediment concentration and suspended-sediment discharge of gaged streams; and the daily values of physical and chemical properties of streams at sites that are equipped with water-quality monitoring instruments. Ground-water data generally may include water-level measurements at wells, well descriptions, well logs, well yields, and information about water usage.

From water year 1975 to water year 1984, the U.S. Geological Survey published surface-water, water-quality, and ground-water data in a series of annual data reports that included the Arkansas River basin; these are summarized in table 2. Prior to 1975, these data were not published by basin but were published by discipline (pre-1961), by State and discipline (1961–64), and by State (1965–74). Publications of surface-water and water-quality data (1896–1969) are summarized in table 3; publications of surface-water and water-quality records (1960–74) are summarized in table 4; and publications of ground-water data (1935–70) are summarized in table 5. The U.S. Geological Survey also publishes biannual reports, which often contain information relevant to the water resources of the Arkansas River basin, that summarize statewide water resources, hydrologic investigations, and ongoing hydrologic-data-collection activities. These publications are summarized in table 6.

Table 2. U.S. Geological Survey publications containing water-resources data for the Arkansas River basin, water years 1975–84

Water year	Publication
1975	U.S. Geological Survey, 1976, Water resources data for Colorado, water year 1975—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-75-1, 260 p.
1976	U.S. Geological Survey, 1977, Water resources data for Colorado, water year 1976—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-76-1, 311 p.
1977	U.S. Geological Survey, 1978, Water resources data for Colorado, water year 1977—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-77-1, 369 p.
1978	U.S. Geological Survey, 1979, Water resources data for Colorado, water year 1978—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-78-1, 415 p.
1979	U.S. Geological Survey, 1980, Water resources data for Colorado, water year 1979—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-79-1, 499 p.
1980	U.S. Geological Survey, 1981, Water resources data for Colorado, water year 1980—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-80-1, 535 p.
1981	U.S. Geological Survey, 1982, Water resources data for Colorado, water year 1981—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-81-1, 487 p.
1982	U.S. Geological Survey, 1983, Water resources data for Colorado, water year 1982—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-82-1, 403 p.
1983	U.S. Geological Survey, 1984, Water resources data for Colorado, water year 1983—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-83-1, 379 p.
1984	U.S. Geological Survey, 1985, Water resources data for Colorado, water year 1984—volume 1, Missouri River basin, Arkansas River basin, and Rio Grande basin: U.S. Geological Survey Water-Data Report CO-84-1, 409 p.

Table 3. U.S. Geological Survey water-supply papers containing surface-water and water-quality data for the Arkansas River basin, water years 1896–1969

Water year	Water-supply paper number	Water year	Water-supply paper number	Water year	Water-supply paper number	Water year	Water-supply paper number
SURFACE-WATER DATA							
1896	11	1914	387	1932	732	1949	1147
1897	16	1915	407	1933	747	1950	1177
1898	28	1916	437	1934	762	1951	1211
1899	37	1917	457	1935	787	1952	1242
1900	50	1918	477	1936	807	1953	1281
1901	66, 75	1919–20	507	1937	827	1954	1341
1902	84	1921	527	1938	857	1955	1391
1903	99	1922	547	1939	877	1956	1441
1904	131	1923	567	1940	897	1957	1511
1905	173	1924	587	1941	927	1958	1561
1906	209	1925	607	1942	957	1959	1631
1907–8	247	1926	627	1943	977	1960	1711
1909	267	1927	647	1944	1007	1961–65	1921
1910	287	1928	667	1945	1037	1966	2121
1911	307	1929	687	1946	1057		
1912	327	1930	702	1947	1087		
1913	357	1931	717	1948	1117		
WATER-QUALITY DATA							
1941	942	1951	1200 ¹ 1264	1961	1884 ¹ 1886		
1942	950	1952	1252 ¹ 1361	1962	1944 ¹ 1946		
1943	970	1953	1292 ¹ 1380	1963	1950 ¹ 1952		
1944	1022	1954	1352 ¹ 1430	1964	1957 ¹ 1960		
1945	1030	1955	1402 ¹ 1465	1965	1964 ¹ 1967		
1946	1050	1956	1452 ¹ 1485	1966	1994		
1947	1102	1957	1522 ¹ 1514	1967	2014		
1948	1133	1958	1573 ¹ 1575	1968	2096		
1949	1163	1959	1644 ¹ 1699	1969	2146		
1950	1188	1960	1744 ¹ 1746				

¹ Quality of surface water for irrigation.

Table 4. U.S. Geological Survey publications containing surface-water and water-quality records for the Arkansas River basin, years 1960–74

Water year	Annual publication
SURFACE-WATER DATA	
1961	U.S. Geological Survey, 1962, Surface water records of Colorado, 1961: 327 p.
1962	U.S. Geological Survey, 1963, Surface water records of Colorado, 1962: 335 p.
1963	U.S. Geological Survey, 1964, Surface water records of Colorado, 1963: 335 p.
1964	U.S. Geological Survey, 1965, Surface water records of Colorado, 1964: 353 p.
1965	U.S. Geological Survey, 1966, Water resources data for Colorado, 1965—Part 1, Surface-water records: 353 p.
1966	U.S. Geological Survey, 1967, Water resources data for Colorado, 1966—Part 1, Surface-water records: 367 p.
1967	U.S. Geological Survey, 1968, Water resources data for Colorado, 1967—Part 1, Surface-water records: 391 p.
1968	U.S. Geological Survey, 1969, Water resources data for Colorado, 1968—Part 1, Surface-water records: 394 p.
1969	U.S. Geological Survey, 1970, Water resources data for Colorado, 1969—Part 1, Surface-water records: 394 p.
1970	U.S. Geological Survey, 1971, Water resources data for Colorado, 1970—Part 1, Surface-water records: 396 p.
1971	U.S. Geological Survey, 1972, Water resources data for Colorado, 1971—Part 1, Surface-water records: 409 p.
1972	U.S. Geological Survey, 1973, Water resources data for Colorado, 1972—Part 1, Surface-water records: 391 p.
1973	U.S. Geological Survey, 1974, Water resources data for Colorado, 1973—Part 1, Surface-water records: 392 p.
1974	U.S. Geological Survey, 1975, Water resources data for Colorado, 1974—Part 1, Surface-water records: 396 p.
WATER-QUALITY RECORDS	
1960–62	U.S. Geological Survey, 1963, Chemical analysis of surface waters in Colorado, October 1959 to September 1962: 56 p.
1963	U.S. Geological Survey, 1964, Quality of surface waters in Colorado, October 1962 to September 1963: 83 p.
1964	U.S. Geological Survey, 1965, Water quality records in Colorado, 1964: 84 p.
1965	U.S. Geological Survey, 1966, Water resources data for Colorado, 1965—Part 2, Water-quality records: 130 p.
1966	U.S. Geological Survey, 1967, Water resources data for Colorado, 1966—Part 2, Water-quality records: 100 p.
1967	U.S. Geological Survey, 1968, Water resources data for Colorado, 1967—Part 2, Water-quality records: 101 p.
1968	U.S. Geological Survey, 1969, Water resources data for Colorado, 1968—Part 2, Water-quality records: 97 p.
1969	U.S. Geological Survey, 1970, Water resources data for Colorado, 1969—Part 2, Water-quality records: 83 p.
1970	U.S. Geological Survey, 1971, Water resources data for Colorado, 1970—Part 2, Water-quality records: 70 p.
1971	U.S. Geological Survey, 1972, Water resources data for Colorado, 1971—Part 2, Water-quality records: 72 p.
1972	U.S. Geological Survey, 1973, Water resources data for Colorado, 1972—Part 2, Water-quality records: 108 p.
1973	U.S. Geological Survey, 1974, Water resources data for Colorado, 1973—Part 2, Water-quality records: 120 p.
1974	U.S. Geological Survey, 1975, Water resources data for Colorado, 1974—Part 2, Water-quality records: 190 p.

Table 5. U.S. Geological Survey publications containing ground-water data for the Arkansas River basin, water years 1935–70

Water year	Water-supply paper number	Water year	Water-supply paper number	Water year	Water-supply paper number
1935	777	1943	990	1951	1195
1936	817	1944	1020	1952	1225
1937	840	1945	1027	1953	1269
1938	847	1946	1075	1954	1325
1939	886	1947	1100	1955	1408
1940	910	1948	1130	1956–60	1760
1941	940	1949	1160	1961–65	1845
1942	948	1950	1169	1966–70	1980

U.S. Bureau of Reclamation

The U.S. Bureau of Reclamation has several publications that contain general and detailed information about their operations in the Arkansas River basin, especially the Fryingpan-Arkansas Project. These publications are summarized in table 6.

U.S. Soil Conservation Service

As an agency of the U.S. Department of Agriculture, the U.S. Soil Conservation Service is the source for publications about soil, snow surveys, and water-supply forecasting. Because of the Service's involvement in watershed projects, a summary of statewide watershed operations also is published. The water-resources-related publications are summarized in table 6.

National Oceanic and Atmospheric Administration

The National Oceanic and Atmospheric Administration of the U.S. Department of Commerce is the source for many publications containing predominantly weather and climatological data. However, some of the publications contain agricultural assessments, river forecasts, and atmospheric chemistry data. These publications are summarized in table 7.

U.S. Environmental Protection Agency

Although the U.S. Environmental Protection Agency does not regularly publish water-resources information that is relevant to the Arkansas River basin, it maintains a computer-based storage and retrieval (STORET) information system for water-quality data. The U.S. Geological Survey, the U.S. Environmental Protection Agency, and the Colorado Department of Health, among others, provide data to the STORET system.

Table 6. Publications by various Federal agencies containing water-resources information for the Arkansas River basin by water year through 1985

Agency and publication	Frequency of publication	Period of publication	Contents
U.S. GEOLOGICAL SURVEY			
National Water Summary	Annually	1983-85	Current publication includes description of the conditions, trends, availability, quality, and use of the water resources, by State. Contains articles on selected topics. Published as a water-supply paper.
Summary of Water-Resources Activities of the U.S. Geological Survey in Colorado	Biannually	?- 1985	Current publication includes list of cooperating agencies, summary of hydrologic-data network, narratives of interpretive hydrologic investigations, availability of reports, and listing of reports released during the year.
U.S. BUREAU OF RECLAMATION			
Annual Operating Plan, Fryingpan-Arkansas Project	Annually	1969-85	Current publication includes general information about the project, project features, report about operations during the water year, and operation plans for the next water year. Diversion and flow data are summarized.
Annual Report	Annually	1906-85	Current publication includes, in addition to the Annual Report, a three-volume set of summary statistics: Volume I: <i>Land, Water, and Related Data</i> , Volume II: <i>Finances and Physical Features</i> , and Volume III: <i>Project Data</i> .
Fryingpan-Arkansas Project History	Annually	1963-85	Current publication includes general information, summary of previous volumes, administrative summaries, and summary of project activities and operations.
U.S. SOIL CONSERVATION SERVICE			
Colorado and New Mexico Water-Supply Outlook	Monthly during January 1-May 1	?-1985	Current publication includes summary of snow measurements, listing of snow-course measurements, streamflow forecasts, water-supply outlook, and listing of reservoir contents.
Colorado River Basin and Watershed Summary	Annually	?-1985	Current publication includes summary of U.S. Soil Conservation Service projects in the State.
List and location of snow courses and SNOTEL sites [Colorado]	Annually	?-1985	Current publication includes lists and maps of snow-course locations and SNOTEL sites in Colorado.
Water-Supply Outlook for Western United States	Monthly during January 1-May 1	?-1985	Current publication includes streamflow, forecasts, and short narratives about basin conditions in the Western United States.

Table 7. National Oceanic and Atmospheric Administration publications containing water-resources data for the Arkansas River basin through 1985

Publication	Frequency of publication	Period of publication	Contents
Climatological Data	Annually	1914–85	Monthly and annual summaries of climatological data.
Climatological Data [published as <i>Climate and Crop Service of the Weather Bureau</i> (1896–1906); <i>Climatological Service of the Weather Bureau</i> (1906–09); and as <i>Monthly Weather Review</i> (1909–13)]	Monthly	1914–85	Daily, monthly and seasonal climatological data. Narrative of unusual or outstanding weather. June and December include late reports and corrections.
Climatological Data, National Summary (pre-1950 in <i>Monthly Weather Review</i> , U.S. Meteorological Yearbook, or <i>Report of the Chief of the Weather Bureau</i>)	Monthly; annually	1950–85	Narrative summaries of weather conditions and special storms. Selected climatological data not reported in other publications.
Comparative Climatic Data	Annually	1977–85	Tables of nationwide monthly and annual totals, averages, and extremes for selected climatological data. Form of publication enables easy comparison.
Environmental/Resource Assessment and Information [published as <i>Weekly Weather/Crop Assessment</i> (1976–79)]	Weekly	1980–85	Agriculture assessments, drought evaluations, and relevant climatic data.
Hourly Precipitation Data [published as <i>Hydrologic Bulletin</i> by drainage district (1940–48) and in <i>Climatological Data</i> (1948–51)]	Monthly; annually	1952–85	Monthly publications: daily, hourly, and monthly maximum short duration, precipitation data and station index. June and December have late reports and corrections. Annual publications: monthly totals of precipitation, annual maximum precipitation by time interval, and station index.
Local Climatological Data, Annual Summary with Comparative Data [published as <i>Annual Meteorological Summary</i> (1909–48) and <i>Local Climatological Data with Comparative Data</i> (1952–65)]	Annually	1966–85	Narrative climatological summary tables of climatological data for current year, statistical data for periods of record, and station locations and detailed histories. Issues older than 2 years available on microfiche.
Local Climatological Data, Monthly Summary [published as <i>Monthly Meteorological Summary</i> (1897–47) and <i>Monthly Climatological Summary</i> (1948–51)]	Monthly	1952–85	Basic climatological data, hourly precipitation, listing of data collected at 3-hour intervals. Supplements contained detailed hourly information and were published as special meteorological summaries (1949–51) and as local climatological data, monthly supplement (1952–64).

Table 7. National Oceanic and Atmospheric Administration publications containing water-resources data for the Arkansas River basin through 1985—Continued

Publication	Frequency of publication	Period of publication	Contents
River forecasts provided by the National Weather Service [published as Volume 2, <i>Stages of the Mississippi River and of its principal tributaries, except the Ohio River</i> (1860–89); Volume 3, <i>Stages of water at miscellaneous river stations...</i> (1875–89); Volumes 4–44, <i>Daily river stages at river gage stations on the principle rivers of the United States</i> (1890–1948), and as <i>Daily River Stages</i> (1949–71)]	Annually	1972–85	Descriptions of river forecasts, warning services, other hydrologic services, location information, miscellaneous information, highest stages, and record stages prior to gaging. Microfilm and paper copy available depending on year of publication.
Storage-Gage Precipitation Data for Western United States [published as part of monthly <i>Climatological Data</i> (prior to 1940); as part of <i>Hydrologic Bulletins</i> (1940–48); and as part of the annual <i>Climatological Data</i> (1949–56)]	Annually	1956–76	Precipitation data and station index for remote sites infrequently visited. Data is presented as part of annual publication <i>Climatological Data</i> from 1977–85.
Storm Data [published as part of <i>Monthly Weather Review</i> (1922–49), as part of <i>The Report of the Chief of the Weather Bureau</i> (1929–34), as part of <i>Meteorological Yearbook</i> (1942–49), and as part of <i>Climatological Data, National Summary</i> (1954–58)]	Monthly	1959–85	Chronological listing, by State, of storms and unusual weather phenomena; information about storm; damage, deaths; and a narrative description of the storm. Because of difficulties in collecting data, publication is not all inclusive. Late reports and corrections contained in subsequent reports.
Weekly Weather and Crop Bulletin [published as <i>Weekly Weather Chronicle</i> (1872–81, 1885–1923) and as various titles]	Weekly	1924–85	Weather summary; effect on crops; information about precipitation, temperature, statistics, and soil temperatures. Information presented during relevant periods of year.

State Agencies

Several State agencies regularly publish or maintain information relevant to the water resources of the Arkansas River basin. This information is not included in the bibliography but is summarized by agency in this section.

Colorado Division of Water Resources

The Colorado Division of Water Resources is responsible for the administration of water rights throughout the State. The Division maintains a network of streamflow-gaging stations on streams and diversions in Colorado and publishes hydrologic reports as needed. Surface-water data for stations in the Arkansas River basin, including Arkansas River daily reports, weekly reservoir supplements, and the Biennial Report of the State Engineer (1931-64), are available at the Division office in Pueblo or the Office of the State Engineer in Denver. The U.S. Geological Survey also publishes some of the information in the annual water-data reports.

Mined Land Reclamation Division

The Mined Land Reclamation Division does not publish water-resource or hydrologic information relevant to the Arkansas River basin. However, as a regulatory agency, it does maintain files of mining and reclamation permits for sites within the basin, including those in the Canon City and Walsenburg/Trinidad coal fields. These permits contain site-specific data and interpretations relevant to the surface-water and ground-water systems adjacent to the coal mines. Additionally, each mine has a "Finding of Compliance" document, which is an environmental assessment summarizing water resources, impacts, and proposed impact mitigation. This information is available for public inspection at the Division office.

Colorado Department of Agriculture

The Colorado Department of Agriculture regularly publishes a statistical summary of agriculture in the State, including topics relevant to water resources of the Arkansas River basin. This publication and its contents are summarized in table 8.

Table 8. Publications by State and local agencies containing water-resources data for the Arkansas River basin through 1985

Agency	Publication	Frequency of publication	Period of publication	Contents
Colorado Department of Agriculture	Colorado Agricultural Statistics	Annually	?-1985	District and county agricultural acreage and production, irrigated acreage, precipitation, and fertilizer statistics.
Arkansas River Compact Administration	Annual report	Annually	1949-85	Administration, finances, and hydrologic summaries. Published yearly: November through October.
Southeastern Colorado Water Conservancy District	Annual report	Annually	1967-85	Administration, finances, and program summaries.

Other Organizations

The Arkansas River Compact Administration publishes annual reports (November 1 to October 31), which summarize its operations in the basin. The Southeastern Colorado Water Conservancy District, the public administrator of water from the Fryingpan-Arkansas Project, also publishes an annual report. The publications of both organizations are summarized in table 8.

ORGANIZATION OF THE BIBLIOGRAPHY

The bibliography is arranged alphabetically by senior author; junior authors are referenced to the senior author. No routinely published data or reports are included in this section but are listed in the "Water-Resources Information Published Periodically" section. Some citations may be incomplete according to a strict bibliographic format, but they were included because of their relevant information for the user. Publications such as letters, memos, in-house publications, operating procedures, grants, and so on may not be available to the general public. The bibliography is divided into four indexes: author, subject, county, and hydrologic unit. The complete references are listed only in the author index. The remaining indexes have enough information to allow the reader to refer back to the author index for the complete reference.

SELECTED REFERENCES

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AUTHOR INDEX

The bibliography is divided into four indexes: author, subject, county, and hydrologic unit. The complete references are listed only in the author index. The remaining indexes have enough information to enable the reader to refer back to the author index for the complete reference.

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HYDROLOGIC-UNIT INDEX

In 1974, the U.S. Geological Survey, in cooperation with the U.S. Water Resources Council, produced maps and identification codes for hydrologic units throughout the United States. The hydrologic units, usually named for a principal hydrologic feature within the unit are a unified identification method for use by numerous agencies (U.S. Geological Survey, 1982). The modified hydrologic-unit codes and names for the Arkansas River basin are listed in table 9; the location of each unit is shown in figure 1. Information about the large regional hydrologic units in the Arkansas River basin (11000000 and 11020000) are not included in this index.

Table 9. Hydrologic-unit codes for the Arkansas River basin (modified from U.S. Geological Survey, 1982)

Hydrologic-unit code	Name
11020001	Arkansas River headwaters
11020002	Upper Arkansas River
11020003	Fountain Creek
11020004	Chico Creek
11020005	Upper Arkansas River—Lake Meredith
11020006	Huerfano River
11020007	Apishapa River
11020008	Horse Creek
11020009	Upper Arkansas River—John Martin Reservoir
11020010	Purgatoire River
11020011	Big Sandy Creek
11020012	Rush Creek
11020013	Two Butte Creek
11030000	Middle Arkansas River—Lake McKinney and Whitewoman Creek
11040000	Cimarron River headwaters, Sand Arroyo, Bear Creek
11080000	Canadian River headwaters

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