

Summary of Precipitation Data for the Black Hills Area of South Dakota, Water Years 1931-98

By Daniel G. Driscoll, U.S. Geological Survey, and Ghaith R. Hamade and Scott J. Kenner,
South Dakota School of Mines and Technology

Open-File Report 00-329

Prepared in cooperation with the South Dakota Department
of Environment and Natural Resources and the
West Dakota Water Development District

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 2000		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Summary of Precipitation Data for the Black Hills Area of South Dakota, Water Years 1931-98				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Department of the Interior 1849 C Street, NW Washington, DC 20240				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 155	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

U.S. Department of the Interior

Bruce Babbitt, Secretary

U.S. Geological Survey

Charles G. Groat, Director

The use of firm, trade, and brand names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

Rapid City, South Dakota: 2000

For additional information write to:

**District Chief
U.S. Geological Survey
1608 Mt. View Road
Rapid City, SD 57702**

Copies of this report can be purchased from:

**U.S. Geological Survey
Branch of Information Services
Box 25286
Denver, CO 80225-0286**

CONTENTS

Abstract.....	1
Introduction	1
Available Data and Methods.....	3
Spatial and Temporal Distribution of Precipitation Data	10
Selected References	20
Supplemental Information	21
Section A - Monthly and annual data for National Oceanic and Atmospheric Administration precipitation gages, water years 1931-98	23
Section B - Monthly and annual data for U.S. Geological Survey precipitation gages, water years 1931-98.....	77
Section C - Monthly and annual precipitation values for the study area and counties within the study area, water years 1931-98.....	121
Section D - Moving average precipitation values and ranks for the study area and counties within the study area, water years 1931-98	137

FIGURES

1. Map showing area of investigation for the Black Hills Hydrology Study.....	2
2. Map showing location of selected precipitation gages in the Black Hills area	7
3. Map showing example of contoured monthly precipitation distribution based on grid for October 1995	8
4. Map showing measured and estimated values for precipitation gages for October 1995	9
5. Map showing average annual precipitation values for water years 1961-90 for precipitation gages in the Black Hills area.....	11
6. Isohyetal map showing distribution of average annual precipitation for the Black Hills area, water years 1961-90.....	12
7. Graphs showing distribution of monthly and annual precipitation for the study area and counties within the study area, water years 1931-98	14
8. Graphs showing long-term trends in precipitation for the Black Hills area, water years 1931-98	19

TABLES

1. Site information for selected precipitation gages in the Black Hills area	4
2. Summary statistics of monthly and annual precipitation, in inches, for the study area and counties within the study area, water years 1931-98	15

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
foot	0.3048	meter
inch	25.4	millimeter
mile	1.609	kilometer

Sea level: In this report, “sea level” refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Water year: Water year is the 12-month period, October 1 through September 30, and is designated by the calendar year in which it ends. Thus, the water year ending September 30, 1998, is called the “1998 water year.”

Summary of Precipitation Data for the Black Hills Area of South Dakota, Water Years 1931-98

By Daniel G. Driscoll, Ghaith R. Hamade, *and* Scott J. Kenner

ABSTRACT

Long-term precipitation records are summarized for the Black Hills area of South Dakota. Precipitation data are available for numerous gaging locations; however, few gages have continuous, long-term records, and periods of missing record are common. Thus, a geographic information system (GIS) utilizing an inverse-distance weighting method was developed to generate spatial precipitation distributions from point precipitation data for the Black Hills area, based on available monthly records. The spatial distributions were used to estimate periods of missing record for all 94 gages considered. The resulting monthly records of measured and estimated precipitation are tabulated for water years 1931-98. Average values for water years 1961-90, which is the period used for calculation of climatic normals, were used to develop an isohyetal map of normal annual precipitation for the Black Hills area.

Temporal trends in precipitation for the Black Hills area also were examined. Sustained periods of deficit precipitation occurred during 1931-40 and 1948-61. Sustained periods of surplus precipitation occurred during 1941-47, 1962-68, and 1991-98, with the late 1990's identified as the wettest period since 1931. The driest 30-year period was 1931-60, when annual precipitation averaged 17.17 inches for the study area. The wettest 30-year period was 1969-98, when annual precipitation averaged 19.61 inches. Normal annual precipitation (1961-90) for the study area is 19.06 inches, compared with the long-term (1931-98) annual average of 18.61 inches. Annual extremes for the study area

have ranged from 10.22 inches in water year 1936 to 27.39 inches in water year 1995.

INTRODUCTION

The Black Hills Hydrology Study (BHHS) is a long-term cooperative study between the U.S. Geological Survey (USGS), the South Dakota Department of Environment and Natural Resources, and the West Dakota Water Development District, which represents various local and county cooperators. The study was initiated in 1990 to assess the quantity, quality, and distribution of surface water and ground water in the Black Hills area of western South Dakota (Driscoll, 1992). One specific need for the Black Hills Hydrology Study is to summarize precipitation data for the study area (fig. 1). Additional needs are to characterize the spatial and temporal distribution of precipitation for the area.

Elevations in the study area (fig. 1) range from about 7,200 feet above sea level at the higher peaks to about 3,000 feet in the surrounding plains, resulting in an orographically induced microclimate characterized by generally greater precipitation and lower temperatures at the higher elevations. Average annual precipitation ranges from about 29 inches in the northern Black Hills near Lead to about 16 inches in the southern Black Hills near Hot Springs (Addison, 1991; Trimarchi, 1997).

Precipitation data are available for numerous gaging locations; however, few gages have continuous, long-term records. Periods of missing record are common for most gages. Thus, a geographic information system (GIS) procedure was developed to estimate the spatial distribution of monthly and annual precipitation depths for the Black Hills area. The purpose of this report is to document the methods used for estimating the distribution of precipitation and to summarize the results.

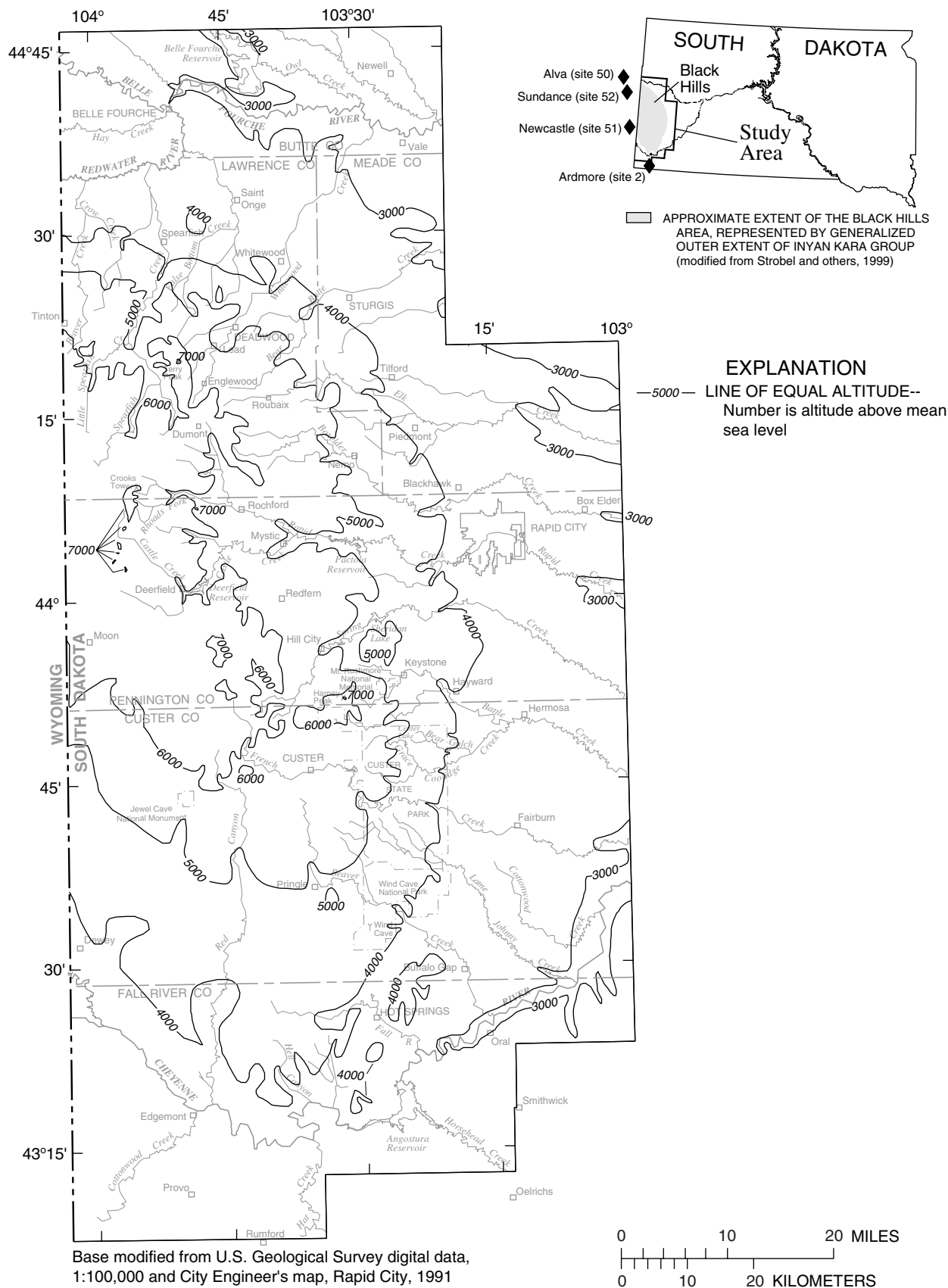


Figure 1. Area of investigation for the Black Hills Hydrology Study. Map shows selected precipitation gages located outside of study area for which data are considered.

2 Summary of Precipitation Data for the Black Hills Area of South Dakota, Water Years 1931-98

AVAILABLE DATA AND METHODS

Long-term precipitation data are available from the National Oceanic and Atmospheric Administration (NOAA). The longest records for the Black Hills area are for Rapid City and Lead, with 112 and 90 years of continuous record, respectively (National Oceanic and Atmospheric Administration, 1998). For this report, precipitation data are considered that date back to October 1930, which is the start of water year (WY) 1931 (WY 1931 runs from October 1, 1930, through September 30, 1931). All NOAA gages in the Black Hills area with 4 or more years of record were considered. Site information for the NOAA gages is presented in table 1, and locations of the gages are presented in figure 2. Additional site information is available in data summaries published by NOAA.

Numerous precipitation gages have been operated in the study area since 1990 by the USGS as part of the Black Hills Hydrology Study. A number of additional gages have been operated by the USGS for other studies, some of which provided data prior to 1990. Data for USGS gages have been published in USGS annual data reports (1983-99). Many of the USGS gages have been operated seasonally to provide data during the warmer months (generally May through September), when precipitation patterns tend to be more variable because of convective thunderstorms. USGS gages in the Black Hills area with 4 or more years of record generally were considered. Site information for the USGS gages also is included in table 1, and locations of the USGS gages also are included in figure 2. Additional site information is available in data summaries published by the USGS.

Historically, most methods for estimating the areal distribution of precipitation from point data have fallen into three major groups: graphical, topographical, and statistical (Daly and others, 1994). Graphical methods involve mapping of precipitation data and include Thiessen polygon techniques and isohyetal mapping, which may be performed in combination with precipitation/elevation analysis. Topographical methods involve the correlation of point data with an array of topographical and synoptic parameters such as slope, exposure, elevation, location of barriers, wind speed, and direction (Daly and others, 1994). More recently, the most common spatial distribution techniques have been statistical. These can be described as

numerical interpolation methods by which a statistical function is used to weight irregularly spaced point data to estimate precipitation at unknown points or at regularly spaced grid intervals.

Inverse-distance weighting, which is one example of a statistical method, was selected as appropriate for spatially distributing precipitation data for the Black Hills area. This method calculated values for grid cells using measured values from a selected number of surrounding precipitation gages and a weighting factor equal to the inverse-distance raised to the second power.

ARC/INFO (Environmental Systems Research Institute, 1992) was the GIS software used to perform the spatial distribution, using standard commands within the ARC GRID subroutine. Two options are available for interpolation of values for each cell in the grid. Using the RADIUS option, a minimum radius and minimum number of precipitation gages are specified and the search radius is expanded until the minimum number of gages is satisfied. Using the SAMPLE option, a maximum radius and maximum number of precipitation gages are specified, and the search radius is expanded until either maxima is satisfied. If the number of gages cannot be satisfied within the maximum radius, fewer gages are used.

The SAMPLE option, with a grid spacing of 1,000 meters (0.62 mile), was used for spatial distribution of precipitation data for this report. A maximum of five precipitation gages within a maximum radius of 50 kilometers (31 miles) was specified, based on precipitation patterns and the distribution of precipitation gages within the study area.

Using this method, a distributed precipitation grid was created for each month of each water year from 1931 through 1998. Only measured precipitation data were used to generate monthly distributed precipitation grids; however, the resulting grids were used to estimate monthly precipitation for gages with missing values. As an example, a contoured precipitation distribution, which is based on the grid for October 1995, is presented in figure 3. The measured precipitation values that were used to create the grid, as well as values for gages with missing data that were estimated from the grid, are presented in figure 4. Although data from the four gages shown in figure 1 were considered in all analyses, precipitation values associated with those gages are not shown in figure 4.

Table 1. Site information for selected precipitation gages in the Black Hills area

[Station type: S, seasonal gage; Y, year-round gage; --, not applicable or available]

Map number	Station number	Station name	Latitude	Longitude	Altitude, in feet above sea level	Station type ¹	Water years with measured record	
			(degrees, minutes, seconds)				First ²	Last
National Oceanic and Atmospheric Administration Stations								
1	390217	Angostura Dam	43 21 --	103 26 --	3,140	--	1948	1971
2	390236	Ardmore 2N	43 03 --	103 39 --	3,550	--	1931	1998
3	390559	Belle Fourche	44 40 --	103 51 --	3,020	--	1931	1998
4	391124	Buffalo Gap	43 30 --	103 19 --	3,220	--	1951	1998
5	381246	Buskala Ranch	44 13 --	103 49 --	6,110	--	1931	1998
6	392087	Custer	43 46 --	103 37 --	5,480	--	1931	1998
7	392089	Custer 6SW	43 42 --	103 42 --	5,180	--	1949	1957
8	392207	Deadwood	44 22 --	103 44 --	4,670	--	1942	1998
9	392228	Deerfield 5NW	44 04 --	103 54 --	6,220	--	1953	1980
10	392231	Deerfield 3SE	44 00 --	103 47 --	6,060	--	1981	1998
11	392234	Deerfield Dam	44 01 --	103 47 --	5,870	--	1931	1956
12	392316	Dewey 15NNE	43 43 --	103 55 --	5,090	--	1949	1958
13	392409	Dumont 2ENE	44 15 --	103 46 --	6,140	--	1931	1969
14	392557	Edgemont	43 18 --	103 50 --	3,460	--	1949	1998
15	392559	Edgemont 10N	43 27 --	103 50 --	3,940	--	1949	1957
16	392565	Edgemont 23NNW	43 37 --	103 55 --	4,402	--	1990	1998
17	393069	Fort Meade	44 25 --	103 29 --	3,300	--	1949	1998
18	393572	Hardy Ranger Station	44 09 --	103 57 --	6,470	--	1931	1951
19	393775	Hermosa 3SSW	43 48 --	103 13 --	3,425	--	1941	1998
20	393868	Hill City	43 56 --	103 34 --	4,980	--	1955	1998
21	394007	Hot Springs	43 26 --	103 28 --	3,560	--	1931	1998
22	394009	Hot Springs 7W	43 26 --	103 36 --	3,980	--	1949	1958
23	394010	Hot Springs 9SW	43 18 --	103 33 --	3,280	--	1949	1957
24	394556	Keystone	43 54 --	103 25 --	4,436	--	1990	1997
25	394834	Lead	44 21 --	103 46 --	5,350	--	1931	1998
26	394836	Lead 6SSW	44 17 --	103 48 --	5,840	--	1970	1975
27	395744	Moon	43 57 --	104 00 --	6,350	--	1950	1953
28	395854	Mt. Coolidge	43 45 --	103 29 --	6,400	--	1953	1975
29	395870	Mt. Rushmore National Memorial	43 53 --	103 27 --	5,250	--	1962	1998
30	395929	Mystic	44 05 --	103 39 --	4,820	--	1951	1958
31	396054	Newell	44 43 --	103 25 --	2,860	--	1931	1998
32	396212	Oelrichs	43 11 --	103 14 --	3,340	--	1931	1998
33	396214	Oelrichs 8W	43 11 --	103 22 --	3,500	--	1949	1958

Table 1. Site information for selected precipitation gages in the Black Hills area—Continued

[Station type: S, seasonal gage; Y, year-round gage; --, not applicable or available]

Map number	Station number	Station name	Latitude	Longitude	Altitude, in feet above sea level	Station type ¹	Water years with measured record	
			(degrees, minutes, seconds)				First ²	Last
National Oceanic and Atmospheric Administration Stations—Continued								
34	396304	Oral	43 24 --	103 16 --	2,960	--	1971	1998
35	396357	Orman Dam	44 44 --	103 40 --	2,930	--	1931	1974
36	396427	Pactola Dam	44 04 --	103 29 --	4,720	--	1951	1998
37	396812	Provo	43 12 --	103 50 --	3,710	--	1949	1958
38	396937	Rapid City Regional Airport	44 03 --	103 03 --	3,160	--	1950	1998
39	396947	Rapid City 4NW	44 07 --	103 17 --	3,450	--	1931	1998
40	397033	Redfern	44 00 --	103 39 --	5,510	--	1951	1955
41	397222	Rochford	44 08 --	103 43 --	5,290	--	1931	1951
42	397227	Rochford 2WNW	44 08 --	103 45 --	5,450	--	1948	1998
43	397367	Rumford	43 08 --	103 42 --	3,530	--	1949	1958
44	397418	Saint Onge 2S	44 32 --	103 43 --	3,510	--	1993	1998
45	397797	Smithwick 6SW	43 16 --	103 19 --	3,200	--	1949	1957
46	397877	Spearfish 9WNW	44 33 --	104 01 --	3,430	--	1931	1964
47	397882	Spearfish	44 31 --	103 52 --	3,640	--	1931	1998
48	398552	Vale	44 37 --	103 24 --	2,770	--	1931	1978
49	399347	Wind Cave	43 33 --	103 29 --	4,140	--	1948	1998
50	480200	Alva 5ESE, Wyo.	44 39 --	104 21 --	4,390	--	1944	1986
51	486660	Newcastle, Wyo.	43 51 --	104 13 --	4,310	--	1931	1998
52	488705	Sundance, Wyo.	44 24 --	104 23 --	4,750	--	1931	1998
U.S. Geological Survey Stations								
53	06392900	Beaver Creek at Mallo Camp	44 05 06	104 03 36	6,030	Y	1989	1998
54	06404000	Battle Creek near Keystone	43 52 21	103 20 10	3,800	Y	1988	1998
55	06405800	Bear Gulch near Hayward	43 47 31	103 20 49	4,110	Y	1989	1998
56	06408700	Rhoads Fork near Rochford	44 08 12	103 51 29	5,965	Y	1982	1998
57	06408860	Rapid Creek near Rochford	44 06 17	103 38 35	5,000	Y	1988	1995
58	06422500	Boxelder Creek near Nemo	44 08 38	103 27 16	4,320	Y	1987	1998
59	06422600	Boxelder Creek near Camp Columbus	44 08 00	103 25 43	4,260	S	1988	1998
60	06424000	Elk Creek near Roubaix	44 17 41	103 35 47	4,881	S	1992	1998
61	06429900	Sand Creek at Ranch A, near Beulah, Wyo.	44 29 42	104 06 34	3,800	Y	1989	1995
62	06430528	McNenny State Fish Hatchery	44 33 31	104 00 36	3,395	S	1992	1998
63	431806103351800	Highland Cemetery near Hot Springs	43 18 06	103 35 08	3,380	S	1991	1998
64	432343103421500	Parker Peak near Edgemont	43 23 43	103 42 15	4,090	S	1991	1998
65	432933103511000	Pilger Mountain near Edgemont	43 29 49	103 51 08	4,090	S	1992	1995

Table 1. Site information for selected precipitation gages in the Black Hills area—Continued

[Station type: S, seasonal gage; Y, year-round gage; --, not applicable or available]

Map number	Station number	Station name	Latitude	Longitude	Altitude, in feet above sea level	Station type ¹	Water years with measured record	
			(degrees, minutes, seconds)				First ²	Last
U.S. Geological Survey Stations—Continued								
66	433212104010300	Dewey	43 32 25	104 01 03	3,840	Y	1991	1998
67	433702103411200	Hopkins Flats near Pringle	43 37 02	103 41 12	5,020	S	1991	1998
68	433758103353300	Beaver Valley near Pringle	43 37 58	103 35 33	5,000	Y	1991	1998
69	433848103443200	S & G Canyon near Pringle	43 38 48	103 44 32	4,880	S	1991	1998
70	434002103214500	Racetrack Butte near Fairburn	43 40 02	103 21 45	5,010	Y	1984	1998
71	434444103282000	Custer State Park at Mt. Coolidge	43 44 44	103 28 20	5,400	Y	1984	1990
72	434534103290500	Mt. Coolidge near Custer	43 45 34	103 29 05	5,130	Y	1990	1998
73	434638103253500	Road Camp at Custer State Park	43 46 38	103 25 35	4,560	Y	1989	1998
74	434645103240700	Water Treatment Plant at Custer State Park	43 46 45	103 24 07	4,400	S	1989	1998
75	434732103305500	Bismark Lake near Custer	43 47 32	103 30 55	5,280	S	1989	1998
76	434751104005100	Redbird Canyon near Newcastle, Wyo.	43 47 51	104 00 51	4,760	Y	1991	1998
77	434807103235400	Center Lake near Hayward	43 48 07	103 23 55	4,640	Y	1989	1998
78	434928103214800	North Farm at Custer State Park	43 49 28	103 21 48	4,220	S	1989	1998
79	434939103272800	Camp Remington near Hayward	43 49 39	103 27 28	5,020	Y	1989	1998
80	435355103432800	Medicine Mountain near Custer	43 53 55	103 43 28	6,070	Y	1989	1998
81	435827104032500	Little Bear Run near Newcastle, Wyo.	43 58 27	104 03 25	6,250	Y	1992	1998
82	440001103300200	near Sheridan Lake near Hill City	44 00 01	103 30 02	4,790	S	1988	1998
83	440022103195200	Sheridan Lake Road near Rapid City	44 00 22	103 19 52	4,255	S	1988	1996
84	440242103520600	Reynolds Prairie near Hill City	44 02 42	103 52 06	6,100	Y	1988	1998
85	440501103262300	Johnson Siding near Rapid City	44 05 01	103 26 23	4,290	Y	1988	1998
86	441207104012700	O'Neil Pass near Lead	44 12 07	104 01 27	6,520	Y	1988	1998
87	441632103482400	Englewood near Lead	44 16 32	103 48 24	5,840	S	1988	1995
88	441716103300800	Bethlehem Cave near Tilford	44 17 16	103 30 08	4,560	S	1988	1992
89	441810104062300	Wagon Canyon near Sundance, Wyo.	44 18 10	104 06 23	5,650	Y	1989	1998
90	441852103594800	Little Spearfish Creek near Lead	44 18 52	103 59 48	5,710	Y	1988	1996
91	441859103385600	Adams Ranch near Lead	44 18 59	103 38 56	5,020	Y	1984	1998
92	442104103414400	Two Bit Gulch near Deadwood	44 21 04	103 41 44	5,140	S	1988	1998
93	442343103363900	Boulder Park near Sturgis	44 23 43	103 36 39	4,075	Y	1989	1998
94	442745103434500	Elkhorn Peak near Whitewood	44 27 45	103 43 45	3,835	Y	1988	1998

¹Applies only to U.S. Geological Survey gages.²Applies only to period of record presented in this report (1931-98). Precipitation data prior to 1931 exist for some National Oceanic and Atmospheric Administration stations.

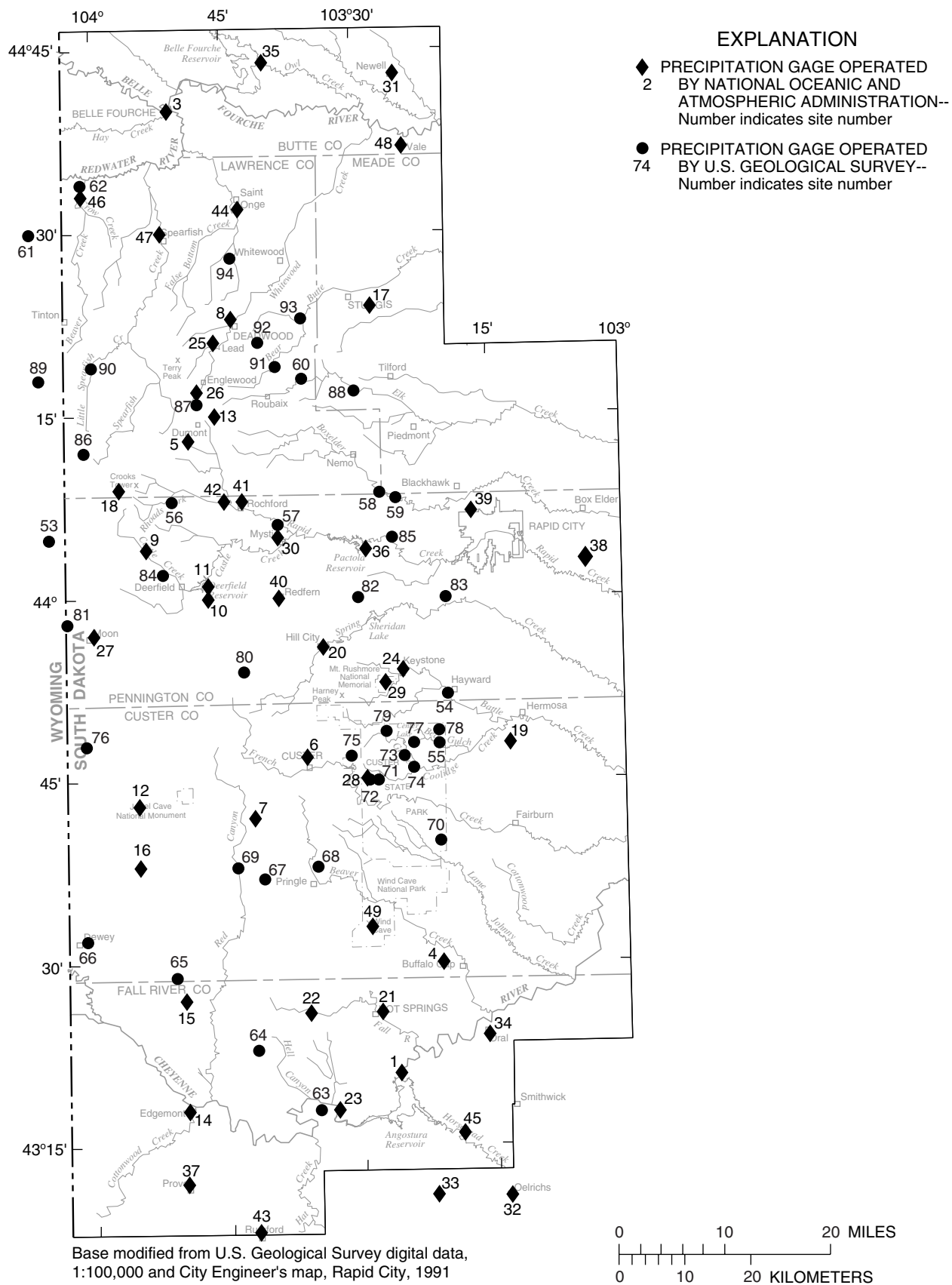


Figure 2. Location of selected precipitation gages in the Black Hills area. Selected additional stations outside of study area are shown in figure 1.

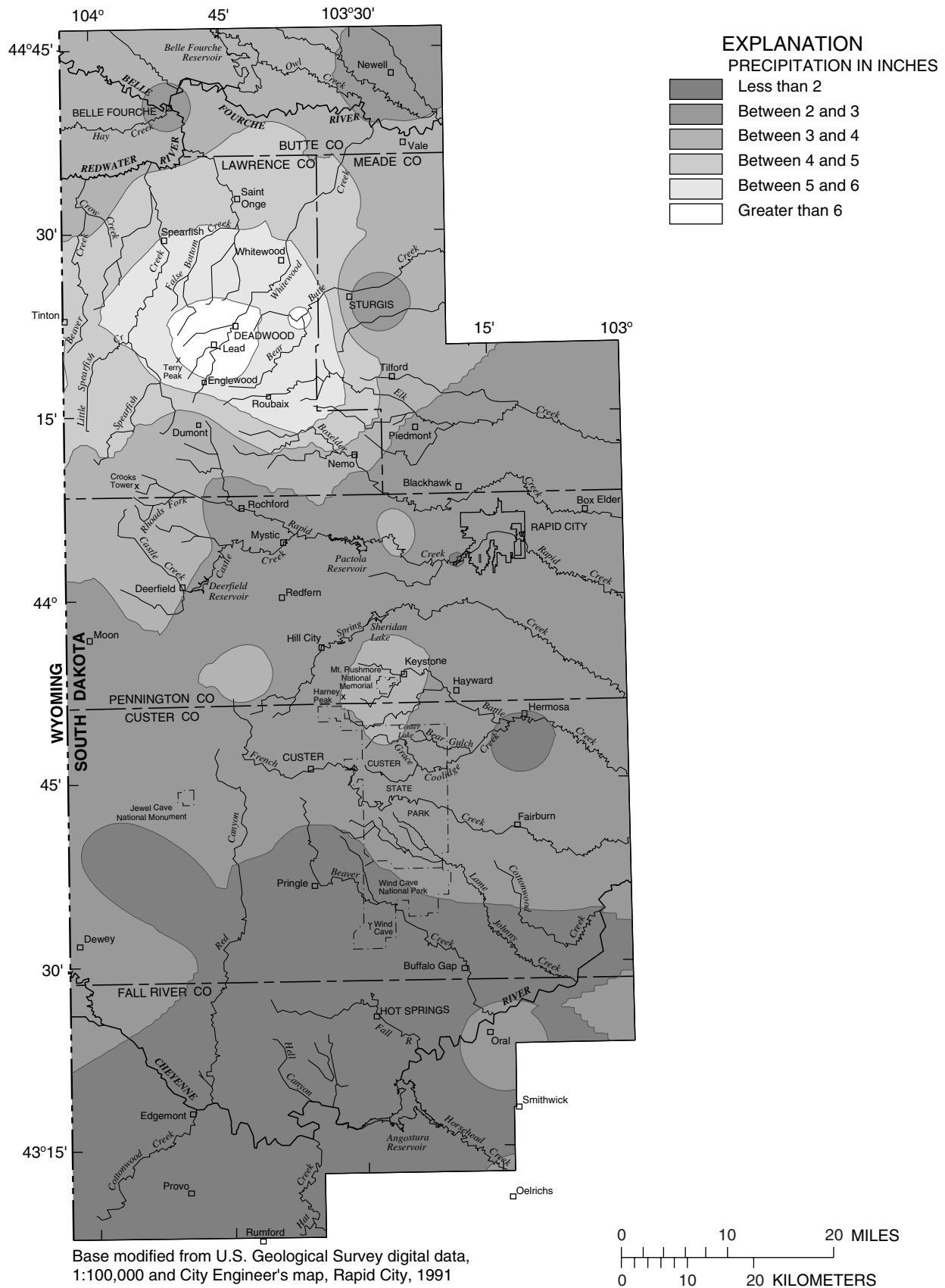


Figure 3. Example of contoured monthly precipitation distribution based on grid for October 1995.

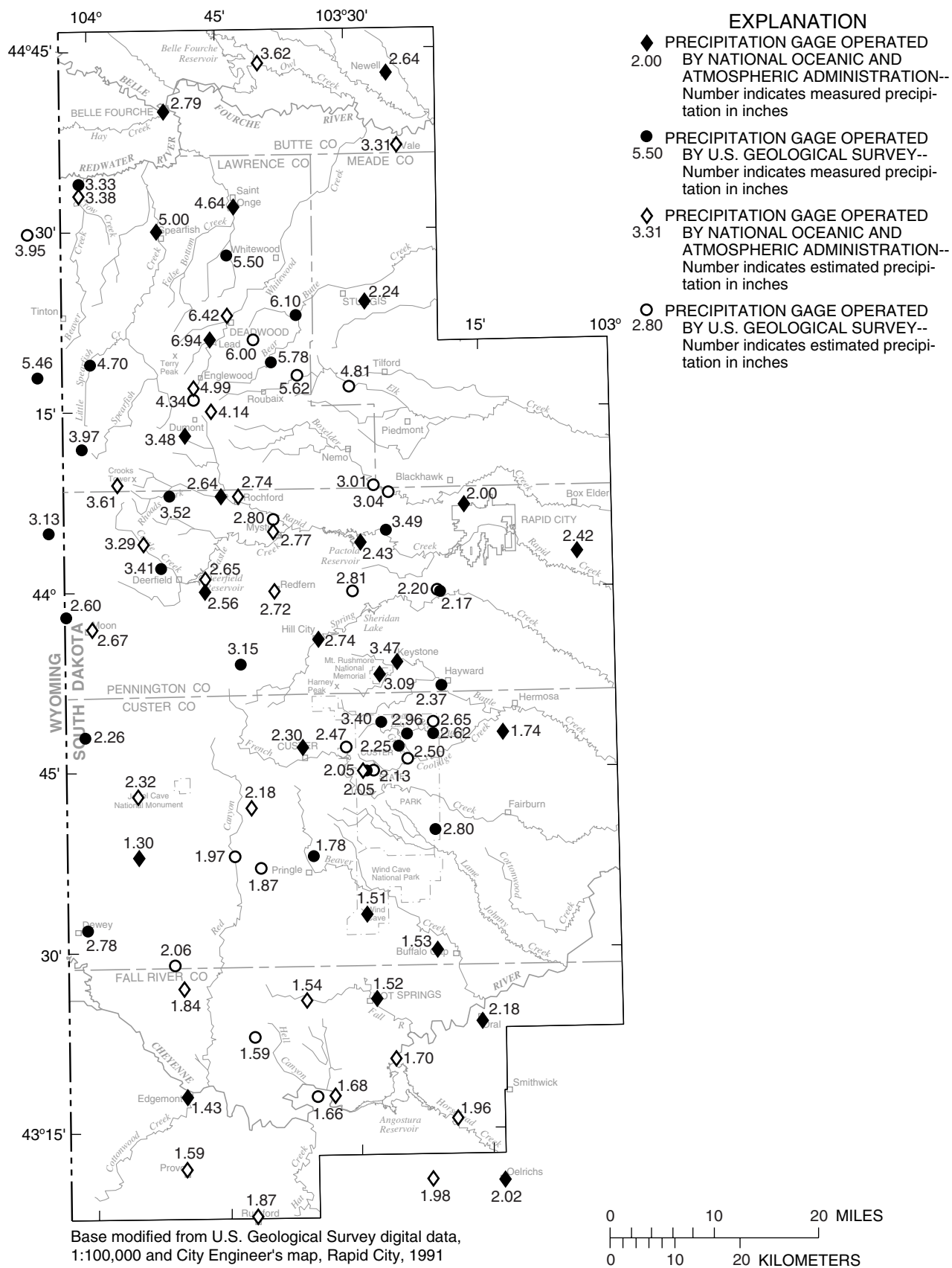


Figure 4. Measured and estimated values for precipitation gages for October 1995.

Monthly and annual data for NOAA and USGS precipitation gages are tabulated in Sections A and B, respectively, of the Supplemental Information section at the back of this report. Summaries are presented for the entire period from WY 1931-98 for all gages, regardless of the actual periods of record available for each gage. Shading is used to identify measured monthly values and annual values for which at least one measured monthly value exists. Measured precipitation values historically have been published in annual statewide data reports by NOAA and USGS, for gages operated by the respective agencies.

Averages for monthly and annual values for the period from WY 1961-90 also are provided for all gages in the supplemental tables, for use in development of an isohyetal map, as discussed in a following section of this report. A ranking of annual values, from highest to lowest, also is provided. No other summary statistics are provided because many of the data sets include large periods of estimated record. Readers are cautioned that estimated values are derived strictly from the monthly precipitation distributions and are not necessarily representative of actual precipitation that may have occurred at locations where gages have been operated. The potential for error is smallest for periods subsequent to 1990, when the density of measured data is largest. Error potential increases progressively, with decreasing data density and with increasing distance from locations with measured values. As an example, only 19 precipitation gages were operated in the area during WY 1931 (table 1).

SPATIAL AND TEMPORAL DISTRIBUTION OF PRECIPITATION DATA

The precipitation data presented in this report have been compiled for several purposes associated with characterizing the spatial and temporal distribution of precipitation in the Black Hills area. One direct application (planned for a subsequent report) is for comparison with streamflow records; thus, the precipitation records have been compiled by water year. Another purpose is to identify temporal trends in precipitation patterns, which is done later within this section. A third purpose is to characterize the spatial distribution of precipitation for “average” or “normal” conditions, as presented in the following discussions.

A normal is defined as the arithmetic average of a climatological variable over the three most recent

decades (1961-90). A normal generally is computed for periods of calendar years, with various adjustments using standardized procedures for limited periods of missing or inconsistent data. Only eight of the precipitation gages in the Black Hills area of South Dakota and two of the gages in Wyoming have sufficient record for calculation of normals (Owenby and Ezell, 1992). These 10 gages would be insufficient to accurately represent the spatial distribution of long-term precipitation patterns. Thus, averages for WY 1961-90 are presented for all NOAA and USGS gages in Supplemental Information Sections A and B, respectively.

Readers are cautioned that the WY 1961-90 averages should not be considered true normals, because computational methods for most sites are different than standardized procedures used by NOAA. It is further emphasized that the WY 1961-90 averages are intended only for the purpose of illustrating long-term precipitation patterns for the Black Hills area and are not intended to represent measured precipitation, especially for the numerous sites with large periods of estimated record.

Average annual precipitation values for WY 1961-90 for all NOAA (with the exception of the four gages shown in fig. 1) and USGS gaging locations are presented in figure 5. Only 18 of the sites considered have at least one (or more) measured values for all of these water years. This includes 15 of the sites in figure 5 (shown as filled symbols) and three of the sites shown in figure 1 (sites 2, 51, and 52).

An isohyetal map showing 1-inch isohyets (lines of equal precipitation) of average annual precipitation for water years 1961-90 is presented in figure 6. Annual precipitation for the entire study area averaged 19.06 inches for this period. Annual precipitation averages about 16 to 17 inches for most of Fall River County in the southern part of the study area. Other areas of relatively low precipitation occur in the lower elevations around the periphery of the Black Hills. The largest precipitation amounts typically occur in the northern Black Hills near Lead, where average annual precipitation exceeds 29 inches. Most of the areas of higher elevation (fig. 1) average in excess of 20 inches of precipitation per year, accounting for roughly one-third of the study area. In addition to the orographic effects, the northern Black Hills area generally receives larger annual precipitation than areas in the southern Black Hills with comparable elevations.

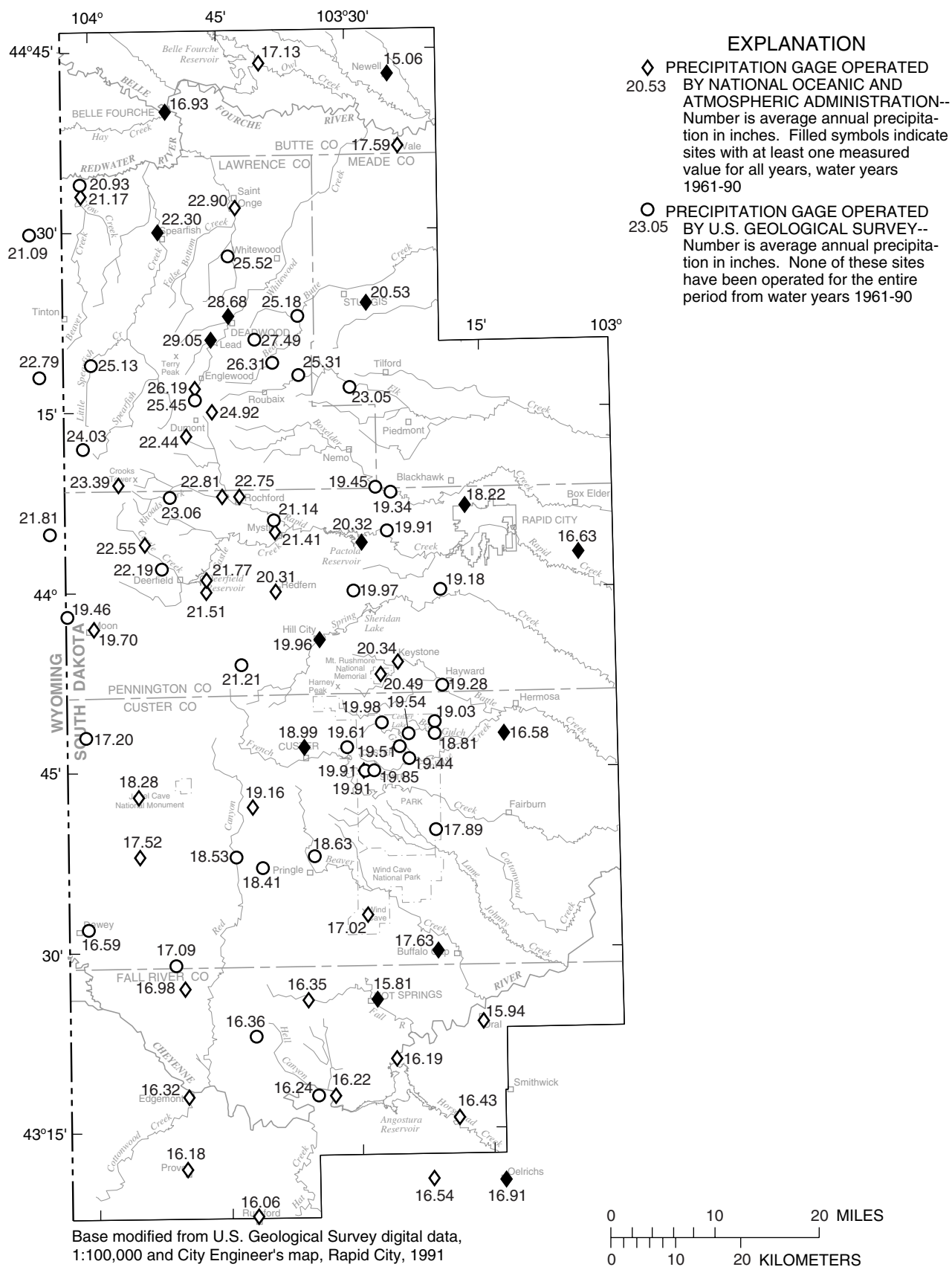


Figure 5. Average annual precipitation values for water years 1961-90 for precipitation gages in the Black Hills area.

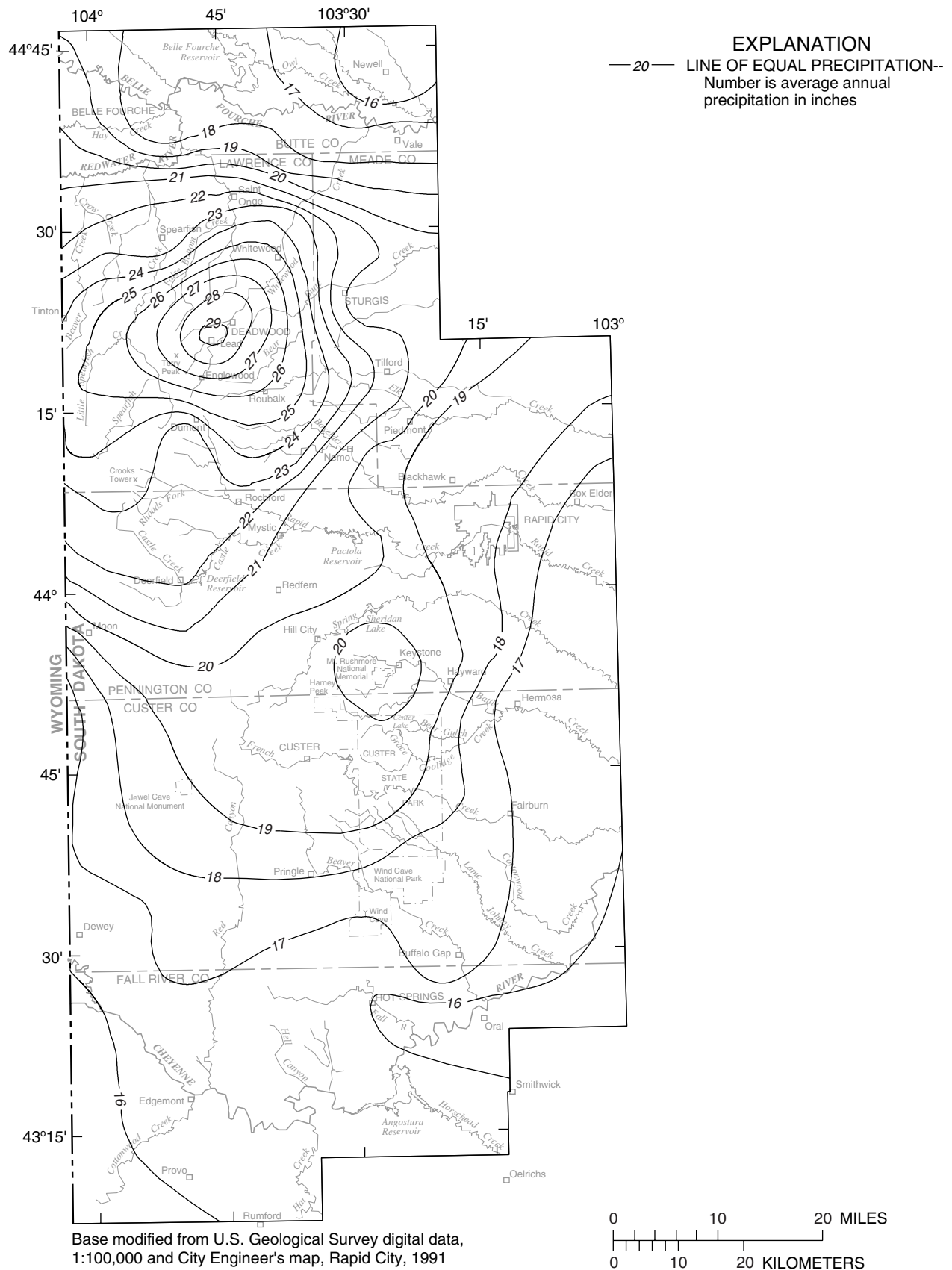


Figure 6. Isohyetal map showing distribution of average annual precipitation for the Black Hills area, water years 1961-90.

One of the primary intended purposes for compiling the precipitation databases and developing the distribution method is for future use in quantifying precipitation distribution over areas such as watersheds and aquifer outcrops. To provide an example, monthly precipitation was distributed over the entire study area and those portions of the six individual counties within the study area. Tables of monthly and annual precipitation totals for WY 1931-98, for the entire study area and for Butte, Lawrence, Meade, Pennington, Custer, and Fall River Counties (within the study area) are presented in Section C of the Supplemental Information section. The monthly values for each year are based on a calculated zonal average from the monthly distributed precipitation grids within the polygon representing the area of interest (each county area within the study area and the entire study area). The annual precipitation for each year is simply the sum of the monthly zonal averages.

Boxplots showing the distributions of monthly and annual precipitation for the entire study area and for the six counties are shown in figure 7. Summary statistics for monthly and annual precipitation are presented in table 2. Annual precipitation for the study area averages 18.61 inches and has ranged from 10.22 inches in WY 1936 to 27.39 inches in WY 1995. Annual averages for counties range from 16.35 inches in Fall River County to 23.11 inches in Lawrence County.

On average, June is the wettest month of the year for the entire study area, with an average of 18 percent of annual precipitation occurring (table 2). June also is the wettest month for all of the counties, followed closely by May. About one-third of average annual precipitation typically occurs during May and June. November through February are consistently the driest months, with an average of 12.4 percent of annual precipitation occurring for the study area. Precipitation during this period is notably higher in Lawrence County, however, with 17 percent of annual precipitation occurring.

Temporal precipitation trends are another important consideration for the Black Hills Hydrology Study. A plot of average annual precipitation for the entire study area, relative to the long-term (WY 1931-98) average of 18.60 inches, is presented as graph A in figure 8. Annual departures from the long-term average are shown in graph B and cumulative departures are shown in graph C.

Several long-term trends are apparent from figure 8. For the period prior to about WY 1960, annual precipitation seldom exceeded the long-term average (graph A). This also is apparent from the limited number of annual surpluses prior to WY 1960 in graph B. The cumulative trends are readily apparent from graph C, with the most pronounced trends identified by the longest and steepest line segments. The periods from WY 1931-40 and WY 1948-61 were sustained periods of generally deficit precipitation that were separated by a period of surplus precipitation during WY 1941-47. Surplus precipitation occurred from WY 1962-68, followed by a relatively long period of approximately average precipitation through about WY 1986. A short period of deficit precipitation from WY 1987-90 has been followed by surplus conditions through WY 1998.

Additional insights on temporal precipitation trends can be obtained from examination of tables D1 through D7 of the Supplemental Information section, which present moving average precipitation values and ranks for the Black Hills study area and for those parts of the six counties within the study area. Moving averages and ranks are provided for 1-, 3-, 5-, 10-, and 30-year periods. Ranks are assigned in order of decreasing precipitation values; thus, the largest precipitation values are assigned a rank of 1. There are a total of 68 values (and ranks) for the 1-year averages, which are simply the annual precipitation values for each area of interest for WY 1931-98. The number of values (and ranks) decreases for each subsequent set of averages, with the 30-year averages having only 39 values and ranks.

In tables D1 through D7, every tenth year is shaded to correspond with the period that would be used to calculate a 30-year "normal" value. Using table D1 as an example, the 30-year average of 19.06 inches for WY 1990, which is the average for WY 1961-90, would currently be considered normal precipitation for the entire study area. This value corresponds with the isohyetal map that is presented in figure 6, which shows the spatial distribution of average annual precipitation for the Black Hills area during WY 1961-90. This value is only 2.4 percent larger than the WY 1931-98 average of 18.61 inches. Thus, figure 6 is reasonably representative of long-term precipitation patterns for the Black Hills area.

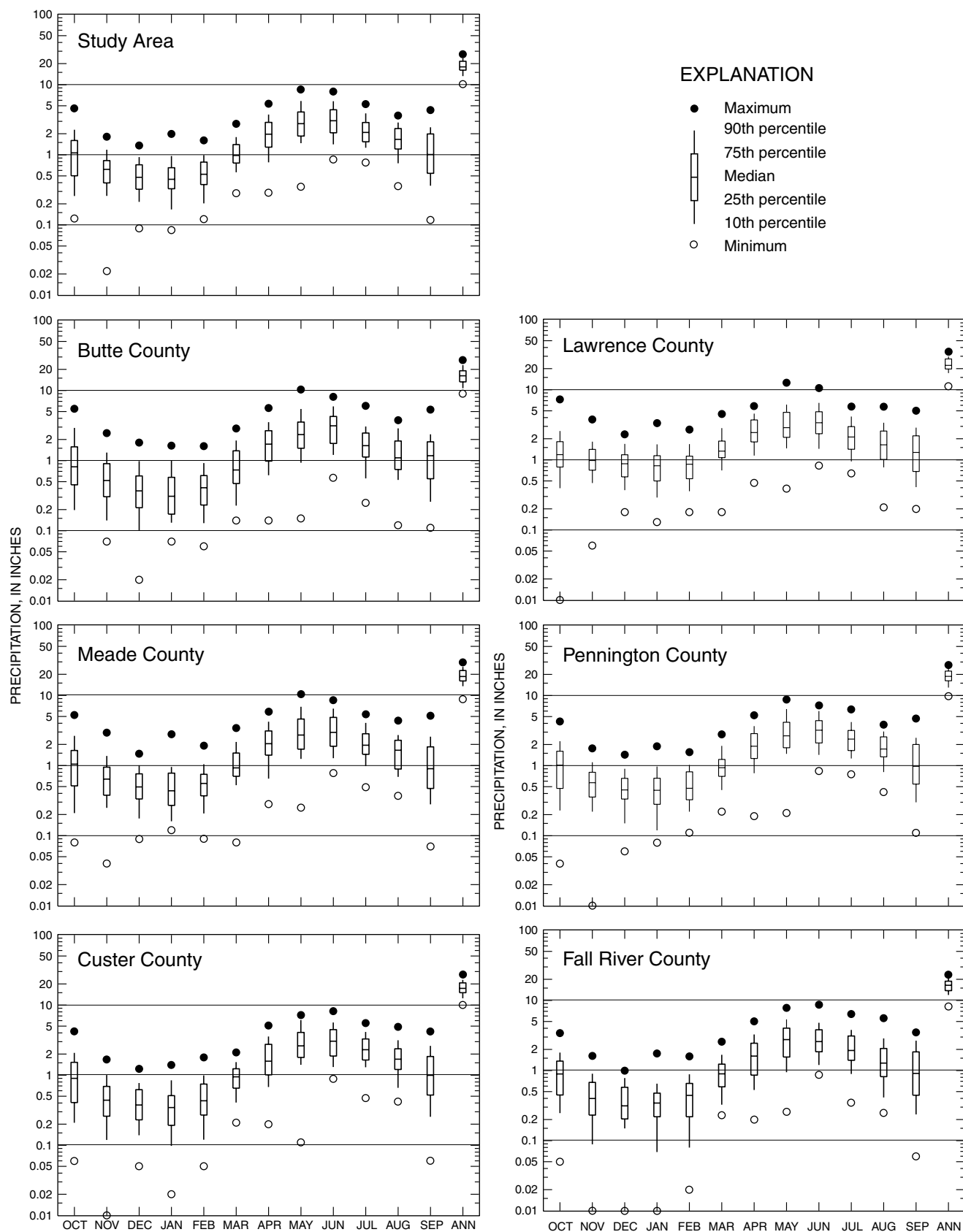


Figure 7. Distribution of monthly and annual precipitation for the study area and counties within the study area, water years 1931-98.

Table 2. Summary statistics of monthly and annual precipitation, in inches, for the study area and counties within the study area, water years 1931-98

Statistic	October	November	December	January	February	March	April	May	June	July	August	September	Annual
Study Area													
Maximum	4.62	1.82	1.36	1.99	1.60	2.76	5.37	8.56	7.97	5.27	3.65	4.36	27.39
90th percentile	2.18	1.18	0.89	0.93	0.98	1.76	3.67	5.81	5.79	3.81	2.84	2.44	23.70
75th percentile	1.53	0.83	0.72	0.64	0.76	1.40	2.81	4.08	4.38	2.84	2.32	1.98	21.47
50th percentile	1.07	0.62	0.48	0.45	0.53	0.98	1.97	2.78	3.06	2.09	1.67	1.01	17.96
25th percentile	0.51	0.40	0.33	0.33	0.38	0.76	1.29	1.87	2.06	1.57	1.21	0.55	16.16
10th percentile	0.28	0.28	0.25	0.18	0.21	0.59	0.79	1.54	1.46	1.31	0.78	0.42	13.57
Minimum	0.12	0.02	0.09	0.08	0.12	0.28	0.29	0.35	0.86	0.78	0.36	0.12	10.22
Mean	1.16	0.66	0.54	0.52	0.59	1.09	2.08	3.21	3.35	2.37	1.74	1.31	18.61
Standard deviation	0.85	0.37	0.27	0.34	0.31	0.50	1.10	1.87	1.59	1.04	0.78	0.91	3.90
Skewness	1.56	1.07	0.71	1.88	0.93	0.95	0.58	1.03	0.62	0.92	0.41	1.04	0.11
Percent of annual	6.2	3.5	2.9	2.8	3.2	5.9	11.2	17.2	18.0	12.7	9.3	7.0	100.0
Butte County													
Maximum	5.48	2.47	1.81	1.64	1.61	2.87	5.64	10.33	8.12	6.02	3.77	5.35	27.26
90th percentile	2.73	1.22	0.97	0.96	0.89	1.90	3.47	5.32	5.60	3.01	2.74	2.24	22.55
75th percentile	1.57	0.88	0.60	0.55	0.61	1.38	2.65	3.50	4.20	2.39	1.80	1.82	19.07
50th percentile	0.81	0.52	0.37	0.31	0.41	0.73	1.71	2.34	3.13	1.63	1.09	1.17	16.21
25th percentile	0.53	0.32	0.22	0.18	0.24	0.47	0.99	1.52	1.76	1.13	0.75	0.55	13.70
10th percentile	0.23	0.15	0.12	0.13	0.14	0.26	0.63	0.96	1.23	0.73	0.57	0.27	11.38
Minimum	0.01	0.07	0.02	0.07	0.06	0.14	0.14	0.15	0.57	0.25	0.12	0.11	9.06
Mean	1.16	0.64	0.47	0.44	0.46	0.93	1.93	2.83	3.25	1.84	1.37	1.28	16.58
Standard deviation	1.08	0.46	0.36	0.35	0.31	0.63	1.18	2.01	1.80	1.07	0.86	0.97	4.32
Skewness	1.89	1.43	1.49	1.51	1.36	0.97	0.75	1.68	0.69	1.26	1.04	1.52	0.49
Percent of annual	7.0	3.9	2.9	2.6	2.8	5.6	11.6	17.1	19.6	11.1	8.2	7.7	100.0

Table 2. Summary statistics of monthly and annual precipitation, in inches, for the study area and counties within the study area, water years 1931-98--Continued

Statistic	October	November	December	January	February	March	April	May	June	July	August	September	Annual
Lawrence County													
Maximum	7.29	3.76	2.31	3.35	2.71	4.52	5.86	12.64	10.56	5.77	5.75	5.03	35.22
90th percentile	2.47	1.80	1.57	1.60	1.66	2.81	4.46	5.94	6.39	3.88	3.29	2.80	29.71
75th percentile	1.82	1.40	1.18	1.14	1.09	1.80	3.67	4.63	4.84	2.96	2.58	2.16	27.17
50th percentile	1.19	0.98	0.88	0.83	0.86	1.33	2.45	2.88	3.38	2.12	1.64	1.29	22.31
25th percentile	0.81	0.72	0.60	0.50	0.55	1.08	1.81	2.10	2.37	1.43	1.02	0.71	19.80
10th percentile	0.41	0.49	0.38	0.33	0.36	0.75	1.21	1.47	1.54	1.10	0.79	0.42	17.37
Minimum	0.01	0.06	0.18	0.13	0.18	0.18	0.47	0.39	0.83	0.64	0.21	0.20	11.26
Mean	1.52	1.14	0.95	0.92	0.93	1.58	2.74	3.74	3.83	2.35	1.86	1.56	23.11
Standard deviation	1.26	0.69	0.51	0.59	0.52	0.89	1.31	2.55	2.05	1.19	1.04	1.10	5.17
Skewness	2.40	1.68	0.95	1.54	1.12	1.44	0.33	1.64	1.00	0.97	1.05	1.12	0.24
Percent of annual	6.6	4.9	4.1	4.0	4.0	6.8	11.8	16.2	16.6	10.2	8.0	6.8	100.0
Meade County													
Maximum	5.29	2.94	1.47	2.77	1.91	3.43	5.84	10.41	8.58	5.38	4.38	5.14	29.74
90th percentile	2.47	1.27	0.97	0.93	1.03	2.11	4.03	6.68	6.31	4.04	2.70	2.51	24.94
75th percentile	1.61	0.94	0.72	0.78	0.74	1.46	3.10	4.57	4.83	2.79	2.28	1.82	22.49
50th percentile	1.05	0.64	0.49	0.44	0.55	0.92	2.04	2.71	2.98	1.95	1.65	0.90	18.56
25th percentile	0.52	0.39	0.34	0.27	0.37	0.70	1.41	1.80	1.98	1.46	0.91	0.52	16.08
10th percentile	0.24	0.27	0.18	0.17	0.21	0.54	0.66	1.28	1.31	1.09	0.71	0.30	13.72
Minimum	0.08	0.04	0.09	0.12	0.09	0.08	0.28	0.25	0.78	0.49	0.37	0.07	8.88
Mean	1.27	0.73	0.55	0.56	0.60	1.16	2.29	3.37	3.52	2.25	1.66	1.28	19.24
Standard deviation	1.08	0.50	0.32	0.44	0.35	0.69	1.28	2.30	1.88	1.14	0.84	1.02	4.63
Skewness	1.90	1.83	0.97	2.53	1.16	1.23	0.55	1.27	0.64	1.03	0.52	1.45	0.25
Percent of annual	6.6	3.8	2.9	2.9	3.1	6.0	11.9	17.5	18.3	11.7	8.6	6.6	100.0

Table 2. Summary statistics of monthly and annual precipitation, in inches, for the study area and counties within the study area, water years 1931-98—Continued

Statistic	October	November	December	January	February	March	April	May	June	July	August	September	Annual
Pennington County													
Maximum	4.24	1.76	1.43	1.89	1.56	2.79	5.21	8.75	7.22	6.35	3.84	4.72	27.21
90th percentile	2.20	1.11	0.85	0.95	1.01	1.83	3.56	6.34	5.89	4.05	3.06	2.44	24.58
75th percentile	1.54	0.79	0.65	0.66	0.79	1.21	2.84	4.15	4.35	3.15	2.55	1.90	22.03
50th percentile	1.01	0.57	0.45	0.45	0.48	0.93	1.88	2.70	3.19	2.39	1.72	0.97	18.71
25th percentile	0.50	0.36	0.33	0.31	0.34	0.72	1.29	1.81	2.22	1.64	1.34	0.57	16.54
10th percentile	0.24	0.23	0.18	0.13	0.23	0.46	0.83	1.56	1.43	1.27	0.82	0.30	13.07
Minimum	0.04	0.01	0.06	0.08	0.11	0.22	0.19	0.21	0.84	0.75	0.42	0.11	9.78
Mean	1.13	0.62	0.51	0.51	0.57	1.04	2.09	3.27	3.45	2.57	1.92	1.29	18.98
Standard deviation	0.86	0.36	0.28	0.34	0.32	0.53	1.16	1.97	1.62	1.18	0.86	0.94	4.17
Skewness	1.42	1.14	0.90	1.56	0.89	1.06	0.67	0.97	0.50	0.97	0.31	1.25	-0.01
Percent of annual	6.0	3.3	2.7	2.7	3.0	5.5	11.0	17.2	18.2	13.5	10.1	6.8	100.0
Custer County													
Maximum	4.22	1.67	1.23	1.40	1.80	2.11	5.12	7.24	8.21	5.52	4.89	4.21	27.33
90th percentile	2.00	0.94	0.75	0.84	0.94	1.49	3.48	5.83	5.58	3.98	3.09	2.52	22.76
75th percentile	1.51	0.69	0.62	0.51	0.74	1.22	2.61	4.06	4.42	3.24	2.37	1.83	20.67
50th percentile	0.90	0.44	0.37	0.35	0.43	0.95	1.58	2.68	3.05	2.30	1.69	1.00	17.30
25th percentile	0.42	0.26	0.23	0.20	0.27	0.66	1.03	1.83	1.96	1.69	1.30	0.54	15.19
10th percentile	0.24	0.12	0.15	0.10	0.15	0.41	0.68	1.45	1.35	1.32	0.68	0.28	12.83
Minimum	0.06	0.00	0.05	0.02	0.05	0.21	0.20	0.11	0.89	0.47	0.42	0.06	10.05
Mean	1.06	0.51	0.44	0.41	0.51	0.97	1.87	3.12	3.25	2.51	1.84	1.26	17.73
Standard deviation	0.90	0.44	0.37	0.35	0.43	0.95	1.58	2.68	3.05	2.30	1.69	1.00	17.30
Skewness	1.41	0.84	0.79	1.49	1.22	0.56	0.69	0.74	0.68	0.88	0.78	1.03	0.09
Percent of annual	6.0	2.9	2.5	2.3	2.9	5.5	10.5	17.6	18.3	14.2	10.4	7.1	100.0

Table 2. Summary statistics of monthly and annual precipitation, in inches, for the study area and counties within the study area, water years 1931-98--Continued

Statistic	October	November	December	January	February	March	April	May	June	July	August	September	Annual
	Fall River County												
Maximum	3.44	1.62	1.00	1.76	1.60	2.59	5.07	7.88	8.72	6.42	5.59	3.52	23.39
90th percentile	1.80	0.90	0.79	0.62	0.87	1.66	3.25	5.21	4.62	3.73	2.81	2.59	20.91
75th percentile	1.36	0.68	0.54	0.47	0.63	1.24	2.43	3.93	3.80	3.08	2.01	1.85	18.79
50th percentile	0.89	0.40	0.32	0.35	0.45	0.90	1.61	2.77	2.58	1.94	1.28	0.91	16.51
25th percentile	0.45	0.24	0.21	0.21	0.22	0.58	0.91	1.57	1.87	1.40	0.84	0.51	13.86
10th percentile	0.26	0.12	0.16	0.08	0.09	0.33	0.56	1.00	1.22	0.91	0.45	0.24	12.24
Minimum	0.05	0.00	0.01	0.00	0.02	0.23	0.20	0.26	0.87	0.35	0.25	0.06	8.24
Mean	0.99	0.48	0.40	0.37	0.48	0.96	1.79	2.91	2.93	2.28	1.52	1.24	16.35
Standard deviation	0.89	0.40	0.32	0.35	0.45	0.90	1.61	2.77	2.58	1.94	1.28	0.91	16.51
Skewness	1.18	1.13	0.76	2.26	0.94	0.87	0.78	0.70	1.17	1.07	1.42	0.80	0.05
Percent of annual	6.1	3.0	2.4	2.3	2.9	5.9	11.0	17.8	17.9	13.9	9.3	7.6	100.0

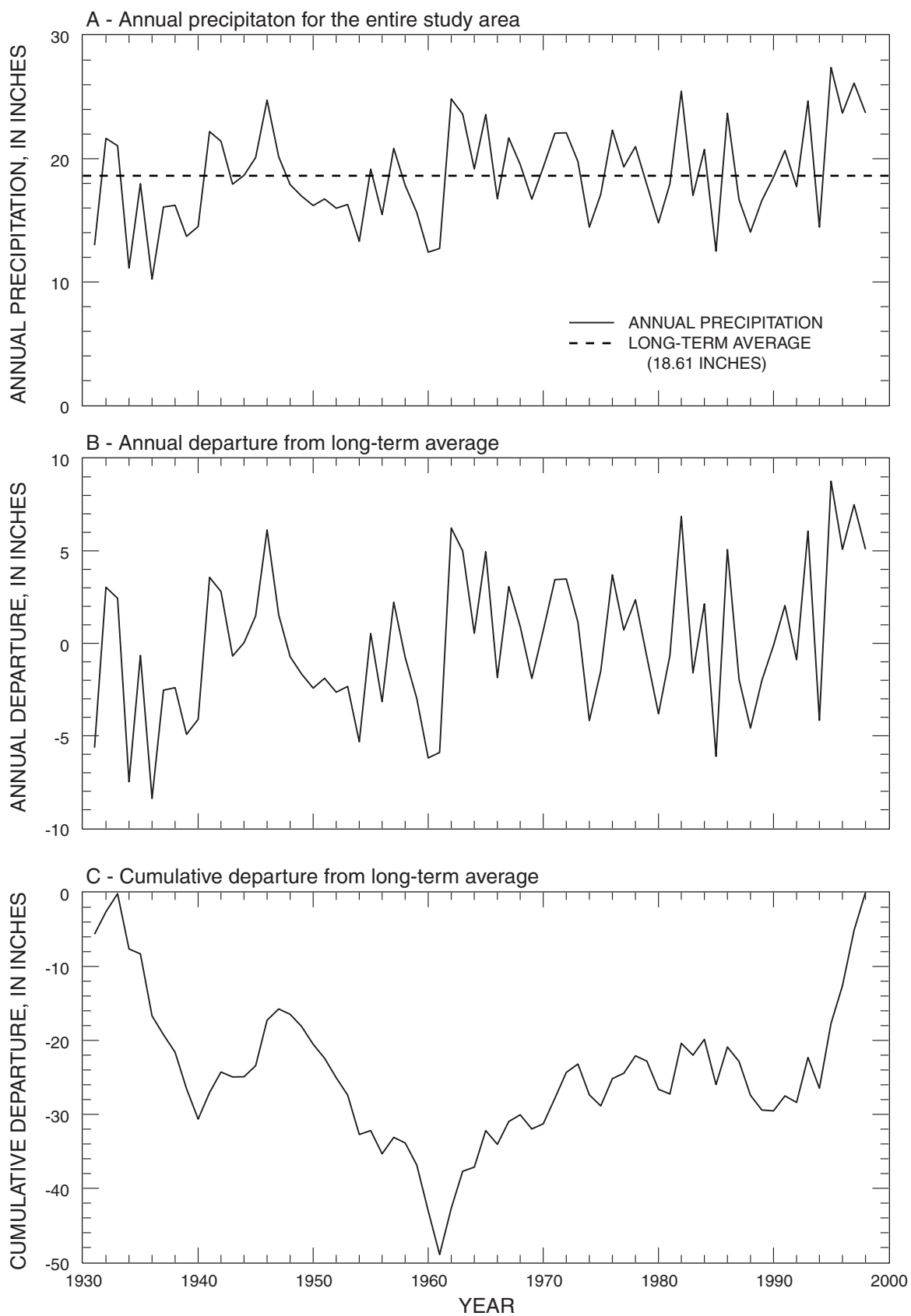


Figure 8. Long-term trends in precipitation for the Black Hills area, water years 1931-98.

The WY 1961-90 average of 19.61 inches is the largest value of the four normal periods that can be computed from the data set. Considering all 39 of the 30-year averages, however, the WY 1961-90 value has a rank of only 9, which means this is the ninth wettest 30-year period since WY 1931. The wettest 30-year period is WY 1969-98, during which precipitation over the entire study area averaged 19.61 inches. The lowest normal value is 17.17 inches for WY 1931-60, which is tied with WY 1932-61 as the driest 30-year period.

Examination of tables D1-D7 shows that the long-term trends for the entire study area that were identified in figure 8 are generally consistent for all of the six counties within the study area. The single driest year for the study area was 10.22 inches during WY 1936, which also was the driest year for all of the counties except Custer and Fall River Counties. Many of the years during the 1930's are among the driest of record for all of the counties, as evidenced by numerous low rankings for the 1-, 3-, 5-, and 10-year averages. Similarly, many years from the late 1940's through WY 1961 were very dry for most counties, with WY 1960 and 1961 capping the most prolonged dry period for the entire study area since 1931 (fig. 8). Precipitation generally was low in all counties during the late 1980's; however, the duration of this dry period was relatively short in comparison with the two previous extended dry periods. The late 1990's clearly stand out as the wettest period of record since 1931. The wettest year of record for the study area was 27.39 inches during WY 1995, and the wettest year for all counties except Meade County has occurred during or since WY 1995. Many of the highest ranking moving averages for all categories occur in the period since WY 1995 for all counties.

SELECTED REFERENCES

- Addison, E.L., 1991, Rainfall/runoff relationships and modeling of changes in water yield from timber harvest in the Black Hills of South Dakota: Rapid City, South Dakota School of Mines and Technology, unpublished M.S. thesis, 103 p.
- Daly, C., Nielson, R.P., Phillips, D.L., 1994, A digital topographic model for distributing precipitation over mountainous terrain: Corvallis, Oreg., U.S. Environmental Protection Agency Environmental Research Laboratory, 57 p.
- Driscoll, D.G., 1992, Plan of study for the Black Hills Hydrology Study, South Dakota: U.S. Geological Survey Open-File Report 92-84, 10 p.
- Environmental Systems Research Institute, Inc., 1992, ARC/INFO users guide—the geographic information system software: Redlands, Calif. [variously paged].
- National Oceanic and Atmospheric Administration, 1998, Climatological data for South Dakota, annual summary: Asheville, North Carolina, U.S. Department of Commerce (issued annually).
- Owenby, J.R., and Ezell, D.S., 1992, Monthly station normals of temperature, precipitation, and heating and cooling degree days, 1961-90: Asheville, North Carolina, U.S. Department of Commerce, unpaginated.
- Strobel, M.L., Jarrell, G.J., Sawyer, J. Foster, Schleicher, J.R., Fahrenbach, M.D., 1999, Distribution of hydrogeologic units in the Black Hills area, South Dakota: U.S. Geological Survey Hydrologic Atlas HA-743, 3 sheets, scale 1:100,000.
- Trimarchi, S.D., 1997, A climatology of the Black Hills region: Rapid City, South Dakota School of Mines and Technology, unpublished M.S. thesis, 218 p.
- U.S. Geological Survey, 1983-99, Water resources data for South Dakota, water years 1982-98: U.S. Geological Survey Water Data Reports SD-82-1 to SD-98-1 (published annually).

SUPPLEMENTAL INFORMATION

Section A - Monthly and annual data for
National Oceanic and Atmospheric Administration
precipitation gages, water years 1931-98

Measured (shaded) and estimated precipitation, in inches, for site 1, Angostura Dam (390217)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.31	0.90	0.02	0.47	0.38	0.96	0.58	1.94	1.32	1.77	1.80	0.99	14.44	44
1932	1.43	0.58	0.92	0.86	1.26	3.58	3.15	3.16	2.03	2.77	1.65	0.10	21.49	8
1933	1.06	0.07	0.40	0.09	0.63	1.81	4.03	5.39	1.08	1.18	6.36	0.38	22.48	7
1934	0.15	0.37	0.36	0.36	0.61	1.62	0.72	0.40	2.61	2.03	1.31	0.84	11.38	64
1935	0.96	0.23	0.30	0.19	0.45	2.02	2.74	9.00	2.37	0.86	1.18	1.03	21.33	9
1936	0.53	0.54	0.34	0.46	1.06	0.71	0.97	0.74	2.03	0.20	0.68	1.20	9.46	67
1937	0.52	0.95	0.63	0.48	0.39	2.12	0.69	1.38	6.09	2.40	0.18	0.65	16.48	34
1938	0.82	0.41	0.22	0.41	0.04	1.44	1.80	3.79	1.73	2.53	0.80	3.07	17.06	32
1939	0.24	0.56	0.16	0.11	0.52	0.78	0.48	1.95	2.28	0.45	2.67	0.98	11.18	66
1940	0.89	0.00	0.23	0.47	0.50	0.78	4.82	0.74	1.00	1.93	0.50	1.57	13.43	56
1941	0.75	0.32	0.18	0.21	0.11	0.88	5.66	0.97	3.72	2.57	4.07	1.14	20.58	12
1942	0.89	0.25	0.55	0.03	0.34	1.00	3.33	4.14	3.48	3.80	0.93	1.89	20.63	11
1943	1.86	0.31	0.21	0.30	0.25	0.70	3.09	3.74	4.11	2.09	0.96	0.41	18.03	26
1944	1.19	0.01	0.25	1.07	0.68	0.47	2.51	3.91	2.87	4.51	1.50	0.18	19.15	17
1945	0.37	0.93	0.67	0.45	0.60	1.77	0.56	1.58	3.46	2.17	2.07	1.75	16.38	35
1946	0.02	0.02	0.56	0.23	0.36	0.93	1.17	7.70	3.03	1.64	1.16	3.23	20.05	15
1947	1.23	0.18	0.55	0.43	0.06	0.16	1.27	2.90	9.17	3.54	1.05	0.28	20.82	10
1948	0.85	1.28	0.27	0.03	0.69	0.61	1.57	1.56	3.25	2.75	2.69	0.49	16.04	37
1949	1.24	0.28	0.42	1.58	0.00	0.41	1.57	4.61	2.43	1.81	0.87	0.89	16.11	36
1950	0.79	0.01	0.52	0.30	0.07	1.02	1.72	1.69	0.77	1.01	1.83	2.31	12.04	61
1951	0.34	0.28	0.16	0.22	0.16	0.76	0.76	1.11	3.86	3.89	1.33	2.83	15.70	39
1952	1.04	0.21	0.46	0.03	0.71	0.84	0.31	4.53	3.04	1.39	1.40	0.03	13.99	49
1953	0.21	0.96	0.17	0.84	0.98	0.46	2.86	1.42	2.14	1.62	1.23	0.79	13.68	53
1954	0.26	0.29	0.31	0.17	0.54	1.49	0.69	3.29	1.98	1.48	0.23	0.65	11.38	65
1955	2.23	0.20	0.16	0.33	1.26	1.18	0.69	2.93	2.04	2.07	3.29	3.93	20.31	13
1956	0.42	0.35	0.66	0.29	0.24	0.48	1.09	5.09	1.97	1.22	1.38	0.24	13.43	57
1957	0.06	0.84	0.57	0.32	0.22	1.84	2.44	6.11	3.10	1.65	1.89	1.19	20.23	14
1958	1.76	0.38	0.10	0.07	0.97	1.52	2.86	0.87	2.49	3.70	0.36	0.06	15.14	41
1959	0.16	0.25	0.30	0.37	0.29	0.62	0.76	2.95	3.69	1.23	0.30	3.12	14.04	48
1960	0.27	0.55	0.28	0.41	0.70	0.17	0.83	0.82	2.74	0.35	0.48	0.10	7.70	68
1961	0.00	0.87	0.65	0.05	0.23	0.94	1.06	3.02	1.15	2.98	0.22	1.15	12.32	60
1962	0.44	0.36	0.34	0.23	0.87	0.83	0.25	6.08	5.17	3.44	0.50	0.58	19.09	18
1963	2.19	0.18	0.27	0.32	0.35	2.22	3.41	1.58	5.75	3.51	1.46	2.90	24.14	2
1964	0.95	0.00	0.22	0.14	0.67	1.26	2.14	3.28	4.20	0.19	0.88	0.19	14.12	47
1965	0.00	0.88	0.52	0.59	0.46	0.83	1.30	4.27	3.86	2.70	1.47	2.30	19.18	16
1966	0.30	0.20	0.26	0.22	0.59	0.35	2.47	0.31	0.56	4.08	2.52	2.13	13.99	50
1967	1.19	0.52	0.38	0.32	0.10	0.95	1.74	3.56	7.09	0.68	0.21	0.76	17.50	30
1968	0.49	0.27	0.75	0.20	0.13	0.84	1.03	2.87	6.25	1.68	1.83	1.17	17.51	29
1969	0.48	0.32	0.57	0.38	0.91	0.19	1.02	1.16	2.09	5.86	0.15	0.31	13.44	55
1970	0.98	0.29	0.18	0.14	0.23	1.26	2.23	1.77	2.61	2.42	0.47	1.82	14.40	45
1971	1.31	0.52	0.26	0.45	0.76	0.16	3.38	5.45	2.16	1.09	0.34	2.40	18.28	23
1972	1.32	0.69	0.29	0.36	0.12	0.77	1.36	2.52	3.82	1.51	1.70	0.68	15.14	42
1973	1.29	0.22	0.19	0.16	0.45	2.03	2.99	1.61	1.22	3.08	1.43	2.85	17.52	28
1974	1.52	0.71	0.60	0.56	0.10	0.24	2.43	0.98	1.22	2.09	1.77	1.29	13.51	54
1975	2.13	0.27	0.05	0.65	0.55	1.21	1.42	2.00	4.69	1.21	0.41	0.11	14.70	43
1976	0.48	0.35	0.83	0.55	0.67	0.69	3.38	2.07	3.33	3.78	1.42	0.62	18.17	25
1977	0.49	0.20	0.16	0.42	0.05	1.19	2.42	2.41	2.21	3.68	2.90	2.20	18.33	22
1978	0.95	0.94	0.51	0.43	0.67	0.31	1.65	4.19	1.48	3.27	2.89	0.34	17.63	27
1979	0.45	0.42	0.60	0.53	0.34	0.26	0.79	1.51	2.28	3.19	3.58	0.27	14.22	46
1980	0.76	0.16	0.01	0.29	0.40	1.05	0.99	2.03	2.68	1.76	2.13	0.35	12.61	59
1981	1.69	0.43	0.58	0.07	0.18	0.37	0.71	5.11	1.17	4.26	0.94	0.27	15.78	38
1982	1.69	0.12	0.73	0.48	0.27	1.10	1.04	6.41	4.54	1.82	1.85	2.44	22.49	6
1983	1.14	0.83	0.38	0.26	0.04	1.28	0.73	2.39	3.05	2.12	1.38	0.39	13.99	51
1984	1.58	1.27	0.72	0.35	0.34	1.18	3.54	2.39	3.03	2.12	1.05	0.61	18.18	24
1985	1.00	0.47	0.23	0.36	0.24	0.46	1.19	0.81	1.52	2.23	0.55	2.49	11.55	63
1986	0.74	1.51	0.18	0.23	0.77	0.67	3.17	1.31	4.49	1.62	0.92	3.22	18.83	20
1987	1.68	0.75	0.10	0.05	1.49	1.91	0.11	4.90	1.00	1.03	1.39	0.89	15.30	40
1988	0.40	0.65	0.67	0.24	0.17	0.18	0.57	3.07	2.45	1.92	2.42	0.99	13.73	52
1989	0.39	0.67	0.31	0.00	0.32	0.87	1.39	1.40	0.98	2.46	1.23	3.19	13.21	58
1990	0.71	0.25	0.26	0.04	0.38	1.18	2.09	5.37	1.96	2.40	0.82	1.35	16.81	33
1991	0.68	0.77	0.44	0.17	0.87	0.73	2.15	4.21	4.15	1.27	1.18	0.74	17.36	31
1992	1.20	1.02	0.06	0.21	0.67	1.90	0.69	3.78	3.84	3.90	1.40	0.27	18.94	19
1993	0.61	0.58	0.75	0.77	1.06	1.01	2.41	1.63	5.33	4.43	3.66	1.47	23.71	3
1994	1.66	0.85	0.51	0.38	0.52	0.63	0.89	1.47	2.10	1.05	1.22	0.47	11.75	62
1995	3.31	0.22	1.06	0.38	0.56	0.69	1.68	5.25	4.49	2.10	1.04	1.73	22.51	5
1996	1.70	0.31	0.15	0.62	0.07	0.70	2.46	4.76	1.11	1.06	4.10	1.77	18.81	21
1997	1.40	0.45	0.84	1.02	0.87	0.34	2.81	3.77	4.13	7.80	1.34	0.71	25.48	1
1998	1.11	0.00	0.08	0.62	0.81	2.13	0.58	4.02	4.08	2.99	3.82	2.36	22.60	4
Mean 1961-90	0.96	0.51	0.39	0.30	0.43	0.89	1.73	2.86	2.93	2.47	1.36	1.34	16.19	

Measured (shaded) and estimated precipitation, in inches, for site 2, Ardmore 2N (390236)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.58	0.34	0.01	0.02	0.36	0.73	0.19	1.13	1.89	0.79	1.34	0.44	10.82	66
1932	1.71	0.31	0.33	0.39	0.07	0.71	4.17	2.73	0.69	1.01	2.63	0.19	14.94	41
1933	0.95	0.09	0.14	0.04	0.29	1.32	3.18	3.39	0.54	1.25	4.30	0.21	15.70	34
1934	0.03	0.19	0.17	0.30	0.33	0.60	1.11	0.30	3.56	3.16	2.47	1.37	13.59	52
1935	1.39	0.20	0.11	0.07	0.29	2.23	4.59	5.66	1.31	1.22	1.42	0.26	18.75	16
1936	0.36	0.24	0.23	0.61	1.35	0.95	0.70	1.42	1.58	0.79	1.71	1.07	11.01	65
1937	0.65	0.92	0.20	0.57	0.43	1.46	0.62	2.77	2.86	1.04	0.43	0.37	12.32	59
1938	1.06	0.41	0.41	0.52	0.17	2.22	2.08	3.07	1.30	0.98	0.69	2.36	15.27	36
1939	0.23	0.92	0.24	0.83	0.52	0.62	0.59	3.05	1.68	0.47	2.87	0.71	12.73	56
1940	1.15	0.00	0.16	0.36	0.56	0.91	5.22	0.41	2.47	0.76	1.08	1.93	15.01	39
1941	0.50	0.43	0.24	0.30	0.19	0.84	4.44	0.69	5.42	4.07	1.41	1.08	19.61	12
1942	0.81	0.45	0.88	0.04	0.76	1.17	4.74	6.38	4.30	2.65	0.10	1.46	23.74	2
1943	1.70	0.64	0.13	0.44	0.16	0.87	2.17	7.32	3.12	1.71	0.11	0.31	18.68	17
1944	1.74	0.02	0.08	0.48	0.41	0.29	1.59	2.67	2.79	4.23	1.79	0.24	16.33	30
1945	0.42	0.76	0.54	0.28	0.41	1.21	0.49	1.28	3.01	1.31	2.84	2.00	14.55	45
1946	0.31	0.07	0.81	0.36	0.26	1.03	0.86	5.15	3.02	0.40	0.93	4.02	17.22	23
1947	0.75	0.09	0.34	0.17	0.09	0.49	1.03	3.42	7.96	0.76	0.42	1.64	17.16	24
1948	0.95	1.33	0.27	0.02	0.54	0.45	2.16	2.43	3.47	2.81	1.97	1.02	17.42	21
1949	1.52	0.76	0.60	2.05	0.10	0.13	1.80	3.19	1.62	1.74	1.27	1.49	16.27	31
1950	1.19	0.00	0.52	0.25	0.00	0.66	1.53	1.44	1.09	2.98	1.49	1.99	13.14	54
1951	0.40	0.09	0.25	0.06	0.02	0.79	0.67	1.62	3.82	3.39	0.95	2.34	14.40	46
1952	1.44	0.00	0.29	0.00	0.56	0.47	0.08	4.21	1.74	0.79	1.90	0.00	11.48	63
1953	0.20	0.66	0.29	0.75	1.44	0.50	2.44	0.59	2.65	0.58	2.12	0.39	12.61	57
1954	0.23	0.25	0.50	0.22	0.61	2.26	0.20	3.28	1.14	1.45	0.78	0.72	11.64	61
1955	1.82	0.34	0.23	0.39	0.75	0.99	1.22	2.85	2.24	2.07	0.87	3.03	16.80	26
1956	0.32	1.02	0.80	0.36	0.20	0.50	1.41	3.10	3.35	0.85	2.72	0.20	14.83	44
1957	0.30	1.85	0.20	0.16	0.15	0.90	1.69	5.96	2.89	2.94	0.85	1.42	19.31	14
1958	1.23	0.52	0.20	0.00	0.60	1.19	3.11	1.34	3.43	6.13	0.55	0.00	18.30	19
1959	0.00	0.12	0.29	0.50	0.38	0.84	0.37	2.94	2.87	2.19	0.20	3.21	13.91	48
1960	0.44	0.84	0.11	0.51	0.49	0.67	1.49	1.06	0.83	1.65	0.48	0.21	8.78	68
1961	0.05	0.95	0.91	0.14	0.13	0.46	1.73	2.96	0.84	3.70	1.11	0.76	13.74	50
1962	0.65	0.07	0.40	0.19	1.02	0.29	0.23	5.69	3.51	4.02	0.52	0.19	16.78	27
1963	0.81	0.22	0.29	1.11	0.15	2.07	1.71	2.05	3.67	2.42	0.60	1.53	16.63	29
1964	0.97	0.02	0.31	0.33	1.63	0.31	3.03	2.58	4.52	0.59	0.42	0.27	14.98	40
1965	0.28	0.07	0.37	0.56	0.54	0.64	1.30	5.65	1.96	3.65	0.76	3.08	18.86	15
1966	0.24	0.21	0.41	0.69	1.18	0.81	2.48	0.31	1.09	2.71	2.92	0.78	13.83	49
1967	2.74	0.80	0.39	0.57	0.21	0.85	3.85	3.10	7.01	1.66	0.12	0.76	22.06	3
1968	0.62	0.33	0.80	0.23	0.30	0.44	2.78	3.42	4.05	1.74	4.93	0.34	19.98	7
1969	0.54	0.20	0.36	0.51	0.65	0.43	1.30	0.93	2.31	2.67	0.06	0.31	10.27	67
1970	1.58	0.45	0.15	0.30	0.09	0.71	1.74	1.32	1.70	1.38	1.86	1.07	12.35	58
1971	1.29	0.48	0.13	0.20	0.88	0.44	2.48	5.57	2.78	2.16	0.10	2.92	19.43	13
1972	1.62	0.30	0.09	0.10	0.31	0.31	1.95	2.12	4.56	2.25	0.85	0.60	15.06	37
1973	1.39	0.17	0.15	0.50	0.34	3.49	3.77	1.42	1.17	3.24	0.73	3.26	19.63	10
1974	0.94	0.38	0.77	0.65	0.20	0.31	2.77	0.35	0.59	1.96	1.37	1.23	11.52	62
1975	1.56	0.04	0.04	0.58	0.41	1.30	1.41	1.92	3.44	0.00	0.53	0.09	11.32	64
1976	0.48	0.20	1.33	0.41	0.27	0.27	1.40	4.14	2.04	4.65	1.15	2.12	18.46	18
1977	0.38	0.20	0.10	0.38	0.14	1.70	2.50	1.91	1.80	0.70	2.22	1.61	13.64	51
1978	0.22	1.79	0.43	0.60	0.56	0.12	1.58	4.41	1.07	3.46	2.63	0.44	17.31	22
1979	0.48	0.53	0.56	0.29	0.35	0.53	0.64	2.81	2.14	4.42	2.69	0.23	15.67	35
1980	0.91	0.33	0.02	0.36	0.48	1.44	1.22	2.10	1.11	1.29	2.74	0.13	12.13	60
1981	0.94	0.66	0.55	0.49	0.31	0.35	0.75	2.81	1.53	1.99	2.23	0.39	13.00	55
1982	1.62	0.05	0.34	0.49	0.19	0.87	0.67	5.30	5.40	0.98	2.93	2.86	21.70	4
1983	1.73	0.66	0.28	0.28	0.11	1.69	0.91	3.11	2.85	1.10	1.83	0.29	14.84	42
1984	1.32	1.61	0.56	0.16	0.43	0.88	2.24	1.95	4.14	2.40	0.72	0.27	16.68	28
1985	1.70	0.44	0.32	0.41	0.39	0.49	1.65	1.90	2.30	1.70	0.64	2.35	14.29	47
1986	1.17	1.26	0.24	0.22	1.24	0.58	3.82	0.98	4.74	2.62	1.46	2.22	20.55	6
1987	2.86	0.52	0.25	0.11	1.43	2.27	0.59	3.68	1.07	0.66	1.23	0.17	14.84	43
1988	0.42	1.28	1.50	0.08	0.11	1.79	0.58	2.31	1.09	0.97	2.09	1.35	13.57	53
1989	0.35	0.55	0.38	0.00	0.44	1.03	1.47	1.36	2.58	1.62	1.88	4.07	15.73	33
1990	0.21	0.20	0.85	0.12	0.49	1.13	2.19	3.58	2.02	3.82	1.23	1.23	17.07	25
1991	1.07	0.74	0.72	0.21	0.82	0.91	1.67	6.29	3.60	1.66	0.83	1.26	19.78	9
1992	0.66	0.70	0.15	0.97	0.79	1.35	0.64	3.34	2.64	3.18	1.73	0.07	16.22	32
1993	1.38	0.53	0.71	0.46	1.31	1.42	1.77	1.55	5.40	3.58	1.63	1.53	21.27	5
1994	1.47	0.62	0.31	0.62	0.24	0.56	1.16	2.18	4.07	2.42	0.89	0.48	15.02	38
1995	2.99	0.15	1.11	0.49	0.28	0.55	1.53	4.93	3.30	1.70	0.09	2.50	19.62	11
1996	2.08	0.39	0.31	0.56	0.03	1.15	2.05	4.26	1.58	1.13	2.33	1.74	17.61	20
1997	2.50	0.51	0.58	0.30	0.68	0.14	2.79	3.82	3.97	8.20	1.59	0.64	25.72	1
1998	1.21	0.03	0.12	0.15	1.53	1.79	0.50	2.13	4.46	2.10	4.23	1.55	19.80	8
Mean 1961-90	1.00	0.50	0.44	0.37	0.50	0.93	1.82	2.72	2.64	2.22	1.49	1.23	15.86	

Measured (shaded) and estimated precipitation, in inches, for site 3, Belle Fourche (390559)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.22	0.48	0.37	0.33	0.37	0.87	0.89	1.14	0.63	1.02	0.44	0.48	8.24	67
1932	1.08	0.38	0.14	0.47	0.03	0.60	4.80	2.56	2.46	0.92	1.07	0.69	15.20	32
1933	1.45	0.16	0.10	0.22	0.22	1.19	3.78	3.36	1.01	1.00	0.83	0.99	14.31	43
1934	0.20	0.02	0.12	0.31	0.07	0.83	1.65	0.06	2.31	0.47	0.30	1.27	7.61	68
1935	0.29	0.44	0.46	0.02	0.34	0.89	0.91	3.87	2.28	0.30	0.84	0.35	10.99	58
1936	0.18	0.20	0.54	0.58	0.36	0.23	1.92	0.70	0.47	1.10	1.63	0.68	8.59	65
1937	0.85	0.42	0.02	0.32	0.19	0.67	0.74	2.04	4.39	4.24	0.93	2.00	16.81	22
1938	0.09	0.22	0.48	0.10	0.06	0.45	1.00	3.67	1.99	1.62	1.33	0.98	11.99	55
1939	0.14	0.34	0.22	0.06	0.24	0.11	0.49	0.44	2.94	1.38	1.98	0.83	9.17	63
1940	0.67	0.05	0.16	0.10	0.07	1.12	2.56	1.00	3.27	1.57	0.99	1.05	12.61	50
1941	0.27	0.85	0.29	0.09	0.01	0.44	6.55	1.54	7.19	0.47	2.51	3.17	23.38	5
1942	0.53	0.22	0.37	0.01	0.29	0.33	3.32	4.11	4.96	0.57	0.62	1.40	16.73	23
1943	0.60	0.69	0.11	0.35	0.17	0.49	0.56	0.69	4.99	2.56	0.72	0.09	12.02	54
1944	0.88	0.24	0.24	1.24	0.21	0.95	1.34	1.99	5.96	1.49	1.51	0.26	16.31	24
1945	0.69	1.46	0.34	0.30	0.63	0.78	0.65	2.22	3.39	0.49	0.93	3.01	14.89	35
1946	0.32	0.33	0.06	0.12	0.00	1.41	2.07	7.63	4.71	1.61	0.91	3.59	22.76	8
1947	2.86	0.09	0.41	0.06	0.24	0.36	1.69	0.83	6.76	0.20	0.34	0.88	14.72	37
1948	1.34	0.87	0.09	0.37	0.37	0.10	2.67	1.07	4.44	1.96	1.36	0.66	15.30	30
1949	0.33	1.47	0.03	0.48	0.11	0.58	1.70	1.55	1.46	1.46	1.00	1.08	11.25	56
1950	1.86	0.09	0.09	0.16	0.25	1.04	1.67	1.74	1.21	0.61	1.53	1.81	12.06	53
1951	0.73	0.49	0.07	0.06	0.22	0.50	1.07	0.90	3.33	1.83	2.43	1.90	13.53	46
1952	1.90	0.17	0.26	0.06	0.33	0.42	0.04	2.50	1.60	3.07	0.73	0.04	11.12	57
1953	0.01	0.06	0.05	0.53	0.51	0.20	2.46	2.35	3.53	1.11	3.37	0.37	14.55	40
1954	0.25	0.61	0.07	0.19	0.22	1.18	0.32	2.09	2.34	0.31	0.80	0.15	8.53	66
1955	0.90	0.32	0.10	0.08	0.28	0.31	1.74	2.38	1.23	2.01	1.13	1.69	12.17	52
1956	0.71	0.31	0.60	0.15	0.08	0.09	0.67	1.36	1.74	1.89	1.33	1.30	10.23	61
1957	0.64	0.75	0.09	0.13	0.15	0.29	0.75	3.22	5.06	1.33	2.23	1.52	16.16	25
1958	0.99	0.68	0.03	0.27	0.56	0.21	2.57	0.68	3.81	2.58	0.94	0.09	13.41	48
1959	0.21	0.37	0.47	0.24	0.35	0.19	0.65	1.94	2.72	0.65	0.08	1.56	9.43	62
1960	0.72	0.33	0.07	0.10	0.19	0.43	0.32	2.01	2.50	0.18	3.08	0.67	10.60	59
1961	0.01	0.09	0.33	0.08	0.14	0.10	1.48	0.81	1.31	2.32	0.40	1.79	8.86	64
1962	1.21	0.31	0.33	0.28	0.24	0.33	0.85	7.23	4.66	2.49	1.00	0.81	19.74	13
1963	1.97	0.37	0.15	0.34	0.65	0.82	3.60	1.22	3.99	2.72	1.01	2.42	19.26	15
1964	1.05	0.16	0.46	0.14	0.51	0.30	1.32	2.75	5.76	0.67	2.06	0.10	15.28	31
1965	0.06	0.32	0.17	0.40	0.02	0.20	0.97	5.96	3.46	0.92	1.43	1.62	15.53	28
1966	0.00	0.33	0.37	0.09	0.47	1.46	1.85	0.67	2.84	2.09	2.04	2.49	14.70	38
1967	1.55	0.79	0.58	0.34	0.73	0.40	2.89	1.47	3.29	0.98	0.44	2.39	15.85	26
1968	0.58	0.37	0.39	0.46	0.42	0.75	0.70	1.65	4.94	2.25	1.40	1.28	15.19	33
1969	0.13	0.51	1.11	0.11	0.38	0.74	2.85	2.96	3.86	1.55	0.16	0.11	14.47	42
1970	0.84	0.29	0.53	0.28	0.56	1.44	3.10	6.98	1.98	1.32	1.07	1.61	20.00	12
1971	0.74	1.70	0.68	1.39	0.82	0.61	2.59	2.90	2.46	0.19	0.78	2.88	17.74	21
1972	4.41	1.05	0.27	0.47	0.30	1.14	1.61	4.07	5.19	1.73	2.42	0.34	23.00	7
1973	1.47	0.10	0.91	0.32	0.26	1.28	2.83	2.83	1.36	1.28	3.34	2.04	18.02	19
1974	1.65	0.70	0.65	0.19	0.54	0.64	3.34	1.95	1.14	1.34	1.95	0.59	14.68	39
1975	1.06	0.22	0.21	1.18	0.41	1.35	1.71	2.29	3.92	0.70	0.57	0.10	13.72	45
1976	0.58	0.40	1.15	0.65	0.85	0.47	2.20	2.31	9.36	1.37	0.65	0.15	20.14	11
1977	0.55	0.30	0.16	0.45	0.60	2.41	0.62	2.01	1.92	1.82	2.03	1.44	14.31	44
1978	2.88	0.92	0.62	0.11	0.78	0.15	2.31	4.25	1.94	2.97	0.55	0.31	17.79	20
1979	0.33	1.19	0.24	0.46	1.08	0.47	0.91	1.80	2.57	3.70	2.11	0.26	15.12	34
1980	0.67	0.02	0.08	0.36	0.56	0.57	0.73	1.81	3.13	0.63	2.18	2.00	12.74	49
1981	1.41	0.43	0.95	0.32	0.28	0.23	0.14	2.94	3.99	4.02	1.21	2.50	18.42	18
1982	1.67	0.10	0.30	0.97	0.19	1.81	1.04	10.70	2.31	1.21	1.56	2.14	24.00	4
1983	4.12	0.14	1.39	0.30	0.20	2.60	1.45	1.57	0.26	1.57	4.52	1.28	19.40	14
1984	1.57	0.78	1.18	0.37	0.15	0.96	2.94	1.18	5.22	1.36	2.13	1.06	18.90	16
1985	0.84	0.97	1.02	0.11	0.06	1.54	0.62	1.40	2.15	0.81	0.96	1.88	12.36	51
1986	0.57	1.81	1.86	1.21	1.20	0.87	5.40	2.24	4.71	2.75	0.83	4.79	28.24	2
1987	1.62	1.56	0.08	0.09	1.69	2.20	0.34	4.07	0.47	1.77	3.72	1.21	18.82	17
1988	0.12	0.17	0.49	0.45	0.30	1.46	0.85	3.14	1.51	0.08	0.57	1.25	10.39	60
1989	0.44	0.79	0.19	0.14	0.22	1.57	3.92	1.52	1.99	2.64	0.26	2.13	15.81	27
1990	2.78	1.17	1.15	0.11	0.36	0.21	1.83	2.29	1.03	3.44	0.22	0.84	15.43	29
1991	1.49	0.19	0.76	0.16	0.81	0.65	3.19	3.30	2.31	0.45	1.00	0.21	14.52	41
1992	0.77	0.95	0.07	0.07	0.20	0.93	1.30	1.71	3.05	3.03	0.91	0.44	13.43	47
1993	0.85	0.96	1.43	0.93	0.71	2.99	2.85	4.03	6.23	4.55	0.66	1.17	27.36	3
1994	0.05	0.55	1.34	1.14	0.72	0.90	1.71	1.19	1.92	4.19	0.47	0.62	14.80	36
1995	6.05	0.90	0.06	0.08	0.44	0.71	2.36	7.99	4.57	2.88	1.34	2.07	29.45	1
1996	2.79	0.82	0.44	1.83	0.21	2.16	2.12	5.75	0.97	1.18	1.33	1.59	21.19	9
1997	3.42	0.93	2.27	1.14	0.62	0.23	4.60	3.31	2.03	3.01	0.69	0.83	23.08	6
1998	0.83	0.23	0.63	0.76	1.51	1.01	0.75	0.70	6.44	2.28	2.72	2.49	20.35	10
Mean 1961-90	1.23	0.60	0.60	0.41	0.50	0.97	1.90	2.97	3.09	1.76	1.45	1.46	16.93	

Measured (shaded) and estimated precipitation, in inches, for site 4, Buffalo Gap (391124)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.29	0.92	0.02	0.48	0.37	0.91	0.64	2.00	1.33	1.75	1.90	0.97	14.58	50
1932	1.46	0.60	0.92	0.87	1.31	3.64	3.11	3.21	2.22	2.81	1.74	0.09	21.98	9
1933	1.06	0.07	0.40	0.13	0.64	1.80	4.02	5.49	1.07	1.30	6.46	0.41	22.85	7
1934	0.15	0.38	0.36	0.35	0.62	1.65	0.67	0.37	2.51	1.92	1.23	0.82	11.03	66
1935	1.05	0.23	0.33	0.19	0.47	1.92	2.52	9.08	2.46	0.82	1.13	1.10	21.30	11
1936	0.53	0.56	0.33	0.45	1.03	0.71	1.06	0.69	2.25	0.17	0.75	1.16	9.69	68
1937	0.54	0.99	0.64	0.49	0.40	2.09	0.67	1.36	6.08	2.54	0.19	0.66	16.65	42
1938	0.76	0.40	0.25	0.40	0.05	1.35	1.78	3.99	1.75	2.65	0.83	3.05	17.26	37
1939	0.27	0.56	0.15	0.06	0.51	0.83	0.49	1.89	2.30	0.51	2.83	1.05	11.45	65
1940	0.91	0.00	0.24	0.47	0.49	0.77	4.72	0.77	0.94	2.06	0.60	1.58	13.55	57
1941	0.81	0.31	0.19	0.20	0.11	0.88	5.79	1.03	3.59	2.35	4.17	1.20	20.63	18
1942	1.14	0.23	0.51	0.03	0.33	1.00	3.37	3.82	3.50	3.60	1.14	1.87	20.54	19
1943	1.81	0.28	0.21	0.31	0.27	0.74	3.31	3.49	4.37	2.01	0.92	0.39	18.11	31
1944	1.13	0.01	0.27	1.20	0.66	0.52	2.41	3.90	3.00	4.45	1.34	0.17	19.06	25
1945	0.43	0.90	0.64	0.46	0.59	1.83	0.59	1.67	3.52	2.11	2.21	1.66	16.61	43
1946	0.01	0.04	0.47	0.20	0.35	0.95	1.12	7.79	3.04	1.82	1.36	3.12	20.27	21
1947	1.33	0.17	0.51	0.45	0.05	0.19	1.42	2.85	9.15	3.38	1.31	0.20	21.01	15
1948	0.98	1.15	0.21	0.07	0.60	0.41	2.00	1.91	4.20	2.39	2.77	0.32	17.01	38
1949	1.22	0.38	0.45	1.57	0.04	0.26	1.46	4.22	2.64	2.26	1.50	0.96	16.96	39
1950	0.65	0.03	0.47	0.22	0.08	1.30	2.03	1.47	0.92	1.70	1.87	2.78	13.52	58
1951	0.36	0.18	0.14	0.27	0.13	0.51	0.71	1.28	4.60	3.08	1.77	2.26	15.29	49
1952	0.12	0.00	0.45	0.10	0.77	0.80	0.32	4.87	3.08	1.47	1.90	0.24	14.12	51
1953	0.20	0.84	0.18	1.07	1.02	0.46	2.44	1.42	1.62	1.69	0.68	1.04	12.66	62
1954	0.19	0.56	0.12	0.34	0.74	1.04	0.78	2.56	3.44	0.74	2.28	1.19	13.98	54
1955	1.78	0.35	0.15	0.36	0.99	1.33	0.62	2.11	2.98	2.04	5.22	3.38	21.31	10
1956	0.24	0.59	0.61	0.89	0.29	0.49	0.84	3.52	1.58	1.65	2.31	0.70	13.71	56
1957	0.14	0.39	0.47	0.47	0.17	0.81	2.04	6.86	4.54	0.88	1.69	1.12	19.58	24
1958	1.96	0.21	0.09	0.15	1.04	1.80	2.78	0.66	3.52	8.46	0.35	0.12	21.14	13
1959	0.12	0.40	0.44	0.57	0.38	0.72	0.96	2.59	2.81	2.78	0.95	3.16	15.88	45
1960	0.16	0.44	0.12	0.54	0.56	0.27	0.97	1.76	2.57	0.84	1.52	0.71	10.46	67
1961	0.15	0.94	0.75	0.03	0.28	1.21	0.72	2.03	1.88	1.59	0.49	1.44	11.51	64
1962	0.50	0.38	0.27	0.32	0.93	1.11	0.32	5.92	4.62	5.53	0.39	0.85	21.14	14
1963	1.94	0.23	0.18	0.47	0.47	0.90	3.42	2.33	8.14	5.38	1.11	3.86	28.43	2
1964	0.84	0.02	0.35	0.32	0.12	0.92	1.65	2.93	5.14	2.13	0.79	0.18	15.39	47
1965	1.33	0.24	0.84	0.48	0.24	0.99	1.15	6.20	3.24	2.87	1.37	1.94	20.89	16
1966	0.53	0.19	0.28	0.18	0.48	0.20	2.40	0.40	1.07	4.50	2.86	2.27	15.36	48
1967	0.73	0.61	0.61	0.37	0.14	1.10	2.02	3.65	6.83	0.62	0.72	0.53	17.93	33
1968	0.29	0.31	1.03	0.54	0.32	0.76	0.70	2.79	7.18	1.69	2.22	1.10	18.93	27
1969	0.28	0.43	0.66	0.22	0.98	0.27	0.47	1.20	2.35	4.75	0.22	1.46	13.29	60
1970	1.58	0.17	0.35	0.23	0.35	1.32	2.75	1.69	3.01	1.65	1.31	2.46	16.87	41
1971	1.12	0.41	0.53	0.86	0.84	0.59	3.45	4.64	3.31	1.03	0.62	2.51	19.91	23
1972	1.58	0.63	0.48	0.60	0.13	0.71	1.48	3.40	5.22	1.59	1.63	0.62	18.07	32
1973	1.19	0.42	0.31	0.19	0.47	1.81	3.29	1.72	1.01	2.71	1.40	2.84	17.36	36
1974	2.07	1.16	0.50	0.63	0.08	0.26	1.77	1.24	1.73	1.14	0.77	1.37	12.72	61
1975	2.47	0.53	0.11	0.98	0.74	1.60	1.10	2.61	4.77	1.58	0.79	0.14	17.42	35
1976	0.55	0.52	1.01	0.46	1.09	0.77	4.08	2.28	3.65	4.70	1.52	0.67	21.30	12
1977	0.48	0.21	0.23	0.52	0.03	1.47	2.04	3.67	2.81	4.04	2.69	2.61	20.80	17
1978	0.90	0.73	0.85	0.53	0.89	0.30	1.91	3.95	1.43	3.50	2.71	0.43	18.13	30
1979	0.67	0.55	0.64	0.49	0.44	0.45	0.70	1.61	1.80	5.09	3.78	0.25	16.47	44
1980	0.90	0.17	0.00	0.32	0.64	1.53	0.95	2.50	1.94	1.48	2.71	0.38	13.52	59
1981	2.02	0.33	0.76	0.05	0.21	0.35	0.56	5.67	1.12	5.65	0.94	0.08	17.74	34
1982	1.58	0.23	0.87	0.47	0.36	1.23	1.18	5.74	4.64	2.44	1.40	2.30	22.44	8
1983	1.00	0.77	0.65	0.22	0.00	1.03	0.65	2.57	2.50	3.55	0.82	0.30	14.06	53
1984	1.35	1.18	0.91	0.44	0.29	1.29	3.71	2.31	4.28	2.03	0.71	0.36	18.86	28
1985	0.91	0.74	0.40	0.40	0.18	0.60	1.17	1.08	1.59	2.22	0.39	2.66	12.34	63
1986	0.68	2.19	0.23	0.20	0.82	0.78	4.09	1.44	5.27	1.86	1.92	3.78	23.26	6
1987	1.57	0.87	0.15	0.13	1.80	2.31	0.19	6.82	1.06	1.05	1.41	0.90	18.26	29
1988	0.40	0.38	0.55	0.17	0.22	0.10	0.72	3.46	2.19	1.27	3.74	0.88	14.08	52
1989	0.59	0.79	0.42	0.00	0.36	0.99	1.28	1.58	1.23	3.01	2.13	3.13	15.51	46
1990	1.05	0.23	0.38	0.06	0.41	1.46	1.76	5.20	2.47	1.84	0.79	1.28	16.93	40
1991	0.60	0.73	0.65	0.06	0.81	0.29	3.18	4.13	5.60	0.50	1.58	0.90	19.03	26
1992	1.55	1.20	0.08	0.14	0.63	1.87	0.74	3.78	3.76	3.90	1.54	1.21	20.40	20
1993	0.33	0.86	0.69	1.01	1.20	0.72	2.22	1.56	4.80	4.91	3.38	1.61	23.29	5
1994	1.53	0.81	0.48	0.50	0.74	0.63	1.02	1.95	2.72	2.02	0.77	0.60	13.77	55
1995	3.01	0.22	1.39	0.14	0.70	0.20	1.76	5.93	5.32	3.06	1.45	1.73	24.91	4
1996	1.53	0.30	0.08	0.71	0.18	0.95	2.43	5.03	1.18	1.06	4.74	2.05	20.24	22
1997	1.18	0.65	1.83	1.34	1.94	0.34	3.23	4.67	3.87	9.23	1.54	1.44	31.26	1
1998	0.95	0.00	0.05	0.75	0.75	2.70	0.37	4.62	4.79	3.57	4.28	4.25	27.08	3
Mean 1961-90	1.04	0.55	0.51	0.36	0.48	0.95	1.72	3.09	3.25	2.75	1.48	1.45	17.63	

Measured (shaded) and estimated precipitation, in inches, for site 5, Buskala Ranch (381246)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.15	0.74	1.34	1.05	0.60	2.10	2.50	2.35	1.07	1.06	1.53	0.57	16.06	65
1932	1.24	1.40	0.35	2.00	0.45	1.99	7.50	5.98	5.80	3.50	2.28	1.05	33.54	3
1933	2.55	0.79	1.75	1.30	1.00	2.65	5.83	8.22	1.96	0.47	2.01	1.10	29.63	9
1934	0.33	0.80	0.70	1.00	0.50	1.50	2.10	0.76	6.07	0.30	1.14	2.35	17.55	62
1935	1.05	1.15	0.82	0.00	0.78	2.55	3.28	5.79	6.18	7.42	1.02	1.49	31.53	5
1936	0.45	1.45	1.40	1.11	0.55	1.74	1.97	0.56	2.06	1.88	1.04	0.60	14.81	67
1937	1.10	1.05	0.43	0.53	1.18	1.07	0.51	2.13	5.63	5.51	1.16	1.17	21.47	46
1938	0.56	0.69	1.46	3.10	1.00	1.00	3.40	5.16	2.74	1.92	0.51	1.02	22.56	42
1939	0.00	1.16	2.03	2.57	1.22	1.76	4.79	2.46	2.33	1.44	3.56	0.61	23.93	35
1940	1.50	0.00	1.36	0.79	1.42	1.95	3.98	1.29	2.03	0.84	0.77	1.65	17.58	61
1941	1.07	0.64	0.75	0.09	0.34	2.09	7.55	2.96	8.29	2.48	2.02	1.39	29.67	8
1942	2.58	0.58	0.96	0.38	1.00	2.24	2.96	5.81	4.98	2.04	2.12	2.31	27.96	15
1943	2.88	2.53	1.04	1.33	1.78	1.28	3.83	3.99	5.35	2.20	1.37	0.52	28.10	14
1944	1.85	1.87	0.47	4.07	0.60	1.99	2.22	4.01	5.51	2.70	0.54	0.63	26.46	19
1945	0.82	2.37	0.78	0.80	1.15	2.70	1.49	6.63	4.65	1.63	4.30	3.41	30.73	7
1946	0.45	0.35	1.36	0.99	1.04	2.51	2.70	13.20	4.37	3.44	1.07	4.16	35.64	2
1947	3.69	0.22	0.89	1.25	1.22	1.89	4.22	1.14	8.61	2.48	0.61	0.40	26.62	18
1948	1.82	1.73	0.19	1.29	0.60	0.17	2.62	1.90	6.02	4.26	1.87	0.95	23.42	36
1949	0.80	2.40	0.28	3.61	0.27	0.61	2.65	3.02	3.77	2.08	0.69	0.76	20.94	49
1950	1.44	0.88	0.69	0.44	0.45	2.74	2.33	1.71	2.29	3.08	2.23	3.28	21.56	44
1951	0.61	1.00	0.41	0.41	0.34	1.31	1.62	2.88	4.71	3.48	2.71	2.60	22.08	43
1952	1.28	1.14	2.75	0.17	0.65	1.38	0.66	8.63	1.90	2.27	1.45	0.59	22.87	40
1953	0.30	0.82	0.43	1.73	1.56	0.79	3.59	3.26	4.00	3.23	3.95	0.71	24.37	29
1954	0.34	0.97	1.22	0.30	1.29	2.66	0.54	3.59	1.77	1.75	3.53	0.83	18.79	57
1955	1.70	0.75	1.11	1.32	0.83	1.27	2.92	2.83	4.19	3.28	1.63	2.78	24.61	28
1956	1.02	1.14	0.96	0.46	0.37	1.27	1.63	3.68	2.36	2.88	3.76	0.67	20.20	53
1957	0.76	2.16	0.54	0.55	0.30	1.41	1.60	5.35	3.95	3.40	3.75	1.02	24.79	27
1958	0.77	0.93	0.52	0.72	1.00	0.52	2.80	1.90	4.06	5.32	1.61	0.72	20.87	50
1959	0.94	1.29	0.64	0.77	1.16	1.28	1.86	2.69	3.57	0.78	0.14	2.08	17.20	63
1960	0.78	1.99	0.54	0.31	1.10	1.06	2.07	1.34	6.28	0.67	3.90	0.93	20.97	48
1961	0.07	0.69	1.26	0.14	0.57	0.48	2.04	1.00	1.49	2.34	0.93	2.56	13.57	68
1962	0.72	0.51	1.06	1.08	0.83	0.59	1.69	9.70	4.84	4.30	1.11	1.82	28.25	13
1963	0.92	0.57	0.82	1.26	2.37	1.36	4.16	4.81	7.48	1.60	0.23	2.22	27.80	17
1964	0.87	0.22	0.90	0.73	2.11	0.96	2.06	4.59	8.78	0.62	6.58	0.76	29.18	10
1965	0.50	0.69	1.10	1.55	0.47	0.60	1.84	8.20	4.82	2.15	1.79	2.30	26.01	23
1966	0.01	0.41	0.38	0.34	0.89	1.59	2.68	0.35	1.68	3.31	2.65	1.60	15.89	66
1967	1.51	0.78	0.71	0.87	1.52	0.49	2.78	2.70	5.97	2.49	1.22	3.22	24.26	31
1968	1.26	0.73	1.34	0.46	0.71	0.34	1.26	3.05	5.70	3.96	3.19	2.08	24.08	34
1969	0.39	1.32	0.92	0.84	0.60	0.89	3.20	2.31	3.88	4.28	1.67	0.96	21.26	47
1970	1.68	1.33	1.51	0.99	0.80	2.03	2.62	5.07	3.68	1.72	0.91	1.02	23.36	37
1971	1.65	1.49	0.71	1.48	1.28	1.96	3.46	4.34	2.07	1.04	2.81	3.14	25.43	25
1972	2.48	1.10	0.27	0.83	0.58	1.11	2.23	5.34	5.33	4.09	3.85	0.60	27.81	16
1973	0.77	0.48	0.66	0.19	0.37	2.37	3.90	2.28	3.45	1.78	2.18	1.81	20.24	52
1974	0.70	0.73	0.83	0.35	0.57	0.46	1.55	1.58	1.22	3.90	5.17	0.95	18.01	59
1975	1.41	0.62	0.50	1.42	0.57	2.41	2.31	2.45	5.72	1.11	0.88	0.40	19.80	54
1976	1.09	0.74	1.30	0.99	1.44	0.78	2.64	4.08	6.39	4.27	1.03	1.35	26.10	22
1977	0.38	0.92	0.89	1.63	1.83	2.94	2.20	2.00	2.49	1.58	2.65	1.97	21.48	45
1978	1.37	1.06	0.95	0.32	1.22	0.50	3.70	5.49	3.02	4.44	1.81	0.42	24.30	30
1979	0.95	0.98	1.20	0.64	0.89	0.72	1.41	2.75	4.30	4.92	3.44	0.40	22.60	41
1980	1.05	0.75	0.37	0.45	0.48	0.99	1.82	3.46	1.60	1.56	3.75	1.31	17.59	60
1981	1.56	0.72	0.85	0.18	0.25	0.21	0.56	5.46	2.52	5.30	0.94	2.00	20.55	51
1982	1.19	0.82	0.77	1.06	0.48	1.56	1.56	6.72	4.05	3.83	2.65	1.64	26.33	20
1983	5.38	0.64	1.19	1.31	0.31	1.57	1.59	2.93	1.54	1.81	4.16	0.57	23.00	38
1984	2.50	1.96	0.69	1.10	0.70	1.80	4.77	1.61	4.14	2.18	1.93	0.85	24.23	32
1985	1.01	1.43	0.55	0.73	0.90	1.79	1.28	1.62	2.03	1.43	1.44	2.08	16.29	64
1986	0.74	1.59	1.95	1.21	1.61	1.04	4.23	1.95	4.55	1.73	1.03	4.10	25.73	24
1987	2.38	1.67	0.14	0.93	1.30	2.16	0.65	3.51	1.13	1.18	2.71	1.15	18.91	56
1988	0.75	0.64	0.60	1.01	1.40	2.60	0.80	4.19	2.31	0.88	1.69	1.56	18.43	58
1989	1.46	1.32	1.55	0.28	0.87	0.71	3.42	3.13	1.84	1.66	3.21	0.34	19.79	55
1990	1.89	1.19	1.97	0.74	0.85	1.44	2.17	2.87	0.76	3.25	2.09	3.69	22.91	39
1991	0.75	0.45	1.09	1.09	1.82	0.95	3.98	6.35	3.42	3.99	0.85	1.47	26.21	21
1992	1.81	1.40	0.29	0.56	0.71	2.20	3.12	3.56	5.09	3.18	1.97	1.25	25.14	26
1993	0.72	2.24	1.09	1.09	0.76	0.66	3.12	4.42	6.33	3.58	3.09	1.44	28.54	12
1994	2.29	2.02	2.48	2.77	1.43	1.16	3.81	1.68	1.40	2.69	1.44	0.94	24.11	33
1995	6.88	2.03	0.13	0.48	0.94	1.23	2.60	8.79	3.75	1.65	0.78	1.57	30.83	6
1996	3.48	1.35	0.53	1.67	0.39	3.71	2.71	4.89	1.38	2.06	3.55	3.13	28.85	11
1997	4.60	0.85	1.94	0.82	1.95	1.07	5.02	3.84	3.23	8.02	6.44	1.02	38.80	1
1998	1.48	0.53	1.66	0.64	2.50	2.05	1.14	1.79	7.86	6.48	4.23	2.27	32.63	4
Mean 1961-90	1.29	0.94	0.93	0.84	0.96	1.28	2.35	3.65	3.63	2.62	2.32	1.63	22.44	

Measured (shaded) and estimated precipitation, in inches, for site 6, Custer (392087)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.68	0.58	0.00	0.12	0.33	0.51	1.04	1.94	1.82	0.94	3.47	0.17	14.60	56
1932	1.82	0.73	0.58	0.82	0.23	0.58	3.35	3.02	3.91	2.28	3.52	0.10	20.94	20
1933	1.42	0.05	0.26	0.52	0.27	0.87	3.24	6.22	0.30	2.61	4.76	0.55	21.07	18
1934	0.00	0.17	0.12	0.18	0.24	1.34	0.58	0.11	2.08	1.92	1.19	1.01	8.94	68
1935	2.90	0.16	0.56	0.11	0.50	0.72	1.80	5.89	2.64	0.26	0.25	1.42	17.21	42
1936	0.26	0.28	0.05	0.37	0.54	0.87	2.06	0.66	4.91	0.36	2.88	0.61	13.85	59
1937	0.91	1.24	0.24	0.49	0.41	1.11	0.28	2.25	2.12	2.21	0.64	0.42	12.32	66
1938	0.40	0.30	0.84	0.22	0.23	1.09	1.73	5.75	1.83	2.68	1.33	1.09	17.49	38
1939	0.58	0.85	0.12	0.13	0.26	1.19	0.57	2.61	1.65	1.24	4.76	1.61	15.57	49
1940	1.31	0.00	0.34	0.40	0.33	0.77	3.18	0.60	1.31	2.37	2.49	1.97	15.07	51
1941	1.26	0.29	0.44	0.12	0.11	0.95	4.99	1.75	3.49	1.71	4.21	1.38	20.70	21
1942	3.55	0.27	0.56	0.13	0.71	1.36	4.42	2.47	5.33	1.26	2.64	2.21	24.91	5
1943	1.76	0.24	0.26	0.51	0.45	1.18	5.15	4.05	4.82	1.65	0.46	0.45	20.98	19
1944	0.85	0.00	0.18	1.65	0.58	0.95	1.25	2.84	3.31	3.82	0.77	0.31	16.51	45
1945	0.68	1.02	0.61	0.46	0.57	1.81	0.99	2.09	3.42	1.62	2.25	1.49	17.01	44
1946	0.15	0.19	0.28	0.23	0.42	1.48	0.55	7.74	2.50	2.05	4.08	2.59	22.26	14
1947	1.93	0.24	0.47	0.73	0.00	0.84	1.98	3.24	8.18	3.18	4.26	0.02	25.07	4
1948	1.27	0.94	0.16	0.11	0.78	0.73	1.95	1.13	2.99	2.38	1.64	0.61	14.69	55
1949	0.88	0.39	1.08	1.12	0.04	0.51	1.27	5.37	3.02	1.84	1.75	1.16	18.43	34
1950	0.85	0.00	0.35	0.26	0.27	1.59	1.46	1.96	1.49	3.07	1.94	2.64	15.88	48
1951	0.37	0.20	0.07	0.06	0.16	0.49	1.21	1.83	4.37	2.72	1.71	1.66	14.85	54
1952	0.68	0.13	0.61	0.07	0.33	0.88	0.13	7.96	3.41	2.02	2.38	0.15	18.75	32
1953	0.20	0.26	0.01	0.95	1.47	0.89	2.48	1.01	2.40	1.20	4.10	0.39	15.36	50
1954	0.17	0.67	0.06	0.15	0.53	0.99	0.60	2.27	2.00	1.71	2.60	0.63	12.38	65
1955	1.92	0.34	0.27	0.32	0.67	1.40	0.84	2.31	3.98	2.25	2.80	1.65	18.75	33
1956	0.17	0.74	0.74	0.55	0.70	0.89	1.62	4.15	1.65	2.32	2.63	0.26	16.42	46
1957	0.39	1.72	0.47	0.41	0.06	0.83	3.06	5.37	5.26	0.60	0.88	0.72	19.77	29
1958	1.17	0.26	0.24	0.22	0.59	0.88	2.80	1.86	3.48	4.39	0.48	0.04	16.41	47
1959	0.33	0.48	0.25	0.21	0.42	1.12	1.29	2.77	5.83	2.16	0.53	2.63	18.02	36
1960	0.21	1.10	0.05	0.26	0.59	0.34	1.22	3.28	2.53	1.11	0.75	0.85	12.29	67
1961	0.07	0.60	0.25	0.00	0.36	1.25	1.36	1.61	2.06	3.15	1.29	1.84	13.84	60
1962	0.80	0.30	0.11	0.43	1.14	0.53	0.32	5.94	4.24	4.54	0.49	1.08	19.92	28
1963	0.90	0.12	0.13	0.58	0.24	1.12	3.92	3.35	5.42	1.54	2.75	2.88	22.95	11
1964	0.87	0.00	0.32	0.41	0.23	0.71	1.00	3.50	2.91	1.15	1.26	0.53	12.89	64
1965	0.10	0.28	1.76	0.42	0.25	0.73	1.39	8.10	4.66	3.27	1.43	1.42	23.81	6
1966	0.14	0.34	0.25	0.19	0.69	0.33	2.75	0.06	0.66	3.83	2.49	1.37	13.10	63
1967	0.88	0.73	1.08	0.32	0.40	1.16	1.75	2.87	6.00	1.79	2.50	0.89	20.37	26
1968	0.46	0.21	0.48	0.66	0.16	0.74	1.29	2.66	4.83	6.20	3.80	1.18	22.67	12
1969	0.21	0.44	0.65	0.41	1.36	0.39	1.36	2.63	2.90	5.48	2.28	0.95	19.06	31
1970	1.33	0.21	0.26	0.23	0.16	1.19	2.57	1.83	2.99	1.80	1.21	1.23	15.01	52
1971	0.81	0.73	0.62	0.68	0.76	1.53	3.55	2.80	2.99	1.91	0.64	3.49	20.51	25
1972	1.69	0.73	0.27	0.74	0.22	0.45	2.08	2.43	6.40	2.60	2.40	0.68	20.69	23
1973	1.03	0.22	0.35	0.15	0.32	2.11	3.61	1.36	2.23	3.69	3.24	2.35	20.66	24
1974	0.64	1.21	0.66	0.54	0.06	0.20	1.64	1.87	0.79	3.41	1.54	1.30	13.86	58
1975	2.43	0.21	0.08	0.95	0.50	1.47	2.99	2.74	4.68	0.37	0.66	0.17	17.25	41
1976	0.71	0.35	0.87	0.46	1.81	0.64	3.50	3.29	5.01	2.68	2.24	0.82	22.38	13
1977	0.24	0.42	0.26	0.47	0.30	1.58	1.58	1.43	2.76	5.10	3.96	1.51	19.61	30
1978	0.58	0.86	0.97	0.19	0.98	0.16	1.84	8.81	1.59	3.81	2.84	1.09	23.72	7
1979	0.18	0.80	0.68	0.44	0.49	0.39	1.11	1.56	3.99	7.58	3.38	0.10	20.70	22
1980	0.80	0.44	0.39	0.31	0.41	1.03	1.46	2.34	3.28	3.99	2.24	0.61	17.30	39
1981	1.62	0.45	1.01	0.11	0.11	0.54	1.08	6.35	0.75	3.12	2.02	0.41	17.57	37
1982	2.43	0.09	1.10	0.75	0.46	1.08	1.12	5.06	5.81	4.15	2.52	3.64	28.21	1
1983	1.73	0.43	0.65	0.28	0.15	1.56	0.95	2.93	2.76	2.33	3.81	0.75	18.33	35
1984	2.53	0.97	1.28	0.00	0.10	0.00	2.75	2.09	5.23	5.96	1.65	1.01	23.57	9
1985	0.53	0.70	0.41	0.33	0.02	1.63	0.69	1.34	1.11	2.38	0.74	3.33	13.21	62
1986	0.96	1.80	0.44	0.15	1.05	0.71	3.30	1.85	4.86	1.13	1.66	4.17	22.08	15
1987	1.31	1.13	0.00	0.05	2.01	1.43	0.32	3.74	1.10	1.77	1.34	0.79	14.99	53
1988	0.94	0.56	0.60	0.40	0.28	0.99	1.18	2.38	2.13	2.03	2.02	0.31	13.82	61
1989	0.33	1.01	0.22	0.07	0.89	0.98	1.56	2.01	1.87	2.20	1.27	4.85	17.26	40
1990	1.16	0.98	0.53	0.03	1.03	1.99	2.31	3.56	1.00	4.85	1.50	1.36	20.30	27
1991	0.71	0.62	0.60	0.27	0.81	0.80	2.67	7.54	4.14	1.96	2.93	0.45	23.50	10
1992	1.69	1.09	0.00	0.14	0.23	2.38	0.69	2.68	3.12	3.13	1.54	0.47	17.16	43
1993	0.67	0.16	0.96	1.03	1.10	1.11	1.98	3.00	5.95	2.92	2.03	1.17	22.08	16
1994	1.40	0.62	0.47	0.33	0.83	0.82	2.15	1.81	1.97	1.64	1.69	0.77	14.50	57
1995	4.10	0.96	0.67	0.04	0.92	1.41	1.99	7.55	4.94	2.28	0.91	1.38	27.15	2
1996	2.30	0.59	0.00	1.06	0.23	1.28	2.17	5.47	2.24	1.91	4.31	2.06	23.62	8
1997	3.99	0.30	1.27	0.37	0.85	0.62	2.29	3.33	1.88	4.30	4.11	2.21	25.52	3
1998	0.86	0.02	0.32	0.57	1.87	1.79	0.78	3.09	5.07	1.84	3.32	2.38	21.91	17
Mean 1961-90	0.95	0.58	0.56	0.36	0.56	0.95	1.88	3.08	3.23	3.26	2.04	1.54	18.99	

Measured (shaded) and estimated precipitation, in inches, for site 7, Custer 6SW (392089)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.35	0.60	0.02	0.20	0.33	0.64	0.93	1.89	1.73	1.10	2.92	0.29	14.00	58
1932	1.68	0.74	0.54	0.84	0.33	0.91	3.48	3.10	3.63	2.54	3.25	0.23	21.27	18
1933	1.50	0.09	0.28	0.48	0.39	0.95	3.29	5.87	0.72	2.42	4.57	0.53	21.09	21
1934	0.04	0.21	0.17	0.22	0.31	1.27	0.62	0.19	2.51	1.65	1.34	1.01	9.54	68
1935	2.43	0.20	0.55	0.13	0.49	0.82	1.71	5.98	2.64	0.75	0.46	1.27	17.43	38
1936	0.31	0.35	0.10	0.42	0.59	0.82	1.81	0.59	4.23	0.53	2.42	0.60	12.77	63
1937	0.85	1.13	0.26	0.47	0.39	1.17	0.35	2.11	2.68	2.51	0.66	0.53	13.11	62
1938	0.39	0.31	0.79	0.32	0.20	1.10	1.77	5.26	1.73	2.55	1.17	1.30	16.89	41
1939	0.50	0.78	0.18	0.21	0.28	1.07	0.66	2.36	1.98	1.30	4.46	1.43	15.21	53
1940	1.21	0.00	0.33	0.40	0.33	0.79	3.20	0.63	1.41	2.11	2.07	1.89	14.37	57
1941	1.21	0.29	0.41	0.13	0.11	0.93	4.87	1.74	3.66	2.06	3.92	1.45	20.78	23
1942	2.98	0.25	0.51	0.11	0.58	1.23	4.14	2.67	4.74	1.67	2.36	2.05	23.29	11
1943	1.72	0.30	0.27	0.53	0.43	1.12	4.57	3.73	4.63	1.74	0.59	0.38	20.01	29
1944	0.92	0.07	0.19	1.53	0.56	0.94	1.34	2.96	3.37	3.72	0.76	0.29	16.65	45
1945	0.65	0.98	0.56	0.48	0.54	1.74	0.92	2.21	3.35	1.72	2.39	1.61	17.15	39
1946	0.11	0.16	0.32	0.21	0.41	1.38	0.80	7.48	2.83	2.01	3.30	2.79	21.80	17
1947	1.89	0.22	0.45	0.67	0.03	0.75	1.91	3.00	8.12	2.77	3.37	0.14	23.32	10
1948	1.20	1.01	0.16	0.19	0.71	0.58	1.93	1.29	3.31	2.40	1.92	0.53	15.23	52
1949	0.89	0.49	0.30	1.57	0.00	0.40	1.67	4.15	2.95	3.00	1.28	1.00	17.70	37
1950	0.48	0.08	0.75	0.33	0.11	1.45	1.41	1.83	2.23	1.82	2.57	2.45	15.51	50
1951	0.36	0.01	0.16	0.23	0.50	0.46	1.38	0.89	5.24	2.28	0.97	2.62	15.10	54
1952	1.05	0.00	0.44	0.04	0.23	0.95	0.12	5.82	3.24	2.38	1.28	0.29	15.84	48
1953	0.20	0.37	0.13	1.54	1.37	1.27	1.88	0.58	2.71	2.30	2.21	0.18	14.74	56
1954	0.28	0.54	0.05	0.04	0.66	0.92	0.22	2.13	2.45	2.14	1.66	0.79	11.88	66
1955	2.10	0.30	0.55	0.36	0.51	1.07	0.34	2.67	2.20	2.75	4.47	1.54	18.86	32
1956	0.20	0.72	0.88	0.34	0.61	0.50	1.59	3.09	0.77	2.48	3.49	0.17	14.84	55
1957	0.28	1.28	0.48	0.43	0.13	0.94	2.62	6.17	4.98	1.28	1.11	0.63	20.33	26
1958	1.26	0.26	0.23	0.18	0.71	0.84	2.94	1.43	3.59	4.90	0.48	0.06	16.88	42
1959	0.21	0.48	0.26	0.30	0.44	1.15	1.47	2.89	5.23	2.31	0.53	2.68	17.95	34
1960	0.20	0.96	0.09	0.29	0.54	0.33	1.21	2.29	2.79	1.14	0.92	0.76	11.52	67
1961	0.05	0.62	0.44	0.01	0.40	1.25	1.33	1.94	1.76	3.30	1.14	1.64	13.88	59
1962	0.94	0.26	0.15	0.39	1.08	0.53	0.38	7.28	4.67	5.40	0.54	1.10	22.72	12
1963	1.33	0.18	0.14	0.59	0.22	1.37	3.79	3.02	5.78	2.16	2.05	2.74	23.37	8
1964	0.92	0.06	0.33	0.38	0.36	0.89	1.22	3.58	4.24	1.78	1.12	0.66	15.54	49
1965	0.18	0.28	1.65	0.46	0.32	0.74	1.31	7.79	5.14	3.62	1.64	1.69	24.82	3
1966	0.16	0.27	0.29	0.21	0.80	0.43	3.91	0.05	0.91	3.78	3.05	1.59	15.45	51
1967	0.89	0.66	0.95	0.31	0.39	0.97	2.18	3.03	6.69	1.63	2.21	1.13	21.04	22
1968	0.41	0.30	0.55	0.58	0.17	0.74	1.17	2.64	5.33	4.58	3.54	1.22	21.23	19
1969	0.18	0.41	0.67	0.40	1.25	0.40	1.35	2.57	3.23	5.87	1.75	0.91	18.99	31
1970	1.32	0.24	0.24	0.22	0.23	1.25	2.76	2.38	2.98	2.08	1.83	1.33	16.86	43
1971	1.03	0.65	0.61	1.00	0.81	1.77	4.10	3.87	3.09	1.68	0.70	3.14	22.45	14
1972	1.59	0.78	0.38	0.87	0.23	0.52	1.84	2.46	6.72	2.73	2.50	0.61	21.23	20
1973	1.06	0.22	0.29	0.11	0.32	2.29	3.67	1.30	2.14	3.79	2.57	2.35	20.11	27
1974	0.69	1.08	0.69	0.56	0.08	0.21	1.35	1.72	0.88	3.07	1.40	0.94	12.67	64
1975	2.17	0.22	0.08	0.87	0.56	1.37	2.64	2.59	4.65	0.76	0.65	0.15	16.71	44
1976	0.62	0.36	0.83	0.39	1.51	0.58	3.62	3.19	4.96	3.16	2.04	0.85	22.11	16
1977	0.25	0.38	0.22	0.44	0.26	1.46	1.69	1.68	2.85	4.77	3.52	1.75	19.27	30
1978	0.67	0.82	0.87	0.27	0.89	0.21	2.02	7.76	1.53	3.74	2.60	0.87	22.25	15
1979	0.30	0.72	0.67	0.44	0.47	0.40	0.99	1.53	3.80	7.26	3.35	0.15	20.08	28
1980	0.79	0.37	0.27	0.30	0.39	1.02	1.37	2.35	2.94	3.34	2.48	0.63	16.25	46
1981	1.70	0.43	0.79	0.09	0.13	0.43	0.91	6.28	0.93	3.85	1.72	0.46	17.72	36
1982	2.27	0.11	1.00	0.67	0.42	1.08	1.05	5.35	5.23	3.58	2.33	3.20	26.29	2
1983	1.42	0.53	0.60	0.31	0.12	1.45	0.94	2.68	2.74	1.89	3.69	0.68	17.05	40
1984	2.50	0.97	0.88	0.07	0.15	0.29	2.79	1.81	4.99	5.61	1.79	0.85	22.70	13
1985	0.57	0.72	0.42	0.33	0.05	1.32	0.89	1.14	1.03	2.25	0.82	2.82	12.36	65
1986	0.90	1.71	0.45	0.13	1.03	0.78	3.30	1.71	5.74	1.19	1.82	4.58	23.34	9
1987	1.81	1.13	0.00	0.06	1.96	1.61	0.32	4.09	1.01	1.57	1.70	0.71	15.97	47
1988	0.82	0.48	0.52	0.32	0.27	0.79	1.06	2.48	2.42	1.95	2.32	0.39	13.82	60
1989	0.33	0.91	0.30	0.11	0.78	0.94	1.54	2.19	1.97	2.12	1.93	4.82	17.94	35
1990	1.27	0.85	0.71	0.05	0.92	1.88	2.57	4.08	1.16	4.45	1.54	1.23	20.71	24
1991	0.86	0.61	0.57	0.40	0.89	0.82	3.16	5.66	3.69	1.48	1.94	0.51	20.59	25
1992	1.42	0.92	0.07	0.19	0.33	2.19	1.00	3.45	3.16	3.54	1.48	0.46	18.21	33
1993	0.61	0.43	1.02	0.80	1.29	0.98	2.14	2.99	7.43	3.66	2.00	1.16	24.51	4
1994	1.65	0.77	0.66	0.53	1.12	0.81	1.80	1.68	1.92	1.01	1.25	0.43	13.63	61
1995	4.84	0.84	0.81	1.31	0.97	0.91	1.59	5.72	4.00	1.61	2.15	2.21	26.96	1
1996	2.18	1.58	0.45	1.06	0.25	1.29	2.69	4.92	1.98	1.55	3.95	2.06	23.96	7
1997	3.96	0.53	1.22	0.46	0.73	0.55	3.11	2.90	1.79	4.47	2.13	2.45	24.30	5
1998	1.08	0.14	0.27	0.65	1.57	2.21	0.73	3.47	5.46	3.26	3.23	2.03	24.10	6
Mean 1961-90	0.97	0.56	0.53	0.36	0.55	0.97	1.94	3.15	3.38	3.23	2.01	1.51	19.16	

Measured (shaded) and estimated precipitation, in inches, for site 8, Deadwood (392207)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.69	0.77	1.03	0.62	0.50	1.78	1.30	1.88	1.08	1.66	2.56	0.36	16.23	66
1932	1.51	0.84	0.40	1.17	0.17	1.18	6.88	5.49	3.53	2.78	1.44	0.51	25.90	35
1933	3.09	0.56	0.84	0.59	0.98	2.17	4.32	7.04	2.05	1.63	2.87	0.58	26.72	32
1934	0.45	0.58	0.62	1.26	0.42	1.41	1.35	0.46	4.10	0.69	1.05	1.22	13.61	67
1935	1.78	0.82	0.57	0.09	0.71	1.62	1.93	3.99	3.24	3.45	0.82	0.54	19.56	61
1936	0.46	0.54	0.99	0.88	0.53	1.44	2.49	0.76	1.40	1.07	0.68	1.08	12.32	68
1937	1.16	0.75	0.22	0.49	0.60	1.05	0.65	3.69	4.65	5.50	1.20	1.34	21.30	54
1938	0.23	0.71	1.49	1.65	0.39	0.83	2.95	4.59	2.78	2.35	0.65	2.64	21.26	55
1939	0.17	1.07	1.00	1.31	1.05	0.60	3.50	1.33	3.47	0.89	3.11	1.02	18.52	63
1940	1.33	0.07	0.76	0.46	1.08	1.85	4.68	2.30	3.40	1.22	2.33	1.92	21.40	53
1941	0.85	0.75	0.58	0.27	0.28	1.28	5.65	2.06	8.75	2.46	1.03	2.63	26.59	33
1942	1.63	0.73	0.86	0.47	0.68	1.19	3.58	6.83	4.32	1.19	1.46	2.24	25.18	40
1943	2.60	1.54	1.27	1.51	0.99	1.50	2.33	1.77	5.28	1.10	0.58	0.42	20.89	57
1944	1.63	1.44	0.94	2.99	0.79	1.82	2.27	2.53	6.38	1.91	1.38	0.49	24.57	44
1945	1.38	5.44	1.81	1.51	1.11	3.19	2.28	4.48	6.63	2.01	2.30	4.64	36.78	8
1946	0.81	0.66	0.84	1.01	1.53	3.50	2.86	18.61	7.71	1.19	0.97	5.79	45.48	2
1947	3.79	0.47	0.99	1.30	1.29	1.85	2.67	1.28	10.44	0.74	1.07	0.69	26.58	34
1948	2.78	2.10	0.23	2.01	1.40	0.44	3.77	2.13	6.29	3.80	0.98	0.97	26.90	31
1949	1.39	4.70	0.63	4.76	0.65	1.18	2.21	4.06	2.44	1.09	0.98	0.84	24.93	41
1950	1.98	0.66	1.29	0.61	0.49	4.59	3.15	3.33	1.58	2.63	2.33	4.76	27.40	29
1951	0.94	1.37	0.43	0.56	0.40	1.42	0.95	2.64	5.40	2.85	4.23	2.70	23.89	49
1952	2.46	1.64	3.00	0.31	0.98	1.97	0.51	9.20	1.36	3.88	1.55	0.25	27.11	30
1953	0.30	1.40	0.60	2.73	3.31	0.95	5.30	5.55	4.63	1.52	2.19	0.59	29.07	26
1954	0.50	1.73	1.26	0.49	1.95	4.92	1.16	5.38	4.06	2.28	1.54	0.46	25.73	37
1955	1.99	1.08	1.16	1.30	1.41	1.36	5.36	3.62	5.51	2.19	1.53	3.19	29.70	22
1956	1.67	1.31	1.48	0.93	0.44	1.84	2.09	5.01	2.62	2.08	2.90	1.54	23.91	48
1957	1.16	4.77	0.70	0.66	0.32	1.79	2.71	7.25	4.20	3.26	1.37	1.51	29.70	23
1958	1.95	2.11	0.20	0.21	2.21	0.47	5.54	2.62	2.73	9.76	1.32	0.04	29.16	24
1959	1.33	1.42	0.52	0.95	1.53	1.12	1.28	2.96	3.60	0.71	0.20	1.30	16.92	65
1960	0.67	3.29	0.91	0.46	1.44	2.09	1.97	1.08	3.70	1.57	2.24	0.98	20.40	59
1961	0.71	0.87	2.66	0.14	1.27	0.89	3.37	1.07	1.53	2.86	0.03	3.38	18.78	62
1962	1.44	1.01	1.04	1.24	1.05	1.18	2.01	12.10	7.05	4.54	0.98	2.43	36.07	10
1963	2.45	1.29	1.06	2.15	4.93	2.34	5.82	2.92	5.33	3.37	0.58	1.70	33.94	14
1964	1.19	0.07	1.11	0.91	2.95	1.67	2.93	5.78	10.26	1.04	10.20	0.61	38.72	3
1965	0.41	2.18	1.42	1.73	1.92	1.89	3.51	13.96	4.45	1.33	2.26	3.05	38.11	5
1966	0.00	0.46	0.39	0.57	1.13	5.84	4.36	0.93	1.03	1.76	2.92	3.75	23.14	51
1967	3.81	0.91	0.96	1.22	2.42	1.08	3.20	3.40	4.91	0.61	0.34	5.09	27.95	28
1968	1.56	1.03	2.62	1.05	1.06	1.12	2.11	3.11	7.20	3.76	2.40	3.78	30.80	17
1969	0.97	1.74	2.15	0.90	0.61	1.48	4.61	3.00	3.03	1.55	0.47	0.17	20.68	58
1970	2.14	1.07	2.47	2.06	0.46	2.64	6.91	7.21	4.08	2.14	2.73	1.51	35.42	11
1971	2.08	2.84	1.00	2.11	2.38	3.56	4.22	7.79	3.65	0.45	0.93	5.52	36.53	9
1972	3.70	1.57	0.90	1.22	0.83	1.90	4.29	6.36	7.10	3.03	2.79	0.35	34.04	13
1973	1.72	0.52	1.41	0.25	0.65	6.22	6.19	5.35	2.88	1.88	1.11	1.95	30.13	19
1974	1.70	0.91	2.10	0.87	1.05	1.19	4.32	2.55	1.37	3.50	3.50	1.17	24.23	46
1975	1.53	1.08	1.66	2.33	1.41	2.58	4.42	2.46	5.06	1.95	0.69	0.20	25.37	39
1976	1.36	1.53	2.14	1.94	1.91	2.10	4.90	3.64	12.43	1.72	1.06	3.54	38.27	4
1977	1.21	1.61	1.73	2.23	2.25	5.92	2.56	1.66	2.96	1.92	2.99	2.00	29.04	27
1978	2.06	1.88	1.32	0.67	1.46	0.51	6.50	5.77	2.17	5.44	2.62	0.60	31.00	16
1979	1.05	2.02	2.05	0.79	1.55	1.15	1.61	1.88	3.96	3.71	4.10	0.67	24.54	45
1980	2.29	1.03	0.75	0.92	0.50	1.20	3.22	3.54	2.44	1.10	2.54	0.60	20.13	60
1981	1.39	1.25	1.35	0.21	0.09	0.03	0.22	5.98	3.36	4.49	1.46	1.36	21.19	56
1982	1.63	1.06	0.46	0.72	0.64	2.36	2.60	15.99	3.30	4.00	2.65	2.26	37.67	6
1983	7.26	0.90	1.59	1.42	0.30	2.84	2.91	3.48	1.12	2.65	4.47	0.78	29.72	21
1984	2.05	2.16	0.97	0.79	1.06	2.45	6.23	2.11	5.92	2.08	3.06	1.03	29.91	20
1985	0.92	1.64	1.09	1.18	0.52	1.77	1.11	2.15	3.12	0.55	0.31	2.81	17.17	64
1986	1.31	1.66	3.17	1.30	1.47	0.84	4.39	2.35	4.00	2.88	0.48	5.23	29.08	25
1987	3.81	1.60	0.00	0.99	1.45	4.20	1.00	3.59	0.64	1.27	4.71	1.51	24.77	43
1988	0.65	1.28	1.11	1.07	1.33	4.00	1.00	5.34	3.19	0.48	2.05	3.33	24.83	42
1989	1.80	1.40	1.05	0.55	1.25	2.55	5.28	3.35	2.64	2.18	1.16	2.34	25.55	38
1990	1.75	2.40	2.24	1.00	0.88	1.79	4.08	3.18	1.84	3.02	0.46	0.97	23.61	50
1991	1.25	0.80	1.60	1.30	1.65	1.25	3.05	7.50	4.26	1.86	0.41	0.83	25.76	36
1992	1.70	1.30	0.22	1.00	1.00	2.20	3.87	3.05	3.63	2.14	1.26	0.88	22.25	52
1993	0.85	1.95	1.76	1.25	1.54	1.14	4.53	4.91	8.31	5.37	1.49	1.55	34.65	12
1994	1.62	2.54	2.20	3.40	1.30	2.29	3.98	1.22	0.93	3.28	0.25	1.00	24.01	47
1995	10.78	2.13	0.40	0.55	0.75	2.49	3.83	13.32	5.82	6.05	0.88	1.83	48.83	1
1996	6.42	1.64	0.90	2.31	0.75	3.62	2.67	4.03	2.02	1.60	3.28	2.69	31.93	15
1997	6.05	0.93	2.93	1.80	1.96	1.95	5.93	3.78	2.27	6.49	2.30	1.00	37.39	7
1998	1.85	2.14	1.45	1.40	1.00	2.35	1.80	1.48	8.74	2.85	3.94	1.50	30.50	18
Mean 1961-90	1.87	1.37	1.47	1.15	1.36	2.31	3.66	4.73	4.07	2.38	2.20	2.12	28.68	

Measured (shaded) and estimated precipitation, in inches, for site 9, Deerfield 5NW (392228)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.40	0.56	0.99	0.78	0.48	1.73	1.44	1.40	1.60	1.24	1.13	0.33	13.08	67
1932	0.81	0.73	0.54	1.47	0.30	1.08	5.55	4.12	3.33	3.03	2.30	0.72	23.98	20
1933	2.61	0.62	0.92	1.27	0.95	1.46	3.77	4.98	2.09	1.59	2.37	0.81	23.44	24
1934	0.26	0.52	0.57	0.85	0.43	1.02	1.11	0.54	4.67	0.60	2.23	1.07	13.87	66
1935	1.16	0.60	0.74	0.23	0.75	1.37	1.62	4.03	3.16	2.94	0.94	0.71	18.25	51
1936	0.36	0.71	0.70	0.78	0.74	1.08	1.23	0.34	1.79	1.29	1.26	0.47	10.75	68
1937	0.63	0.68	0.33	0.59	0.52	0.98	0.51	2.19	3.81	3.50	1.13	1.26	16.13	59
1938	0.28	0.54	1.17	1.56	0.52	1.03	2.34	4.29	2.03	1.86	0.44	0.84	16.90	56
1939	0.25	0.84	0.87	1.13	0.86	0.97	2.11	1.77	2.88	1.62	4.08	0.91	18.29	49
1940	1.05	0.06	0.61	0.47	0.68	1.14	2.79	1.13	2.37	1.28	1.30	1.64	14.52	65
1941	1.40	0.41	0.43	0.12	0.17	1.05	4.83	2.24	6.22	3.55	2.47	2.02	24.91	17
1942	2.24	0.45	0.51	0.20	0.46	1.37	3.03	3.74	3.89	1.90	1.68	2.18	21.65	34
1943	2.01	1.14	0.92	0.98	0.78	1.06	3.08	2.66	4.13	2.48	1.62	0.37	21.23	35
1944	1.47	1.03	0.08	1.71	0.34	1.02	1.27	2.74	4.05	2.58	0.28	0.51	17.08	55
1945	0.84	1.59	0.54	1.02	0.70	1.78	1.34	3.55	3.50	1.55	4.73	2.69	23.83	21
1946	0.19	0.28	0.96	0.56	0.63	1.94	2.09	8.83	4.30	2.62	1.26	4.41	28.07	8
1947	3.08	0.27	0.87	1.22	0.69	1.31	2.13	1.43	7.17	1.78	1.11	0.64	21.70	33
1948	1.55	1.77	0.21	1.27	0.63	0.33	2.45	1.42	5.20	3.61	2.08	1.21	21.73	31
1949	0.54	1.55	0.16	1.83	0.18	0.46	2.03	2.17	3.71	1.72	0.90	0.90	16.15	58
1950	1.21	0.59	0.57	0.30	0.29	2.81	2.08	1.90	1.65	3.46	2.22	2.90	19.98	41
1951	0.54	0.60	0.24	0.23	0.21	0.82	1.22	2.03	3.81	3.07	2.83	2.87	18.47	48
1952	1.12	0.57	1.39	0.10	0.51	1.04	0.67	8.41	2.02	2.12	1.61	0.33	19.89	42
1953	0.21	0.47	0.41	1.16	1.33	1.33	2.93	2.42	3.37	2.04	2.63	0.29	18.59	46
1954	0.26	0.67	0.83	0.19	0.87	1.78	0.27	3.07	1.81	1.75	2.79	0.62	14.91	62
1955	1.90	0.64	0.47	0.82	0.85	1.16	1.89	2.63	4.07	3.33	2.54	2.31	22.61	26
1956	0.56	1.00	1.23	0.56	0.52	1.22	1.49	4.07	1.84	2.30	2.11	0.28	17.18	54
1957	0.62	2.01	0.65	0.60	0.29	1.61	2.04	4.46	4.57	2.73	2.13	0.86	22.57	28
1958	1.05	1.26	1.09	0.63	0.98	1.24	3.01	1.10	4.01	4.46	2.08	0.24	21.15	36
1959	1.06	1.24	0.73	0.86	1.79	1.60	1.58	3.22	6.39	1.30	0.45	2.36	22.58	27
1960	0.84	1.66	0.30	0.28	1.32	0.75	1.96	1.35	3.33	0.67	1.31	1.09	14.86	63
1961	0.07	0.74	0.86	0.11	0.44	0.94	1.93	1.69	1.42	4.36	1.36	2.31	16.23	57
1962	0.72	0.62	0.88	1.05	1.27	0.55	1.28	7.97	4.75	2.64	1.20	2.05	24.98	16
1963	0.44	0.39	0.70	1.07	2.12	1.16	5.77	2.86	6.84	4.36	0.62	2.89	29.22	6
1964	0.84	0.34	1.04	0.82	2.74	0.97	2.09	5.35	8.97	0.44	4.97	0.98	29.55	3
1965	0.34	0.43	1.89	1.92	0.44	0.76	1.49	8.28	5.06	6.03	2.03	2.04	30.71	1
1966	0.00	0.93	0.36	0.42	1.21	1.02	3.74	0.21	2.10	4.42	3.21	2.01	19.63	43
1967	1.21	0.61	1.15	0.89	1.25	0.83	2.46	3.04	5.13	1.45	2.55	3.97	24.54	19
1968	0.92	0.62	1.43	0.49	0.59	0.22	1.16	2.47	4.77	3.49	3.41	1.53	21.10	37
1969	0.40	1.46	0.85	0.73	1.21	0.92	3.98	2.77	5.00	5.67	0.46	2.00	25.45	15
1970	0.76	1.45	0.86	1.72	0.52	2.25	3.15	2.62	3.51	2.19	1.61	1.25	21.89	30
1971	1.52	1.44	0.76	1.76	1.34	1.71	4.34	3.40	2.57	1.51	1.77	2.65	24.77	18
1972	3.05	0.93	0.62	1.17	0.67	1.12	1.85	3.56	3.23	2.74	3.39	1.05	23.38	25
1973	1.02	0.65	0.70	0.22	0.43	2.96	3.77	2.34	5.65	2.77	2.03	3.85	26.39	13
1974	0.30	0.57	1.33	0.98	0.78	0.40	1.69	1.82	1.08	3.21	4.80	1.02	17.98	52
1975	1.65	0.73	1.21	1.63	0.50	2.50	3.43	1.94	5.40	0.51	0.72	0.26	20.48	39
1976	0.77	0.68	1.57	0.77	1.41	0.68	2.00	3.81	8.12	1.71	1.13	1.09	23.74	22
1977	0.54	2.09	0.80	2.92	2.12	2.41	2.42	2.58	2.96	2.74	3.88	2.29	27.75	9
1978	1.34	1.27	1.10	0.50	1.72	0.71	4.03	8.14	2.05	4.13	1.29	0.94	27.22	11
1979	1.32	1.03	1.84	1.16	1.29	0.60	1.34	2.16	4.71	5.66	3.93	0.58	25.62	14
1980	0.58	1.40	0.95	0.79	0.60	1.20	1.08	5.06	2.01	1.58	3.07	1.07	19.39	45
1981	1.77	0.67	0.81	0.21	0.25	0.25	0.60	5.59	1.97	5.37	1.22	1.32	20.03	40
1982	1.50	0.44	0.76	1.32	3.09	5.26	2.86	5.64	3.70	3.13	1.28	1.56	30.54	2
1983	2.23	0.45	0.90	1.14	0.31	1.26	1.14	2.55	1.85	1.57	4.60	0.57	18.57	47
1984	2.73	1.78	0.60	1.03	0.48	1.52	4.06	1.50	3.41	2.48	1.31	0.82	21.72	32
1985	1.07	1.30	0.38	0.54	0.95	1.42	1.15	1.24	1.71	2.17	1.80	1.72	15.45	61
1986	0.61	1.55	1.19	0.88	1.70	0.84	3.34	1.78	4.87	1.44	1.24	4.08	23.52	23
1987	1.95	1.48	0.13	0.73	1.30	0.93	0.38	3.48	1.13	1.38	1.67	1.07	15.63	60
1988	0.69	0.41	0.28	0.75	1.10	1.21	0.69	3.42	1.67	1.14	1.89	1.56	14.81	64
1989	0.57	1.45	0.94	0.23	0.82	1.00	3.09	2.12	1.85	1.02	2.38	2.35	17.82	53
1990	1.04	1.35	1.81	0.79	1.07	1.86	1.47	3.00	0.81	2.59	1.60	0.89	18.28	50
1991	1.00	0.56	1.15	1.11	1.18	1.08	3.66	6.12	3.10	1.70	1.47	0.37	22.50	29
1992	1.18	1.45	0.20	0.91	0.59	2.01	2.33	3.58	2.80	2.94	1.59	1.10	20.68	38
1993	0.86	1.31	1.13	0.96	0.89	0.71	2.49	5.31	6.58	3.77	1.66	1.27	26.94	12
1994	1.34	1.00	1.88	2.11	1.23	0.77	3.55	2.30	1.37	1.97	1.33	0.77	19.62	44
1995	4.98	1.37	0.33	0.23	0.95	1.66	2.34	6.49	3.56	2.34	0.99	2.20	27.44	10
1996	3.29	1.25	0.20	2.08	0.61	3.58	2.40	5.35	2.53	2.46	3.78	1.97	29.50	4
1997	3.98	1.01	1.87	1.01	0.88	0.90	2.94	3.41	2.87	6.56	2.70	1.30	29.43	5
1998	1.33	0.99	1.23	0.65	1.45	2.33	0.91	2.06	6.69	4.08	5.10	2.37	29.19	7
Mean 1961-90	1.07	0.98	0.96	0.96	1.12	1.32	2.39	3.41	3.61	2.80	2.21	1.73	22.55	

Measured (shaded) and estimated precipitation, in inches, for site 10, Deerfield 3SE (392231)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.23	0.49	0.08	0.22	0.24	0.86	0.44	1.21	2.14	1.31	1.73	0.40	11.35	67
1932	1.13	0.63	0.20	0.87	0.14	0.56	4.41	3.78	3.80	3.80	2.49	0.93	22.74	23
1933	1.78	0.25	0.25	0.41	0.65	0.60	3.74	4.83	2.85	3.25	2.34	0.76	21.71	26
1934	0.01	0.15	0.28	0.40	0.27	0.71	0.77	0.66	4.78	0.42	2.08	1.16	11.69	65
1935	1.34	0.31	0.44	0.19	0.38	0.52	0.93	4.30	2.60	3.28	1.09	0.80	16.18	54
1936	0.23	0.31	0.09	0.48	0.46	0.65	0.86	0.17	2.99	1.43	1.75	0.24	9.66	68
1937	0.54	0.61	0.03	0.21	0.24	0.70	0.41	2.35	2.90	3.73	1.26	0.76	13.74	61
1938	0.01	0.15	0.76	0.35	0.09	1.10	2.25	4.00	1.78	1.91	0.47	1.34	14.21	60
1939	0.28	0.58	0.43	0.50	0.25	0.86	0.81	1.91	2.71	3.03	4.50	1.01	16.87	50
1940	0.99	0.00	0.18	0.32	0.15	0.81	1.93	0.67	2.32	1.02	1.45	1.68	11.52	66
1941	1.33	0.28	0.25	0.08	0.12	0.86	3.80	1.89	4.18	4.68	2.69	1.85	22.01	25
1942	2.30	0.06	0.23	0.04	0.23	0.89	3.26	3.15	3.25	2.01	1.49	1.84	18.75	43
1943	1.62	0.50	0.38	0.74	0.38	0.83	3.70	2.89	3.80	2.83	1.15	0.03	18.85	40
1944	0.80	0.14	0.00	1.30	0.52	1.27	0.77	2.43	3.87	2.83	0.12	0.43	14.48	59
1945	0.69	1.23	0.28	0.70	0.48	1.45	1.26	3.23	2.45	2.12	2.71	2.30	18.90	39
1946	0.01	0.10	0.58	0.21	0.66	1.69	1.93	7.06	4.34	2.08	1.81	4.07	24.54	12
1947	2.45	0.22	0.46	0.86	0.27	0.92	1.70	1.91	7.65	1.44	1.49	0.87	20.24	33
1948	1.47	1.36	0.12	0.60	0.55	0.17	1.79	1.50	4.57	3.47	2.52	1.06	19.18	37
1949	0.48	1.15	0.23	2.05	0.13	0.55	1.79	2.26	4.24	2.41	1.07	1.07	17.43	48
1950	0.93	0.21	0.48	0.45	0.27	2.42	2.49	2.24	1.46	2.87	2.63	2.78	19.23	36
1951	0.42	0.49	0.16	0.15	0.25	0.63	1.32	1.82	3.36	2.76	2.33	2.90	16.59	52
1952	1.05	0.28	0.52	0.02	0.55	0.86	0.75	8.63	1.74	2.03	1.66	0.24	18.33	45
1953	0.22	0.44	0.09	0.75	1.19	1.57	2.58	1.63	3.19	1.80	1.92	0.17	15.55	57
1954	0.24	0.52	0.73	0.14	0.77	1.35	0.19	2.87	1.48	1.73	2.53	0.51	13.06	64
1955	2.00	0.43	0.18	0.58	0.80	1.22	1.19	2.68	4.01	3.49	2.86	2.14	21.58	27
1956	0.31	0.98	0.88	0.56	0.39	0.93	1.55	4.02	1.55	2.34	2.86	0.29	16.66	51
1957	0.49	1.89	0.47	0.42	0.25	0.96	2.20	5.47	4.28	3.19	2.36	0.89	22.87	22
1958	0.80	0.74	0.61	0.51	0.70	0.87	2.98	1.31	4.03	4.26	1.68	0.30	18.79	42
1959	0.78	1.10	0.58	0.69	1.31	1.53	1.74	3.16	5.01	1.69	0.45	2.31	20.35	31
1960	0.62	1.56	0.31	0.30	1.04	0.67	1.99	1.54	3.65	1.14	1.96	1.14	15.92	55
1961	0.07	0.71	0.87	0.10	0.47	0.87	1.80	1.53	1.44	3.85	1.16	2.11	14.98	58
1962	0.85	0.47	0.69	0.84	1.05	0.57	1.21	8.77	5.71	3.98	1.23	1.69	27.06	5
1963	0.89	0.33	0.53	0.93	1.63	1.26	5.21	2.85	6.74	3.24	0.77	2.78	27.16	4
1964	0.88	0.26	0.81	0.72	1.92	0.91	1.90	4.60	7.77	1.07	4.09	1.02	25.95	8
1965	0.26	0.47	1.80	1.39	0.39	0.64	1.58	8.95	4.91	4.71	1.97	1.94	29.01	3
1966	0.04	0.59	0.34	0.31	0.95	1.10	3.30	0.21	1.62	4.39	3.27	2.00	18.12	47
1967	1.21	0.62	0.93	0.68	1.11	0.66	2.67	2.95	6.02	1.72	2.00	2.93	23.50	20
1968	0.80	0.54	1.11	0.52	0.49	0.26	1.16	2.52	5.12	3.00	3.23	1.55	20.30	32
1969	0.32	1.08	0.78	0.57	1.13	0.76	3.22	2.60	4.37	5.59	0.98	1.28	22.68	24
1970	1.03	1.00	0.64	1.04	0.47	1.87	2.95	3.07	3.49	1.99	1.89	1.19	20.63	30
1971	1.31	0.79	0.60	1.28	1.08	1.58	4.59	3.82	3.17	1.51	1.51	2.70	23.94	16
1972	2.48	0.93	0.41	0.82	0.49	0.72	1.95	3.38	6.12	3.06	3.35	0.81	24.52	13
1973	0.89	0.47	0.52	0.16	0.34	2.98	3.75	2.05	4.38	2.98	1.93	2.89	23.34	21
1974	0.52	0.73	0.99	0.67	0.54	0.35	1.51	1.76	0.93	3.78	3.57	0.93	16.28	53
1975	2.00	0.52	0.77	1.27	0.50	1.93	3.10	2.20	5.17	0.82	0.70	0.20	19.18	38
1976	0.74	0.57	1.24	0.61	1.31	0.57	2.91	3.73	7.04	2.66	1.41	1.15	23.94	17
1977	0.40	1.34	0.56	1.81	1.38	2.10	2.09	2.11	3.04	3.25	3.47	2.05	23.60	19
1978	1.08	1.05	0.97	0.41	1.31	0.51	3.43	7.51	2.00	3.97	1.65	0.76	24.65	10
1979	0.95	0.93	1.31	0.81	0.93	0.48	1.22	1.97	4.59	6.68	3.46	0.40	23.73	18
1980	0.74	0.93	0.59	0.56	0.51	1.09	1.38	3.83	2.52	2.32	2.93	0.91	18.31	46
1981	1.78	0.51	0.57	0.08	0.16	0.28	0.68	6.28	1.57	5.44	1.32	1.30	19.97	34
1982	1.45	0.17	0.81	0.98	1.77	1.18	1.07	5.83	5.20	3.29	2.51	2.63	26.89	6
1983	1.53	0.39	0.94	0.62	0.27	1.42	1.25	2.73	2.66	1.14	7.28	0.85	21.08	28
1984	2.87	1.41	0.54	0.12	0.17	0.88	3.32	1.97	3.48	2.10	0.77	0.82	18.45	44
1985	1.17	1.06	0.24	0.27	0.15	1.00	0.99	1.73	1.89	2.60	0.97	1.45	13.52	62
1986	0.75	1.37	0.96	0.41	1.72	0.43	3.51	2.14	6.04	2.74	0.97	4.71	25.75	9
1987	2.02	1.39	0.03	0.38	1.52	0.85	0.20	3.46	0.69	1.81	1.59	1.62	15.56	56
1988	0.99	0.56	0.21	0.41	0.75	0.75	0.90	3.46	0.96	1.77	2.23	0.38	13.37	63
1989	0.47	1.01	0.35	0.20	0.48	0.86	2.42	2.36	2.95	1.02	3.04	3.67	18.83	41
1990	1.25	0.82	0.74	0.19	0.84	1.55	1.66	4.94	1.04	4.13	1.62	2.08	20.86	29
1991	1.34	0.67	0.83	0.39	0.66	0.69	2.76	6.49	3.91	2.89	2.52	1.20	24.35	15
1992	1.42	1.51	0.08	0.52	0.46	2.52	1.24	2.81	4.10	2.75	1.31	0.66	19.38	35
1993	0.56	1.02	1.29	0.68	1.01	0.67	2.77	4.23	5.77	3.16	1.96	1.33	24.45	14
1994	2.77	0.46	1.47	1.04	1.21	0.76	2.75	1.73	1.52	1.80	1.57	0.32	17.40	49
1995	3.58	1.63	0.40	0.15	0.69	1.14	2.36	6.98	3.86	3.07	1.09	1.94	26.89	7
1996	2.56	0.93	0.30	1.88	0.16	3.19	2.39	5.89	3.20	3.60	6.81	2.85	33.76	1
1997	4.03	0.92	1.28	0.59	0.80	0.62	2.91	3.58	2.84	7.83	2.42	1.73	29.55	2
1998	1.31	0.24	0.52	0.16	1.14	1.33	0.89	2.77	6.19	4.40	2.98	2.68	24.61	11
Mean 1961-90	1.06	0.77	0.73	0.64	0.86	1.01	2.23	3.51	3.75	3.02	2.23	1.69	21.51	

Measured (shaded) and estimated precipitation, in inches, for site 11, Deerfield Dam (392234)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.25	0.48	0.05	0.19	0.23	0.83	0.39	1.19	2.17	1.30	1.74	0.40	11.22	67
1932	1.13	0.61	0.19	0.84	0.13	0.54	4.36	3.76	3.83	3.83	2.48	0.94	22.64	24
1933	1.74	0.24	0.23	0.38	0.64	0.56	3.73	4.81	2.89	3.32	2.31	0.76	21.61	26
1934	0.00	0.13	0.27	0.39	0.26	0.70	0.75	0.67	4.78	0.41	2.10	1.16	11.62	65
1935	1.34	0.30	0.43	0.19	0.37	0.49	0.89	4.29	2.55	3.28	1.10	0.80	16.03	55
1936	0.22	0.29	0.07	0.47	0.45	0.63	0.83	0.16	3.03	1.44	1.76	0.23	9.58	68
1937	0.53	0.60	0.02	0.20	0.23	0.68	0.41	2.36	2.85	3.73	1.27	0.73	13.61	61
1938	0.00	0.14	0.74	0.30	0.07	1.11	2.24	3.99	1.78	1.90	0.47	1.36	14.10	60
1939	0.28	0.57	0.41	0.47	0.23	0.85	0.75	1.91	2.71	3.10	4.52	1.01	16.81	50
1940	0.98	0.00	0.16	0.32	0.13	0.80	1.89	0.66	2.32	1.01	1.44	1.68	11.39	66
1941	1.33	0.27	0.24	0.08	0.12	0.85	3.74	1.87	4.10	4.75	2.70	1.86	21.91	25
1942	2.30	0.04	0.21	0.03	0.22	0.87	3.27	3.12	3.22	2.02	1.47	1.82	18.59	44
1943	1.59	0.47	0.36	0.73	0.36	0.82	3.72	2.88	3.78	2.86	1.14	0.02	18.73	41
1944	0.77	0.10	0.00	1.28	0.53	1.28	0.74	2.41	3.87	2.84	0.11	0.43	14.36	59
1945	0.68	1.20	0.27	0.69	0.48	1.44	1.26	3.22	2.40	2.16	2.64	2.30	18.74	40
1946	0.00	0.09	0.57	0.20	0.66	1.68	1.92	6.96	4.35	2.04	1.82	4.06	24.35	15
1947	2.39	0.22	0.44	0.84	0.26	0.91	1.68	1.93	7.68	1.43	1.50	0.88	20.16	33
1948	1.47	1.36	0.12	0.58	0.55	0.17	1.75	1.49	4.53	3.45	2.53	1.06	19.06	38
1949	0.48	1.14	0.23	2.05	0.13	0.56	1.78	2.25	4.29	2.45	1.09	1.09	17.54	48
1950	0.92	0.20	0.47	0.46	0.26	2.41	2.51	2.26	1.45	2.81	2.67	2.79	19.21	37
1951	0.41	0.49	0.16	0.15	0.25	0.62	1.32	1.81	3.33	2.76	2.28	2.93	16.51	53
1952	1.05	0.26	0.48	0.02	0.56	0.86	0.78	8.69	1.70	2.03	1.67	0.23	18.33	47
1953	0.18	0.44	0.08	0.72	1.20	1.61	2.56	1.59	3.19	1.79	1.88	0.16	15.40	57
1954	0.24	0.52	0.74	0.14	0.78	1.34	0.19	2.87	1.43	1.73	2.50	0.51	12.99	64
1955	2.01	0.41	0.17	0.59	0.80	1.23	1.16	2.73	4.02	3.49	2.86	2.14	21.61	27
1956	0.30	0.99	0.89	0.57	0.38	0.94	1.54	4.03	1.57	2.31	2.87	0.29	16.68	52
1957	0.50	1.90	0.48	0.43	0.25	0.97	2.17	5.42	4.28	3.21	2.39	0.89	22.89	23
1958	0.81	0.77	0.63	0.52	0.71	0.87	2.98	1.31	4.04	4.29	1.78	0.31	19.02	39
1959	0.87	1.15	0.62	0.75	1.40	1.54	1.75	3.16	5.07	1.58	0.42	2.29	20.60	31
1960	0.67	1.65	0.35	0.30	1.11	0.74	2.01	1.48	3.83	1.09	2.05	1.15	16.43	54
1961	0.08	0.72	0.95	0.11	0.49	0.85	1.87	1.51	1.43	3.85	1.14	2.17	15.17	58
1962	0.85	0.50	0.78	0.91	1.06	0.58	1.30	8.87	5.73	3.84	1.24	1.77	27.43	5
1963	0.87	0.36	0.59	1.01	1.82	1.29	5.30	2.87	6.80	3.31	0.65	2.76	27.63	4
1964	0.88	0.27	0.88	0.76	2.13	0.95	2.00	4.75	8.12	0.97	4.39	1.02	27.12	7
1965	0.29	0.50	1.79	1.52	0.42	0.67	1.60	8.92	4.94	4.72	1.98	2.01	29.36	3
1966	0.03	0.63	0.35	0.33	0.99	1.19	3.38	0.23	1.69	4.34	3.24	2.02	18.42	46
1967	1.25	0.63	0.95	0.75	1.23	0.67	2.74	2.99	5.96	1.72	1.97	3.15	24.01	19
1968	0.86	0.58	1.21	0.52	0.54	0.26	1.20	2.57	5.13	2.99	3.25	1.62	20.73	30
1969	0.34	1.18	0.82	0.63	1.10	0.82	3.43	2.63	4.45	5.48	0.92	1.31	23.11	22
1970	1.02	1.06	0.69	1.12	0.48	1.92	2.97	3.09	3.52	2.15	1.84	1.18	21.04	28
1971	1.31	0.82	0.61	1.34	1.11	1.61	4.56	3.84	3.05	1.48	1.59	2.70	24.02	18
1972	2.55	0.93	0.43	0.85	0.52	0.82	1.96	3.54	5.80	3.06	3.39	0.83	24.68	13
1973	0.90	0.50	0.55	0.17	0.36	2.98	3.78	2.13	4.63	2.90	1.91	2.97	23.78	21
1974	0.52	0.71	1.13	0.69	0.63	0.37	1.55	1.76	0.98	3.73	3.75	0.94	16.76	51
1975	1.98	0.56	0.94	1.34	0.51	2.03	3.14	2.18	5.23	0.80	0.71	0.21	19.63	35
1976	0.75	0.59	1.36	0.64	1.32	0.58	2.81	3.76	7.16	2.60	1.37	1.15	24.09	16
1977	0.42	1.42	0.60	1.95	1.48	2.49	2.13	2.17	3.01	3.13	3.50	2.08	24.38	14
1978	1.12	1.08	1.02	0.42	1.40	0.53	3.52	7.53	2.07	4.01	1.62	0.77	25.09	11
1979	0.99	0.94	1.36	0.85	0.97	0.49	1.33	2.01	4.61	6.52	3.51	0.42	24.00	20
1980	0.73	0.98	0.63	0.58	0.52	1.10	1.36	3.96	2.48	2.26	2.96	0.92	18.48	45
1981	1.78	0.52	0.59	0.09	0.16	0.27	0.67	6.26	1.63	5.44	1.32	1.29	20.02	34
1982	1.46	0.18	0.80	1.03	1.98	1.33	1.13	5.82	5.13	3.29	2.46	2.60	27.21	6
1983	1.56	0.39	0.94	0.63	0.27	1.42	1.24	2.72	2.64	1.16	7.13	0.84	20.94	29
1984	2.85	1.42	0.54	0.15	0.18	1.00	3.35	1.95	3.50	2.17	0.80	0.82	18.73	42
1985	1.16	1.07	0.25	0.28	0.18	1.02	1.00	1.70	1.87	2.58	1.01	1.47	13.59	62
1986	0.75	1.38	0.96	0.42	1.71	0.45	3.51	2.12	5.98	2.68	0.99	4.71	25.66	9
1987	2.01	1.39	0.03	0.39	1.52	0.86	0.21	3.50	0.70	1.79	1.61	1.59	15.60	56
1988	0.96	0.54	0.20	0.41	0.75	0.75	0.88	3.39	1.01	1.72	2.20	0.49	13.30	63
1989	0.48	1.05	0.41	0.21	0.52	0.89	2.48	2.34	2.80	1.03	2.96	3.53	18.70	43
1990	1.22	0.87	0.84	0.25	0.87	1.61	1.64	4.67	1.02	3.96	1.63	1.92	20.50	32
1991	1.27	0.65	0.85	0.47	0.72	0.73	2.84	6.44	3.82	2.77	2.40	1.09	24.05	17
1992	1.39	1.48	0.09	0.56	0.46	2.46	1.35	2.85	3.97	2.78	1.35	0.71	19.45	36
1993	0.60	1.05	1.26	0.71	1.00	0.67	2.72	4.39	5.85	3.25	1.93	1.31	24.74	12
1994	2.57	0.52	1.49	1.14	1.19	0.75	2.85	1.78	1.50	1.82	1.53	0.38	17.52	49
1995	3.74	1.58	0.39	0.15	0.71	1.19	2.37	6.98	3.81	2.96	1.08	1.96	26.92	8
1996	2.65	0.96	0.28	1.92	0.21	3.28	2.40	5.85	3.12	3.48	6.41	2.75	33.31	1
1997	4.02	0.93	1.33	0.62	0.80	0.65	2.92	3.57	2.90	7.69	2.47	1.67	29.57	2
1998	1.29	0.33	0.59	0.22	1.18	1.46	0.89	2.70	6.26	4.43	3.24	2.66	25.25	10
Mean 1961-90	1.07	0.79	0.77	0.68	0.91	1.06	2.27	3.53	3.77	2.99	2.23	1.71	21.77	

Measured (shaded) and estimated precipitation, in inches, for site 12, Dewey 15NNE (392316)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.55	0.52	0.22	0.28	0.33	0.99	0.80	1.78	1.56	1.14	1.83	0.36	12.36	63
1932	1.32	0.57	0.44	0.88	0.34	0.99	3.62	3.03	3.62	2.86	2.97	0.39	21.03	17
1933	1.63	0.24	0.43	0.61	0.66	0.92	2.94	5.25	1.16	1.88	3.54	0.56	19.82	23
1934	0.16	0.27	0.24	0.35	0.42	1.13	0.70	0.28	2.99	1.12	1.94	1.01	10.61	67
1935	1.75	0.25	0.59	0.18	0.52	0.92	1.39	5.25	2.17	1.07	0.58	0.99	15.66	46
1936	0.38	0.45	0.20	0.53	0.67	0.72	1.40	0.36	3.16	0.98	1.71	0.50	11.06	66
1937	0.84	0.91	0.30	0.57	0.41	1.10	0.42	1.90	2.85	2.92	0.81	0.62	13.65	58
1938	0.33	0.43	0.90	0.66	0.25	1.13	1.63	4.68	1.64	2.16	1.10	1.30	16.21	41
1939	0.37	0.73	0.32	0.46	0.41	0.84	0.94	1.96	2.80	1.36	4.08	1.11	15.38	51
1940	1.09	0.01	0.42	0.46	0.40	0.86	3.19	0.73	1.64	1.58	1.22	1.77	13.37	59
1941	1.20	0.33	0.46	0.18	0.16	0.91	4.31	1.93	4.11	2.50	3.39	1.78	21.26	16
1942	2.29	0.35	0.51	0.13	0.44	1.14	3.65	2.53	4.08	1.94	2.39	1.97	21.42	13
1943	1.72	0.55	0.43	0.64	0.47	1.18	3.43	2.97	3.92	1.85	1.02	0.36	18.54	30
1944	1.17	0.28	0.20	1.27	0.45	1.04	1.20	2.86	3.43	3.06	0.64	0.36	15.96	42
1945	0.63	0.97	0.53	0.63	0.57	1.44	0.88	2.82	3.14	1.91	2.88	2.09	18.49	31
1946	0.08	0.18	0.51	0.27	0.45	1.35	1.25	6.90	3.37	1.96	2.30	3.10	21.72	9
1947	2.05	0.26	0.59	0.66	0.16	0.79	1.85	2.48	7.21	2.14	2.04	0.27	20.50	20
1948	1.09	1.35	0.14	0.45	0.76	0.40	2.08	1.13	3.23	2.39	1.87	0.59	15.48	49
1949	0.73	0.55	0.39	1.21	0.12	0.65	1.71	2.64	4.23	1.05	1.22	1.33	15.83	44
1950	0.79	0.10	0.50	0.48	0.09	1.57	1.45	1.57	1.11	1.93	1.20	2.27	13.06	60
1951	0.54	0.12	0.19	0.07	0.26	0.25	1.16	2.10	5.26	2.23	0.95	2.18	15.31	53
1952	1.29	0.31	0.69	0.01	0.35	1.18	0.11	4.14	3.29	2.02	1.46	0.11	14.96	55
1953	0.09	0.68	0.00	1.09	1.19	1.59	1.72	0.97	2.48	2.21	3.42	0.13	15.57	47
1954	0.57	1.11	0.03	0.04	0.35	0.81	0.08	2.25	2.19	1.39	1.07	0.53	10.42	68
1955	2.23	0.19	0.11	0.66	0.39	1.05	0.43	3.55	2.60	2.79	2.96	1.64	18.60	29
1956	0.31	0.79	0.71	0.71	0.33	0.41	2.38	4.21	1.03	2.41	2.50	0.07	15.86	43
1957	0.51	0.95	0.48	0.57	0.25	1.48	1.98	5.63	4.74	1.58	0.90	0.30	19.37	26
1958	0.79	0.52	0.38	0.10	0.76	0.50	2.34	0.70	4.04	4.68	0.78	0.09	15.68	45
1959	0.32	0.57	0.38	0.35	0.87	1.15	1.39	2.94	4.77	1.78	0.49	2.18	17.19	35
1960	0.28	1.04	0.11	0.26	0.75	0.37	1.38	1.68	2.56	0.94	0.89	1.06	11.32	65
1961	0.05	0.59	0.60	0.02	0.43	1.02	1.25	1.71	1.46	2.90	1.01	1.58	12.62	62
1962	0.91	0.26	0.31	0.54	1.03	0.46	0.59	7.05	4.41	4.09	0.90	1.14	21.69	10
1963	0.85	0.15	0.24	0.72	0.50	1.02	3.94	2.82	4.87	2.11	1.58	2.48	21.28	15
1964	0.82	0.10	0.51	0.37	0.75	0.78	1.50	3.49	5.30	1.21	1.93	0.66	17.42	33
1965	0.12	0.33	1.63	0.79	0.29	0.62	1.37	7.22	4.99	3.82	1.47	1.64	24.29	2
1966	0.09	0.30	0.22	0.20	0.72	0.50	3.59	0.05	1.11	4.01	3.19	1.47	15.45	50
1967	1.01	0.64	0.93	0.39	0.56	0.77	2.21	2.72	5.58	1.70	2.07	2.04	20.62	19
1968	0.48	0.32	0.68	0.52	0.26	0.54	1.11	2.40	4.88	3.18	3.00	1.37	18.74	27
1969	0.17	0.57	0.69	0.39	1.13	0.47	2.14	2.50	3.90	5.28	1.50	0.79	19.53	25
1970	1.02	0.55	0.39	0.48	0.23	1.31	2.56	2.52	2.54	2.15	1.50	1.11	16.36	40
1971	0.98	0.62	0.67	0.98	0.83	1.34	4.45	4.11	2.96	1.35	0.72	2.52	21.53	12
1972	1.82	0.84	0.35	0.97	0.36	0.57	1.60	2.71	6.45	2.84	3.24	0.73	22.48	8
1973	0.87	0.31	0.38	0.11	0.31	2.22	3.37	1.22	2.85	3.25	2.12	2.77	19.78	24
1974	0.60	0.87	0.86	0.56	0.23	0.20	1.21	1.46	0.75	2.99	2.30	0.85	12.88	61
1975	2.00	0.31	0.36	0.89	0.51	1.49	2.85	2.55	4.43	0.76	0.52	0.12	16.79	38
1976	0.74	0.42	0.85	0.39	1.34	0.47	2.68	3.15	5.25	2.92	1.68	0.79	20.68	18
1977	0.26	0.79	0.39	0.88	0.51	1.33	1.75	1.74	2.57	3.47	3.28	1.52	18.49	32
1978	0.99	0.88	0.81	0.36	0.94	0.31	2.35	7.08	1.62	3.76	1.79	0.71	21.60	11
1979	0.57	0.76	0.92	0.57	0.65	0.31	0.93	1.80	3.55	6.14	3.43	0.22	19.85	22
1980	0.56	0.49	0.31	0.39	0.48	1.04	1.27	2.85	2.34	2.42	2.41	0.66	15.22	54
1981	1.54	0.41	0.75	0.10	0.18	0.42	0.77	5.04	0.90	4.34	1.86	0.55	16.86	37
1982	1.79	0.14	0.85	0.76	0.81	1.10	0.96	4.57	3.91	3.37	2.31	2.58	23.15	6
1983	1.48	0.53	0.52	0.47	0.14	1.25	0.99	2.12	2.45	1.28	3.78	0.56	15.57	48
1984	2.63	1.27	0.81	0.09	0.17	0.43	2.65	1.64	4.10	3.98	1.67	0.95	20.39	21
1985	0.71	0.76	0.44	0.29	0.09	1.27	0.87	1.11	1.37	2.06	0.67	2.17	11.81	64
1986	0.86	1.66	0.68	0.18	1.20	0.70	3.41	1.79	5.68	1.36	1.51	4.63	23.66	5
1987	1.93	1.10	0.01	0.13	1.83	1.31	0.23	4.13	0.82	1.36	1.53	0.95	15.33	52
1988	0.61	0.43	0.29	0.25	0.43	0.51	0.73	2.14	1.60	1.23	1.40	0.50	10.12	57
1989	0.34	0.81	0.40	0.18	0.66	1.01	2.09	2.45	1.68	1.50	1.82	3.97	16.91	36
1990	1.27	0.66	0.74	0.03	0.67	1.35	2.69	2.80	1.31	3.14	1.38	1.30	17.34	34
1991	0.95	0.69	0.93	0.59	0.73	1.17	2.19	4.64	3.62	1.08	1.91	0.23	18.73	28
1992	0.77	0.65	0.08	0.09	0.29	1.46	1.37	2.73	3.61	3.58	1.52	0.37	16.52	39
1993	0.31	0.65	1.09	0.66	1.28	0.50	1.56	3.67	7.27	4.29	2.20	1.14	24.62	1
1994	1.50	0.52	0.77	0.79	1.06	0.66	2.01	1.85	1.42	1.72	1.52	0.26	14.08	56
1995	4.09	1.03	0.53	2.16	0.96	0.68	0.90	2.70	2.97	0.92	3.46	3.82	24.22	3
1996	2.32	1.93	0.64	1.06	0.29	1.69	2.99	4.61	1.36	1.50	3.82	1.61	23.82	4
1997	2.46	0.62	1.39	0.57	0.64	0.40	2.52	2.38	2.00	4.82	1.48	2.14	21.42	14
1998	1.42	0.28	0.65	0.65	0.85	1.73	0.81	2.93	5.40	3.30	3.31	1.79	23.12	7
Mean 1961-90	0.94	0.60	0.59	0.44	0.61	0.88	1.95	2.99	3.22	2.82	1.94	1.45	18.41	

Measured (shaded) and estimated precipitation, in inches, for site 13, Dumont 2ENE (392409)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	0.81	0.79	1.55	0.96	0.50	3.17	1.19	0.79	1.18	1.28	1.42	0.04	13.68	66
1932	0.60	1.06	0.32	2.15	0.00	1.36	3.91	4.38	2.71	1.70	0.79	0.12	19.10	59
1933	2.30	0.60	0.45	1.60	0.70	1.20	3.20	4.00	0.80	0.59	1.17	0.06	16.67	62
1934	0.30	0.36	0.85	1.30	0.46	1.20	0.88	0.42	3.33	0.29	1.45	1.24	12.08	67
1935	0.55	0.55	0.93	0.06	1.35	1.86	1.62	1.82	1.15	3.07	0.70	0.18	13.84	65
1936	0.33	1.00	0.58	1.12	0.46	1.10	0.83	0.24	0.94	1.12	1.61	0.37	9.70	68
1937	0.77	0.30	0.18	0.37	0.31	0.87	0.23	2.68	3.39	4.69	1.10	1.32	16.21	63
1938	0.32	1.12	1.72	3.12	0.26	0.89	3.23	4.10	1.87	1.72	0.58	0.78	19.71	57
1939	0.14	1.41	1.33	1.56	1.03	0.80	3.65	1.89	3.21	0.85	3.06	0.80	19.73	56
1940	1.54	0.02	0.76	0.50	1.09	1.43	3.79	1.54	2.81	2.41	3.83	1.48	21.20	49
1941	0.99	0.72	0.56	0.12	0.08	1.64	5.87	3.28	7.57	2.63	1.78	1.64	26.88	22
1942	1.93	0.69	0.84	0.62	0.74	1.97	3.18	4.96	4.60	2.06	1.89	2.43	25.91	29
1943	2.57	1.63	1.45	1.87	1.25	1.42	3.16	2.85	5.30	1.78	1.03	0.82	25.13	34
1944	1.79	2.42	0.40	3.14	0.89	2.05	1.86	2.20	4.47	2.06	0.65	0.70	22.63	44
1945	1.08	3.17	0.92	1.55	1.07	2.52	1.99	3.22	4.82	1.09	2.50	3.58	27.51	20
1946	0.42	0.42	0.90	0.92	1.23	2.50	2.62	11.69	4.90	2.19	0.92	5.60	34.31	3
1947	2.95	0.42	1.34	1.47	1.58	1.74	2.72	1.44	8.39	2.62	1.00	0.63	26.30	25
1948	1.57	1.75	0.19	2.64	1.14	0.35	2.87	1.71	5.94	4.39	2.34	0.46	25.35	32
1949	0.83	4.12	0.68	3.43	0.43	0.63	2.59	3.43	2.53	1.46	0.83	1.03	21.99	46
1950	1.13	0.99	1.15	0.59	0.57	5.23	2.63	2.20	2.18	3.21	2.82	3.56	26.26	26
1951	0.66	1.40	0.55	0.51	0.38	1.61	1.64	3.08	5.00	2.92	2.97	2.45	23.17	41
1952	1.69	1.76	3.36	0.21	0.68	1.62	0.73	9.09	1.72	2.55	1.40	0.65	25.46	31
1953	0.13	1.20	0.67	2.36	2.78	1.57	3.94	4.47	3.72	2.09	4.52	0.40	27.85	19
1954	0.44	1.20	1.62	0.35	1.56	3.11	0.63	3.89	2.16	1.47	2.29	1.37	20.09	55
1955	1.88	1.09	1.71	2.22	1.22	1.58	4.20	3.28	4.30	2.75	1.45	2.79	28.47	14
1956	1.42	1.27	1.10	0.68	0.41	1.76	1.64	4.06	1.95	2.52	3.88	0.70	21.39	48
1957	0.90	3.66	0.74	0.81	0.24	1.65	1.98	5.91	4.43	3.83	1.84	0.85	26.84	23
1958	0.80	1.51	0.76	0.98	1.53	0.55	3.77	1.88	3.72	4.15	2.23	0.23	22.11	45
1959	1.75	1.47	0.92	1.32	1.85	1.71	1.85	3.14	4.30	0.67	0.13	2.08	21.19	50
1960	0.91	3.03	1.07	0.47	1.66	1.64	2.07	1.78	6.72	1.64	3.91	1.54	26.44	24
1961	0.30	0.85	2.06	0.30	1.01	0.66	2.65	1.07	1.66	3.21	0.56	2.69	17.02	61
1962	0.91	0.62	1.60	1.49	0.96	0.91	2.23	10.62	7.50	4.30	0.94	2.06	34.14	4
1963	1.64	0.60	1.15	2.03	3.35	2.11	5.58	2.54	6.32	1.64	0.17	2.08	29.21	12
1964	0.84	0.25	1.56	1.23	3.68	1.66	2.91	5.29	9.25	0.67	5.72	0.76	33.82	5
1965	0.54	0.99	2.02	2.35	0.84	0.95	2.75	9.91	4.85	2.33	1.58	2.89	32.00	7
1966	0.00	0.68	0.42	0.48	1.09	2.46	4.02	0.48	1.35	3.69	2.62	1.87	19.16	58
1967	1.74	0.86	1.09	1.51	2.72	0.79	4.01	3.46	6.71	1.97	0.87	3.92	29.65	10
1968	1.39	0.99	2.22	0.73	1.03	0.60	2.10	3.56	5.71	3.15	3.73	2.78	27.99	17
1969	0.54	2.03	1.41	1.25	0.76	1.45	4.95	2.86	4.16	4.10	1.68	0.08	25.27	33
1970	1.67	1.31	1.81	1.25	0.87	2.25	3.53	5.19	3.89	2.47	1.47	1.51	27.22	21
1971	1.80	2.06	0.84	1.68	1.60	2.28	3.52	5.50	2.50	0.95	1.95	3.70	28.38	15
1972	2.95	1.28	0.40	0.95	0.72	1.36	2.82	6.80	5.46	3.15	4.00	0.43	30.32	9
1973	1.03	0.58	1.05	0.25	0.50	3.74	4.74	3.07	3.52	1.90	1.73	2.21	24.32	37
1974	1.28	0.76	1.63	0.44	0.84	0.76	2.78	1.74	1.80	3.81	3.62	1.14	20.60	53
1975	1.41	1.00	1.29	2.09	0.95	2.77	3.61	2.47	5.42	1.13	0.83	0.36	23.33	40
1976	1.16	0.92	1.53	1.14	1.50	0.99	3.20	3.84	8.05	3.45	0.97	1.52	28.27	16
1977	0.59	1.21	1.10	1.82	2.00	3.91	2.33	1.91	2.53	1.70	2.75	1.97	23.82	39
1978	1.65	1.32	1.05	0.39	1.32	0.52	4.33	5.80	2.71	4.56	1.95	0.45	26.05	27
1979	0.96	1.18	1.32	0.73	1.00	0.81	1.49	2.54	4.12	4.67	3.61	0.43	22.86	43
1980	1.29	0.91	0.47	0.61	0.51	1.10	1.97	3.44	1.91	1.45	3.38	1.18	18.22	60
1981	1.76	0.85	1.01	0.27	0.27	0.19	0.53	5.65	2.61	5.14	1.04	1.85	21.17	51
1982	1.30	0.86	0.72	1.10	0.87	2.39	2.01	8.21	3.79	3.66	2.42	2.12	29.45	11
1983	6.15	0.73	1.34	1.30	0.30	2.11	2.23	3.32	1.37	1.85	4.35	0.65	25.70	30
1984	2.25	1.98	0.79	0.84	0.80	2.03	5.19	1.86	4.94	2.04	2.36	0.88	25.96	28
1985	0.97	1.47	0.70	0.77	0.58	1.90	1.33	1.96	2.23	0.88	1.09	2.24	16.12	64
1986	0.87	1.61	2.39	1.27	1.46	1.09	4.98	2.11	4.51	2.23	0.85	4.49	27.86	18
1987	2.65	1.73	0.13	0.90	1.41	3.04	0.77	3.73	0.97	1.07	3.51	1.22	21.13	52
1988	0.82	0.56	0.38	0.33	0.43	0.66	0.97	2.83	2.48	1.81	2.13	0.67	14.07	54
1989	1.44	1.42	1.34	0.31	0.92	1.18	4.14	2.93	2.61	2.18	2.83	1.62	22.92	42
1990	1.19	1.47	2.31	0.80	0.91	1.68	2.36	2.43	0.91	3.53	2.22	1.84	21.65	47
1991	0.87	0.61	1.16	1.17	1.98	1.25	3.83	6.11	2.79	2.70	0.73	1.22	24.42	36
1992	1.76	1.63	0.25	0.65	0.72	2.19	3.24	3.27	4.40	2.17	2.97	1.35	24.60	35
1993	0.83	2.31	1.27	1.07	0.93	1.01	3.32	4.07	6.47	4.06	2.29	1.43	29.06	13
1994	2.21	1.98	2.61	2.66	1.25	1.50	3.72	1.91	1.39	2.96	1.02	0.69	23.90	38
1995	7.63	1.97	0.22	0.54	1.01	1.57	3.01	9.79	4.00	2.78	0.71	1.73	34.96	2
1996	4.14	1.40	0.54	1.94	0.56	3.48	2.77	5.50	1.60	2.07	3.40	3.03	30.43	8
1997	5.00	0.96	2.18	1.17	1.94	1.24	4.78	4.01	2.77	7.61	4.88	0.87	37.41	1
1998	1.52	1.08	1.57	0.73	2.68	1.98	1.47	1.63	8.29	5.12	4.61	2.39	33.07	6
Mean 1961-90	1.44	1.11	1.25	1.04	1.21	1.70	3.00	3.96	3.87	2.59	2.21	1.76	25.14	

Measured (shaded) and estimated precipitation, in inches, for site 14, Edgemont (392557)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.35	0.69	0.00	0.30	0.34	0.80	0.43	1.61	1.58	1.31	1.47	0.77	12.65	56
1932	1.60	0.44	0.64	0.61	0.86	2.58	3.60	3.06	1.39	1.94	2.09	0.14	18.95	15
1933	0.94	0.08	0.28	0.07	0.51	1.67	3.66	4.35	0.89	1.24	5.69	0.33	19.71	9
1934	0.09	0.32	0.29	0.33	0.53	1.17	0.86	0.33	3.01	2.45	1.79	1.06	12.23	59
1935	1.09	0.21	0.23	0.14	0.41	2.13	3.44	7.80	1.93	1.08	1.37	0.70	20.53	5
1936	0.48	0.46	0.29	0.56	1.24	0.82	0.84	1.03	1.80	0.45	1.07	1.14	10.18	67
1937	0.58	0.96	0.48	0.55	0.42	1.84	0.67	1.98	4.90	1.98	0.28	0.57	15.21	40
1938	0.89	0.42	0.30	0.47	0.09	1.74	1.93	3.52	1.50	1.89	0.71	2.95	16.41	32
1939	0.25	0.71	0.20	0.40	0.55	0.73	0.55	2.32	2.10	0.45	2.80	0.87	11.93	64
1940	1.00	0.00	0.19	0.43	0.54	0.84	5.10	0.64	1.63	1.48	0.74	1.74	14.33	43
1941	0.66	0.37	0.20	0.24	0.14	0.85	5.38	0.83	4.43	3.06	3.20	1.12	20.48	6
1942	0.80	0.33	0.68	0.03	0.51	1.08	3.93	4.97	3.74	3.43	0.61	1.72	21.83	3
1943	1.81	0.44	0.17	0.37	0.21	0.79	2.74	5.24	3.80	1.94	0.62	0.39	18.52	21
1944	1.41	0.01	0.20	0.85	0.59	0.39	2.13	3.44	2.88	4.50	1.58	0.21	18.19	24
1945	0.40	0.84	0.62	0.40	0.55	1.50	0.55	1.47	3.25	1.82	2.40	1.80	15.60	36
1946	0.14	0.04	0.67	0.29	0.32	0.96	1.02	6.71	2.99	1.22	1.07	3.55	18.98	14
1947	1.02	0.14	0.46	0.29	0.07	0.30	1.15	3.12	8.75	2.38	0.71	0.85	19.24	11
1948	0.93	1.20	0.22	0.03	0.66	0.46	1.88	1.75	4.03	2.46	1.48	0.68	15.78	34
1949	1.05	0.77	0.34	1.50	0.03	0.35	1.61	2.91	1.18	1.00	1.35	1.00	13.09	51
1950	0.75	0.11	0.27	0.39	0.05	1.63	1.55	1.65	1.41	1.27	1.45	1.64	12.17	61
1951	0.38	0.17	0.27	0.25	0.12	0.55	0.64	2.44	3.51	2.85	0.64	0.73	12.55	57
1952	1.11	0.15	0.37	0.00	0.46	1.03	0.13	3.21	3.34	0.91	1.34	0.22	12.27	58
1953	0.30	0.65	0.17	0.82	1.43	0.69	1.96	1.01	2.27	1.35	0.89	0.67	12.21	60
1954	0.14	0.28	0.22	0.16	0.53	1.32	0.51	3.55	2.09	1.35	1.00	0.53	11.68	65
1955	1.80	0.22	0.19	0.25	1.05	1.22	1.24	3.19	2.31	1.72	1.71	2.85	17.75	27
1956	0.26	0.81	0.72	0.17	0.33	0.47	1.53	2.99	1.89	1.25	2.03	0.27	12.72	54
1957	0.55	0.96	0.58	0.43	0.16	1.45	1.85	5.76	2.80	1.81	0.65	1.28	18.28	23
1958	1.38	0.51	0.21	0.06	0.62	0.93	2.46	1.09	2.76	6.21	0.33	0.05	16.61	31
1959	0.11	0.24	0.27	0.48	0.27	0.63	0.70	2.76	3.43	1.83	0.36	3.01	14.09	46
1960	0.26	0.52	0.20	0.37	0.55	0.32	0.96	0.87	1.98	0.73	0.73	0.25	7.74	68
1961	0.05	0.87	0.73	0.06	0.19	0.88	1.13	2.75	1.19	3.40	0.48	1.19	12.92	52
1962	0.52	0.25	0.32	0.19	0.81	0.72	0.25	5.58	4.30	4.56	0.44	0.50	18.44	22
1963	1.69	0.19	0.26	0.58	0.31	1.65	2.69	2.02	5.53	3.28	1.03	2.62	21.85	2
1964	0.92	0.01	0.25	0.21	0.76	0.84	2.09	2.90	4.48	0.64	0.71	0.25	14.06	47
1965	0.49	0.38	0.60	0.52	0.45	0.82	1.19	5.35	3.17	2.63	1.14	2.41	19.15	12
1966	0.28	0.21	0.32	0.38	0.77	0.42	2.41	0.26	0.91	3.69	2.70	1.71	14.06	48
1967	1.45	0.58	0.42	0.42	0.14	0.88	2.44	3.32	7.26	1.01	0.30	0.69	18.91	16
1968	0.45	0.26	0.82	0.29	0.20	0.66	1.37	2.96	5.36	2.37	2.64	0.81	18.19	25
1969	0.39	0.32	0.51	0.37	0.81	0.25	0.94	1.27	2.15	4.22	0.23	0.58	12.04	62
1970	1.24	0.27	0.21	0.21	0.24	0.99	2.14	1.52	2.37	2.17	1.06	1.71	14.13	45
1971	1.25	0.45	0.26	0.47	0.80	0.42	3.03	5.38	2.49	1.40	0.31	2.53	18.79	17
1972	1.39	0.55	0.26	0.32	0.17	0.64	1.49	2.46	4.19	1.73	1.48	0.66	15.34	38
1973	1.32	0.23	0.19	0.25	0.42	2.41	3.18	1.55	1.20	3.05	1.28	2.93	18.01	26
1974	1.45	0.65	0.61	0.58	0.12	0.26	2.46	0.84	1.11	1.97	1.42	1.31	12.78	53
1975	2.03	0.23	0.05	0.66	0.52	1.23	1.34	2.02	4.42	0.95	0.45	0.11	14.01	49
1976	0.45	0.33	0.98	0.50	0.60	0.57	2.92	2.63	3.03	4.13	1.40	1.02	18.56	20
1977	0.45	0.19	0.15	0.43	0.07	1.35	2.41	2.36	2.19	3.00	2.71	2.11	17.42	29
1978	0.74	1.14	0.51	0.48	0.65	0.26	1.63	4.25	1.37	3.36	2.88	0.37	17.64	28
1979	0.48	0.45	0.58	0.44	0.41	0.30	1.03	1.29	2.09	2.07	3.83	0.25	13.22	50
1980	0.92	0.28	0.00	0.53	0.42	2.38	2.16	3.23	2.09	0.97	1.85	0.39	15.22	39
1981	1.01	0.60	0.70	0.08	0.27	0.66	0.74	3.22	1.73	2.54	1.00	0.16	12.71	55
1982	2.92	0.04	0.15	0.47	0.05	1.34	1.00	4.18	4.45	2.20	3.29	2.42	22.51	1
1983	1.27	1.30	0.28	0.29	0.06	0.89	0.75	1.95	4.25	1.05	3.31	0.28	15.68	35
1984	1.60	1.96	0.93	0.13	0.28	0.77	3.29	3.26	1.88	2.40	1.62	0.47	18.59	19
1985	0.63	0.57	0.35	0.39	0.35	0.77	3.15	1.05	1.03	1.20	0.50	1.99	11.98	63
1986	0.68	1.76	0.44	0.07	1.06	0.52	3.27	1.07	4.87	1.63	1.19	3.52	20.08	8
1987	3.88	0.86	0.09	0.13	1.74	1.35	0.69	2.97	0.59	1.71	1.04	0.76	15.81	33
1988	0.42	0.71	0.64	0.24	0.21	1.17	0.63	2.54	2.88	2.18	1.87	0.84	14.33	44
1989	0.09	0.52	0.32	0.00	0.60	1.14	1.67	1.41	1.20	2.21	1.46	3.94	14.56	42
1990	1.07	0.23	0.59	0.05	0.40	1.17	2.31	4.45	1.22	3.84	0.86	2.48	18.67	18
1991	0.89	1.12	0.36	0.41	0.60	0.35	1.58	4.91	3.16	0.36	1.52	0.29	15.55	37
1992	0.95	0.82	0.04	0.32	0.51	1.07	0.66	2.49	2.14	3.93	1.72	0.10	14.75	41
1993	0.26	0.55	1.20	0.67	1.35	1.08	1.71	1.98	6.14	2.67	1.82	1.00	20.43	7
1994	1.48	0.72	0.51	0.70	0.26	0.73	1.62	1.47	1.22	2.04	0.45	0.32	11.52	66
1995	2.19	0.30	0.89	0.34	0.70	0.63	1.36	4.42	3.09	1.07	0.55	3.61	19.15	13
1996	1.43	0.81	0.13	0.59	0.07	0.85	3.00	3.68	1.86	0.55	2.72	1.37	17.06	30
1997	1.79	0.50	0.95	0.62	0.48	0.32	2.52	2.84	3.17	4.61	1.05	0.73	19.58	10
1998	0.70	0.43	0.26	0.52	0.82	1.85	0.68	3.26	4.79	3.05	3.71	1.66	21.73	4
Mean 1961-90	1.05	0.55	0.42	0.32	0.46	0.92	1.86	2.67	2.83	2.39	1.48	1.37	16.32	

Measured (shaded) and estimated precipitation, in inches, for site 15, Edgemont 10N (392559)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.37	0.78	0.00	0.34	0.33	0.74	0.68	1.86	1.55	1.37	2.09	0.70	13.81	55
1932	1.63	0.57	0.72	0.74	0.94	2.62	3.34	3.16	2.34	2.34	2.33	0.11	20.84	10
1933	1.07	0.07	0.32	0.21	0.51	1.55	3.69	5.20	0.83	1.63	5.88	0.44	21.40	8
1934	0.09	0.32	0.28	0.29	0.51	1.40	0.70	0.27	2.56	2.06	1.40	0.95	10.83	66
1935	1.51	0.20	0.37	0.15	0.47	1.70	2.59	7.95	2.34	0.79	1.03	1.05	20.15	15
1936	0.45	0.48	0.25	0.49	1.01	0.79	1.24	0.80	2.76	0.31	1.38	1.01	10.97	65
1937	0.65	1.06	0.50	0.53	0.42	1.76	0.58	1.80	4.77	2.35	0.33	0.59	15.34	41
1938	0.70	0.38	0.42	0.38	0.11	1.39	1.82	4.31	1.66	2.41	0.89	2.61	17.08	32
1939	0.35	0.68	0.16	0.18	0.47	0.90	0.54	2.16	2.11	0.67	3.34	1.13	12.69	58
1940	1.04	0.00	0.24	0.44	0.48	0.80	4.51	0.70	1.26	1.97	1.13	1.74	14.31	51
1941	0.88	0.32	0.26	0.19	0.12	0.88	5.58	1.14	3.84	2.35	4.07	1.20	20.83	11
1942	1.59	0.28	0.58	0.05	0.49	1.13	3.81	3.79	4.01	3.07	1.36	1.95	22.11	4
1943	1.83	0.32	0.21	0.39	0.30	0.88	3.62	4.22	4.32	1.93	0.75	0.43	19.20	21
1944	1.15	0.00	0.23	1.20	0.65	0.58	2.06	3.52	3.03	4.39	1.28	0.23	18.32	28
1945	0.47	0.91	0.64	0.45	0.61	1.69	0.70	1.71	3.37	1.93	2.21	1.65	16.34	35
1946	0.09	0.08	0.51	0.25	0.37	1.09	0.93	7.51	2.84	1.73	1.98	3.13	20.51	12
1947	1.37	0.18	0.50	0.45	0.04	0.39	1.42	3.06	8.85	3.14	1.82	0.35	21.57	7
1948	1.02	1.13	0.20	0.05	0.68	0.50	1.93	1.63	3.89	2.41	2.11	0.53	16.08	37
1949	1.11	0.53	0.28	0.65	0.06	0.26	1.76	2.49	1.52	1.33	1.25	1.10	12.34	60
1950	0.75	0.07	0.30	0.20	0.03	1.40	1.59	1.13	1.01	1.41	1.68	1.89	11.46	64
1951	0.39	0.14	0.23	0.16	0.10	0.46	0.67	2.10	4.18	4.91	2.19	2.37	17.90	29
1952	1.06	0.07	0.34	0.00	0.38	1.08	0.14	3.72	5.01	1.05	1.18	0.15	14.18	52
1953	0.29	0.73	0.12	1.01	1.38	0.53	1.82	0.87	1.96	1.28	0.95	0.67	11.61	62
1954	0.24	0.49	0.22	0.12	0.56	1.19	0.38	3.49	1.99	1.42	0.05	0.60	10.75	67
1955	1.97	0.20	0.25	0.24	0.89	1.30	0.92	2.69	2.05	2.43	1.14	2.14	16.22	36
1956	0.38	0.87	0.88	0.09	0.41	0.33	1.73	4.27	1.54	1.21	1.40	0.05	13.16	56
1957	0.75	0.51	0.48	0.57	0.20	1.60	1.65	5.27	4.35	1.47	0.53	1.07	18.45	26
1958	1.58	0.35	0.15	0.09	0.74	1.01	2.75	0.96	3.07	5.97	0.30	0.05	17.02	33
1959	0.16	0.30	0.27	0.43	0.32	0.73	1.06	2.75	4.23	1.94	0.45	2.87	15.51	39
1960	0.19	0.65	0.18	0.31	0.55	0.25	0.87	1.23	2.54	0.62	0.83	0.40	8.62	68
1961	0.05	0.76	0.61	0.03	0.29	1.12	1.06	2.47	1.47	3.28	0.55	1.42	13.11	57
1962	0.68	0.28	0.24	0.23	0.89	0.75	0.28	6.00	4.44	5.02	0.42	0.78	20.01	16
1963	1.80	0.17	0.23	0.49	0.30	1.43	3.11	2.45	5.99	3.17	1.43	2.90	23.47	1
1964	0.91	0.03	0.26	0.23	0.43	1.02	1.59	3.25	4.39	1.05	0.86	0.34	14.36	50
1965	0.50	0.39	0.82	0.46	0.40	0.83	1.16	5.88	4.05	2.63	1.34	1.99	20.45	13
1966	0.26	0.23	0.29	0.26	0.71	0.33	3.16	0.18	0.95	3.79	2.77	1.86	14.79	45
1967	0.95	0.57	0.62	0.39	0.19	0.93	2.05	3.27	7.15	1.05	1.02	0.83	19.02	23
1968	0.39	0.27	0.76	0.40	0.17	0.78	1.11	2.77	5.69	3.36	2.44	1.03	19.17	22
1969	0.28	0.39	0.61	0.36	0.97	0.26	0.93	1.83	2.42	4.97	0.75	0.79	14.56	46
1970	1.22	0.21	0.25	0.19	0.27	1.05	2.42	1.71	2.69	2.34	1.28	1.75	15.38	40
1971	1.15	0.48	0.43	0.78	0.81	0.96	3.44	4.61	2.56	1.26	0.45	2.66	19.59	18
1972	1.40	0.65	0.39	0.70	0.15	0.67	1.47	2.52	4.50	1.96	1.78	0.65	16.84	34
1973	1.25	0.23	0.23	0.12	0.40	2.00	3.23	1.48	1.44	3.32	1.95	2.71	18.36	27
1974	1.35	0.82	0.62	0.58	0.08	0.23	1.93	1.14	1.17	2.21	1.34	1.13	12.60	59
1975	2.19	0.27	0.06	0.74	0.55	1.29	1.63	2.19	4.67	1.04	0.48	0.12	15.23	42
1976	0.50	0.37	0.89	0.51	0.90	0.65	3.34	2.45	3.62	3.80	1.59	0.77	19.39	19
1977	0.42	0.23	0.18	0.45	0.10	1.32	2.23	2.32	2.38	3.84	3.03	2.12	18.62	25
1978	0.82	0.96	0.62	0.40	0.75	0.28	1.69	5.09	1.44	3.42	2.94	0.49	18.90	24
1979	0.43	0.50	0.60	0.48	0.40	0.30	0.91	1.43	2.30	3.09	3.72	0.25	14.41	48
1980	0.85	0.24	0.04	0.42	0.42	1.79	1.67	2.74	2.31	1.52	2.00	0.40	14.40	49
1981	1.33	0.52	0.69	0.07	0.22	0.54	0.75	4.26	1.44	3.32	1.08	0.21	14.43	47
1982	2.44	0.08	0.45	0.52	0.17	1.23	1.02	5.01	4.62	2.30	2.65	2.53	23.02	2
1983	1.19	1.09	0.33	0.28	0.05	1.06	0.74	2.17	3.69	1.62	2.60	0.36	15.18	43
1984	1.78	1.58	0.88	0.16	0.27	0.84	3.31	2.72	2.80	2.87	1.57	0.51	19.29	20
1985	0.78	0.56	0.33	0.37	0.26	0.78	2.21	1.01	1.20	1.72	0.49	2.31	12.02	61
1986	0.73	1.66	0.32	0.11	0.95	0.63	3.22	1.26	4.96	1.57	1.38	3.60	20.39	14
1987	2.95	0.88	0.08	0.10	1.73	1.53	0.47	3.67	0.79	1.47	1.28	0.79	15.74	38
1988	0.48	0.66	0.60	0.25	0.21	0.84	0.68	2.65	2.57	2.06	2.19	0.81	14.00	54
1989	0.23	0.66	0.31	0.01	0.57	1.01	1.53	1.51	1.26	2.40	1.53	4.01	15.03	44
1990	1.07	0.37	0.55	0.03	0.48	1.25	2.42	4.16	1.38	3.22	0.93	1.83	17.69	30
1991	0.89	0.86	0.39	0.43	0.73	0.46	1.86	5.36	3.30	1.27	1.37	0.32	17.24	31
1992	0.90	0.63	0.06	0.16	0.49	1.81	0.81	1.95	2.64	3.37	1.12	0.21	14.15	53
1993	0.36	0.45	1.28	0.63	1.28	1.08	1.77	1.99	5.28	2.98	2.97	0.89	20.96	9
1994	1.56	0.69	0.57	0.63	0.64	0.65	1.84	1.51	1.65	0.78	0.73	0.36	11.61	63
1995	3.36	0.64	0.74	0.22	0.80	0.86	1.63	4.38	4.32	1.31	1.25	2.27	21.78	6
1996	1.84	0.62	0.20	0.70	0.14	0.95	3.25	4.56	1.61	0.80	3.61	1.51	19.79	17
1997	2.44	0.52	0.91	0.63	0.63	0.39	2.84	2.80	3.10	5.14	1.22	1.33	21.95	5
1998	1.26	0.26	0.21	0.61	0.77	1.86	0.68	3.40	5.18	3.68	3.48	1.61	23.00	3
Mean 1961-90	1.01	0.54	0.44	0.34	0.47	0.92	1.83	2.81	3.01	2.62	1.59	1.40	16.98	

Measured (shaded) and estimated precipitation, in inches, for site 16, Edgemont 23NNW (392565)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.86	0.56	0.03	0.22	0.30	0.84	0.68	1.87	1.54	1.20	2.03	0.42	12.55	60
1932	1.46	0.61	0.44	0.79	0.43	1.23	3.31	2.96	3.56	2.86	2.97	0.34	20.96	11
1933	1.41	0.14	0.32	0.41	0.59	0.92	3.01	5.38	1.06	1.97	4.02	0.49	19.72	20
1934	0.12	0.23	0.19	0.25	0.42	1.18	0.63	0.26	2.77	1.24	1.72	1.03	10.04	68
1935	1.79	0.20	0.54	0.16	0.47	0.92	1.47	5.86	2.17	1.01	0.61	1.06	16.26	36
1936	0.39	0.42	0.12	0.49	0.66	0.67	1.42	0.41	3.37	0.87	1.75	0.55	11.12	65
1937	0.85	0.97	0.30	0.52	0.39	1.20	0.42	1.84	3.04	2.91	0.71	0.53	13.68	56
1938	0.37	0.39	0.79	0.49	0.17	1.15	1.62	4.68	1.58	2.28	1.14	1.56	16.22	37
1939	0.38	0.70	0.24	0.33	0.31	0.85	0.76	2.01	2.67	1.31	3.99	1.14	14.69	54
1940	1.10	0.00	0.36	0.45	0.36	0.82	3.36	0.65	1.47	1.68	1.26	1.78	13.29	57
1941	1.12	0.32	0.44	0.18	0.15	0.91	4.46	1.81	3.72	2.33	3.61	1.62	20.67	14
1942	2.21	0.30	0.52	0.11	0.43	1.10	3.73	2.55	4.04	2.11	2.37	1.94	21.41	6
1943	1.73	0.45	0.31	0.57	0.41	1.15	3.58	3.17	4.00	1.78	0.87	0.35	18.37	27
1944	1.07	0.15	0.23	1.27	0.51	1.04	1.31	2.98	3.42	3.32	0.76	0.33	16.39	33
1945	0.57	0.95	0.53	0.54	0.55	1.44	0.82	2.63	3.11	1.97	2.36	1.93	17.40	30
1946	0.06	0.14	0.42	0.21	0.44	1.25	1.16	6.88	3.20	1.90	2.43	2.92	21.01	10
1947	1.93	0.25	0.52	0.57	0.07	0.65	1.81	2.68	7.51	2.34	2.15	0.22	20.70	13
1948	1.04	1.20	0.13	0.26	0.75	0.39	2.03	1.23	3.18	2.31	2.01	0.47	15.00	49
1949	0.92	0.48	0.41	1.21	0.09	0.55	1.68	3.02	3.58	1.41	1.25	1.21	15.81	43
1950	0.74	0.09	0.49	0.40	0.09	1.51	1.45	1.59	1.30	1.71	1.49	2.23	13.09	59
1951	0.48	0.11	0.18	0.11	0.27	0.32	1.08	1.85	4.97	2.57	1.18	2.22	15.34	46
1952	1.14	0.23	0.54	0.01	0.33	1.12	0.11	4.55	3.44	1.94	1.42	0.15	14.98	50
1953	0.14	0.60	0.04	1.13	1.26	1.33	1.84	0.94	2.47	1.95	2.98	0.22	14.90	51
1954	0.45	0.89	0.06	0.06	0.44	0.88	0.17	2.37	2.18	1.60	1.14	0.57	10.81	66
1955	2.13	0.22	0.20	0.55	0.50	1.10	0.51	3.22	2.55	2.66	2.92	1.69	18.25	28
1956	0.30	0.79	0.78	0.54	0.40	0.46	2.11	3.97	1.10	2.25	2.47	0.09	15.26	47
1957	0.50	0.91	0.49	0.56	0.23	1.43	2.04	5.70	4.50	1.48	0.84	0.43	19.11	23
1958	0.94	0.35	0.22	0.12	0.77	0.63	2.43	0.88	3.89	5.12	0.53	0.06	15.94	41
1959	0.20	0.47	0.33	0.31	0.63	1.00	1.31	2.85	4.53	1.87	0.52	2.28	16.30	35
1960	0.19	0.89	0.11	0.24	0.62	0.30	1.19	1.54	2.42	0.89	0.82	0.90	10.11	67
1961	0.04	0.59	0.57	0.01	0.40	1.05	1.13	1.90	1.44	3.01	0.87	1.48	12.49	61
1962	0.89	0.21	0.22	0.43	0.95	0.50	0.44	6.67	4.32	4.62	0.75	0.95	20.95	12
1963	1.10	0.12	0.19	0.63	0.25	1.06	3.46	2.77	4.79	1.94	1.63	2.46	20.40	16
1964	0.84	0.06	0.39	0.28	0.45	0.79	1.41	3.20	4.67	1.24	1.32	0.58	15.23	48
1965	0.19	0.30	1.46	0.57	0.31	0.65	1.29	6.88	4.79	3.22	1.34	1.67	22.67	3
1966	0.12	0.21	0.23	0.20	0.68	0.40	3.53	0.03	0.99	3.86	3.11	1.46	14.82	52
1967	0.97	0.62	0.83	0.33	0.40	0.76	2.18	2.75	6.07	1.62	1.79	1.55	19.87	19
1968	0.39	0.27	0.59	0.49	0.20	0.62	1.07	2.46	4.92	3.37	2.83	1.24	18.45	26
1969	0.15	0.42	0.65	0.35	1.08	0.37	1.66	2.38	3.43	5.05	1.48	0.63	17.65	29
1970	1.08	0.36	0.30	0.27	0.21	1.12	2.43	2.30	2.44	2.29	1.44	1.14	15.38	44
1971	1.01	0.60	0.62	0.85	0.77	1.26	4.22	4.48	2.86	1.31	0.53	2.55	21.06	9
1972	1.53	0.80	0.31	0.88	0.27	0.59	1.52	2.47	6.45	2.65	2.97	0.67	21.11	8
1973	0.98	0.24	0.30	0.10	0.33	2.12	3.29	1.09	2.26	3.37	2.10	2.67	18.85	25
1974	0.77	0.91	0.76	0.52	0.13	0.19	1.36	1.39	0.75	2.95	1.75	0.88	12.36	62
1975	2.00	0.28	0.22	0.76	0.52	1.30	2.55	2.57	4.40	0.90	0.47	0.11	16.08	38
1976	0.68	0.40	0.79	0.37	1.24	0.48	2.96	2.88	4.65	3.26	1.71	0.74	20.16	17
1977	0.23	0.51	0.28	0.52	0.22	1.23	1.76	1.72	2.48	3.70	3.15	1.59	17.39	31
1978	0.94	0.84	0.77	0.33	0.83	0.27	2.01	6.67	1.54	3.64	2.16	0.65	20.65	15
1979	0.44	0.66	0.74	0.48	0.51	0.30	0.94	1.60	2.87	4.75	3.58	0.20	17.07	32
1980	0.65	0.31	0.16	0.37	0.44	1.28	1.42	2.55	2.32	2.23	2.20	0.59	14.52	55
1981	1.46	0.46	0.75	0.10	0.19	0.46	0.79	4.83	0.99	3.67	1.73	0.49	15.92	42
1982	1.91	0.13	0.78	0.65	0.42	1.15	1.00	4.52	4.21	3.10	2.52	2.57	22.96	1
1983	1.39	0.69	0.47	0.37	0.10	1.20	0.95	1.91	2.93	1.48	3.39	0.50	15.38	45
1984	2.47	1.36	0.86	0.09	0.19	0.60	2.65	1.89	3.69	3.70	1.76	0.80	20.06	18
1985	0.69	0.66	0.43	0.33	0.13	1.17	1.20	1.10	1.29	1.86	0.55	2.23	11.64	64
1986	0.84	1.58	0.51	0.15	1.10	0.71	3.28	1.64	5.63	1.30	1.58	4.10	22.42	4
1987	2.31	1.03	0.03	0.11	1.83	1.32	0.29	3.52	0.84	1.34	1.26	0.89	14.77	53
1988	0.74	0.60	0.40	0.32	0.38	0.62	0.90	2.79	2.18	1.75	1.96	0.54	13.18	58
1989	0.29	0.74	0.30	0.12	0.70	1.03	1.72	2.23	1.48	1.76	1.62	4.07	16.06	39
1990	1.28	0.51	0.72	0.00	0.56	1.21	2.94	2.38	1.35	2.51	1.15	1.36	15.97	40
1991	1.05	0.86	0.69	0.52	0.65	0.78	1.84	6.77	4.03	0.80	1.41	0.22	19.62	21
1992	0.79	0.34	0.03	0.07	0.35	1.76	0.98	1.83	4.21	3.97	1.66	0.33	16.32	34
1993	0.29	0.50	1.35	0.57	1.29	0.67	1.51	2.90	6.63	4.18	1.88	1.00	22.77	2
1994	1.27	0.45	0.42	0.57	0.83	0.70	1.96	1.49	2.39	0.79	0.92	0.17	11.96	63
1995	3.36	0.91	0.55	0.13	0.87	0.93	1.32	3.88	4.85	1.69	1.35	1.79	21.63	5
1996	1.30	0.43	0.14	0.86	0.22	1.40	2.96	4.30	1.20	1.57	3.71	1.41	19.50	22
1997	2.04	0.49	1.11	0.56	0.60	0.29	2.37	1.75	1.89	5.37	0.69	1.82	18.98	24
1998	1.42	0.26	0.40	0.61	0.76	1.93	0.49	2.59	4.69	3.20	3.82	1.24	21.41	7
Mean 1961-90	0.95	0.55	0.52	0.37	0.53	0.86	1.88	2.85	3.10	2.72	1.82	1.38	17.52	

Measured (shaded) and estimated precipitation, in inches, for site 17, Fort Meade (393069)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.25	0.68	0.74	0.54	0.41	1.86	1.05	1.48	0.83	1.39	1.55	0.36	13.14	65
1932	1.30	0.87	0.49	1.18	0.16	1.06	5.12	4.68	4.17	2.73	1.76	0.48	24.00	17
1933	2.43	0.41	0.69	0.63	0.65	2.18	4.00	6.70	1.49	1.47	1.97	0.58	23.20	20
1934	0.35	0.39	0.59	0.97	0.34	1.32	1.40	0.38	4.38	0.70	1.13	1.33	13.28	63
1935	1.66	0.69	0.60	0.09	0.73	1.61	1.65	3.98	2.84	2.89	0.80	0.45	17.99	45
1936	0.45	0.59	0.80	0.96	0.51	1.09	2.22	0.43	1.07	1.26	0.80	0.65	10.83	68
1937	0.98	0.64	0.16	0.41	0.45	1.11	0.56	2.91	4.42	6.59	1.03	1.67	20.93	30
1938	0.22	0.69	1.18	1.44	0.32	0.72	2.53	4.29	2.34	1.79	0.52	1.71	17.75	47
1939	0.16	0.96	0.87	1.05	0.95	0.57	2.63	1.30	2.98	1.28	2.68	0.88	16.31	53
1940	1.21	0.07	0.61	0.41	0.89	1.70	3.84	1.59	3.17	1.56	1.92	1.57	18.54	38
1941	0.78	0.75	0.51	0.18	0.16	1.07	5.74	2.46	8.72	2.13	1.88	2.65	27.03	7
1942	1.46	0.54	0.81	0.37	0.55	1.04	3.80	5.95	4.70	1.46	1.49	2.02	24.19	16
1943	1.95	1.42	0.97	1.23	0.79	1.28	2.05	1.86	5.11	1.39	0.71	0.48	19.24	35
1944	1.55	1.41	0.71	2.45	0.78	1.82	1.95	2.29	5.98	2.18	0.99	0.51	22.62	23
1945	1.15	4.34	1.21	1.19	0.93	2.59	1.58	3.71	5.49	1.38	1.63	3.92	29.12	5
1946	0.66	0.42	0.71	0.79	1.04	2.83	2.92	14.15	5.89	1.41	0.86	5.29	36.97	1
1947	3.18	0.38	0.90	0.98	1.08	1.44	2.35	1.01	9.44	1.34	0.84	0.76	23.70	18
1948	1.91	1.63	0.18	1.48	1.16	0.45	3.06	1.64	5.28	3.62	1.64	0.67	22.72	22
1949	0.91	3.56	0.49	3.60	0.50	0.90	2.43	3.08	2.31	1.01	0.23	0.47	19.49	33
1950	1.67	0.22	0.37	0.39	0.21	1.89	2.98	1.93	1.44	1.45	2.47	3.16	18.18	44
1951	0.54	0.53	0.31	0.00	0.13	0.52	0.55	2.95	4.79	2.34	6.04	1.68	20.38	32
1952	1.59	0.26	1.05	0.24	0.34	0.37	0.12	4.83	1.91	2.94	1.71	0.17	15.53	57
1953	0.06	0.25	0.01	0.63	1.71	0.44	2.91	2.67	4.25	1.80	2.93	0.05	17.71	48
1954	0.06	0.78	0.04	0.14	0.63	2.06	0.40	3.22	2.84	0.69	1.58	0.39	12.83	67
1955	0.82	0.35	0.21	0.11	0.63	0.61	1.41	2.00	2.27	3.08	1.70	3.12	16.31	54
1956	0.39	0.33	1.36	0.44	0.14	0.32	1.19	3.62	0.91	3.80	2.10	1.19	15.79	56
1957	0.61	1.77	0.25	0.30	0.19	0.69	1.82	6.25	4.57	2.97	1.58	0.88	21.88	25
1958	0.80	0.58	0.02	0.23	1.15	0.47	4.26	1.23	3.13	3.29	1.16	0.05	16.37	51
1959	0.69	0.73	0.53	0.54	0.69	0.64	2.06	2.37	1.59	1.14	0.30	2.31	13.59	62
1960	0.75	1.14	0.19	0.24	0.74	0.49	1.23	1.22	3.36	0.73	1.90	0.93	12.92	66
1961	0.08	0.27	1.18	0.14	0.46	0.33	1.78	1.24	2.01	2.26	1.57	1.95	13.27	64
1962	1.71	0.49	0.50	0.54	0.37	0.97	1.62	11.20	6.41	5.81	0.99	1.20	31.81	2
1963	1.70	0.44	0.32	0.78	1.47	1.03	4.22	1.28	5.10	2.19	0.45	2.74	21.72	27
1964	0.70	0.07	0.52	0.34	0.75	0.63	1.36	3.55	8.32	0.64	3.41	0.32	20.61	31
1965	0.42	0.86	0.63	0.69	0.22	0.34	1.20	6.67	5.70	0.77	2.60	1.61	21.71	28
1966	0.00	0.21	0.36	0.22	0.85	2.60	3.31	0.76	0.82	3.26	3.46	2.46	18.31	40
1967	2.28	0.79	0.88	0.59	1.11	0.76	4.00	3.22	5.26	2.76	0.62	2.70	24.97	13
1968	0.47	0.37	0.78	0.36	0.65	0.27	1.24	1.53	5.92	3.37	2.01	1.23	18.20	43
1969	0.21	0.92	0.85	0.25	0.72	0.83	4.11	2.79	2.93	2.33	0.34	0.04	16.32	52
1970	0.76	0.73	0.82	0.59	0.61	1.87	4.56	3.89	2.22	1.45	0.19	1.44	19.13	36
1971	1.10	1.98	0.70	1.40	1.00	1.07	4.45	7.37	2.72	0.16	1.13	3.37	26.45	8
1972	3.62	1.35	0.22	0.79	0.50	0.70	2.53	3.47	7.58	1.56	1.65	0.27	24.24	15
1973	0.99	0.23	0.68	0.20	0.51	4.36	4.47	3.36	2.56	1.43	1.14	1.27	21.20	29
1974	1.73	0.71	0.86	0.14	0.76	0.66	3.30	1.80	2.01	0.93	1.45	1.08	15.43	58
1975	1.35	0.52	0.35	1.95	0.72	1.77	2.70	2.50	3.58	2.25	0.60	0.02	18.31	41
1976	0.83	0.67	0.90	0.42	1.30	0.66	3.51	2.62	11.45	1.64	1.15	0.60	25.75	11
1977	0.51	0.74	0.48	0.73	1.02	3.09	1.16	2.78	1.80	2.14	1.94	1.89	18.28	42
1978	2.95	0.90	0.40	0.21	0.99	0.29	3.74	4.92	1.30	4.38	1.81	0.41	22.30	24
1979	0.34	1.59	0.60	0.57	0.68	0.46	1.15	2.03	5.90	3.27	2.05	0.24	18.88	37
1980	0.73	0.25	0.15	0.43	0.66	1.23	1.99	2.07	2.60	1.44	1.90	0.15	13.60	61
1981	2.84	0.63	0.82	0.32	0.16	0.05	0.30	7.14	2.44	6.17	0.23	2.37	23.47	19
1982	1.52	0.47	0.33	0.68	0.71	2.59	1.20	8.73	2.03	1.98	1.68	2.41	24.33	14
1983	5.23	0.25	0.79	0.48	0.10	1.84	2.08	2.19	1.58	1.60	1.41	0.24	17.79	46
1984	1.31	0.86	0.93	0.08	0.07	0.76	7.23	1.40	7.92	1.87	2.85	1.05	26.33	10
1985	0.59	1.57	0.67	0.28	0.04	1.70	0.67	1.17	1.89	1.13	3.00	1.34	14.05	59
1986	0.45	2.38	1.53	0.80	1.24	0.72	5.02	2.27	5.59	3.08	0.27	5.98	29.33	4
1987	2.40	1.74	0.08	0.11	1.25	2.13	0.42	4.44	0.58	1.76	3.67	0.85	19.43	34
1988	0.25	0.48	0.18	0.78	0.28	4.22	0.63	3.88	2.97	0.60	2.12	1.06	17.45	49
1989	0.76	0.63	0.44	0.17	0.36	1.94	3.70	2.17	1.68	1.79	0.70	1.73	16.07	55
1990	2.22	1.40	1.85	0.08	0.60	0.76	2.67	2.17	2.16	1.76	0.95	0.63	17.25	50
1991	0.61	0.62	0.50	0.34	1.22	1.31	3.96	6.78	3.86	1.58	1.27	0.69	22.74	21
1992	1.25	1.32	0.23	0.16	0.34	2.16	2.18	2.55	3.88	2.64	1.19	0.54	18.44	39
1993	0.56	0.79	0.96	0.91	0.88	0.93	3.79	5.67	5.90	3.75	1.67	1.91	27.72	6
1994	0.78	0.79	1.12	1.53	0.99	0.68	2.66	1.15	0.52	2.04	0.93	0.74	13.93	60
1995	5.91	0.91	0.28	0.08	0.79	0.88	2.53	8.50	6.00	2.96	0.50	1.05	30.39	3
1996	2.24	1.67	0.20	1.66	0.18	2.02	2.87	9.09	2.88	0.49	1.00	2.10	26.40	9
1997	6.36	0.71	1.56	0.68	0.54	0.48	2.16	4.71	2.55	4.35	0.52	0.87	25.49	12
1998	0.75	0.57	0.25	0.47	1.40	1.87	0.66	0.92	7.01	3.64	2.56	1.70	21.80	26
Mean 1961-90	1.34	0.82	0.66	0.50	0.67	1.35	2.68	3.49	3.83	2.19	1.58	1.42	20.53	

Measured (shaded) and estimated precipitation, in inches, for site 18, Hardy Ranger Station (393572)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	0.40	0.51	1.97	1.11	0.62	2.29	2.06	1.24	1.53	0.95	0.20	0.24	13.12	67
1932	0.20	0.19	1.00	1.72	0.50	1.29	6.28	3.94	2.87	2.39	2.04	0.46	22.88	31
1933	3.16	1.00	1.52	2.18	1.32	1.91	3.24	4.32	1.66	0.50	2.16	1.10	24.07	26
1934	0.50	0.80	0.81	1.29	0.57	1.20	1.23	0.46	4.31	0.87	3.24	0.57	15.85	62
1935	1.02	0.69	0.91	0.38	1.00	1.87	1.74	3.17	2.52	1.00	0.74	0.49	15.53	65
1936	0.45	0.81	1.13	0.89	1.19	1.25	1.19	0.33	0.73	1.11	0.69	0.67	10.44	68
1937	0.47	0.61	0.67	1.09	0.68	1.11	0.66	2.03	3.92	2.48	1.19	1.56	16.47	60
1938	0.38	0.83	1.44	2.09	0.93	1.12	1.91	4.57	2.42	1.63	0.45	0.38	18.15	55
1939	0.26	0.92	0.89	1.32	1.53	0.90	2.30	1.50	3.29	0.73	4.03	0.91	18.58	54
1940	0.89	0.15	0.84	0.61	1.03	1.22	3.17	1.58	2.52	1.38	0.60	1.59	15.58	64
1941	1.72	0.44	0.49	0.20	0.23	0.82	4.77	2.22	7.46	3.38	2.68	2.80	27.21	13
1942	2.31	0.80	0.53	0.23	0.52	1.48	2.80	3.35	4.35	1.77	1.55	2.43	22.12	37
1943	1.86	1.32	1.42	1.02	0.87	1.13	2.35	1.83	3.94	2.69	2.39	0.59	21.41	40
1944	2.00	1.37	0.00	1.25	0.10	0.55	1.72	3.04	4.51	2.52	0.44	0.57	18.07	56
1945	0.93	1.13	0.81	1.36	0.89	1.95	1.27	3.33	3.97	1.43	7.28	3.04	27.39	12
1946	0.27	0.48	1.39	0.82	0.48	2.00	1.76	8.54	4.32	2.60	0.75	4.71	28.12	11
1947	2.44	0.33	1.19	1.33	0.91	1.71	1.83	1.07	6.47	2.09	0.92	0.53	20.82	44
1948	1.56	2.53	0.36	1.85	0.79	0.60	2.58	0.91	4.95	3.04	1.16	1.85	22.18	36
1949	0.52	2.15	0.10	0.91	0.20	0.38	2.26	1.40	3.89	0.98	1.17	1.06	15.02	66
1950	1.48	1.08	0.57	0.19	0.15	3.73	1.81	1.68	1.98	3.33	2.22	3.41	21.63	39
1951	0.51	0.84	0.39	0.31	0.08	0.97	0.95	2.41	3.75	3.83	2.65	2.90	19.59	48
1952	1.25	1.00	2.33	0.14	0.56	1.34	0.69	8.72	1.94	2.26	1.50	0.52	22.25	35
1953	0.22	0.67	0.38	1.65	1.76	1.19	3.45	3.21	3.69	2.37	3.44	0.44	22.47	34
1954	0.33	0.93	1.12	0.28	1.22	2.49	0.52	3.55	2.06	1.77	2.99	0.80	18.06	57
1955	1.81	0.80	0.95	1.35	0.98	1.29	3.12	2.99	4.30	3.09	2.01	2.62	25.31	21
1956	0.97	1.10	1.11	0.57	0.44	1.34	1.61	4.02	2.01	2.42	3.02	0.51	19.12	50
1957	0.69	2.53	0.62	0.61	0.28	1.49	1.97	5.11	4.35	3.21	2.51	0.94	24.31	25
1958	0.90	1.21	0.81	0.70	1.08	0.86	3.21	1.48	3.97	5.20	1.89	0.35	21.66	38
1959	1.20	1.34	0.76	0.94	1.63	1.52	1.73	3.03	5.01	0.99	0.29	2.15	20.59	45
1960	0.84	2.16	0.59	0.35	1.34	1.12	2.07	1.39	4.65	0.89	2.51	1.09	19.00	51
1961	0.18	0.77	1.33	0.15	0.64	0.75	2.19	1.31	1.52	3.40	1.01	2.53	15.78	63
1962	0.83	0.64	1.11	1.20	1.08	0.70	1.67	9.39	5.52	3.51	1.15	2.08	28.88	9
1963	0.96	0.56	0.85	1.41	2.64	1.53	5.37	3.32	6.78	3.09	0.43	2.46	29.40	8
1964	0.88	0.28	1.14	0.91	2.81	1.18	2.29	5.17	9.09	0.58	5.96	0.85	31.14	2
1965	0.43	0.74	1.66	1.92	0.68	0.85	2.02	9.20	4.87	3.96	1.93	2.36	30.62	5
1966	0.00	0.69	0.38	0.41	1.07	1.77	3.65	0.37	1.76	3.71	3.02	2.09	18.92	52
1967	1.55	0.71	0.99	1.01	1.64	0.74	2.99	3.00	5.65	1.76	1.69	3.86	25.59	19
1968	1.13	0.74	1.60	0.54	0.73	0.39	1.45	2.83	5.34	3.63	3.36	2.06	23.80	27
1969	0.45	1.51	1.06	0.85	0.92	1.06	4.03	2.64	4.40	4.65	0.99	1.23	23.79	28
1970	1.21	1.35	1.29	1.47	0.67	2.22	3.35	3.89	3.86	2.16	1.54	1.35	24.36	24
1971	1.73	1.88	0.81	1.69	1.45	1.98	4.06	4.39	2.53	1.20	1.95	3.14	26.81	15
1972	2.98	1.10	0.51	1.05	0.68	1.30	2.35	5.00	4.51	3.11	3.61	0.74	26.94	14
1973	1.03	0.59	0.86	0.23	0.46	3.38	4.27	2.73	4.44	2.28	1.89	2.89	25.05	22
1974	0.76	0.67	1.38	0.70	0.80	0.58	2.18	1.78	1.32	3.53	4.44	1.05	19.19	49
1975	1.52	0.83	1.14	1.71	0.71	2.60	3.38	2.20	5.41	0.82	0.78	0.30	21.40	41
1976	0.95	0.79	1.54	0.95	1.44	0.83	2.63	3.82	8.03	2.56	1.09	1.32	25.95	17
1977	0.56	1.65	0.93	2.35	2.01	3.09	2.37	2.23	2.78	2.28	3.34	2.12	25.71	18
1978	1.45	1.29	1.07	0.45	1.50	0.61	4.16	7.00	2.35	4.35	1.63	0.70	26.56	16
1979	1.14	1.10	1.58	0.94	1.14	0.77	1.46	2.31	4.43	5.26	3.75	0.50	24.38	23
1980	0.92	1.14	0.71	0.70	0.55	1.14	1.53	4.22	1.98	1.49	3.29	1.14	18.81	53
1981	1.73	0.81	0.95	0.24	0.25	0.20	0.55	5.74	2.46	5.22	1.14	1.65	20.94	43
1982	1.37	0.61	0.72	1.32	2.79	5.69	3.16	6.34	3.41	3.19	1.24	1.27	31.11	4
1983	3.68	0.55	0.99	1.33	0.33	1.27	1.19	2.63	1.50	1.75	4.02	0.51	19.75	46
1984	2.68	1.94	0.62	1.30	0.62	1.62	4.43	1.41	3.53	2.25	1.63	0.80	22.83	32
1985	1.05	1.41	0.44	0.68	1.17	1.63	1.20	1.26	1.82	1.85	1.89	1.88	16.28	61
1986	0.61	1.58	1.53	1.14	1.70	1.00	3.52	1.76	4.54	1.25	1.18	3.80	23.61	29
1987	2.09	1.58	0.16	0.92	1.22	1.30	0.51	3.29	1.26	1.22	1.95	1.02	16.52	59
1988	0.69	0.50	0.40	0.98	1.32	1.84	0.72	3.97	2.01	0.94	1.86	1.34	16.57	58
1989	0.94	1.41	1.09	0.40	1.23	1.05	3.30	2.51	2.08	1.29	2.36	2.01	19.67	47
1990	1.64	1.72	2.43	0.89	1.01	1.75	2.14	2.93	0.97	2.86	1.78	1.16	21.28	42
1991	1.18	0.68	1.39	1.18	1.67	1.14	4.57	5.59	2.85	2.84	1.38	0.85	25.32	20
1992	1.50	1.72	0.26	0.81	0.79	1.97	2.99	3.52	3.37	2.85	1.88	1.02	22.68	33
1993	0.80	2.05	1.27	1.05	0.85	0.91	3.33	4.64	6.73	3.72	1.70	1.34	28.39	10
1994	2.11	1.48	3.00	2.84	1.21	1.40	3.41	1.88	1.93	1.81	1.07	0.94	23.08	30
1995	5.44	1.96	0.35	0.41	1.17	1.96	2.98	7.05	3.45	2.79	1.07	1.80	30.43	6
1996	3.61	1.30	0.58	2.26	0.76	3.16	2.80	4.92	1.95	3.54	3.20	2.13	30.21	7
1997	4.42	1.05	2.50	1.26	1.50	1.14	3.71	3.13	2.93	6.26	2.65	1.24	31.79	1
1998	1.64	1.36	1.73	0.69	2.30	2.10	0.95	2.03	6.74	5.60	3.88	2.12	31.14	3
Mean 1961-90	1.24	1.04	1.04	0.99	1.18	1.49	2.60	3.62	3.67	2.64	2.20	1.67	23.39	

Measured (shaded) and estimated precipitation, in inches, for site 19, Hermosa 3SSW (393775)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.54	0.73	0.07	0.22	0.26	0.80	0.72	1.66	1.77	1.27	2.24	0.37	13.65	51
1932	1.41	0.60	0.66	0.71	0.51	1.31	3.55	3.77	2.87	2.53	3.21	0.15	21.28	7
1933	1.25	0.06	0.30	0.28	0.39	1.27	3.26	6.10	0.77	2.13	4.61	0.38	20.80	10
1934	0.09	0.21	0.22	0.22	0.39	1.17	0.79	0.27	2.64	1.45	0.93	0.75	9.13	67
1935	2.05	0.25	0.47	0.15	0.50	1.18	2.27	6.94	2.36	0.62	0.45	0.91	18.15	31
1936	0.35	0.35	0.18	0.45	0.68	0.82	1.54	0.47	3.04	0.29	1.65	0.72	10.54	62
1937	0.79	1.00	0.28	0.45	0.35	1.51	0.45	2.24	3.29	2.75	0.47	0.57	14.15	48
1938	0.38	0.30	0.69	0.31	0.18	1.05	2.20	4.51	2.39	2.30	0.98	1.65	16.94	38
1939	0.40	0.71	0.11	0.19	0.36	1.00	0.62	1.88	1.99	1.25	3.16	1.21	12.88	57
1940	1.23	0.00	0.30	0.35	0.34	0.86	3.52	0.59	1.43	1.74	1.62	1.65	13.63	52
1941	0.99	0.27	0.35	0.13	0.10	0.76	5.74	1.44	4.05	1.61	2.21	1.60	19.25	16
1942	1.83	0.13	0.28	0.00	0.28	0.78	3.91	3.73	3.25	2.26	1.32	1.06	18.83	20
1943	1.21	0.32	0.17	0.55	0.37	0.97	3.38	3.04	5.44	1.25	0.25	0.04	16.99	37
1944	1.13	0.05	0.29	1.56	0.31	0.60	1.73	3.56	3.75	3.75	0.70	0.00	17.43	33
1945	0.82	0.58	0.30	0.35	0.20	2.16	0.47	1.89	4.02	1.24	3.97	1.32	17.32	34
1946	0.00	0.12	0.00	0.02	0.05	0.87	1.00	6.65	3.68	2.02	1.04	3.03	18.48	23
1947	1.53	0.00	0.00	0.41	0.00	0.54	2.28	2.47	8.54	0.15	1.45	0.50	17.87	32
1948	0.87	0.82	0.16	0.50	0.06	0.18	1.39	2.32	4.73	2.22	0.36	0.00	13.61	53
1949	1.20	0.38	0.63	1.36	0.04	0.42	1.43	4.44	3.11	2.22	2.76	1.07	19.06	18
1950	0.83	0.04	0.48	0.28	0.05	1.51	1.20	1.31	1.46	2.25	1.37	1.95	12.73	58
1951	0.30	0.00	0.10	0.16	0.21	0.63	0.59	2.87	6.09	2.46	1.83	1.89	17.13	36
1952	0.88	0.17	0.47	0.07	0.59	0.79	0.30	6.20	3.17	1.48	2.52	0.25	16.89	39
1953	0.13	0.15	0.13	0.75	1.57	1.08	3.48	1.13	2.65	0.41	2.55	0.56	14.59	47
1954	0.20	0.85	0.05	0.16	0.31	1.22	0.30	2.14	1.72	0.96	2.25	0.13	10.29	64
1955	1.88	0.60	0.08	0.27	1.08	1.00	1.10	1.60	2.97	1.91	2.43	3.25	18.17	30
1956	0.14	0.42	0.69	0.34	0.25	0.99	1.76	3.51	0.70	5.04	4.07	0.27	18.18	29
1957	0.24	1.52	0.23	0.31	0.18	0.29	2.21	6.39	2.50	3.41	0.79	0.67	18.74	21
1958	1.69	0.24	0.07	0.21	0.51	0.90	3.06	4.10	3.54	3.89	0.10	0.01	18.32	25
1959	0.04	0.21	0.26	0.10	0.38	0.60	2.02	1.97	4.67	0.52	0.00	2.94	13.71	49
1960	0.20	0.93	0.13	0.31	0.57	0.41	1.27	1.85	2.90	1.17	1.14	0.52	11.40	60
1961	0.04	0.60	0.56	0.02	0.25	0.80	0.63	2.69	1.70	1.46	0.13	1.23	10.11	66
1962	0.72	0.06	0.06	0.31	0.94	0.96	0.34	7.39	3.58	5.30	0.70	1.07	21.43	6
1963	1.99	0.07	0.00	0.40	0.37	1.05	4.13	1.13	5.38	2.30	0.54	1.76	19.12	17
1964	0.74	0.15	0.23	0.35	0.33	0.43	1.36	2.71	4.03	4.57	1.01	0.42	16.33	41
1965	0.62	0.34	0.69	0.45	0.16	0.48	1.73	7.11	3.19	2.86	1.33	1.49	20.45	11
1966	0.40	0.15	0.22	0.20	0.78	0.50	2.54	0.05	2.56	3.28	3.57	2.14	16.39	40
1967	1.02	0.76	0.69	0.20	0.37	0.80	2.90	3.27	8.71	2.23	1.06	1.28	23.29	1
1968	0.14	0.28	0.82	0.52	0.28	0.29	1.01	1.93	6.35	2.46	3.10	1.27	18.45	24
1969	0.16	0.31	0.37	0.10	0.70	0.35	0.73	2.18	3.80	4.17	0.19	0.29	13.35	55
1970	1.29	0.24	0.21	0.16	0.31	1.30	3.89	3.75	2.56	1.27	0.51	2.78	18.27	27
1971	0.82	0.49	0.59	0.93	0.62	1.06	4.44	2.25	1.45	0.99	0.38	2.31	16.33	42
1972	1.32	0.78	0.00	0.16	0.20	0.50	2.36	3.44	4.47	3.01	2.73	0.64	19.61	14
1973	0.60	0.32	0.90	0.00	0.23	2.18	3.17	1.87	0.22	3.80	1.99	1.86	17.14	35
1974	0.98	0.70	0.16	0.24	0.15	0.21	0.66	1.67	1.14	3.01	0.84	1.10	10.86	61
1975	1.82	0.03	0.07	1.09	0.38	1.57	1.80	2.20	4.85	0.90	1.18	0.03	15.92	43
1976	0.27	0.37	0.49	0.25	0.75	0.67	3.74	2.93	7.08	2.85	1.28	0.44	21.12	8
1977	0.24	0.39	0.18	0.36	0.24	1.90	2.02	3.08	2.82	4.34	2.72	2.13	20.42	12
1978	0.82	0.70	0.66	0.34	0.81	0.27	1.28	6.36	1.67	3.99	1.94	0.00	18.84	19
1979	0.30	0.66	0.21	0.30	0.29	0.22	0.83	1.50	2.29	5.36	1.61	0.10	13.67	50
1980	0.77	0.26	0.14	0.27	0.40	0.97	1.29	2.28	3.01	2.58	2.00	0.63	14.60	46
1981	2.53	0.41	0.79	0.07	0.11	0.26	0.64	5.79	1.27	4.56	1.53	0.30	18.26	28
1982	0.85	0.13	0.79	0.56	0.39	1.11	0.92	5.63	4.17	2.61	2.49	2.38	22.03	5
1983	2.09	0.40	0.48	0.07	0.15	1.25	0.58	3.58	1.33	0.49	2.24	0.69	13.35	56
1984	1.96	0.58	0.43	0.03	0.00	0.55	2.64	1.86	3.64	2.00	0.95	0.24	14.88	45
1985	0.46	0.55	0.28	0.18	0.00	0.95	0.75	0.76	0.74	3.42	0.70	1.54	10.33	63
1986	0.75	1.69	0.32	0.00	0.02	0.67	3.75	1.43	4.03	1.35	1.31	3.41	18.73	22
1987	1.65	0.95	0.25	0.05	1.85	1.04	0.05	3.06	1.48	1.15	1.56	0.38	13.47	54
1988	0.26	0.29	0.35	0.05	0.19	0.41	1.22	2.44	2.26	0.45	2.10	0.23	10.25	65
1989	0.40	0.86	0.50	0.01	0.57	0.56	0.82	0.56	1.61	0.97	1.47	3.66	11.99	59
1990	1.56	0.40	0.79	0.61	0.75	0.81	1.77	5.75	1.67	2.60	0.45	1.12	18.28	26
1991	0.74	0.84	0.42	0.03	0.70	0.64	4.66	4.37	5.23	1.25	1.07	1.12	21.07	9
1992	1.27	1.15	0.00	0.23	0.14	1.75	0.79	2.61	2.73	3.45	0.99	0.31	15.42	44
1993	0.14	0.42	0.87	0.93	1.07	0.68	2.70	3.75	4.20	4.38	2.19	1.22	22.55	2
1994	1.09	0.34	0.25	0.20	0.55	0.19	0.76	1.40	1.29	1.43	1.04	0.23	8.77	68
1995	3.35	0.28	0.45	0.00	0.79	0.88	1.86	6.86	4.69	1.85	0.31	1.00	22.32	3
1996	1.74	0.21	0.20	0.96	0.00	0.25	1.58	5.64	2.16	1.73	2.40	2.68	19.55	15
1997	2.69	0.45	0.65	0.25	0.41	0.27	2.09	5.17	2.02	4.88	1.76	1.54	22.18	4
1998	0.72	0.01	0.04	0.27	0.68	1.75	0.28	3.79	6.23	2.19	2.73	1.58	20.27	13
Mean 1961-90	0.92	0.46	0.41	0.28	0.42	0.80	1.80	3.02	3.10	2.68	1.45	1.23	16.58	

Measured (shaded) and estimated precipitation, in inches, for site 20, Hill City (393868)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.81	0.62	0.20	0.34	0.34	0.90	0.96	1.65	1.77	1.28	2.29	0.30	13.46	63
1932	1.41	0.88	0.43	0.99	0.21	0.71	4.38	3.79	3.45	3.00	3.14	0.56	22.95	13
1933	1.88	0.20	0.40	0.52	0.51	1.07	3.62	5.81	1.54	2.48	3.56	0.55	22.14	19
1934	0.07	0.26	0.25	0.34	0.30	1.00	0.86	0.39	3.74	1.04	1.34	1.09	10.68	68
1935	1.97	0.37	0.58	0.15	0.51	0.88	1.73	5.46	3.15	2.25	0.68	0.99	18.72	35
1936	0.29	0.43	0.24	0.53	0.51	0.90	1.59	0.45	3.29	0.87	1.98	0.47	11.55	67
1937	0.79	0.94	0.15	0.36	0.38	1.07	0.39	2.29	3.04	3.22	0.83	0.80	14.26	60
1938	0.27	0.27	0.86	0.60	0.24	0.99	2.25	4.59	1.96	2.24	0.78	1.12	16.17	49
1939	0.38	0.74	0.43	0.53	0.31	1.05	1.13	2.05	2.18	1.81	4.11	1.17	15.89	55
1940	1.19	0.00	0.37	0.35	0.32	0.92	2.73	0.66	1.84	1.53	1.84	1.75	13.50	62
1941	1.19	0.30	0.38	0.10	0.12	0.96	4.96	1.87	4.51	2.69	3.04	1.44	21.56	20
1942	2.59	0.17	0.44	0.08	0.44	1.06	3.83	3.25	3.94	1.69	1.84	1.92	21.25	22
1943	1.74	0.41	0.33	0.68	0.51	1.03	3.83	3.26	4.45	2.03	0.70	0.25	19.22	30
1944	0.94	0.32	0.12	1.48	0.45	0.93	1.20	2.87	3.63	3.36	0.45	0.35	16.10	51
1945	0.79	1.33	0.37	0.57	0.43	1.75	1.00	2.48	3.25	1.55	3.07	1.77	18.36	38
1946	0.08	0.12	0.33	0.18	0.40	1.49	1.47	7.54	3.64	2.38	2.46	3.41	23.50	12
1947	2.68	0.21	0.43	0.85	0.13	0.82	1.86	2.30	7.47	1.76	2.33	0.42	21.26	21
1948	1.30	0.98	0.13	0.38	0.51	0.35	2.02	1.56	4.32	3.03	2.35	0.76	17.69	42
1949	0.76	0.78	0.51	1.74	0.10	0.48	1.65	3.67	3.30	2.12	1.16	0.96	17.23	45
1950	0.90	0.14	0.48	0.31	0.27	2.05	1.83	1.98	1.66	3.23	2.11	2.53	17.49	43
1951	0.42	0.35	0.10	0.12	0.25	0.58	1.17	1.87	3.94	2.54	2.37	2.42	16.13	50
1952	1.03	0.26	0.76	0.07	0.37	0.79	0.30	8.00	2.52	1.89	1.65	0.25	17.89	39
1953	0.65	0.36	0.06	0.88	0.96	1.06	2.69	1.60	2.97	1.73	2.59	0.33	15.88	56
1954	0.19	0.51	0.40	0.15	0.51	1.20	0.22	2.65	1.92	1.70	2.69	0.40	12.54	65
1955	1.97	0.64	0.16	0.30	0.75	1.24	1.25	1.92	3.56	3.12	2.09	1.93	18.93	33
1956	0.31	0.92	0.81	0.48	0.52	0.68	1.74	3.96	0.96	3.11	2.59	0.11	16.19	48
1957	0.30	1.62	0.34	0.33	0.28	0.96	2.47	5.80	4.48	2.13	1.45	0.89	21.05	23
1958	0.74	0.34	0.29	0.32	0.63	0.79	2.79	1.15	3.84	3.85	1.01	0.27	16.02	54
1959	0.07	0.84	0.27	0.32	0.60	1.88	1.98	3.34	3.50	2.78	0.66	2.29	18.53	36
1960	0.23	1.08	0.19	0.30	0.47	0.23	2.21	1.54	2.89	2.23	1.90	1.31	14.58	58
1961	0.03	0.75	0.58	0.04	0.40	1.02	1.40	1.59	1.20	4.42	1.32	1.73	14.48	59
1962	0.90	0.23	0.15	0.42	0.81	0.48	0.84	9.25	6.67	5.80	1.21	1.04	27.80	4
1963	1.43	0.15	0.08	0.39	0.30	1.27	4.70	2.04	6.04	2.07	1.29	2.65	22.41	18
1964	0.95	0.22	0.38	0.62	0.31	0.67	1.37	2.80	5.59	2.56	1.64	1.32	18.43	37
1965	0.00	0.37	2.48	0.39	0.24	0.44	1.25	10.61	4.43	4.95	1.57	1.62	28.35	2
1966	0.10	0.13	0.31	0.11	0.62	0.47	2.72	0.03	0.71	5.83	3.83	1.68	16.54	46
1967	1.12	0.58	0.63	0.16	0.55	0.33	2.73	2.28	7.01	1.80	1.71	1.16	20.06	27
1968	0.36	0.32	0.36	0.51	0.15	0.22	0.96	2.08	5.32	1.36	3.11	1.29	16.04	52
1969	0.08	0.19	0.55	0.09	1.50	0.25	1.91	2.10	4.08	7.49	1.67	0.60	20.51	26
1970	0.78	0.35	0.03	0.19	0.35	1.40	2.55	2.68	3.08	2.12	1.51	1.00	16.04	53
1971	1.67	0.44	0.53	0.56	0.61	1.09	5.04	4.58	5.95	1.54	0.84	2.43	25.28	6
1972	1.63	0.86	0.23	0.30	0.22	0.59	1.80	2.43	9.47	3.08	3.63	0.66	24.90	8
1973	0.68	0.24	0.16	0.04	0.21	4.18	3.65	1.34	3.70	3.26	1.45	1.93	20.84	25
1974	0.48	0.89	0.49	0.34	0.17	0.29	1.37	1.68	0.44	4.99	1.97	0.43	13.54	61
1975	1.88	0.18	0.18	0.72	0.54	1.06	2.79	2.36	4.26	1.33	0.25	0.04	15.59	57
1976	0.60	0.36	0.71	0.08	1.10	0.26	4.07	3.43	5.65	3.61	1.51	1.29	22.67	16
1977	0.21	0.58	0.06	0.39	0.40	1.44	1.59	1.66	3.70	4.02	3.15	1.71	18.91	34
1978	0.52	0.79	0.73	0.34	0.62	0.26	2.93	6.58	1.59	3.04	1.65	0.47	19.52	29
1979	0.56	0.73	0.72	0.46	0.54	0.52	1.39	1.49	4.14	8.85	2.86	0.21	22.47	17
1980	0.95	0.47	0.15	0.33	0.38	0.96	1.51	2.74	2.25	2.36	3.11	1.12	16.33	47
1981	1.68	0.56	0.22	0.04	0.18	0.25	0.52	5.81	1.24	6.22	0.86	0.28	17.86	40
1982	2.11	0.04	0.88	0.59	0.44	1.18	0.93	5.88	3.55	3.42	1.79	2.96	23.77	11
1983	1.95	0.51	0.65	0.34	0.21	1.77	1.29	2.39	2.43	1.13	4.09	0.70	17.46	44
1984	2.19	1.30	0.65	0.14	0.21	0.55	3.66	1.94	4.43	5.17	1.49	1.21	22.94	15
1985	0.70	1.03	0.39	0.21	0.13	1.28	1.62	0.91	1.16	2.46	1.24	2.19	13.32	64
1986	0.88	1.75	0.54	0.16	1.43	0.60	3.98	1.67	4.92	1.67	1.05	6.61	25.26	7
1987	1.84	1.40	0.00	0.13	1.90	1.69	0.38	7.29	0.57	1.84	3.13	0.81	20.98	24
1988	0.87	0.44	0.39	0.30	0.35	0.58	0.99	2.69	4.54	2.77	3.69	0.22	17.83	41
1989	0.50	1.12	0.34	0.07	0.52	0.84	1.46	2.60	2.06	1.76	3.65	4.76	19.68	28
1990	0.96	0.47	0.66	0.03	0.77	1.69	2.44	4.17	1.66	3.74	1.35	1.05	18.99	32
1991	0.69	0.69	0.59	0.14	0.54	0.88	3.49	7.56	4.28	2.30	1.13	0.66	22.95	14
1992	1.24	1.07	0.00	0.11	0.30	2.08	1.04	2.87	4.16	4.35	1.04	0.88	19.14	31
1993	0.64	0.28	0.83	0.63	0.95	0.64	2.85	5.69	4.95	4.06	2.10	1.17	24.79	9
1994	1.94	0.40	0.48	0.27	0.51	0.71	2.18	1.93	1.07	1.24	1.18	0.49	12.40	66
1995	4.31	0.64	0.43	0.00	0.68	0.83	2.03	6.87	5.80	3.97	1.35	1.43	28.34	3
1996	2.74	0.62	0.23	1.09	0.24	1.71	2.58	6.62	2.00	2.20	5.31	2.11	27.45	5
1997	4.81	0.64	1.22	0.20	0.67	0.27	3.09	4.18	3.83	6.64	2.39	1.61	29.55	1
1998	1.42	0.07	0.34	0.48	0.76	1.84	1.20	3.48	5.96	4.08	2.38	2.62	24.63	10
Mean 1961-90	0.95	0.58	0.47	0.28	0.54	0.92	2.13	3.30	3.73	3.49	2.05	1.51	19.96	

Measured (shaded) and estimated precipitation, in inches, for site 21, Hot Springs (394007)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.16	1.00	0.00	0.55	0.32	0.86	0.63	2.03	1.32	1.76	1.59	1.05	14.27	43
1932	1.51	0.56	0.90	0.80	1.55	4.20	3.10	3.35	1.99	2.74	1.63	0.09	22.42	6
1933	0.93	0.07	0.40	0.10	0.70	1.97	4.07	5.18	1.19	1.24	6.89	0.44	23.18	3
1934	0.15	0.43	0.40	0.35	0.70	1.66	0.64	0.35	2.53	1.83	1.20	0.80	11.04	65
1935	0.83	0.22	0.34	0.20	0.51	2.05	2.44	9.65	2.47	0.95	1.32	1.08	22.06	7
1936	0.58	0.65	0.35	0.51	1.15	0.70	0.97	0.70	1.99	0.15	0.51	1.20	9.46	67
1937	0.52	1.00	0.72	0.54	0.42	2.17	0.72	1.29	6.66	2.79	0.15	0.74	17.72	32
1938	0.75	0.42	0.21	0.43	0.03	1.32	1.80	3.91	1.67	2.67	0.72	3.46	17.39	34
1939	0.26	0.53	0.16	0.03	0.57	0.83	0.51	1.68	2.47	0.43	2.74	1.01	11.22	64
1940	0.87	0.00	0.22	0.49	0.53	0.78	4.99	0.83	0.90	2.10	0.44	1.57	13.72	48
1941	0.79	0.31	0.17	0.19	0.10	0.85	6.20	0.95	3.57	2.19	4.74	1.15	21.21	9
1942	0.80	0.23	0.51	0.02	0.30	1.00	3.23	3.75	3.25	4.11	1.06	1.95	20.21	14
1943	1.90	0.27	0.20	0.31	0.26	0.73	3.24	3.44	4.39	2.14	1.07	0.45	18.40	22
1944	1.13	0.00	0.30	1.17	0.75	0.48	2.60	4.10	2.95	4.73	1.39	0.18	19.78	15
1945	0.38	0.90	0.69	0.50	0.68	1.76	0.61	1.64	3.45	2.27	2.02	1.63	16.53	37
1946	0.00	0.02	0.54	0.23	0.38	0.90	1.15	8.06	2.96	1.93	1.20	3.15	20.52	11
1947	1.26	0.18	0.56	0.39	0.05	0.13	1.25	2.86	9.44	3.78	0.96	0.16	21.02	10
1948	1.02	1.12	0.17	0.04	0.62	0.31	2.20	1.94	4.83	2.16	3.51	0.30	18.22	26
1949	1.43	0.24	0.37	1.39	0.00	0.24	0.99	6.08	2.74	2.64	1.65	0.91	18.68	18
1950	0.60	0.04	0.47	0.16	0.04	1.45	2.32	1.46	0.91	2.12	1.97	3.35	14.89	41
1951	0.33	0.19	0.13	0.26	0.13	0.28	0.67	1.48	4.01	2.53	2.10	2.27	14.38	42
1952	0.44	0.17	0.23	0.03	0.66	0.94	0.22	4.30	3.00	0.70	0.88	0.22	11.79	59
1953	0.17	0.61	0.21	0.87	0.78	0.22	2.21	1.52	2.11	1.70	1.24	1.31	12.95	56
1954	0.15	0.47	0.12	0.32	0.61	1.03	0.60	2.79	2.59	0.92	0.49	0.83	10.92	66
1955	2.20	0.17	0.19	0.27	1.04	1.12	0.45	2.68	1.96	2.34	1.24	3.84	17.50	33
1956	0.32	0.42	0.53	0.21	0.31	0.29	1.08	3.50	1.73	1.22	1.38	0.61	11.60	60
1957	0.12	0.72	0.40	0.44	0.17	1.39	2.48	5.65	3.33	1.33	1.19	1.29	18.51	19
1958	1.51	0.16	0.09	0.08	0.82	0.61	2.02	1.19	1.82	7.61	0.11	0.04	16.06	39
1959	0.15	0.24	0.16	0.54	0.18	0.40	0.80	2.52	3.97	1.61	0.24	2.64	13.45	52
1960	0.15	0.54	0.25	0.11	0.44	0.20	0.62	0.27	1.88	0.25	0.76	0.18	5.65	68
1961	0.03	0.77	0.64	0.03	0.19	1.01	0.89	2.70	1.16	4.54	0.18	1.48	13.62	50
1962	0.51	0.21	0.26	0.09	0.69	0.77	0.24	4.78	3.93	5.65	0.33	0.50	17.96	28
1963	1.82	0.14	0.28	0.45	0.31	1.10	2.40	2.28	5.52	2.65	0.93	2.61	20.49	12
1964	0.89	0.02	0.16	0.11	0.45	0.83	1.47	2.76	4.38	0.33	0.73	0.34	12.47	57
1965	0.71	0.23	0.76	0.42	0.48	0.86	1.01	5.74	3.47	1.55	1.01	2.18	18.42	21
1966	0.15	0.23	0.32	0.37	0.75	0.27	2.29	0.09	1.03	3.70	2.60	1.78	13.58	51
1967	1.00	0.45	0.38	0.43	0.12	0.72	2.16	3.08	7.87	1.01	0.31	0.65	18.18	27
1968	0.35	0.17	0.78	0.30	0.12	0.63	0.85	2.75	4.60	3.99	1.72	0.68	16.94	35
1969	0.23	0.38	0.51	0.32	0.75	0.16	0.81	1.72	1.98	3.60	0.45	0.62	11.53	61
1970	1.01	0.14	0.22	0.19	0.32	0.77	2.06	1.34	2.36	2.87	0.84	1.74	13.86	46
1971	1.23	0.36	0.24	0.50	0.75	0.57	2.93	5.62	1.77	1.11	0.35	2.45	17.88	29
1972	1.22	0.73	0.22	0.35	0.11	0.86	1.16	2.11	2.81	1.55	1.87	0.70	13.69	49
1973	1.64	0.17	0.19	0.13	0.53	2.03	2.89	1.22	1.60	3.18	1.66	3.19	18.43	20
1974	1.49	0.56	0.60	0.57	0.09	0.28	2.77	1.14	0.97	3.08	1.20	1.35	14.10	44
1975	2.13	0.22	0.05	0.64	0.53	1.16	1.57	1.94	4.92	1.41	0.28	0.14	14.99	40
1976	0.44	0.34	0.75	0.60	0.70	0.68	3.37	1.82	3.68	4.04	1.22	0.64	18.28	24
1977	0.36	0.18	0.13	0.41	0.06	0.99	2.44	2.40	2.13	3.72	2.93	2.52	18.27	25
1978	1.09	1.00	0.43	0.35	0.61	0.40	1.64	4.89	1.49	3.22	3.51	0.41	19.04	16
1979	0.43	0.33	0.59	0.55	0.38	0.22	0.92	1.33	2.33	2.55	4.05	0.34	14.02	45
1980	0.66	0.09	0.00	0.28	0.25	0.91	0.94	1.80	2.48	2.10	1.99	0.31	11.81	58
1981	1.65	0.48	0.52	0.06	0.17	0.32	0.80	5.89	1.19	3.94	0.98	0.36	16.36	38
1982	1.77	0.09	0.76	0.48	0.25	1.07	1.03	6.45	4.76	1.88	1.81	2.38	22.73	4
1983	0.87	0.80	0.25	0.31	0.06	1.40	0.78	2.13	3.15	2.11	0.93	0.43	13.22	54
1984	1.82	1.20	0.68	0.37	0.32	1.30	3.69	2.28	3.03	1.90	1.25	0.49	18.33	23
1985	1.32	0.36	0.08	0.31	0.25	0.34	1.10	0.55	1.70	2.64	0.37	2.46	11.48	62
1986	0.62	1.09	0.10	0.16	0.66	0.63	2.52	1.30	3.94	1.71	0.85	3.17	16.75	36
1987	1.54	0.74	0.07	0.03	1.29	1.54	0.07	4.04	0.97	0.97	1.68	0.92	13.86	47
1988	0.33	0.80	0.54	0.28	0.12	0.13	0.43	2.60	2.53	2.32	2.20	1.02	13.30	53
1989	0.36	0.60	0.27	0.00	0.28	0.68	1.38	1.46	0.86	2.68	0.98	3.41	12.96	55
1990	0.65	0.30	0.17	0.03	0.37	1.08	2.23	6.36	1.53	2.59	0.99	1.56	17.86	30
1991	0.73	0.85	0.31	0.20	0.82	0.98	1.48	4.50	3.81	2.25	0.95	0.93	17.81	31
1992	0.94	1.10	0.05	0.18	0.64	1.85	0.66	3.40	4.36	4.10	1.46	0.09	18.83	17
1993	0.74	0.43	0.79	0.75	0.93	1.30	2.68	1.59	5.50	5.11	3.64	1.34	24.80	2
1994	1.73	0.88	0.47	0.29	0.55	0.66	0.85	1.37	2.10	0.60	1.54	0.34	11.38	63
1995	3.37	0.14	0.98	0.24	0.57	0.91	1.70	5.96	4.40	1.84	1.10	1.47	22.68	5
1996	1.52	0.14	0.15	0.69	0.14	0.68	2.78	5.08	0.71	1.68	4.99	1.88	20.44	13
1997	1.36	0.56	0.72	1.03	0.70	0.38	2.70	3.85	4.67	8.05	1.25	0.48	25.75	1
1998	1.12	0.00	0.11	0.79	0.89	2.20	0.83	4.13	3.50	2.47	3.53	1.98	21.55	8
Mean 1961-90	0.94	0.44	0.37	0.30	0.40	0.79	1.63	2.82	2.80	2.62	1.34	1.36	15.81	

Measured (shaded) and estimated precipitation, in inches, for site 22, Hot Springs 7W (394009)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.27	0.91	0.01	0.47	0.35	0.88	0.62	1.96	1.36	1.70	1.79	0.96	14.28	48
1932	1.49	0.57	0.88	0.82	1.31	3.62	3.16	3.23	2.08	2.69	1.77	0.10	21.72	9
1933	1.02	0.07	0.39	0.12	0.63	1.82	3.99	5.29	1.07	1.29	6.46	0.41	22.56	7
1934	0.14	0.38	0.36	0.34	0.62	1.60	0.68	0.36	2.57	1.96	1.28	0.84	11.13	66
1935	1.02	0.22	0.33	0.19	0.48	1.97	2.60	9.04	2.40	0.88	1.20	1.05	21.38	10
1936	0.53	0.57	0.33	0.48	1.08	0.72	1.02	0.73	2.16	0.20	0.75	1.16	9.73	67
1937	0.54	0.99	0.64	0.51	0.41	2.07	0.68	1.42	6.05	2.53	0.20	0.67	16.71	37
1938	0.77	0.41	0.25	0.41	0.05	1.39	1.80	3.93	1.70	2.56	0.79	3.12	17.18	36
1939	0.27	0.57	0.16	0.09	0.53	0.82	0.50	1.89	2.31	0.49	2.82	1.02	11.47	65
1940	0.91	0.00	0.23	0.47	0.50	0.78	4.81	0.77	1.01	2.00	0.60	1.60	13.68	52
1941	0.79	0.32	0.19	0.20	0.11	0.87	5.84	1.00	3.68	2.39	4.31	1.16	20.86	12
1942	1.00	0.24	0.54	0.03	0.35	1.02	3.38	3.93	3.50	3.77	1.06	1.92	20.74	13
1943	1.87	0.30	0.21	0.32	0.26	0.75	3.25	3.71	4.25	2.08	0.96	0.43	18.39	27
1944	1.16	0.01	0.26	1.13	0.70	0.50	2.46	3.91	2.93	4.56	1.42	0.19	19.23	18
1945	0.39	0.92	0.67	0.47	0.63	1.76	0.60	1.63	3.44	2.16	2.08	1.69	16.44	39
1946	0.03	0.03	0.54	0.23	0.37	0.95	1.12	7.80	2.97	1.76	1.33	3.18	20.31	15
1947	1.27	0.18	0.54	0.42	0.05	0.19	1.30	2.91	9.21	3.56	1.17	0.24	21.04	11
1948	0.98	1.17	0.20	0.04	0.64	0.42	2.03	1.86	4.23	2.38	2.88	0.38	17.21	35
1949	1.25	0.45	0.55	2.47	0.03	0.26	1.48	3.45	2.52	2.66	1.54	0.97	17.63	32
1950	0.65	0.09	0.40	0.24	0.04	1.75	1.83	1.16	1.27	0.78	2.19	2.65	13.05	58
1951	0.37	0.17	0.17	0.53	0.18	0.57	0.69	1.15	5.88	3.90	1.63	2.19	17.43	34
1952	0.62	0.23	0.52	0.00	0.65	0.92	0.13	3.66	3.22	0.38	1.10	0.23	11.66	63
1953	0.18	0.78	0.28	1.29	1.26	1.22	2.63	1.38	1.94	1.12	0.90	0.80	13.78	51
1954	0.20	0.33	0.15	0.30	0.83	1.13	0.39	2.70	3.43	0.90	1.25	0.92	12.53	62
1955	2.33	0.45	0.19	0.28	2.10	1.99	0.90	2.89	1.89	2.64	1.29	3.69	20.64	14
1956	0.41	1.09	1.07	0.17	0.64	0.41	1.47	3.52	2.04	2.07	1.70	0.24	14.83	44
1957	0.44	1.19	0.77	0.60	0.26	1.80	3.94	6.28	3.48	1.42	1.25	1.13	22.56	8
1958	2.02	0.29	0.15	0.10	0.80	1.26	3.31	0.93	3.58	6.54	0.23	0.05	19.26	17
1959	0.15	0.28	0.24	0.48	0.26	0.56	0.89	2.67	3.90	1.75	0.37	2.83	14.38	47
1960	0.18	0.57	0.22	0.25	0.52	0.22	0.76	0.76	2.28	0.43	0.80	0.28	7.27	68
1961	0.04	0.80	0.64	0.03	0.24	1.05	0.96	2.63	1.31	3.66	0.32	1.40	13.08	57
1962	0.55	0.27	0.27	0.17	0.80	0.80	0.26	5.47	4.35	5.09	0.39	0.63	19.05	19
1963	1.89	0.16	0.25	0.44	0.33	1.37	2.86	2.22	5.92	3.18	1.17	2.85	22.64	6
1964	0.90	0.02	0.22	0.17	0.46	0.97	1.64	3.01	4.43	0.68	0.80	0.30	13.60	53
1965	0.58	0.39	0.76	0.46	0.44	0.87	1.12	5.57	3.70	2.18	1.22	2.13	19.42	16
1966	0.24	0.22	0.30	0.30	0.69	0.30	2.62	0.18	0.94	3.85	2.67	1.91	14.22	49
1967	0.99	0.51	0.47	0.39	0.14	0.86	2.05	3.26	7.45	0.93	0.54	0.72	18.31	28
1968	0.38	0.23	0.79	0.33	0.15	0.72	0.92	2.78	5.42	3.21	2.00	0.90	17.83	31
1969	0.29	0.38	0.56	0.33	0.86	0.20	0.85	1.62	2.16	4.48	0.47	0.69	12.89	59
1970	1.12	0.19	0.23	0.19	0.29	0.99	2.26	1.56	2.55	2.54	0.96	1.82	14.70	45
1971	1.21	0.42	0.32	0.61	0.78	0.63	3.21	5.24	2.21	1.14	0.40	2.50	18.67	22
1972	1.31	0.70	0.31	0.49	0.12	0.77	1.30	2.40	3.64	1.67	1.81	0.67	15.19	42
1973	1.42	0.22	0.21	0.13	0.47	1.99	3.02	1.41	1.43	3.16	1.71	2.94	18.11	30
1974	1.51	0.73	0.59	0.57	0.09	0.26	2.36	1.12	1.15	2.47	1.28	1.27	13.40	56
1975	2.18	0.27	0.06	0.69	0.56	1.24	1.54	2.07	4.80	1.30	0.41	0.13	15.25	41
1976	0.49	0.36	0.81	0.56	0.78	0.70	3.48	2.02	3.60	3.89	1.38	0.62	18.69	21
1977	0.43	0.21	0.16	0.43	0.07	1.17	2.35	2.49	2.26	3.84	2.96	2.34	18.71	20
1978	1.00	0.93	0.53	0.39	0.68	0.34	1.69	4.67	1.47	3.29	3.11	0.41	18.51	24
1979	0.45	0.42	0.61	0.53	0.38	0.26	0.86	1.43	2.31	3.22	3.80	0.29	14.56	46
1980	0.74	0.15	0.02	0.31	0.36	1.17	1.11	2.13	2.42	1.88	2.08	0.36	12.73	61
1981	1.63	0.46	0.60	0.06	0.18	0.39	0.75	5.36	1.21	4.07	1.02	0.28	16.01	40
1982	1.89	0.11	0.70	0.49	0.25	1.12	1.05	6.04	4.69	2.08	1.95	2.45	22.82	5
1983	1.05	0.86	0.35	0.28	0.04	1.26	0.75	2.27	3.16	2.13	1.44	0.41	14.00	50
1984	1.72	1.24	0.71	0.28	0.30	1.18	3.52	2.37	3.13	2.29	1.17	0.51	18.42	26
1985	1.04	0.47	0.20	0.34	0.24	0.45	1.35	0.73	1.50	2.32	0.54	2.38	11.56	64
1986	0.63	1.41	0.17	0.16	0.76	0.64	2.95	1.30	4.51	1.67	1.02	3.35	18.57	23
1987	1.85	0.82	0.09	0.06	1.47	1.70	0.20	4.44	0.92	1.09	1.44	0.88	14.96	43
1988	0.37	0.69	0.56	0.24	0.17	0.25	0.55	2.83	2.50	1.96	2.41	0.93	13.46	55
1989	0.37	0.65	0.31	0.00	0.37	0.82	1.39	1.49	0.97	2.57	1.26	3.37	13.57	54
1990	0.78	0.27	0.29	0.04	0.39	1.17	2.11	5.69	1.77	2.58	0.86	1.50	17.45	33
1991	0.74	0.77	0.35	0.21	0.89	0.69	2.02	4.28	3.38	1.47	1.03	0.63	16.46	38
1992	1.16	1.02	0.06	0.21	0.56	1.94	0.75	3.42	3.60	3.97	1.34	0.21	18.24	29
1993	0.62	0.52	1.03	0.80	1.17	1.23	2.35	1.76	5.69	4.51	3.34	1.21	24.23	3
1994	1.71	0.88	0.58	0.39	0.64	0.69	1.13	1.48	1.97	1.26	1.50	0.53	12.76	60
1995	3.84	0.28	1.02	0.21	0.68	0.84	1.74	5.36	6.07	2.06	1.26	1.73	25.09	2
1996	1.54	0.30	0.19	0.72	0.14	0.80	2.67	4.52	1.21	0.92	3.64	1.82	18.47	25
1997	1.95	0.57	0.91	0.83	0.83	0.36	2.97	3.63	4.04	6.86	1.63	1.04	25.62	1
1998	1.00	0.05	0.11	0.64	0.85	2.28	0.68	4.12	4.51	2.97	3.77	2.21	23.19	4
Mean 1961-90	0.97	0.49	0.40	0.32	0.43	0.85	1.70	2.86	2.93	2.61	1.42	1.36	16.35	

Measured (shaded) and estimated precipitation, in inches, for site 23, Hot Springs 9SW (394010)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.42	0.78	0.04	0.37	0.42	1.01	0.49	1.80	1.36	1.70	1.85	0.92	14.16	46
1932	1.40	0.55	0.88	0.86	0.97	2.94	3.29	2.99	1.85	2.61	1.73	0.12	20.19	9
1933	1.12	0.08	0.37	0.07	0.56	1.67	3.94	5.28	0.96	1.11	5.84	0.31	21.31	6
1934	0.15	0.32	0.31	0.37	0.53	1.49	0.81	0.43	2.79	2.29	1.52	0.92	11.93	62
1935	1.04	0.24	0.24	0.17	0.39	2.06	3.17	8.29	2.18	0.86	1.14	0.90	20.68	8
1936	0.49	0.44	0.33	0.44	1.05	0.73	0.90	0.84	1.92	0.29	0.84	1.20	9.47	67
1937	0.52	0.91	0.53	0.45	0.38	2.04	0.68	1.57	5.47	2.00	0.21	0.56	15.32	37
1938	0.90	0.40	0.22	0.42	0.06	1.61	1.84	3.57	1.72	2.27	0.83	2.79	16.63	32
1939	0.21	0.61	0.17	0.24	0.50	0.72	0.48	2.24	2.10	0.45	2.59	0.92	11.23	65
1940	0.92	0.00	0.23	0.44	0.49	0.80	4.79	0.66	1.23	1.68	0.54	1.59	13.37	54
1941	0.68	0.34	0.18	0.24	0.13	0.89	5.19	0.93	4.01	3.01	3.34	1.13	20.07	11
1942	0.87	0.28	0.62	0.04	0.40	1.01	3.51	4.68	3.66	3.53	0.71	1.80	21.11	7
1943	1.82	0.37	0.20	0.30	0.23	0.69	2.83	4.33	3.79	2.03	0.80	0.37	17.76	28
1944	1.30	0.02	0.20	0.92	0.60	0.43	2.38	3.68	2.80	4.35	1.62	0.18	18.48	20
1945	0.37	0.92	0.65	0.40	0.53	1.72	0.50	1.49	3.42	2.03	2.19	1.86	16.08	35
1946	0.06	0.03	0.60	0.24	0.34	0.94	1.16	7.18	3.09	1.31	1.03	3.38	19.36	14
1947	1.14	0.17	0.52	0.42	0.07	0.20	1.24	2.97	8.89	3.08	0.95	0.51	20.16	10
1948	0.91	1.25	0.25	0.03	0.64	0.51	1.84	1.83	3.68	2.62	2.60	0.50	16.66	31
1949	1.27	0.38	0.12	2.03	0.00	0.23	1.82	4.05	1.57	1.90	0.55	0.99	14.91	40
1950	0.81	0.03	0.31	0.22	0.04	0.88	1.72	1.69	0.82	2.24	1.61	1.82	12.19	60
1951	0.42	0.20	0.16	0.15	0.04	0.41	0.36	1.27	3.43	3.53	1.57	1.41	12.95	55
1952	1.04	0.09	0.41	0.00	0.67	0.89	0.29	3.22	2.72	0.42	1.00	0.17	10.92	66
1953	0.25	0.81	0.30	1.00	1.33	0.43	2.16	1.22	1.70	0.78	1.08	1.20	12.26	59
1954	0.06	0.08	0.32	0.12	0.55	1.26	0.44	3.54	1.72	2.31	0.47	0.67	11.54	64
1955	1.71	0.40	0.15	0.21	1.54	1.38	0.72	3.46	2.11	1.82	1.85	3.85	19.20	15
1956	0.28	0.91	0.61	0.11	0.28	0.39	1.35	4.45	2.25	1.14	1.56	0.16	13.49	52
1957	0.37	0.94	0.62	0.51	0.16	1.58	2.25	5.44	3.08	2.30	0.72	1.20	19.17	16
1958	1.73	0.28	0.10	0.06	0.89	1.14	2.69	1.09	2.66	5.34	0.32	0.06	16.36	33
1959	0.14	0.25	0.28	0.45	0.29	0.66	0.79	2.83	3.65	1.51	0.33	3.03	14.21	45
1960	0.26	0.59	0.25	0.38	0.63	0.27	0.98	0.85	2.30	0.53	0.67	0.21	7.92	68
1961	0.03	0.88	0.70	0.05	0.22	0.97	1.05	2.85	1.15	3.21	0.29	1.25	12.65	58
1962	0.52	0.32	0.32	0.20	0.86	0.81	0.26	5.67	4.77	4.17	0.52	0.56	18.98	18
1963	1.90	0.18	0.28	0.50	0.34	1.82	2.94	1.90	5.66	3.34	1.27	2.69	22.82	2
1964	0.93	0.01	0.23	0.16	0.64	1.06	2.08	3.02	4.31	0.44	0.79	0.25	13.92	49
1965	0.38	0.56	0.61	0.56	0.48	0.84	1.22	5.07	3.59	2.47	1.37	2.28	19.43	13
1966	0.29	0.21	0.30	0.30	0.69	0.37	2.42	0.27	0.82	3.85	2.76	1.96	14.24	44
1967	1.26	0.56	0.42	0.38	0.12	0.92	2.11	3.40	7.29	0.94	0.27	0.74	18.41	21
1968	0.45	0.26	0.79	0.27	0.17	0.76	1.15	2.96	5.59	2.31	2.30	0.95	17.96	25
1969	0.41	0.34	0.54	0.36	0.83	0.23	0.98	1.28	2.09	5.05	0.24	0.49	12.84	56
1970	1.09	0.25	0.22	0.18	0.25	1.09	2.31	1.61	2.52	2.27	0.71	1.75	14.25	43
1971	1.29	0.46	0.27	0.47	0.78	0.38	3.23	5.56	2.18	1.17	0.31	2.48	18.58	19
1972	1.40	0.64	0.25	0.32	0.14	0.72	1.47	2.54	3.89	1.58	1.58	0.66	15.19	38
1973	1.27	0.22	0.19	0.21	0.43	2.17	3.14	1.63	1.20	3.14	1.29	2.92	17.81	26
1974	1.42	0.70	0.65	0.57	0.13	0.25	2.44	0.91	1.14	2.04	1.92	1.30	13.47	53
1975	2.04	0.25	0.06	0.65	0.55	1.25	1.48	2.01	4.47	1.04	0.46	0.12	14.38	41
1976	0.52	0.33	0.90	0.54	0.62	0.65	3.15	2.34	3.15	3.84	1.33	0.80	18.17	24
1977	0.49	0.22	0.16	0.41	0.07	1.30	2.43	2.41	2.13	3.24	2.82	2.10	17.78	27
1978	0.86	1.04	0.51	0.46	0.66	0.27	1.68	4.16	1.42	3.28	2.75	0.36	17.45	29
1979	0.45	0.45	0.61	0.51	0.37	0.30	0.81	1.59	2.21	3.24	3.54	0.26	14.34	42
1980	0.81	0.21	0.01	0.33	0.42	1.30	1.17	2.25	2.21	1.56	2.14	0.34	12.75	57
1981	1.48	0.48	0.60	0.12	0.21	0.41	0.71	4.61	1.31	3.78	1.14	0.25	15.10	39
1982	1.92	0.10	0.58	0.49	0.22	1.11	1.00	5.82	4.66	1.85	2.18	2.48	22.41	4
1983	1.13	0.88	0.34	0.27	0.05	1.25	0.74	2.38	3.21	1.84	1.68	0.36	14.13	47
1984	1.59	1.40	0.75	0.28	0.33	1.11	3.37	2.47	3.04	2.19	1.13	0.54	18.20	23
1985	1.06	0.49	0.25	0.36	0.27	0.49	1.57	0.98	1.56	2.04	0.54	2.40	12.01	61
1986	0.72	1.52	0.22	0.17	0.87	0.63	3.23	1.23	4.47	1.77	1.08	3.17	19.08	17
1987	2.19	0.72	0.12	0.08	1.53	1.84	0.28	4.49	0.89	1.11	1.34	0.78	15.37	36
1988	0.40	0.74	0.78	0.21	0.18	0.55	0.58	2.82	2.35	1.77	2.40	0.99	13.77	51
1989	0.35	0.62	0.33	0.00	0.38	0.93	1.44	1.42	1.20	2.36	1.35	3.43	13.81	50
1990	0.74	0.25	0.39	0.05	0.39	1.17	2.16	5.11	1.88	2.77	0.89	1.58	17.38	30
1991	0.78	0.84	0.47	0.20	0.79	0.70	1.95	3.44	2.98	0.44	0.92	0.42	13.93	48
1992	1.06	0.91	0.07	0.36	0.65	1.65	0.69	4.90	2.52	3.95	1.43	0.20	18.39	22
1993	0.65	0.56	0.87	0.69	1.16	1.05	2.26	1.97	5.42	3.18	2.55	1.43	21.79	5
1994	1.60	0.81	0.50	0.47	0.46	0.63	1.07	1.42	2.19	1.46	0.51	0.60	11.72	63
1995	2.91	0.22	1.03	0.38	0.55	0.70	1.61	4.56	3.66	1.98	0.40	1.79	19.79	12
1996	1.68	0.39	0.15	0.63	0.06	0.80	2.56	3.90	1.73	0.46	2.34	1.53	16.23	34
1997	1.55	0.47	0.84	0.83	0.82	0.31	2.73	3.29	3.97	7.26	1.65	0.63	24.35	1
1998	1.01	0.09	0.12	0.56	0.89	2.14	0.60	3.86	4.29	2.83	3.95	2.27	22.61	3
Mean 1961-90	0.98	0.51	0.41	0.32	0.44	0.90	1.75	2.83	2.88	2.46	1.41	1.34	16.22	

Measured (shaded) and estimated precipitation, in inches, for site 24, Keystone (394556)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.03	0.65	0.20	0.30	0.31	0.91	0.93	1.63	1.77	1.25	2.28	0.27	13.53	60
1932	1.39	0.82	0.49	0.92	0.22	0.69	4.25	3.90	3.31	2.83	3.31	0.44	22.57	16
1933	1.74	0.17	0.39	0.47	0.46	1.14	3.47	6.04	1.25	2.36	3.68	0.49	21.66	23
1934	0.08	0.24	0.24	0.30	0.31	1.01	0.89	0.35	3.46	1.11	1.15	0.99	10.13	67
1935	2.07	0.36	0.57	0.14	0.51	0.95	1.96	5.76	2.98	1.81	0.54	0.94	18.59	33
1936	0.30	0.41	0.24	0.52	0.53	0.91	1.64	0.44	3.20	0.70	1.92	0.52	11.33	66
1937	0.83	0.96	0.16	0.39	0.38	1.18	0.40	2.35	2.92	3.12	0.73	0.74	14.16	58
1938	0.28	0.28	0.86	0.56	0.25	0.97	2.31	4.59	2.19	2.21	0.85	1.13	16.48	48
1939	0.39	0.75	0.36	0.48	0.32	1.06	1.07	1.99	2.08	1.66	3.76	1.18	15.10	55
1940	1.24	0.00	0.38	0.34	0.33	0.93	2.89	0.63	1.76	1.54	1.84	1.71	13.59	59
1941	1.13	0.29	0.40	0.10	0.11	0.90	5.28	1.79	4.53	2.22	2.86	1.42	21.03	25
1942	2.45	0.16	0.42	0.06	0.43	0.97	3.97	3.46	3.85	1.78	1.63	1.72	20.90	26
1943	1.61	0.36	0.29	0.68	0.50	1.03	3.61	3.15	4.81	1.81	0.48	0.23	18.56	34
1944	1.00	0.29	0.18	1.56	0.43	0.85	1.39	3.13	3.76	3.65	0.56	0.26	17.06	45
1945	0.80	1.20	0.38	0.50	0.39	2.00	0.80	2.27	3.60	1.44	3.38	1.65	18.41	35
1946	0.08	0.12	0.22	0.14	0.28	1.33	1.34	7.34	3.69	2.33	2.15	3.26	22.28	18
1947	2.29	0.17	0.30	0.69	0.11	0.77	1.94	2.32	7.61	1.40	2.13	0.37	20.10	28
1948	1.17	0.89	0.13	0.38	0.42	0.33	1.83	1.72	4.34	2.71	1.70	0.48	16.10	52
1949	0.92	0.61	0.63	1.63	0.09	0.47	1.59	4.00	3.39	2.30	2.08	1.06	18.77	32
1950	0.98	0.07	0.46	0.32	0.16	1.82	1.57	1.81	1.53	2.42	1.89	2.39	15.42	53
1951	0.35	0.18	0.10	0.14	0.23	0.61	0.79	2.21	4.73	2.45	2.38	2.15	16.32	51
1952	1.10	0.25	0.52	0.08	0.44	0.80	0.30	7.46	3.00	1.78	1.85	0.31	17.89	41
1953	0.34	0.42	0.11	0.76	1.42	1.09	3.08	1.41	3.03	1.23	3.07	0.50	16.46	49
1954	0.20	0.66	0.20	0.16	0.45	1.32	0.39	2.35	1.78	1.53	2.31	0.33	11.68	65
1955	1.86	0.60	0.20	0.27	0.96	1.30	1.08	2.01	3.14	2.59	2.28	2.11	18.40	36
1956	0.27	0.74	0.76	0.46	0.49	0.77	1.50	3.97	1.29	3.24	3.03	0.21	16.73	47
1957	0.29	1.77	0.37	0.32	0.17	0.62	2.68	6.67	4.37	2.43	1.46	0.71	21.86	20
1958	1.18	0.32	0.23	0.25	0.63	0.84	3.05	1.88	3.73	3.99	0.72	0.14	16.96	46
1959	0.12	0.64	0.29	0.29	0.52	1.29	1.88	2.99	4.39	2.32	0.48	2.56	17.77	42
1960	0.20	1.02	0.11	0.30	0.54	0.33	1.68	1.82	2.92	1.55	1.55	0.95	12.97	63
1961	0.03	0.59	0.55	0.03	0.39	1.05	1.30	1.93	1.51	3.32	0.97	1.51	13.18	61
1962	1.06	0.20	0.13	0.37	1.31	0.72	0.45	10.57	6.17	7.36	0.57	1.27	30.18	5
1963	1.67	0.48	0.03	0.53	0.35	1.82	5.16	1.92	8.17	3.52	1.43	3.05	28.13	8
1964	0.91	0.05	0.31	0.33	0.42	0.62	1.30	3.49	6.76	3.24	0.97	1.09	19.49	30
1965	0.11	0.34	1.75	0.99	0.18	0.79	1.81	8.91	7.32	4.87	2.91	2.47	32.45	2
1966	0.17	0.21	0.41	0.24	0.92	0.69	3.64	0.09	0.79	4.23	3.84	2.37	17.60	43
1967	0.87	0.46	0.87	0.28	0.48	0.65	2.71	4.11	7.65	1.55	1.48	1.36	22.47	17
1968	0.35	0.42	0.62	0.66	0.25	0.48	1.25	2.66	6.25	1.89	3.20	1.47	19.50	29
1969	0.09	0.42	0.66	0.40	1.17	0.63	1.60	2.30	4.38	6.97	0.87	1.10	20.59	27
1970	1.54	0.22	0.20	0.28	0.34	1.65	3.81	5.43	3.56	1.94	2.01	1.77	22.75	15
1971	1.15	0.72	0.56	1.13	0.76	1.72	5.81	7.44	2.31	1.88	1.65	2.82	27.95	9
1972	1.48	1.04	0.39	0.29	0.35	0.77	1.83	3.31	9.12	2.89	2.91	0.51	24.89	11
1973	0.89	0.25	0.44	0.11	0.24	2.89	3.57	1.26	2.04	3.72	1.20	1.62	18.23	38
1974	0.51	0.88	0.69	0.58	0.20	0.19	0.90	1.61	1.60	2.78	1.41	1.17	12.52	64
1975	2.17	0.19	0.12	0.71	0.75	1.15	2.65	2.37	4.67	1.28	1.09	0.13	17.28	44
1976	0.37	0.40	0.78	0.15	1.13	0.44	4.01	3.80	5.70	3.69	2.26	0.86	23.59	14
1977	0.13	0.24	0.19	0.29	0.23	1.72	1.67	1.37	2.99	4.77	2.49	2.05	18.14	40
1978	0.91	0.56	0.73	0.40	0.79	0.26	2.35	7.44	1.57	4.48	1.68	0.67	21.84	21
1979	0.40	0.67	0.65	0.32	0.37	0.38	0.96	1.64	4.55	8.31	2.91	0.17	21.33	24
1980	0.61	0.20	0.11	0.24	0.28	0.81	1.34	2.31	2.74	2.75	3.17	0.61	15.17	54
1981	1.99	0.28	0.40	0.04	0.11	0.18	0.66	6.90	1.28	4.30	1.65	0.40	18.19	39
1982	2.41	0.07	0.78	0.56	0.36	0.98	0.85	5.40	4.13	2.24	2.12	2.13	22.03	19
1983	1.51	0.34	0.58	0.14	0.07	1.46	0.68	3.32	2.95	0.74	2.13	0.36	14.28	57
1984	2.48	1.23	0.48	0.10	0.23	0.41	2.91	2.10	6.00	3.67	1.23	0.98	21.82	22
1985	0.67	0.41	0.27	0.24	0.01	0.89	0.54	0.80	1.12	1.80	0.65	2.50	9.90	68
1986	0.45	1.83	0.74	0.09	0.97	0.72	3.34	1.64	5.53	1.16	1.95	5.89	24.31	12
1987	1.69	0.55	0.00	0.05	1.50	2.15	0.04	4.85	0.74	1.62	2.61	0.60	16.40	50
1988	0.70	0.06	0.36	0.30	0.27	0.34	0.79	1.79	3.81	2.13	2.14	0.31	13.00	62
1989	0.56	1.31	0.29	0.05	0.77	0.98	1.91	1.77	2.42	1.72	2.15	5.23	19.16	31
1990	1.22	0.37	0.65	0.03	0.72	1.59	2.10	6.80	2.17	5.68	1.23	1.15	23.71	13
1991	0.61	0.93	0.59	0.34	0.76	0.52	4.51	8.42	8.53	2.84	1.46	0.87	30.38	3
1992	1.47	1.44	0.00	0.24	0.37	2.19	1.00	2.77	3.04	3.50	1.61	0.73	18.36	37
1993	0.87	1.54	1.06	1.07	1.17	1.05	3.45	6.53	5.67	3.77	1.75	1.20	29.13	7
1994	1.11	0.50	0.40	0.44	0.86	0.72	1.73	2.48	1.94	0.96	3.10	0.76	15.00	56
1995	4.98	0.36	0.44	0.18	0.78	1.68	3.26	9.63	5.65	3.50	1.08	1.75	33.29	1
1996	3.47	0.38	0.16	1.07	0.13	1.81	2.65	8.09	2.59	2.45	4.71	2.19	29.70	6
1997	5.78	0.50	0.88	0.09	1.10	0.51	3.45	6.79	2.05	4.48	1.98	2.72	30.33	4
1998	0.94	0.11	0.29	0.75	1.25	2.81	1.06	3.29	6.04	3.39	3.67	2.53	26.13	10
Mean 1961-90	0.97	0.50	0.49	0.33	0.53	0.97	2.06	3.64	4.00	3.35	1.90	1.59	20.34	

Measured (shaded) and estimated precipitation, in inches, for site 25, Lead (394834)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.96	0.79	1.03	0.56	0.49	1.63	1.25	1.98	1.09	1.76	2.87	0.38	16.79	66
1932	1.57	0.74	0.40	1.03	0.17	1.14	7.24	5.70	3.56	2.59	1.39	0.52	26.05	34
1933	3.28	0.56	0.87	0.48	1.04	2.09	4.39	7.43	2.15	1.78	3.18	0.58	27.83	28
1934	0.48	0.61	0.61	1.32	0.42	1.45	1.38	0.47	3.97	0.73	1.04	1.09	13.57	67
1935	1.99	0.84	0.52	0.09	0.68	1.59	1.95	4.08	3.22	3.44	0.80	0.52	19.72	62
1936	0.48	0.47	1.04	0.86	0.54	1.51	2.64	0.84	1.42	1.00	0.57	1.24	12.61	68
1937	1.21	0.78	0.23	0.52	0.63	1.04	0.71	4.00	4.74	5.50	1.25	1.26	21.87	58
1938	0.21	0.66	1.54	1.55	0.38	0.83	3.02	4.59	2.91	2.51	0.67	3.01	21.88	57
1939	0.18	1.06	0.95	1.30	1.07	0.54	3.60	1.23	3.65	0.74	3.08	1.06	18.46	64
1940	1.34	0.08	0.76	0.45	1.10	1.89	4.89	2.52	3.49	1.15	2.37	1.93	21.97	55
1941	0.85	0.75	0.58	0.30	0.31	1.24	5.54	1.84	8.88	2.51	0.84	2.65	26.29	32
1942	1.57	0.77	0.84	0.50	0.70	1.14	3.54	7.06	4.31	1.06	1.34	2.18	25.01	38
1943	2.10	1.23	1.09	1.09	0.89	1.43	2.87	1.83	5.11	1.19	0.72	0.32	19.87	61
1944	1.73	1.66	0.95	2.67	1.05	2.11	1.89	2.37	4.61	2.92	0.70	0.37	23.03	49
1945	1.17	3.86	1.19	1.22	1.06	2.58	1.59	3.66	6.86	2.04	1.37	3.97	30.57	22
1946	0.59	0.42	1.09	0.86	1.24	3.21	2.99	15.31	5.38	1.01	0.72	5.04	37.86	6
1947	3.11	0.45	0.77	1.07	1.09	1.45	2.55	1.00	9.15	3.20	0.83	0.85	25.52	35
1948	1.55	1.86	0.19	1.59	1.00	0.52	2.84	1.49	5.68	2.74	2.04	0.89	22.39	54
1949	1.15	4.18	0.57	4.78	0.71	1.06	3.01	3.03	1.71	0.77	0.74	1.09	22.80	51
1950	1.45	0.71	1.16	0.50	0.52	4.61	2.63	2.31	1.61	2.26	2.94	4.18	24.88	39
1951	0.72	1.07	0.40	0.49	0.39	1.35	1.25	2.57	4.31	2.26	4.55	2.31	21.67	59
1952	2.12	1.23	3.38	0.26	0.85	1.72	0.45	9.35	1.03	3.47	1.15	0.10	25.11	36
1953	0.18	0.85	0.54	1.92	2.34	1.11	4.01	4.28	3.84	1.69	2.67	0.32	23.75	44
1954	0.34	1.25	1.16	0.42	1.72	3.28	1.29	4.78	3.41	1.96	2.73	0.39	22.73	52
1955	2.02	1.05	1.14	2.03	1.38	2.06	6.37	3.70	6.10	1.76	1.41	3.04	32.06	16
1956	1.70	1.27	1.75	0.70	0.51	2.30	2.47	4.79	2.61	1.82	3.66	1.28	24.86	40
1957	0.79	6.30	0.89	0.87	0.27	2.19	2.78	6.03	4.67	3.55	1.24	1.35	30.93	20
1958	1.01	2.38	0.72	0.83	2.06	0.58	5.52	1.66	3.78	8.78	1.50	0.04	28.86	25
1959	2.01	1.94	1.33	1.48	2.08	1.89	2.34	2.95	3.95	0.57	0.22	1.77	22.53	53
1960	1.12	3.75	1.55	0.74	1.78	2.17	2.84	1.30	3.48	1.28	2.41	0.88	23.30	47
1961	0.83	1.08	2.49	0.24	1.14	0.61	2.83	0.63	2.09	1.97	0.57	2.95	17.43	65
1962	1.47	1.15	1.92	2.09	1.13	1.38	2.93	13.52	8.57	3.85	1.50	3.23	42.74	2
1963	2.26	1.05	1.25	2.58	4.31	3.02	6.81	2.21	5.42	3.28	0.37	1.87	34.43	12
1964	1.09	0.30	1.94	1.56	4.32	2.22	2.93	5.63	10.02	0.83	7.77	0.74	39.35	4
1965	0.57	1.48	1.87	2.71	1.96	1.62	3.82	14.84	4.13	2.34	2.31	3.24	40.89	3
1966	0.00	0.34	0.46	0.33	1.16	3.35	5.74	0.99	1.13	1.87	4.16	4.01	23.54	46
1967	2.06	0.66	0.85	1.24	2.03	1.18	5.31	2.66	6.27	1.25	0.32	4.79	28.62	27
1968	1.23	0.82	1.79	0.51	0.92	0.82	2.39	2.67	5.66	4.08	3.66	2.98	27.53	29
1969	0.48	1.46	1.57	0.91	0.79	1.69	5.48	2.36	3.82	2.41	0.79	0.21	21.97	56
1970	1.65	1.39	3.04	1.87	1.47	2.97	5.37	5.25	4.85	2.08	2.56	1.94	34.44	11
1971	2.42	3.94	1.26	2.28	2.66	3.22	3.23	5.51	3.35	0.74	0.95	5.38	34.94	10
1972	4.37	1.95	0.63	1.31	0.90	1.72	3.73	6.83	6.63	2.52	3.20	0.35	34.14	14
1973	1.57	0.62	1.74	0.47	0.78	7.59	6.69	4.54	2.82	1.93	0.90	2.17	31.82	17
1974	2.04	0.95	2.13	0.65	1.44	1.45	4.60	1.90	1.39	3.63	3.06	1.06	24.30	42
1975	1.45	1.50	1.75	2.43	1.47	3.39	5.26	2.66	4.56	0.82	0.79	0.32	26.40	31
1976	1.49	1.44	2.26	1.55	1.61	1.38	4.83	3.10	11.88	1.57	0.64	1.32	33.07	15
1977	1.10	2.07	1.79	2.30	2.73	7.25	2.88	1.42	2.44	1.75	2.79	1.92	30.44	23
1978	2.37	2.19	1.37	0.51	1.60	0.60	6.02	6.66	2.07	4.74	2.34	0.40	30.87	21
1979	0.93	1.54	1.44	1.00	1.13	1.06	1.84	2.20	3.31	4.17	4.01	0.41	23.04	48
1980	1.97	1.51	0.67	1.09	0.61	1.42	2.15	3.06	2.66	1.29	2.74	1.16	20.33	60
1981	2.58	1.23	1.40	0.67	0.47	0.18	0.62	6.36	2.36	4.40	1.24	1.51	23.02	50
1982	1.48	0.93	0.73	1.28	0.73	2.48	2.42	12.26	3.33	3.31	2.58	2.63	34.16	13
1983	7.67	1.01	1.74	1.58	0.33	3.11	3.03	4.02	1.34	1.64	4.83	0.82	31.12	19
1984	2.08	2.30	0.96	0.91	1.25	2.76	6.62	2.25	5.78	2.38	1.65	0.97	29.91	24
1985	0.90	1.73	1.26	1.00	0.45	2.56	1.57	3.05	2.44	0.74	0.29	2.61	18.60	63
1986	0.94	1.65	3.18	1.63	1.49	1.12	6.90	2.33	4.98	2.57	0.54	4.38	31.71	18
1987	2.90	2.15	0.12	1.16	1.68	4.38	1.10	4.80	1.03	1.07	4.49	1.37	26.25	33
1988	1.07	0.83	1.07	1.32	1.87	5.46	1.00	3.97	2.61	0.80	1.48	2.79	24.27	43
1989	1.46	1.75	1.17	0.37	1.13	2.14	5.98	3.09	3.16	2.98	1.63	2.20	27.06	30
1990	2.43	2.61	3.30	0.84	0.99	1.97	3.30	3.52	1.55	2.78	0.55	1.25	25.09	37
1991	1.32	1.03	1.30	1.46	2.64	1.86	3.91	5.39	2.62	1.63	0.62	0.61	24.39	41
1992	1.81	2.71	0.23	0.97	1.06	2.38	4.31	2.74	3.11	2.11	1.27	0.98	23.68	45
1993	1.25	3.09	1.85	1.20	1.19	1.79	4.22	4.50	7.63	5.66	2.37	1.51	36.26	9
1994	2.38	2.81	3.90	3.38	1.32	2.66	4.42	1.82	1.18	3.25	0.61	0.90	28.63	26
1995	9.30	2.38	0.36	0.79	1.29	2.23	4.13	10.73	4.13	5.54	0.79	1.91	43.58	1
1996	6.94	1.76	0.89	2.37	0.87	4.00	2.61	6.12	1.95	1.99	4.04	2.85	36.39	8
1997	5.99	1.36	3.26	1.83	2.18	2.02	4.99	4.33	1.90	8.29	2.00	0.77	38.92	5
1998	1.75	2.51	1.75	0.80	3.93	2.50	1.17	1.77	9.95	3.37	5.56	2.57	37.63	7
Mean 1961-90	1.83	1.45	1.57	1.28	1.49	2.47	3.91	4.48	4.06	2.33	2.16	2.03	29.05	

Measured (shaded) and estimated precipitation, in inches, for site 26, Lead 6SSW (394836)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.36	0.77	1.37	0.91	0.52	2.58	1.50	1.37	1.15	1.34	1.68	0.23	14.78	66
1932	0.92	1.07	0.36	1.88	0.14	1.43	5.37	4.91	3.46	2.30	1.33	0.42	23.59	41
1933	2.59	0.63	0.82	1.32	0.84	1.69	3.97	5.52	1.35	0.83	1.84	0.40	21.80	51
1934	0.34	0.51	0.76	1.21	0.46	1.29	1.23	0.50	4.08	0.41	1.36	1.41	13.56	67
1935	0.96	0.73	0.83	0.07	1.08	1.91	2.02	3.20	2.71	3.97	0.80	0.53	18.81	62
1936	0.39	0.98	0.84	1.05	0.52	1.31	1.44	0.43	1.29	1.25	1.28	0.59	11.37	68
1937	0.91	0.57	0.25	0.45	0.56	0.96	0.40	2.77	4.14	4.89	1.13	1.30	18.33	63
1938	0.35	0.91	1.60	2.72	0.45	0.90	3.15	4.40	2.23	1.93	0.57	1.22	20.43	56
1939	0.13	1.25	1.36	1.68	1.06	0.95	3.76	1.86	3.09	0.96	3.23	0.82	20.15	58
1940	1.46	0.03	0.87	0.54	1.12	1.59	3.96	1.64	2.74	1.80	2.78	1.61	20.14	59
1941	1.01	0.69	0.59	0.15	0.18	1.61	6.07	2.87	7.87	2.60	1.70	1.79	27.13	25
1942	2.00	0.67	0.85	0.52	0.76	1.83	3.19	5.43	4.56	1.85	1.83	2.34	25.83	30
1943	2.54	1.70	1.26	1.56	1.24	1.39	3.17	2.83	5.22	1.71	1.02	0.63	24.27	39
1944	1.76	2.06	0.54	3.16	0.83	1.98	1.95	2.62	4.78	2.33	0.67	0.61	23.29	44
1945	1.07	3.27	0.98	1.32	1.06	2.56	1.82	4.02	5.22	1.41	2.69	3.62	29.04	17
1946	0.47	0.41	1.00	0.90	1.19	2.67	2.71	13.01	5.05	2.20	0.94	5.18	35.73	3
1947	3.28	0.38	1.11	1.35	1.36	1.68	2.95	1.29	8.63	2.50	0.91	0.63	26.07	28
1948	1.70	1.79	0.19	2.08	1.00	0.34	2.90	1.75	5.95	4.04	2.12	0.68	24.54	36
1949	0.91	3.71	0.56	3.70	0.45	0.73	2.62	3.29	2.63	1.43	0.79	0.96	21.78	52
1950	1.30	0.88	1.05	0.54	0.52	4.47	2.58	2.18	2.05	3.02	2.68	3.66	24.93	34
1951	0.67	1.23	0.47	0.48	0.37	1.46	1.52	2.89	4.79	2.89	3.29	2.46	22.52	47
1952	1.74	1.52	3.18	0.22	0.72	1.61	0.65	9.03	1.62	2.75	1.37	0.51	24.92	35
1953	0.18	1.06	0.59	2.16	2.48	1.27	3.96	4.25	3.88	2.17	3.87	0.46	26.33	26
1954	0.40	1.20	1.41	0.36	1.54	3.16	0.77	4.11	2.46	1.67	2.54	1.00	20.62	55
1955	1.87	1.00	1.42	1.91	1.18	1.57	4.39	3.29	4.66	2.62	1.50	2.84	28.25	18
1956	1.40	1.24	1.22	0.65	0.42	1.74	1.82	4.19	2.19	2.45	3.71	0.85	21.88	50
1957	0.86	3.88	0.72	0.75	0.26	1.70	2.10	5.89	4.35	3.67	2.08	1.02	27.28	23
1958	0.91	1.53	0.65	0.84	1.56	0.54	4.02	1.88	3.72	5.62	1.90	0.28	23.45	43
1959	1.59	1.51	0.91	1.20	1.72	1.60	1.88	3.00	4.01	0.68	0.16	1.97	20.23	57
1960	0.90	2.95	1.04	0.49	1.55	1.65	2.19	1.55	5.76	1.36	3.50	1.25	24.19	40
1961	0.39	0.86	2.01	0.24	0.96	0.63	2.61	0.98	1.70	2.76	0.61	2.76	16.51	65
1962	1.01	0.72	1.50	1.49	0.97	0.95	2.23	11.04	7.09	4.23	1.08	2.24	34.55	4
1963	1.68	0.72	1.08	1.97	3.41	2.12	5.51	2.95	6.34	2.10	0.26	2.04	30.18	15
1964	0.92	0.24	1.45	1.16	3.38	1.61	2.72	5.25	9.36	0.72	6.53	0.74	34.08	5
1965	0.52	1.09	1.75	2.19	1.04	1.07	2.79	10.72	4.69	2.21	1.79	2.84	32.70	7
1966	0.00	0.55	0.42	0.43	1.06	2.71	4.07	0.58	1.36	3.13	2.93	2.35	19.59	60
1967	1.92	0.81	0.96	1.30	2.31	0.80	3.95	3.14	6.31	1.82	0.81	4.03	28.16	19
1968	1.34	0.90	1.98	0.66	0.94	0.63	1.98	3.24	5.80	3.51	3.48	2.74	27.20	24
1969	0.54	1.76	1.40	1.07	0.72	1.38	4.67	2.68	3.96	3.61	1.40	0.29	23.48	42
1970	1.69	1.31	2.18	1.49	0.99	2.48	4.37	5.38	4.16	3.11	1.54	1.79	30.49	13
1971	1.99	2.65	0.97	1.88	1.95	2.64	3.48	6.19	2.55	0.94	1.61	4.29	31.14	11
1972	3.43	1.48	0.51	1.07	0.77	1.43	2.99	7.98	5.29	2.63	4.38	0.31	32.27	8
1973	1.06	0.65	1.19	0.25	0.54	3.87	4.91	3.19	3.67	1.95	1.59	2.45	25.32	32
1974	1.55	0.81	2.08	0.41	0.92	0.83	3.24	1.75	2.34	3.82	2.60	1.29	21.64	54
1975	1.42	1.19	1.73	2.52	1.11	2.94	4.18	2.51	5.13	1.11	0.79	0.33	24.96	33
1976	1.26	1.10	1.77	1.31	1.56	1.20	3.79	3.60	9.65	2.75	0.88	1.64	30.51	12
1977	0.79	1.48	1.32	1.97	2.20	5.00	2.48	1.76	2.54	1.77	2.83	1.95	26.09	27
1978	1.94	1.60	1.17	0.45	1.42	0.54	4.96	6.05	2.45	4.68	2.12	0.45	27.83	20
1979	0.96	1.36	1.41	0.82	1.10	0.91	1.59	2.37	3.85	4.41	3.81	0.46	23.05	46
1980	1.56	1.07	0.55	0.77	0.53	1.21	2.12	3.36	2.20	1.36	3.08	1.10	18.91	61
1981	1.97	0.99	1.17	0.38	0.31	0.17	0.52	5.85	2.65	4.90	1.12	1.72	21.75	53
1982	1.41	0.90	0.69	1.12	0.87	2.56	2.24	10.14	3.56	3.54	2.43	2.34	31.80	10
1983	6.81	0.84	1.49	1.37	0.30	2.49	2.60	3.54	1.33	1.86	4.27	0.71	27.61	21
1984	2.11	2.10	0.90	0.83	0.95	2.26	5.74	1.98	5.51	2.05	2.24	0.92	27.59	22
1985	0.93	1.57	0.93	0.85	0.51	2.08	1.41	2.27	2.40	0.80	0.66	2.42	16.83	64
1986	0.93	1.66	2.68	1.39	1.47	1.09	5.59	2.22	4.58	2.46	0.74	4.50	29.31	16
1987	2.83	1.84	0.12	0.97	1.49	3.58	0.89	4.06	0.96	1.14	3.97	1.31	23.16	45
1988	0.85	0.84	0.90	1.10	1.53	4.01	0.91	4.44	2.76	0.75	1.59	2.30	21.98	49
1989	1.48	1.47	1.24	0.36	0.97	1.53	4.69	2.89	2.79	2.28	2.86	1.89	24.45	37
1990	0.93	1.98	2.57	0.82	0.94	1.80	2.86	2.29	0.95	3.65	2.30	1.42	22.51	48
1991	1.03	0.76	1.27	1.28	2.15	1.43	3.84	6.02	2.49	2.39	0.61	1.17	24.44	38
1992	1.76	1.93	0.25	0.81	0.94	2.28	3.69	3.26	4.35	1.90	3.37	1.45	25.99	29
1993	1.00	2.52	1.44	1.14	1.06	1.26	3.76	3.91	6.51	4.22	2.15	1.44	30.41	14
1994	2.20	2.33	2.94	3.02	1.28	1.97	3.88	2.02	1.34	3.17	0.91	0.63	25.69	31
1995	8.42	2.11	0.34	0.66	1.05	1.83	3.45	10.75	4.33	3.94	0.74	1.84	39.46	1
1996	4.99	1.47	0.70	2.10	0.67	3.60	2.71	5.63	1.71	1.85	3.49	2.93	31.85	9
1997	5.42	1.07	2.47	1.40	1.99	1.46	4.84	4.25	2.47	7.57	4.07	0.83	37.84	2
1998	1.63	1.49	1.63	0.82	2.91	2.14	1.48	1.63	8.61	4.24	4.86	2.37	33.81	6
Mean 1961-90	1.54	1.22	1.34	1.09	1.24	1.88	3.20	4.15	3.93	2.54	2.21	1.85	26.19	

Measured (shaded) and estimated precipitation, in inches, for site 27, Moon (395744)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.89	0.49	0.49	0.54	0.40	1.41	1.08	1.63	1.49	1.24	1.12	0.37	12.15	66
1932	1.01	0.70	0.38	1.18	0.25	0.89	4.76	3.57	3.60	3.21	2.73	0.71	22.99	15
1933	2.23	0.46	0.71	0.91	0.89	1.15	3.27	5.06	1.88	1.61	2.46	0.68	21.31	25
1934	0.24	0.42	0.39	0.58	0.44	0.97	0.97	0.45	4.21	0.57	2.23	1.13	12.60	65
1935	1.26	0.46	0.69	0.21	0.60	1.09	1.36	4.37	2.78	2.50	0.80	0.79	16.91	49
1936	0.40	0.62	0.47	0.70	0.67	0.87	1.26	0.27	2.21	1.40	1.29	0.39	10.55	68
1937	0.78	0.75	0.28	0.57	0.48	0.97	0.48	1.96	3.30	3.50	1.04	0.97	15.08	57
1938	0.26	0.49	1.08	1.21	0.40	1.06	1.95	4.26	1.74	1.87	0.75	0.97	16.04	53
1939	0.26	0.75	0.67	0.93	0.59	0.84	1.68	1.73	3.12	1.61	4.01	0.87	17.06	47
1940	1.04	0.03	0.56	0.47	0.53	1.04	2.84	0.90	2.09	1.11	0.91	1.69	13.21	61
1941	1.28	0.37	0.49	0.16	0.19	1.00	4.28	2.20	5.29	3.17	2.57	1.96	22.96	16
1942	2.02	0.41	0.52	0.17	0.39	1.21	3.18	3.09	3.66	1.93	2.15	1.99	20.72	28
1943	1.88	0.97	0.68	0.83	0.65	1.16	2.83	2.59	3.73	2.13	1.41	0.31	19.17	34
1944	1.38	0.71	0.15	1.43	0.32	1.11	1.09	2.80	3.79	2.60	0.43	0.44	16.25	51
1945	0.68	1.29	0.47	0.83	0.60	1.44	1.07	3.58	3.18	1.76	3.92	2.51	21.33	24
1946	0.11	0.22	0.76	0.40	0.54	1.61	1.90	7.58	4.05	2.35	1.43	3.77	24.72	7
1947	2.85	0.27	0.72	0.94	0.42	1.03	2.08	1.73	6.71	1.47	1.05	0.51	19.78	30
1948	1.26	1.53	0.14	0.87	0.65	0.25	2.32	1.27	4.15	3.06	2.04	0.97	18.51	40
1949	0.50	1.14	0.14	1.39	0.13	0.49	1.76	2.28	3.71	1.30	0.92	0.92	14.68	59
1950	0.99	0.37	0.85	0.34	0.60	2.28	1.95	2.08	1.25	2.80	1.81	2.40	17.72	44
1951	0.93	0.42	0.42	0.37	0.34	0.72	1.01	1.18	5.02	2.44	3.90	3.65	20.40	29
1952	0.93	1.17	1.13	0.17	0.41	1.03	0.36	6.28	2.36	2.52	1.92	0.23	18.51	41
1953	0.19	0.72	0.19	0.89	0.86	1.14	2.58	1.67	3.06	1.32	2.84	0.12	15.58	55
1954	0.30	0.61	0.39	0.11	0.52	1.05	0.14	2.46	1.78	2.17	2.09	0.33	11.95	67
1955	1.83	0.42	0.14	0.58	0.64	1.01	0.98	2.76	3.35	2.77	2.68	1.89	19.05	36
1956	0.39	0.92	1.03	0.47	0.35	0.98	1.73	3.70	1.52	2.24	2.28	0.22	15.83	54
1957	0.57	1.44	0.51	0.52	0.26	1.21	1.68	4.80	4.38	2.67	1.84	0.86	20.74	27
1958	0.88	0.88	0.67	0.45	0.83	0.98	2.32	1.21	3.85	4.76	1.76	0.21	18.80	38
1959	0.93	0.89	0.57	0.59	1.37	1.26	1.38	2.98	4.89	1.26	0.41	2.01	18.54	39
1960	0.54	1.35	0.23	0.26	1.07	0.57	1.68	1.31	2.98	0.68	1.30	1.18	13.15	63
1961	0.06	0.65	0.81	0.07	0.44	0.83	1.47	1.52	1.33	3.10	1.02	1.90	13.20	62
1962	0.77	0.41	0.64	0.83	1.08	0.50	1.00	7.44	4.47	3.10	1.17	1.50	22.91	17
1963	0.49	0.27	0.49	0.93	1.34	0.93	4.68	2.87	5.48	2.79	0.95	2.52	23.74	10
1964	0.77	0.20	0.79	0.53	1.69	0.75	1.85	4.09	7.29	0.60	3.72	0.78	23.06	14
1965	0.21	0.42	1.61	1.41	0.33	0.62	1.53	7.47	4.95	4.41	1.64	1.86	26.46	3
1966	0.02	0.53	0.26	0.29	0.84	0.80	3.12	0.14	1.53	4.23	3.17	1.63	16.56	50
1967	1.18	0.62	0.95	0.64	0.95	0.72	2.33	2.74	4.99	1.72	1.97	3.14	21.95	18
1968	0.90	0.46	1.04	0.48	0.45	0.31	1.09	2.38	4.68	2.74	2.85	1.55	18.93	37
1969	0.26	1.00	0.76	0.54	1.04	0.69	3.18	2.48	4.53	4.97	1.03	1.15	21.63	21
1970	0.86	1.05	0.72	1.04	0.38	1.66	2.68	2.97	2.39	2.26	0.84	0.92	17.77	43
1971	0.99	0.76	0.71	1.21	1.03	1.22	4.42	3.82	2.57	1.25	1.32	2.35	21.65	20
1972	2.61	0.93	0.39	0.97	0.54	0.85	1.64	3.91	4.67	2.92	3.54	0.88	23.85	9
1973	0.83	0.48	0.57	0.19	0.37	2.40	3.36	1.65	4.12	2.66	1.85	3.19	21.67	19
1974	0.49	0.71	1.07	0.67	0.55	0.29	1.41	1.47	0.89	3.15	3.79	0.97	15.46	56
1975	1.83	0.51	0.86	1.20	0.48	1.97	3.07	2.37	4.80	0.70	0.53	0.19	18.51	42
1976	0.85	0.56	1.14	0.60	1.31	0.54	2.13	3.32	6.26	2.57	1.26	0.90	21.44	23
1977	0.38	1.39	0.64	1.80	1.24	1.80	2.06	2.16	2.53	2.50	3.37	1.74	21.61	22
1978	1.27	1.07	0.93	0.43	1.25	0.50	3.09	6.87	1.92	3.88	1.44	0.69	23.34	12
1979	0.96	0.87	1.34	0.83	0.96	0.32	0.97	2.07	3.74	5.12	3.70	0.38	21.26	26
1980	0.53	0.85	0.54	0.56	0.57	1.12	1.20	3.80	1.92	1.78	2.50	0.78	16.15	52
1981	1.55	0.43	0.80	0.14	0.21	0.36	0.68	4.69	1.08	4.81	1.72	0.90	17.37	45
1982	1.40	0.26	0.83	0.96	1.54	2.64	1.65	4.72	3.33	3.23	1.97	2.04	24.57	8
1983	2.24	0.41	0.71	0.68	0.19	1.23	1.06	2.11	2.34	1.21	4.41	0.55	17.14	46
1984	2.73	1.56	0.69	0.40	0.27	0.83	3.00	1.56	3.52	2.55	1.32	0.93	19.36	31
1985	0.89	1.01	0.39	0.35	0.40	1.24	0.90	1.11	1.65	2.06	1.03	1.66	12.69	64
1986	0.69	1.52	0.92	0.44	1.45	0.67	3.36	1.83	5.38	1.51	1.16	4.45	23.38	11
1987	1.88	1.26	0.06	0.36	1.52	1.00	0.23	3.78	0.84	1.30	1.41	1.13	14.77	58
1988	0.78	0.54	0.25	0.48	0.72	0.74	0.84	3.25	2.28	1.53	1.92	1.13	14.46	60
1989	0.47	1.11	0.62	0.20	0.64	1.01	2.67	2.39	1.98	0.99	2.19	2.76	17.03	48
1990	1.21	1.31	1.49	0.56	0.95	1.59	1.70	3.13	0.99	3.32	1.84	1.08	19.17	35
1991	1.14	0.59	1.14	0.88	1.01	1.08	3.33	6.26	3.60	1.77	1.67	0.74	23.21	13
1992	0.79	1.47	0.23	0.56	0.70	1.69	2.30	2.85	2.31	3.50	2.24	0.68	19.32	32
1993	0.57	1.32	1.43	0.87	0.89	0.69	2.12	4.62	6.80	3.61	1.99	1.09	26.00	5
1994	1.23	0.96	1.85	1.98	1.43	1.12	3.50	1.91	1.40	1.96	1.28	0.66	19.28	33
1995	4.61	1.54	0.42	0.21	1.12	2.11	2.21	4.72	4.08	2.61	1.37	1.79	26.79	2
1996	2.67	0.78	0.40	1.92	0.57	2.95	2.57	5.40	2.55	2.28	3.51	1.56	27.16	1
1997	3.41	1.01	1.99	0.97	1.01	0.80	2.60	2.66	2.06	5.25	1.24	1.83	24.83	6
1998	1.38	0.77	1.24	0.89	1.37	2.14	1.01	2.87	6.14	1.91	4.29	2.12	26.13	4
Mean 1961-90	1.00	0.77	0.77	0.66	0.82	1.00	2.08	3.14	3.28	2.63	2.02	1.52	19.70	

Measured (shaded) and estimated precipitation, in inches, for site 28, Mt. Coolidge (395854)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.50	0.62	0.02	0.18	0.32	0.60	0.96	1.86	1.79	1.08	3.08	0.25	14.26	60
1932	1.70	0.74	0.57	0.83	0.31	0.82	3.50	3.19	3.61	2.45	3.34	0.18	21.24	25
1933	1.47	0.07	0.28	0.47	0.34	0.97	3.32	6.04	0.61	2.51	4.66	0.53	21.27	24
1934	0.02	0.20	0.16	0.21	0.28	1.27	0.63	0.18	2.42	1.73	1.21	0.98	9.29	68
1935	2.57	0.20	0.54	0.13	0.50	0.82	1.82	6.06	2.67	0.63	0.40	1.28	17.62	43
1936	0.29	0.32	0.09	0.41	0.58	0.85	1.88	0.61	4.35	0.43	2.52	0.62	12.95	63
1937	0.86	1.15	0.25	0.46	0.39	1.18	0.33	2.21	2.57	2.43	0.63	0.52	12.98	62
1938	0.39	0.29	0.79	0.27	0.21	1.08	1.84	5.34	1.86	2.58	1.17	1.26	17.08	48
1939	0.52	0.80	0.16	0.17	0.28	1.12	0.62	2.40	1.81	1.31	4.44	1.48	15.11	56
1940	1.25	0.00	0.32	0.38	0.32	0.79	3.19	0.61	1.40	2.17	2.22	1.89	14.54	58
1941	1.21	0.29	0.40	0.12	0.11	0.92	5.05	1.70	3.67	1.92	3.79	1.41	20.59	26
1942	3.02	0.23	0.50	0.10	0.59	1.20	4.21	2.85	4.72	1.63	2.20	1.99	23.24	14
1943	1.68	0.27	0.25	0.52	0.43	1.11	4.69	3.73	4.84	1.71	0.48	0.36	20.07	28
1944	0.91	0.04	0.19	1.59	0.55	0.89	1.39	3.02	3.44	3.84	0.75	0.27	16.88	49
1945	0.69	1.00	0.54	0.46	0.51	1.89	0.89	2.11	3.49	1.62	2.59	1.54	17.33	46
1946	0.11	0.16	0.26	0.19	0.37	1.37	0.79	7.54	2.90	2.07	3.24	2.81	21.81	23
1947	1.87	0.20	0.39	0.66	0.03	0.76	1.95	2.96	8.19	2.59	3.37	0.15	23.12	16
1948	1.20	0.95	0.16	0.20	0.64	0.58	1.86	1.39	3.50	2.41	1.72	0.49	15.10	57
1949	0.94	0.41	0.82	1.32	0.04	0.47	1.40	4.69	3.02	2.08	1.74	1.11	18.04	38
1950	0.74	0.02	0.46	0.28	0.20	1.55	1.46	1.81	1.57	2.59	1.95	2.54	15.17	54
1951	0.37	0.13	0.11	0.13	0.23	0.47	0.97	1.74	4.84	2.62	1.58	1.98	15.17	55
1952	0.77	0.12	0.45	0.07	0.35	0.89	0.14	7.11	3.26	1.98	2.12	0.17	17.43	45
1953	0.18	0.86	0.15	0.46	1.70	1.43	3.49	1.23	2.63	1.04	3.61	0.79	17.57	44
1954	0.26	0.62	0.22	0.12	0.52	1.59	0.53	2.33	0.88	2.20	1.97	0.38	11.62	65
1955	1.78	0.61	0.28	0.25	1.34	1.56	0.84	2.50	2.60	2.21	2.00	1.70	17.67	42
1956	0.19	0.71	0.63	0.46	0.55	0.78	0.72	4.60	2.15	3.51	3.38	0.30	17.98	39
1957	0.25	1.83	0.56	0.32	0.04	0.36	2.76	8.41	5.33	2.31	1.64	0.50	24.31	9
1958	1.92	0.27	0.25	0.15	0.97	0.97	3.42	1.56	3.26	4.81	0.37	0.00	17.95	41
1959	0.02	0.50	0.27	0.36	0.50	1.20	1.96	3.13	5.61	2.53	0.43	2.86	19.37	35
1960	0.19	0.83	0.09	0.32	0.46	0.39	1.00	1.09	3.62	1.07	0.78	0.51	10.35	66
1961	0.01	0.49	0.68	0.02	0.57	1.41	1.50	2.59	1.48	3.27	1.14	1.26	14.42	59
1962	1.50	0.18	0.16	0.39	1.03	0.38	0.35	8.65	4.34	6.16	0.45	1.26	24.85	7
1963	1.95	0.17	0.20	0.76	0.08	1.83	2.87	3.38	5.41	2.82	1.36	2.34	23.17	15
1964	1.03	0.13	0.40	0.33	0.61	1.54	1.55	4.35	5.46	2.61	0.76	0.55	19.32	36
1965	0.30	0.24	1.71	0.35	0.52	0.71	1.21	5.96	5.91	3.82	1.70	1.80	24.23	10
1966	0.22	0.21	0.32	0.25	1.09	0.58	7.57	0.00	1.60	2.63	3.75	1.66	19.88	31
1967	0.78	0.67	1.00	0.29	0.33	0.91	2.69	3.16	7.37	1.41	2.63	1.67	22.91	17
1968	0.35	0.49	0.71	0.45	0.19	1.10	1.19	2.77	6.24	3.65	3.76	1.30	22.20	21
1969	0.17	0.42	0.82	0.54	1.07	0.44	1.14	3.01	3.44	6.16	1.36	0.91	19.48	34
1970	1.51	0.29	0.31	0.20	0.27	1.35	2.96	2.33	2.83	2.54	3.58	1.37	19.54	33
1971	1.13	0.66	0.76	1.96	1.05	2.94	4.51	3.81	2.88	1.29	0.41	2.99	24.39	8
1972	1.49	0.82	0.74	1.82	0.22	0.44	1.51	2.22	7.10	3.13	2.64	0.46	22.59	18
1973	1.20	0.18	0.17	0.02	0.26	2.08	4.07	1.18	1.48	4.42	2.39	2.62	20.07	29
1974	0.74	1.06	0.86	0.69	0.08	0.20	0.50	1.73	0.90	1.69	0.91	0.12	9.48	67
1975	1.73	0.21	0.09	0.88	0.57	1.37	2.68	2.59	4.65	0.81	0.79	0.13	16.50	50
1976	0.56	0.37	0.80	0.34	1.43	0.56	3.71	3.34	5.36	3.16	2.04	0.83	22.50	20
1977	0.22	0.37	0.21	0.41	0.27	1.55	1.67	1.73	2.90	4.80	3.37	1.78	19.28	37
1978	0.70	0.77	0.87	0.29	0.89	0.22	2.02	7.77	1.55	3.92	2.37	0.78	22.15	22
1979	0.31	0.73	0.63	0.40	0.44	0.39	1.03	1.57	3.85	7.52	3.06	0.14	20.07	30
1980	0.77	0.36	0.26	0.29	0.39	0.99	1.42	2.37	2.95	3.24	2.57	0.65	16.26	52
1981	1.83	0.41	0.74	0.08	0.12	0.39	0.87	6.44	1.01	3.98	1.71	0.38	17.96	40
1982	2.19	0.09	0.96	0.65	0.42	1.08	1.02	5.32	5.01	3.43	2.28	2.99	25.44	5
1983	1.58	0.46	0.61	0.20	0.10	1.50	0.78	3.08	2.64	1.69	3.08	0.61	16.33	51
1984	2.67	0.95	0.50	0.18	0.22	0.70	2.70	1.13	4.26	5.84	2.93	0.51	22.59	19
1985	0.69	0.67	0.56	0.41	0.08	1.13	1.12	1.22	0.86	1.92	0.52	2.63	11.81	64
1986	1.17	2.02	0.21	0.10	0.93	1.13	3.30	1.56	7.54	0.99	2.88	4.21	26.04	3
1987	3.09	1.33	0.02	0.06	2.27	1.85	0.31	3.72	1.07	1.14	1.86	0.57	17.29	47
1988	0.79	0.48	0.53	0.23	0.26	0.86	1.01	2.78	1.45	1.61	2.67	0.63	13.30	61
1989	0.41	1.21	0.32	0.07	0.87	0.86	1.19	1.80	1.93	2.52	2.85	5.64	19.67	32
1990	0.97	0.55	0.81	0.07	0.83	1.96	3.00	5.96	1.33	5.31	1.66	1.02	23.47	12
1991	0.76	0.97	0.57	0.22	0.80	0.56	4.33	7.87	4.11	2.35	1.46	1.24	25.24	6
1992	1.13	1.53	0.00	0.14	0.34	1.93	0.83	3.48	4.12	4.66	1.44	0.57	20.17	27
1993	0.84	0.28	0.84	1.01	1.24	1.38	3.12	3.46	6.01	2.73	3.02	1.55	25.48	4
1994	1.93	0.63	0.54	0.37	1.03	0.93	1.94	2.03	1.02	1.66	2.48	0.71	15.27	53
1995	5.45	0.49	0.79	0.06	0.93	1.31	3.04	10.96	6.17	4.10	0.67	1.54	35.51	1
1996	2.05	0.60	0.21	0.95	0.19	0.88	2.48	5.56	2.06	1.97	3.73	2.61	23.29	13
1997	3.69	0.51	1.17	0.34	0.87	0.66	2.78	5.41	1.63	4.23	3.40	1.43	26.12	2
1998	0.86	0.08	0.30	0.77	1.23	2.91	0.83	4.18	4.74	2.45	3.01	2.29	23.65	11
Mean 1961-90	1.07	0.57	0.57	0.42	0.58	1.08	2.05	3.25	3.49	3.25	2.12	1.46	19.91	

Measured (shaded) and estimated precipitation, in inches, for site 29, Mt. Rushmore National Memorial (395870)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.10	0.63	0.17	0.28	0.32	0.84	0.96	1.70	1.78	1.20	2.50	0.26	13.74	60
1932	1.48	0.82	0.49	0.92	0.22	0.68	4.12	3.72	3.46	2.76	3.31	0.40	22.38	17
1933	1.72	0.15	0.37	0.49	0.43	1.08	3.46	6.04	1.13	2.42	3.86	0.51	21.66	22
1934	0.07	0.24	0.22	0.29	0.30	1.07	0.83	0.31	3.27	1.25	1.19	1.02	10.06	67
1935	2.20	0.33	0.57	0.13	0.51	0.90	1.89	5.72	2.97	1.63	0.52	1.04	18.41	34
1936	0.29	0.39	0.21	0.50	0.53	0.90	1.71	0.48	3.53	0.67	2.11	0.53	11.85	66
1937	0.84	1.01	0.17	0.40	0.39	1.15	0.37	2.32	2.81	2.98	0.73	0.69	13.86	58
1938	0.30	0.28	0.86	0.51	0.25	1.00	2.19	4.81	2.08	2.30	0.92	1.12	16.62	48
1939	0.42	0.77	0.33	0.43	0.31	1.08	1.00	2.12	2.02	1.61	4.02	1.26	15.37	55
1940	1.24	0.00	0.37	0.35	0.33	0.90	2.92	0.63	1.69	1.69	1.96	1.77	13.85	59
1941	1.17	0.29	0.40	0.10	0.11	0.93	5.17	1.80	4.34	2.22	3.07	1.42	21.02	26
1942	2.62	0.18	0.44	0.08	0.47	1.04	4.01	3.29	4.07	1.70	1.81	1.80	21.51	24
1943	1.64	0.35	0.29	0.65	0.50	1.06	3.95	3.30	4.78	1.80	0.51	0.26	19.09	32
1944	0.98	0.25	0.17	1.56	0.45	0.87	1.35	3.06	3.67	3.63	0.58	0.28	16.85	46
1945	0.78	1.18	0.41	0.50	0.41	1.94	0.85	2.26	3.53	1.48	3.18	1.63	18.15	38
1946	0.09	0.13	0.24	0.16	0.32	1.37	1.23	7.41	3.50	2.29	2.45	3.18	22.37	18
1947	2.28	0.18	0.34	0.72	0.09	0.80	1.95	2.46	7.70	1.69	2.46	0.33	21.00	27
1948	1.20	0.91	0.14	0.34	0.48	0.39	1.86	1.63	4.15	2.70	1.71	0.52	16.03	52
1949	0.89	0.59	0.68	1.57	0.08	0.48	1.55	4.18	3.32	2.26	1.97	1.07	18.64	33
1950	0.93	0.06	0.46	0.30	0.18	1.78	1.57	1.84	1.55	2.52	1.94	2.44	15.57	53
1951	0.35	0.18	0.10	0.13	0.23	0.58	0.85	2.09	4.67	2.51	2.24	2.15	16.08	51
1952	1.03	0.22	0.52	0.08	0.39	0.83	0.25	7.84	2.94	1.80	1.97	0.30	18.17	37
1953	0.34	0.45	0.10	0.78	1.38	1.12	3.00	1.31	2.70	1.20	3.21	0.51	16.10	50
1954	0.21	0.63	0.20	0.14	0.47	1.28	0.39	2.39	1.67	1.74	2.42	0.40	11.94	65
1955	1.88	0.58	0.20	0.28	0.96	1.29	1.03	2.06	3.24	2.56	2.27	2.02	18.37	35
1956	0.27	0.78	0.75	0.47	0.51	0.77	1.48	4.03	1.34	3.18	2.97	0.21	16.76	47
1957	0.30	1.75	0.39	0.33	0.17	0.66	2.69	6.59	4.51	2.26	1.43	0.72	21.80	20
1958	1.17	0.31	0.24	0.25	0.65	0.85	3.03	1.76	3.73	4.06	0.71	0.14	16.90	45
1959	0.12	0.66	0.28	0.29	0.52	1.35	1.86	3.03	4.46	2.38	0.50	2.55	18.00	41
1960	0.21	1.02	0.12	0.30	0.53	0.32	1.67	1.83	2.94	1.58	1.48	0.96	12.96	63
1961	0.03	0.61	0.54	0.03	0.41	1.08	1.33	1.91	1.51	3.45	1.05	1.54	13.49	61
1962	1.06	0.21	0.14	0.38	1.38	0.75	0.42	10.88	6.21	7.63	0.50	1.29	30.85	4
1963	1.70	0.54	0.02	0.53	0.36	1.90	5.32	1.83	8.53	3.71	1.43	3.11	28.98	6
1964	0.90	0.04	0.31	0.31	0.42	0.58	1.29	3.49	7.03	3.38	0.90	1.11	19.76	29
1965	0.11	0.34	1.76	1.08	0.16	0.84	1.89	8.92	7.72	5.01	3.10	2.61	33.54	2
1966	0.17	0.22	0.43	0.25	0.95	0.70	3.62	0.09	0.74	4.21	3.88	2.45	17.71	43
1967	0.86	0.44	0.88	0.29	0.48	0.66	2.73	4.31	7.73	1.52	1.40	1.38	22.68	16
1968	0.35	0.44	0.64	0.68	0.26	0.48	1.28	2.71	6.37	1.76	3.19	1.51	19.67	30
1969	0.08	0.44	0.67	0.43	1.16	0.67	1.60	2.27	4.50	7.09	0.78	1.17	20.86	28
1970	1.60	0.21	0.21	0.29	0.35	1.70	3.97	5.85	3.62	1.91	1.98	1.85	23.54	15
1971	1.14	0.74	0.55	1.16	0.76	1.73	5.95	8.00	2.03	1.94	1.80	2.84	28.64	7
1972	1.45	1.07	0.40	0.23	0.37	0.81	1.82	3.44	9.18	2.85	2.88	0.50	25.00	9
1973	0.90	0.24	0.47	0.12	0.24	2.95	3.54	1.23	1.99	3.72	1.09	1.54	18.03	40
1974	0.48	0.91	0.71	0.60	0.21	0.18	0.87	1.59	1.74	2.61	1.40	1.26	12.56	64
1975	2.20	0.19	0.12	0.69	0.79	1.15	2.70	2.40	4.66	1.31	1.15	0.14	17.50	44
1976	0.34	0.39	0.77	0.13	1.14	0.44	3.98	3.86	5.64	3.75	2.34	0.83	23.61	14
1977	0.11	0.20	0.20	0.27	0.21	1.65	1.66	1.30	2.98	4.89	2.43	2.08	17.98	42
1978	0.93	0.53	0.76	0.42	0.78	0.26	2.35	7.55	1.56	4.61	1.62	0.70	22.07	19
1979	0.39	0.66	0.66	0.30	0.36	0.38	0.93	1.67	4.63	8.37	2.95	0.17	21.47	25
1980	0.58	0.18	0.10	0.23	0.26	0.79	1.31	2.30	2.77	2.80	3.27	0.58	15.17	56
1981	2.00	0.25	0.38	0.04	0.10	0.16	0.66	6.99	1.27	4.16	1.71	0.40	18.12	39
1982	2.48	0.07	0.78	0.56	0.35	0.94	0.83	5.34	4.14	2.01	2.06	2.01	21.57	23
1983	1.41	0.33	0.60	0.12	0.05	1.44	0.63	3.40	3.02	0.64	1.93	0.31	13.88	57
1984	2.51	1.25	0.45	0.10	0.24	0.39	2.83	2.16	6.24	3.39	1.14	0.98	21.68	21
1985	0.67	0.34	0.25	0.23	0.00	0.83	0.42	0.75	1.13	1.72	0.59	2.53	9.46	68
1986	0.37	1.83	0.79	0.09	0.94	0.71	3.28	1.63	5.56	1.10	1.97	5.97	24.24	12
1987	1.63	0.43	0.00	0.04	1.43	2.24	0.00	4.79	0.78	1.70	2.61	0.59	16.24	49
1988	0.69	0.00	0.37	0.33	0.28	0.31	0.78	1.60	4.13	2.27	2.04	0.34	13.14	62
1989	0.58	1.40	0.25	0.06	0.88	0.95	2.12	1.68	2.40	1.63	2.11	5.14	19.20	31
1990	1.04	0.33	0.62	0.02	0.84	1.62	2.27	6.92	2.41	5.66	1.08	1.36	24.17	13
1991	0.70	0.48	0.69	0.12	0.57	0.50	4.24	6.48	5.91	2.59	0.98	1.74	25.00	10
1992	1.33	0.90	0.00	0.07	0.27	2.21	0.83	2.84	3.94	3.87	1.52	0.51	18.29	36
1993	0.91	0.18	0.54	0.72	1.13	0.80	3.60	5.99	5.06	3.25	1.76	0.92	24.86	11
1994	1.64	0.52	0.48	0.44	0.90	0.76	0.92	2.83	1.25	1.24	3.63	0.77	15.38	54
1995	5.46	0.47	0.66	0.10	1.00	1.31	3.19	10.25	4.97	4.39	1.41	1.47	34.68	1
1996	3.09	0.41	0.16	1.19	0.16	2.04	2.45	7.23	2.08	2.38	5.92	2.41	29.52	5
1997	5.13	0.59	1.50	0.34	1.00	0.53	3.77	6.08	2.54	5.35	2.01	3.08	31.92	3
1998	0.88	0.13	0.33	0.87	1.41	3.10	1.26	3.20	6.24	3.64	3.84	2.88	27.78	8
Mean 1961-90	0.96	0.49	0.49	0.33	0.54	0.98	2.08	3.70	4.07	3.36	1.88	1.61	20.49	

Measured (shaded) and estimated precipitation, in inches, for site 30, Mystic (395929)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.99	0.69	0.44	0.79	0.48	1.42	1.31	1.62	1.39	1.67	1.62	0.35	13.77	63
1932	1.25	1.35	0.36	1.45	0.18	0.95	5.36	3.99	2.61	3.21	2.81	0.85	24.37	16
1933	2.83	0.39	0.56	0.83	0.76	1.38	3.90	5.08	2.16	1.94	3.16	0.48	23.47	17
1934	0.17	0.47	0.42	0.56	0.36	0.86	1.00	0.47	4.82	0.60	1.47	1.17	12.37	67
1935	1.36	0.57	0.76	0.18	0.66	1.05	1.57	4.81	4.01	3.66	1.07	0.74	20.44	33
1936	0.35	0.68	0.49	0.77	0.52	1.04	1.53	0.48	2.09	1.18	1.56	0.42	11.11	68
1937	0.76	0.81	0.14	0.34	0.39	1.09	0.47	2.14	4.08	3.71	0.89	1.40	16.22	53
1938	0.30	0.37	0.99	1.23	0.29	0.84	2.46	3.92	1.50	2.16	0.35	0.88	15.29	60
1939	0.31	0.76	0.79	0.91	0.38	0.94	1.92	1.70	2.59	1.55	4.08	0.94	16.87	48
1940	1.08	0.01	0.46	0.30	0.38	1.02	2.52	0.84	2.24	1.35	1.84	1.70	13.74	64
1941	1.22	0.35	0.39	0.07	0.10	1.09	4.83	2.16	5.62	3.11	2.22	1.37	22.53	22
1942	1.99	0.29	0.58	0.19	0.37	1.30	3.12	3.93	3.38	1.87	1.90	2.12	21.04	31
1943	2.22	0.94	0.65	0.85	0.63	1.04	3.13	3.09	4.04	2.02	1.25	0.29	20.15	35
1944	1.24	0.91	0.08	1.62	0.27	0.83	1.32	2.79	3.59	2.43	0.23	0.52	15.83	57
1945	0.97	2.04	0.28	0.87	0.42	1.40	1.34	3.08	3.28	1.12	3.89	2.12	20.81	32
1946	0.11	0.14	0.60	0.34	0.53	1.78	2.39	8.99	4.08	3.05	1.54	4.21	27.76	5
1947	4.56	0.24	0.75	1.43	0.42	0.83	2.10	1.51	6.82	1.27	1.17	0.62	21.72	28
1948	1.51	1.02	0.07	0.88	0.37	0.15	2.86	1.84	5.81	4.22	2.65	0.78	22.16	23
1949	0.56	1.38	0.23	2.57	0.21	0.45	2.03	2.72	3.19	1.93	0.60	0.71	16.58	51
1950	1.14	0.31	0.57	0.29	0.36	2.78	2.04	1.79	1.79	3.99	1.80	2.41	19.27	39
1951	0.53	0.63	0.13	0.17	0.25	0.84	1.46	2.29	3.60	2.75	4.12	2.12	18.89	42
1952	1.02	0.02	1.21	0.05	0.19	1.08	0.81	7.83	2.39	1.69	1.10	0.81	18.20	44
1953	0.40	0.39	0.00	1.26	0.96	1.36	2.91	2.28	3.15	1.17	2.64	0.10	16.62	50
1954	0.20	0.68	0.37	0.16	0.54	1.85	0.06	2.72	2.77	2.34	3.29	0.44	15.42	59
1955	1.60	0.80	0.00	0.48	1.04	0.23	2.08	2.81	3.53	3.56	3.64	2.08	21.85	26
1956	0.31	0.70	0.42	0.68	0.14	0.65	1.50	4.28	1.29	1.76	3.71	0.28	15.72	58
1957	0.40	1.74	0.33	0.23	0.18	0.13	2.15	5.89	4.02	4.05	2.69	0.99	22.80	21
1958	0.51	0.30	0.28	0.45	0.35	0.55	2.95	1.32	4.03	3.94	1.54	0.33	16.55	52
1959	0.66	1.03	0.52	0.64	1.05	1.37	1.89	3.14	4.02	1.96	0.42	2.28	18.98	41
1960	0.48	1.53	0.33	0.32	0.91	0.67	1.99	1.66	3.85	1.40	2.52	1.19	16.85	49
1961	0.07	0.65	0.94	0.11	0.50	0.77	1.77	1.40	1.48	3.33	0.86	1.92	13.80	62
1962	1.05	0.38	0.62	0.70	0.88	0.61	1.22	9.68	6.91	4.91	1.41	1.51	29.88	1
1963	1.23	0.29	0.43	0.88	1.45	1.37	5.01	2.73	6.89	2.78	0.68	2.83	26.57	10
1964	0.92	0.19	0.67	0.65	1.54	0.90	1.89	4.43	7.27	1.41	3.63	1.08	24.58	15
1965	0.21	0.53	1.52	1.11	0.37	0.56	1.63	9.39	4.96	3.59	2.16	1.87	27.90	3
1966	0.07	0.38	0.33	0.24	0.76	1.40	3.10	0.26	1.43	4.07	3.34	2.27	17.65	46
1967	1.20	0.60	0.77	0.57	1.10	0.55	2.96	3.14	6.80	1.88	1.51	2.37	23.45	18
1968	0.74	0.50	0.96	0.56	0.47	0.26	1.19	2.61	5.40	2.46	2.98	1.58	19.71	38
1969	0.29	0.91	0.73	0.50	0.98	0.75	2.88	2.63	3.89	5.02	1.09	0.74	20.41	34
1970	1.35	0.71	0.48	0.61	0.45	1.68	3.11	4.05	3.70	2.20	2.47	1.24	22.05	24
1971	1.22	0.81	0.63	1.03	0.92	1.57	5.45	4.51	3.06	1.42	1.41	2.57	24.60	14
1972	2.17	0.99	0.25	0.49	0.44	0.83	2.16	3.83	8.80	3.38	3.43	0.58	27.35	7
1973	0.79	0.41	0.49	0.14	0.30	2.96	3.91	2.21	3.87	3.11	1.53	2.28	22.00	25
1974	0.88	0.75	1.01	0.44	0.41	0.38	1.45	1.73	1.06	4.16	2.63	0.95	15.85	56
1975	2.00	0.50	0.58	1.18	0.52	1.63	3.09	2.29	5.23	1.16	0.88	0.15	19.21	40
1976	0.64	0.54	1.24	0.52	1.07	0.46	3.70	3.82	6.70	3.36	1.70	1.21	24.96	12
1977	0.30	0.95	0.48	1.28	0.86	2.73	1.98	1.92	2.90	2.95	2.93	2.02	21.30	30
1978	1.09	0.92	0.90	0.36	1.21	0.43	3.28	6.62	2.07	4.13	1.80	0.59	23.40	19
1979	0.76	0.88	0.94	0.57	0.65	0.43	1.21	1.80	4.85	7.49	3.04	0.29	22.91	20
1980	0.79	0.57	0.33	0.39	0.46	1.00	1.64	2.91	2.47	1.79	2.76	0.83	15.94	55
1981	1.93	0.48	0.57	0.08	0.15	0.23	0.62	6.54	1.82	5.38	1.22	0.90	19.92	37
1982	1.91	0.19	0.66	0.81	1.25	2.60	1.61	5.93	4.20	3.52	2.17	2.33	27.18	8
1983	2.22	0.36	0.74	0.67	0.22	1.53	1.07	2.63	3.00	1.51	4.26	0.61	18.82	43
1984	2.25	1.35	0.54	0.40	0.23	0.98	3.97	1.74	4.13	3.84	1.43	0.90	21.76	27
1985	0.88	1.11	0.32	0.35	0.35	1.06	1.13	1.33	1.56	2.05	1.85	1.58	13.57	65
1986	0.70	1.63	0.93	0.46	1.42	0.69	3.55	1.85	4.78	1.99	1.45	5.23	24.68	13
1987	1.91	1.30	0.10	0.29	1.55	1.03	0.24	3.80	0.69	1.30	1.94	0.88	15.03	61
1988	0.73	0.40	0.27	0.40	0.60	1.00	0.71	3.16	1.92	0.96	2.18	0.21	12.54	66
1989	1.07	1.47	0.40	0.29	0.96	1.27	2.20	2.83	2.29	1.72	2.98	2.49	19.97	36
1990	1.18	0.60	0.99	0.39	0.61	2.24	1.87	2.66	0.83	3.51	1.48	0.92	17.28	47
1991	0.43	0.22	0.61	0.68	1.28	0.60	3.27	6.06	3.67	3.32	1.22	0.36	21.72	29
1992	1.20	0.82	0.28	0.21	0.11	2.29	1.24	1.87	3.87	4.03	1.51	0.70	18.13	45
1993	0.41	1.17	1.00	0.79	0.89	0.23	3.22	6.10	5.49	3.07	1.47	1.39	25.23	11
1994	1.71	0.78	1.29	0.62	0.90	1.16	2.75	1.60	2.11	1.61	0.94	0.71	16.18	54
1995	4.83	0.99	0.03	0.01	0.06	1.38	3.05	8.30	3.64	3.35	0.96	1.38	27.98	2
1996	2.77	0.74	0.19	1.42	0.23	1.91	2.24	6.56	2.18	3.12	3.72	2.53	27.61	6
1997	4.56	0.65	1.28	0.56	0.78	0.52	2.53	3.89	2.96	5.33	2.66	1.24	26.96	9
1998	1.10	0.59	0.59	0.33	1.38	1.80	0.74	2.16	6.38	6.12	3.49	3.21	27.89	4
Mean 1961-90	1.09	0.71	0.66	0.55	0.76	1.13	2.32	3.48	3.83	3.01	2.11	1.50	21.14	

Measured (shaded) and estimated precipitation, in inches, for site 31, Newell (396054)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.46	0.62	0.27	0.11	0.20	1.08	0.47	1.68	1.42	1.31	0.36	0.45	9.43	65
1932	0.96	0.31	0.45	0.33	0.07	0.57	3.16	5.77	3.76	1.17	2.28	0.57	19.40	10
1933	1.42	0.07	0.07	0.08	0.10	0.96	3.41	7.61	1.22	1.56	2.61	0.93	20.04	7
1934	0.38	0.17	0.18	0.29	0.03	0.97	1.38	0.30	3.65	1.82	0.31	1.09	10.57	60
1935	1.80	0.47	0.47	0.11	0.59	1.43	0.80	3.46	3.01	0.48	0.93	0.29	13.84	40
1936	0.36	0.35	0.46	1.11	0.95	0.48	2.24	0.47	0.59	1.09	1.48	0.41	9.99	62
1937	0.76	0.67	0.10	0.51	0.28	1.50	0.71	2.03	3.40	5.79	0.61	2.87	19.23	12
1938	0.18	0.25	0.48	0.20	0.11	0.60	1.53	2.28	1.56	1.13	0.60	0.87	9.79	64
1939	0.08	0.60	0.29	0.17	0.54	0.26	0.68	0.60	2.82	1.46	1.76	0.77	10.03	61
1940	0.77	0.06	0.17	0.37	0.41	1.30	2.97	0.79	4.90	1.92	1.18	0.80	15.64	30
1941	0.71	0.66	0.32	0.12	0.10	0.68	5.45	1.51	6.42	0.88	3.47	1.91	22.23	4
1942	0.68	0.32	0.54	0.15	0.26	0.42	3.27	4.34	4.33	2.02	1.18	1.29	18.80	14
1943	0.50	0.98	0.18	0.82	0.25	0.84	0.49	1.30	3.48	2.46	0.44	0.47	12.21	51
1944	1.34	0.42	0.18	1.45	0.61	1.11	1.95	1.35	5.68	1.65	1.53	0.37	17.64	18
1945	0.72	2.66	0.34	0.65	0.54	0.80	0.60	3.54	3.52	0.21	0.31	2.17	16.06	24
1946	0.29	0.38	0.12	0.19	0.17	1.47	2.01	9.35	4.75	1.79	0.50	3.96	24.98	1
1947	2.81	0.16	0.88	0.53	0.38	1.11	1.64	0.36	6.26	0.14	1.27	0.70	16.24	23
1948	1.49	1.05	0.11	0.38	0.56	0.14	3.06	1.31	3.69	3.32	1.36	0.33	16.80	20
1949	0.24	1.60	0.23	1.55	0.24	0.67	0.93	2.08	1.66	1.96	0.16	0.93	12.25	50
1950	1.48	0.10	0.38	0.45	0.43	1.93	1.64	1.92	0.94	1.97	2.44	2.04	15.72	29
1951	0.52	0.48	0.15	0.09	0.32	0.95	0.68	1.95	3.36	1.22	2.33	1.40	13.45	43
1952	2.25	0.21	0.54	0.24	0.75	0.65	0.34	2.64	1.15	2.40	0.79	0.21	12.17	52
1953	0.01	0.14	0.10	0.62	0.92	0.29	2.73	2.98	4.17	1.44	2.08	0.35	15.83	27
1954	0.41	0.67	0.06	0.27	0.13	2.42	0.47	2.70	3.90	0.76	0.95	0.35	13.09	45
1955	0.97	0.37	0.38	0.19	0.69	0.49	1.13	2.11	1.16	3.85	0.87	2.63	14.84	35
1956	0.62	0.22	0.83	0.36	0.05	0.13	0.86	2.58	2.32	1.58	1.08	1.51	12.14	53
1957	0.68	1.02	0.22	0.28	0.10	0.18	0.81	3.56	3.07	2.53	1.60	1.18	15.23	33
1958	1.03	0.59	0.00	0.30	0.65	0.27	2.18	0.55	6.12	2.78	0.77	0.18	15.42	32
1959	0.23	0.42	0.21	0.35	0.51	0.14	1.32	2.45	1.87	1.81	0.08	2.29	11.68	55
1960	0.47	0.89	0.13	0.13	0.29	0.26	0.46	0.99	1.40	0.15	3.09	0.90	9.16	66
1961	0.01	0.07	0.36	0.13	0.13	0.20	1.13	0.71	2.25	1.71	0.55	1.71	8.96	67
1962	0.96	0.31	0.29	0.34	0.25	0.31	1.03	8.60	4.85	4.02	0.88	0.53	22.37	3
1963	1.73	0.35	0.04	0.54	0.88	0.58	3.36	1.24	5.06	2.58	1.24	1.76	19.36	11
1964	0.96	0.08	0.22	0.17	0.24	0.22	0.78	3.16	5.43	1.98	1.79	0.11	15.14	34
1965	0.17	0.62	0.24	0.44	0.07	0.20	1.42	6.25	3.80	2.49	1.30	1.34	18.34	15
1966	0.04	0.21	0.33	0.05	0.34	0.94	2.00	0.70	1.66	3.03	2.24	1.26	12.80	47
1967	1.25	0.63	0.31	0.61	0.35	0.29	2.54	2.46	4.42	0.84	0.47	3.07	17.24	19
1968	0.61	0.31	0.31	0.27	0.27	0.39	0.49	1.59	3.87	1.66	0.95	1.85	12.57	48
1969	0.20	0.67	0.56	0.05	0.23	0.37	1.98	2.53	3.14	1.02	0.48	0.13	11.36	56
1970	0.57	0.25	0.21	0.27	0.29	0.82	2.27	3.99	1.74	1.36	1.21	0.86	13.84	41
1971	0.17	1.04	0.31	0.78	0.47	0.38	2.38	2.75	2.55	0.34	0.35	2.64	14.16	38
1972	3.15	0.92	0.20	0.36	0.24	0.53	1.69	2.78	4.90	1.41	2.92	0.34	19.44	9
1973	0.79	0.10	0.50	0.17	0.28	1.59	1.59	2.67	1.12	1.47	3.11	1.26	14.65	37
1974	1.77	0.29	0.54	0.05	0.36	0.44	2.33	1.54	2.93	2.05	0.56	0.54	13.40	44
1975	0.81	0.20	0.14	0.99	0.20	1.73	2.13	2.94	3.61	0.90	0.47	0.00	14.12	39
1976	0.40	0.37	0.24	0.90	0.81	0.42	1.65	1.53	4.63	2.68	1.29	0.86	15.78	28
1977	0.39	0.11	0.20	0.56	0.51	2.10	0.74	1.51	1.24	1.38	3.37	1.47	13.58	42
1978	3.32	0.77	0.66	0.13	0.88	0.11	2.44	3.99	0.81	1.88	1.49	0.27	16.75	21
1979	0.15	0.83	0.11	0.35	0.79	0.33	1.09	0.88	3.69	3.26	0.73	0.16	12.37	49
1980	0.34	0.08	0.04	0.23	0.32	0.61	0.69	0.96	3.58	0.94	2.51	0.55	10.85	59
1981	1.79	0.21	0.66	0.23	0.10	0.00	0.04	2.67	3.73	4.07	1.18	1.20	15.88	26
1982	1.48	0.32	0.31	0.53	0.42	3.31	1.07	8.10	3.72	1.56	1.71	1.39	23.92	2
1983	4.10	0.18	0.33	0.28	0.12	1.69	0.86	1.75	0.64	1.87	2.17	0.78	14.77	36
1984	1.42	0.68	0.64	0.04	0.02	0.64	2.85	0.81	5.43	0.77	2.35	0.60	16.25	22
1985	0.25	1.14	0.76	0.05	0.00	0.93	0.38	1.43	1.47	0.89	0.41	0.75	8.46	68
1986	0.54	1.60	0.93	0.56	0.50	0.74	3.57	2.63	2.33	1.37	0.42	6.25	21.44	5
1987	1.39	0.84	0.10	0.07	1.56	1.28	0.34	4.39	0.63	2.58	3.85	0.80	17.83	16
1988	0.11	0.09	0.02	0.23	0.21	1.36	0.71	2.02	2.57	0.63	0.69	1.17	9.81	63
1989	0.43	0.63	0.19	0.15	0.26	1.46	2.64	1.07	1.41	0.97	0.18	1.52	10.91	58
1990	2.79	0.74	0.78	0.02	0.40	0.43	2.20	3.21	1.13	2.74	0.11	1.00	15.55	31
1991	0.46	0.10	0.25	0.28	0.82	0.93	2.99	4.13	1.46	0.19	0.11	0.20	11.92	54
1992	0.86	1.49	0.02	0.02	0.19	0.75	1.21	2.01	1.66	3.46	0.96	0.38	13.01	46
1993	0.12	0.91	0.63	0.57	0.64	1.13	1.87	3.41	4.14	5.49	0.79	1.18	20.88	6
1994	0.11	0.34	0.75	1.06	0.59	0.25	2.07	0.37	2.25	1.99	1.07	0.33	11.18	57
1995	3.25	0.71	0.14	0.10	0.43	0.72	2.46	5.58	3.55	1.83	0.55	0.57	19.89	8
1996	2.64	0.54	0.16	1.16	0.16	1.06	2.02	6.52	0.77	0.91	1.03	1.88	18.85	13
1997	2.26	0.77	1.06	0.54	0.28	0.23	2.21	3.52	1.69	2.64	0.31	0.49	16.00	25
1998	0.64	0.13	0.00	0.43	1.06	1.77	0.40	0.71	7.07	2.80	2.06	0.76	17.83	17
Mean 1961-90	1.07	0.49	0.35	0.32	0.38	0.81	1.61	2.70	2.94	1.82	1.37	1.21	15.06	

Measured (shaded) and estimated precipitation, in inches, for site 32, Oelrichs (396212)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	4.11	0.55	0.20	0.20	0.83	1.80	0.35	1.78	0.93	2.49	3.23	1.01	17.48	25
1932	0.69	0.80	1.40	1.55	0.10	1.35	2.93	2.11	2.69	3.94	1.04	0.13	18.73	18
1933	1.92	0.10	0.55	0.00	0.40	1.10	4.35	7.68	0.70	0.55	4.12	0.00	21.47	9
1934	0.27	0.10	0.20	0.49	0.20	1.91	1.05	0.84	2.76	2.80	1.50	0.80	12.92	57
1935	1.35	0.35	0.05	0.16	0.11	1.90	3.97	6.81	2.20	0.17	0.26	1.01	18.34	19
1936	0.34	0.00	0.36	0.02	0.39	0.61	0.91	0.64	2.09	0.17	0.97	1.34	7.84	68
1937	0.36	0.60	0.30	0.04	0.18	2.26	0.62	1.16	4.52	0.51	0.16	0.20	10.91	62
1938	1.21	0.33	0.06	0.27	0.02	1.89	1.68	3.03	2.37	2.38	1.36	1.11	15.71	38
1939	0.03	0.55	0.10	0.25	0.24	0.50	0.24	3.15	1.39	0.50	1.82	0.85	9.62	66
1940	0.84	0.00	0.33	0.39	0.27	0.73	3.68	0.36	0.91	1.34	0.29	1.30	10.44	63
1941	0.53	0.34	0.15	0.34	0.15	1.10	2.77	1.12	3.85	4.50	0.92	1.10	16.87	31
1942	1.18	0.24	0.67	0.10	0.31	0.84	3.08	5.83	4.30	2.65	0.23	1.67	21.10	12
1943	1.71	0.42	0.29	0.10	0.21	0.36	2.22	3.90	2.60	2.02	0.71	0.20	14.74	46
1944	1.39	0.11	0.00	0.61	0.32	0.40	2.56	3.46	2.32	3.27	2.19	0.10	16.73	32
1945	0.27	1.17	0.63	0.20	0.18	2.13	0.18	1.25	3.77	2.03	2.02	2.47	16.30	37
1946	0.00	0.00	0.57	0.14	0.28	0.98	1.54	6.58	3.57	0.30	0.59	3.44	17.99	22
1947	1.20	0.20	0.60	0.82	0.12	0.10	1.45	2.81	8.12	3.39	1.50	0.41	20.72	13
1948	1.00	1.48	0.32	0.00	0.39	0.40	2.60	3.33	2.97	3.18	1.01	0.56	17.24	27
1949	1.49	0.73	0.44	1.24	0.00	0.16	1.96	4.38	3.01	1.42	0.40	1.11	16.34	35
1950	1.17	0.00	0.37	0.35	0.00	0.80	1.69	1.69	1.18	2.63	1.66	1.99	13.53	53
1951	0.18	0.31	0.08	0.06	0.08	0.70	0.29	2.06	3.39	2.63	2.28	1.17	13.23	56
1952	0.58	0.05	0.36	0.00	0.33	0.62	0.42	4.60	1.59	0.73	0.67	0.35	10.30	65
1953	0.12	0.88	0.16	0.53	0.51	1.22	2.26	1.06	2.02	1.32	1.85	0.39	12.32	58
1954	0.16	0.16	0.10	0.00	0.46	0.97	0.37	3.40	2.36	1.48	0.13	0.74	10.33	64
1955	1.13	0.42	0.00	0.38	0.81	0.83	1.03	4.24	1.95	3.11	1.50	4.64	20.04	14
1956	0.33	0.30	0.33	0.43	0.24	0.23	0.85	1.80	1.86	1.22	1.76	0.16	9.51	67
1957	0.18	0.81	0.27	0.25	0.13	1.02	2.17	7.00	2.38	0.91	0.72	1.11	16.95	29
1958	2.01	0.39	0.18	0.12	1.93	1.21	2.73	0.92	2.83	5.17	0.37	0.13	17.99	23
1959	0.08	0.32	0.34	0.58	0.54	1.45	1.18	3.12	4.20	1.03	0.24	3.34	16.42	33
1960	0.42	1.22	0.40	0.73	1.05	0.72	2.71	1.71	1.81	1.13	0.98	0.54	13.42	55
1961	0.14	1.19	1.01	0.06	0.32	1.30	1.10	2.98	0.62	1.85	0.05	1.51	12.13	59
1962	0.96	0.67	0.36	0.21	1.30	1.06	0.39	5.36	6.29	3.23	1.36	0.66	21.85	6
1963	1.29	0.18	0.44	1.34	0.38	2.03	2.24	2.34	4.89	3.09	1.97	1.49	21.68	8
1964	0.92	0.05	0.30	0.13	0.48	1.36	3.00	2.60	3.66	0.53	0.73	0.38	14.14	48
1965	0.98	0.26	0.77	0.87	0.81	0.96	1.39	6.62	4.22	2.08	2.56	1.99	23.51	2
1966	0.44	0.22	0.41	0.31	0.86	0.52	2.51	0.38	1.42	3.24	4.73	2.26	17.30	26
1967	1.50	0.81	0.65	0.43	0.12	1.19	2.74	3.32	7.72	2.05	0.25	1.14	21.92	5
1968	0.51	0.32	0.89	0.45	0.32	0.98	1.73	3.92	4.09	2.70	4.66	0.77	21.34	11
1969	0.52	0.42	0.47	0.40	0.52	0.52	1.42	1.12	1.94	6.97	0.40	0.48	15.18	42
1970	1.03	0.21	0.41	0.24	0.17	1.05	3.80	1.57	2.75	0.92	0.10	1.22	13.47	54
1971	1.53	0.41	0.28	0.41	0.86	1.02	3.66	6.37	1.07	0.59	0.16	2.71	19.07	16
1972	1.89	0.76	0.09	0.14	0.13	0.81	2.03	3.16	3.46	1.23	1.28	0.56	15.54	41
1973	0.81	0.24	0.21	0.31	0.38	1.88	3.81	2.23	0.87	3.80	0.54	3.08	18.16	20
1974	0.77	0.91	1.04	0.60	0.27	0.21	2.25	0.75	0.99	1.54	5.19	1.14	15.66	39
1975	1.64	0.22	0.06	0.56	0.64	1.52	2.31	2.08	3.43	0.45	0.86	0.15	13.92	49
1976	1.01	0.21	0.94	0.61	0.48	0.84	2.97	2.61	2.58	2.76	0.65	0.70	16.36	34
1977	0.75	0.46	0.21	0.25	0.16	1.70	2.53	2.60	1.50	1.97	2.85	1.35	16.33	36
1978	0.90	1.04	0.54	0.57	0.67	0.08	2.07	3.26	1.38	3.01	1.20	0.35	15.07	43
1979	0.36	0.70	0.82	0.66	0.16	0.49	0.84	2.52	2.43	2.48	3.31	0.19	14.96	44
1980	1.10	0.55	0.03	0.31	0.65	1.34	0.79	1.94	5.31	1.80	2.98	0.15	16.95	30
1981	1.74	0.52	0.54	0.20	0.26	0.43	0.90	3.72	1.20	3.06	0.63	0.54	13.74	51
1982	1.07	0.14	0.86	0.60	0.34	1.16	1.04	7.39	4.37	0.72	2.54	2.59	22.82	4
1983	2.99	0.76	0.67	0.24	0.04	1.54	0.97	3.08	2.91	2.39	2.27	0.30	18.16	21
1984	0.84	1.81	0.65	0.34	0.47	0.51	2.96	2.31	2.72	2.20	0.43	0.41	15.65	40
1985	0.45	0.45	0.38	0.50	0.31	1.00	1.22	1.09	1.31	1.58	0.70	2.47	11.46	61
1986	1.95	1.60	0.34	0.80	0.84	0.72	4.23	1.26	7.01	1.50	0.68	2.86	23.79	1
1987	1.67	0.41	0.11	0.00	1.49	2.31	0.00	4.32	1.93	0.60	1.03	0.74	14.61	47
1988	0.57	0.65	0.63	0.31	0.09	0.20	0.57	4.23	2.32	2.91	1.03	1.38	14.89	45
1989	0.23	0.91	0.25	0.00	0.32	1.09	1.56	1.00	1.56	1.88	1.77	3.12	13.69	52
1990	0.26	0.13	0.27	0.04	0.44	1.29	1.52	3.38	1.43	3.15	0.82	1.16	13.89	50
1991	0.47	0.49	0.36	0.06	0.83	0.52	2.34	8.52	4.25	0.80	2.13	0.69	21.46	10
1992	1.38	0.82	0.10	0.45	0.92	1.98	0.57	3.25	2.85	3.56	1.44	0.23	17.55	24
1993	0.46	0.89	0.35	0.40	1.16	0.92	1.58	1.93	5.98	3.44	1.29	1.57	19.97	15
1994	1.44	0.88	0.44	0.48	0.27	0.33	0.57	1.03	2.20	1.74	1.69	0.44	11.51	60
1995	4.04	0.20	1.17	0.63	0.51	0.32	1.68	3.98	3.30	3.44	0.17	2.28	21.72	7
1996	2.02	0.77	0.12	0.50	0.00	0.67	2.07	3.86	0.88	1.09	3.57	1.62	17.17	28
1997	1.60	0.34	0.50	0.96	0.63	0.27	3.16	3.71	4.31	5.11	1.81	0.85	23.25	3
1998	1.93	0.00	0.05	0.28	0.77	1.66	0.11	2.47	3.10	3.30	3.03	2.37	19.07	17
Mean 1961-90	1.03	0.57	0.49	0.40	0.48	1.04	1.95	2.98	2.91	2.21	1.59	1.26	16.91	

Measured (shaded) and estimated precipitation, in inches, for site 33, Oelrichs 8W (396214)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.91	0.56	0.14	0.20	0.69	1.50	0.35	1.68	1.15	2.09	2.70	0.91	15.88	35
1932	0.97	0.68	1.15	1.25	0.25	1.53	3.18	2.36	2.24	3.26	1.40	0.14	18.41	18
1933	1.63	0.09	0.46	0.02	0.41	1.23	4.10	6.61	0.72	0.75	4.44	0.09	20.55	10
1934	0.21	0.15	0.22	0.44	0.28	1.64	1.02	0.69	2.89	2.77	1.65	0.91	12.87	55
1935	1.30	0.31	0.09	0.15	0.19	1.98	3.93	6.89	2.06	0.45	0.59	0.88	18.82	17
1936	0.37	0.11	0.33	0.18	0.65	0.68	0.88	0.79	1.98	0.29	1.06	1.27	8.59	68
1937	0.43	0.70	0.33	0.19	0.25	2.10	0.63	1.48	4.43	0.85	0.21	0.29	11.89	60
1938	1.13	0.35	0.14	0.33	0.05	1.89	1.77	3.13	2.09	2.15	1.17	1.59	15.79	37
1939	0.09	0.62	0.13	0.34	0.33	0.56	0.33	2.98	1.56	0.49	2.11	0.84	10.38	66
1940	0.90	0.00	0.29	0.39	0.35	0.77	4.11	0.42	1.20	1.31	0.46	1.45	11.65	62
1941	0.55	0.35	0.17	0.32	0.15	1.02	3.45	1.02	4.12	4.18	1.41	1.10	17.84	21
1942	1.07	0.28	0.69	0.08	0.39	0.92	3.41	5.72	4.19	2.80	0.29	1.66	21.50	6
1943	1.73	0.45	0.25	0.19	0.21	0.50	2.32	4.50	2.89	1.97	0.63	0.25	15.89	34
1944	1.43	0.08	0.05	0.64	0.38	0.39	2.38	3.38	2.47	3.60	2.03	0.13	16.96	26
1945	0.31	1.06	0.62	0.25	0.28	1.92	0.28	1.30	3.59	1.92	2.18	2.29	16.00	32
1946	0.06	0.02	0.61	0.19	0.29	0.98	1.37	6.46	3.40	0.49	0.72	3.52	18.11	19
1947	1.12	0.18	0.55	0.65	0.11	0.18	1.35	2.93	8.23	2.93	1.24	0.62	20.09	13
1948	0.97	1.40	0.29	0.01	0.48	0.44	2.33	2.79	3.22	2.98	1.67	0.60	17.18	24
1949	1.43	0.49	0.18	1.13	0.00	0.09	2.07	4.44	2.99	1.61	1.05	1.40	16.88	27
1950	1.06	0.00	0.14	0.14	0.08	0.49	1.76	1.12	1.28	2.24	1.22	1.84	11.37	64
1951	0.33	0.19	0.06	0.04	0.07	0.37	0.31	0.97	3.89	4.11	1.57	1.80	13.71	53
1952	0.62	0.03	0.41	0.00	0.29	0.36	0.17	5.16	2.98	1.15	1.35	0.17	12.69	57
1953	0.28	0.58	0.21	0.53	0.70	0.15	2.26	1.61	2.79	1.53	1.70	0.38	12.72	56
1954	0.26	0.14	0.33	0.03	0.42	1.05	0.50	3.42	2.49	1.47	0.64	0.74	11.49	63
1955	1.67	0.18	0.10	0.32	0.78	0.67	0.72	3.27	1.62	1.06	1.23	3.29	14.91	44
1956	0.00	0.17	0.22	0.19	0.05	0.05	0.59	3.92	2.19	1.61	1.21	0.17	10.37	67
1957	0.14	0.55	0.09	0.13	0.12	0.79	1.66	5.70	2.46	1.69	1.17	1.11	15.61	38
1958	1.88	0.16	0.06	0.01	1.22	0.84	2.25	1.85	2.64	5.42	0.37	0.09	16.79	28
1959	0.09	0.28	0.32	0.53	0.44	1.09	0.94	2.99	3.82	1.37	0.28	3.22	15.37	40
1960	0.36	0.97	0.31	0.58	0.83	0.55	1.93	1.34	1.88	0.98	0.83	0.39	10.95	65
1961	0.09	1.05	0.89	0.07	0.27	1.09	1.15	2.91	0.86	2.52	0.27	1.33	12.50	58
1962	0.76	0.47	0.35	0.21	1.13	0.89	0.33	5.52	5.41	3.70	0.95	0.58	20.30	12
1963	1.46	0.19	0.36	1.00	0.34	1.93	2.45	2.16	5.09	3.16	1.55	1.97	21.66	4
1964	0.93	0.03	0.28	0.17	0.66	1.12	2.65	2.75	4.02	0.55	0.72	0.32	14.20	48
1965	0.70	0.34	0.67	0.72	0.65	0.88	1.32	5.96	3.72	2.42	1.91	2.22	21.51	5
1966	0.37	0.21	0.37	0.35	0.83	0.49	2.47	0.34	1.17	3.42	3.80	1.98	15.80	36
1967	1.54	0.72	0.54	0.43	0.13	1.06	2.63	3.33	7.47	1.59	0.25	0.94	20.63	9
1968	0.50	0.30	0.85	0.37	0.27	0.84	1.63	3.50	4.68	2.43	3.82	0.79	19.98	14
1969	0.48	0.37	0.49	0.40	0.65	0.41	1.23	1.15	2.05	5.76	0.30	0.49	13.78	51
1970	1.13	0.25	0.31	0.23	0.19	1.03	3.02	1.56	2.56	1.45	0.55	1.42	13.70	54
1971	1.41	0.44	0.27	0.42	0.83	0.72	3.37	6.04	1.70	0.96	0.20	2.63	18.99	16
1972	1.69	0.67	0.16	0.20	0.15	0.72	1.84	2.87	3.87	1.45	1.33	0.60	15.55	39
1973	0.98	0.23	0.20	0.29	0.38	2.15	3.56	1.99	0.96	3.48	0.81	2.98	18.01	20
1974	1.03	0.80	0.86	0.59	0.21	0.23	2.33	0.74	1.04	1.62	3.70	1.19	14.34	47
1975	1.78	0.22	0.06	0.59	0.58	1.41	1.89	2.03	3.79	0.59	0.69	0.13	13.76	52
1976	0.77	0.25	0.97	0.56	0.50	0.71	2.87	2.69	2.68	3.28	0.99	0.86	17.13	25
1977	0.64	0.35	0.18	0.32	0.12	1.62	2.49	2.43	1.77	2.32	2.78	1.59	16.61	29
1978	0.80	1.10	0.52	0.54	0.66	0.14	1.87	3.59	1.37	3.16	1.83	0.34	15.92	33
1979	0.40	0.60	0.72	0.57	0.23	0.43	0.77	2.30	2.34	3.10	3.21	0.21	14.88	45
1980	0.99	0.42	0.02	0.31	0.58	1.28	0.91	2.00	3.93	1.67	2.71	0.21	15.03	42
1981	1.62	0.51	0.56	0.21	0.24	0.40	0.81	3.89	1.23	3.32	0.96	0.43	14.18	49
1982	1.30	0.13	0.74	0.55	0.30	1.10	0.98	6.83	4.55	1.06	2.38	2.60	22.52	2
1983	2.29	0.76	0.55	0.24	0.05	1.48	0.88	2.93	2.90	2.11	1.98	0.32	16.49	31
1984	1.10	1.62	0.66	0.31	0.43	0.75	2.99	2.28	3.04	2.24	0.62	0.47	16.51	30
1985	0.76	0.47	0.34	0.45	0.30	0.77	1.25	1.17	1.51	1.75	0.64	2.47	11.88	61
1986	1.49	1.57	0.28	0.55	0.89	0.69	3.95	1.24	5.98	1.69	0.86	2.86	22.05	3
1987	1.83	0.53	0.14	0.03	1.50	2.25	0.12	4.55	1.53	0.73	1.12	0.69	15.02	43
1988	0.51	0.73	0.79	0.25	0.13	0.43	0.59	3.67	2.15	2.25	1.64	1.26	14.40	46
1989	0.30	0.80	0.29	0.00	0.35	1.05	1.49	1.16	1.56	1.97	1.65	3.23	13.85	50
1990	0.38	0.17	0.37	0.05	0.43	1.25	1.77	3.86	1.76	2.98	0.86	1.20	15.08	41
1991	0.62	0.59	0.46	0.10	0.84	0.62	2.26	6.79	4.11	0.96	1.65	0.76	19.76	15
1992	1.24	0.85	0.10	0.47	0.84	1.86	0.61	3.56	3.05	3.59	1.46	0.19	17.82	22
1993	0.64	0.76	0.44	0.49	1.20	0.96	1.83	1.79	5.64	3.68	2.08	1.57	21.08	8
1994	1.49	0.82	0.43	0.48	0.34	0.44	0.75	1.31	2.40	1.61	1.39	0.46	11.92	59
1995	3.59	0.20	1.14	0.57	0.48	0.41	1.66	4.37	3.51	2.72	0.34	2.15	21.14	7
1996	1.98	0.60	0.15	0.53	0.02	0.75	2.14	4.13	1.12	1.01	3.37	1.67	17.47	23
1997	1.65	0.39	0.64	0.86	0.73	0.26	3.00	3.68	4.12	6.34	1.62	0.76	24.05	1
1998	1.59	0.00	0.06	0.34	0.91	1.79	0.27	2.85	3.61	3.12	3.48	2.30	20.32	11
Mean 1961-90	1.00	0.54	0.46	0.37	0.47	0.98	1.85	2.91	2.89	2.29	1.50	1.28	16.54	

Measured (shaded) and estimated precipitation, in inches, for site 34, Oral (396304)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.47	0.81	0.06	0.40	0.47	1.11	0.52	1.88	1.27	1.87	2.07	0.97	14.90	44
1932	1.30	0.61	0.99	0.98	0.99	3.04	3.14	2.94	2.12	2.93	1.58	0.11	20.73	8
1933	1.22	0.08	0.42	0.08	0.57	1.65	4.06	5.76	0.98	1.07	5.86	0.30	22.05	5
1934	0.17	0.31	0.32	0.38	0.52	1.64	0.79	0.48	2.67	2.21	1.39	0.85	11.73	63
1935	1.06	0.25	0.24	0.18	0.38	2.00	3.03	8.45	2.30	0.74	1.01	1.00	20.64	10
1936	0.49	0.43	0.34	0.38	0.94	0.70	0.95	0.74	2.04	0.21	0.78	1.22	9.22	67
1937	0.49	0.89	0.55	0.40	0.35	2.12	0.67	1.39	5.66	1.99	0.19	0.55	15.25	39
1938	0.90	0.39	0.20	0.39	0.04	1.55	1.79	3.63	1.84	2.45	0.91	2.66	16.75	33
1939	0.20	0.57	0.15	0.16	0.47	0.73	0.44	2.22	2.09	0.47	2.53	0.95	10.98	66
1940	0.89	0.00	0.25	0.45	0.46	0.78	4.60	0.66	1.04	1.78	0.49	1.53	12.93	54
1941	0.70	0.33	0.18	0.24	0.12	0.92	5.07	0.99	3.80	2.98	3.29	1.17	19.79	15
1942	1.03	0.24	0.56	0.04	0.34	0.96	3.38	4.46	3.64	3.42	0.82	1.78	20.67	9
1943	1.78	0.34	0.22	0.27	0.24	0.65	2.90	3.83	3.92	2.00	0.83	0.34	17.32	29
1944	1.24	0.03	0.20	1.01	0.58	0.46	2.42	3.76	2.84	4.22	1.56	0.15	18.47	23
1945	0.39	0.94	0.63	0.39	0.49	1.85	0.49	1.54	3.54	2.04	2.24	1.85	16.39	35
1946	0.03	0.03	0.52	0.20	0.32	0.94	1.21	7.34	3.17	1.40	1.06	3.27	19.49	17
1947	1.24	0.17	0.51	0.49	0.07	0.17	1.38	2.87	8.89	3.15	1.16	0.36	20.46	11
1948	0.94	1.23	0.24	0.05	0.59	0.46	1.94	2.00	3.81	2.59	2.59	0.41	16.85	31
1949	1.31	0.46	0.40	1.47	0.01	0.24	1.71	4.48	2.76	1.92	1.33	0.99	17.08	30
1950	0.79	0.01	0.45	0.25	0.05	1.01	1.90	1.56	0.92	1.82	1.65	2.41	12.82	55
1951	0.33	0.22	0.13	0.19	0.11	0.60	0.58	1.28	4.13	3.18	1.69	2.24	14.68	45
1952	0.53	0.11	0.40	0.05	0.63	0.85	0.31	4.73	2.84	1.12	1.25	0.16	12.98	53
1953	0.21	0.88	0.18	0.84	0.89	0.47	2.41	1.43	1.95	1.64	0.94	0.85	12.69	56
1954	0.23	0.39	0.17	0.21	0.59	1.11	0.68	3.06	2.67	1.36	0.94	0.83	12.24	59
1955	1.91	0.26	0.15	0.33	0.98	1.11	0.68	2.73	2.20	2.35	3.09	3.73	19.52	16
1956	0.30	0.43	0.55	0.54	0.24	0.39	0.96	3.80	1.71	1.29	1.54	0.41	12.16	60
1957	0.12	0.66	0.44	0.38	0.16	1.22	2.09	6.37	3.38	1.27	1.35	1.17	18.61	21
1958	1.81	0.26	0.10	0.10	1.08	1.34	2.59	0.96	2.75	6.46	0.30	0.08	17.83	28
1959	0.13	0.31	0.32	0.50	0.33	0.71	0.92	2.75	3.55	1.90	0.52	3.04	14.98	42
1960	0.22	0.58	0.22	0.42	0.62	0.28	1.03	1.14	2.43	0.61	0.98	0.40	8.93	68
1961	0.07	0.89	0.72	0.04	0.27	1.10	0.92	2.57	1.37	2.72	0.32	1.37	12.36	58
1962	0.56	0.36	0.29	0.23	0.90	0.93	0.29	5.75	4.78	4.75	0.51	0.69	20.04	14
1963	1.92	0.19	0.25	0.52	0.38	1.47	3.06	2.14	6.46	3.93	1.27	3.02	24.61	1
1964	0.89	0.02	0.27	0.20	0.40	1.06	1.88	3.01	4.57	1.03	0.80	0.25	14.38	47
1965	0.74	0.42	0.75	0.53	0.42	0.90	1.19	5.58	3.66	2.48	1.45	2.10	20.22	13
1966	0.36	0.21	0.30	0.25	0.63	0.30	2.58	0.29	0.97	4.02	2.92	2.10	14.93	43
1967	1.00	0.57	0.51	0.37	0.13	0.97	2.07	3.45	7.24	0.89	0.50	0.72	18.42	25
1968	0.38	0.27	0.87	0.38	0.22	0.79	0.96	2.92	6.01	2.36	2.29	1.00	18.45	24
1969	0.35	0.39	0.59	0.32	0.87	0.25	0.82	1.36	2.19	5.08	0.31	0.83	13.36	50
1970	1.23	0.21	0.28	0.20	0.29	1.15	2.56	1.65	2.72	2.10	0.92	1.96	15.27	37
1971	1.24	0.43	0.37	0.66	0.81	0.58	3.37	5.08	2.55	1.07	0.24	2.01	18.41	26
1972	1.15	0.67	0.41	0.35	0.09	0.68	1.39	2.72	5.19	1.34	1.65	0.71	16.35	36
1973	0.70	0.30	0.13	0.11	0.28	1.96	2.59	2.26	0.63	2.81	1.35	1.94	15.06	40
1974	1.58	0.77	0.48	0.44	0.08	0.15	2.07	0.63	1.65	0.67	2.66	1.27	12.45	57
1975	2.15	0.27	0.03	0.51	0.47	0.95	1.00	1.71	4.75	0.97	0.28	0.03	13.12	52
1976	0.33	0.35	0.79	0.52	0.44	0.67	3.42	1.98	2.79	2.77	2.10	0.25	16.41	34
1977	0.73	0.15	0.17	0.46	0.00	1.37	2.58	1.64	2.33	4.46	3.12	1.59	18.60	22
1978	0.79	0.75	0.46	0.46	0.76	0.20	1.37	3.01	1.59	3.30	2.21	0.09	14.99	41
1979	0.37	0.43	0.52	0.52	0.23	0.15	0.47	1.54	2.45	3.86	2.43	0.16	13.13	51
1980	0.74	0.18	0.04	0.25	0.48	0.69	0.95	2.06	2.83	1.30	1.86	0.49	11.87	61
1981	1.67	0.33	0.57	0.04	0.12	0.42	0.55	3.82	1.05	4.82	0.94	0.13	14.46	46
1982	1.56	0.13	0.62	0.44	0.28	1.02	1.09	6.87	4.05	1.59	1.71	2.62	21.98	6
1983	1.18	0.85	0.44	0.17	0.00	1.14	0.57	2.73	2.97	1.31	2.11	0.41	13.88	48
1984	1.43	1.18	0.69	0.38	0.38	1.14	3.31	2.54	2.53	2.62	0.91	1.14	18.25	27
1985	0.57	0.54	0.37	0.39	0.20	0.40	1.01	1.07	1.25	1.74	1.05	2.57	11.16	64
1986	0.66	1.93	0.22	0.23	0.90	0.69	3.68	1.31	4.33	1.29	0.45	3.02	18.71	19
1987	1.62	0.89	0.15	0.04	1.68	2.45	0.08	6.20	0.78	1.16	0.89	0.89	16.83	32
1988	0.51	0.47	0.59	0.16	0.29	0.13	0.78	3.60	2.41	1.03	2.64	0.87	13.48	49
1989	0.42	0.70	0.36	0.00	0.36	1.12	1.39	1.27	0.83	1.83	0.99	2.58	11.85	62
1990	0.71	0.19	0.33	0.04	0.34	1.19	2.14	4.08	2.92	1.80	0.49	1.04	15.27	38
1991	0.67	0.62	0.65	0.11	0.94	0.63	2.77	4.86	5.93	0.62	1.84	0.76	20.40	12
1992	1.42	1.03	0.07	0.15	0.78	1.92	0.72	3.61	4.49	3.45	1.22	0.19	19.05	18
1993	0.60	0.64	0.69	0.84	1.05	0.38	2.35	1.28	4.65	4.10	5.12	1.99	23.69	2
1994	1.58	0.85	0.51	0.46	0.44	0.66	0.87	1.33	1.64	0.78	1.65	0.39	11.16	65
1995	2.53	0.27	1.17	0.86	0.41	0.53	1.63	4.18	4.19	2.05	0.95	2.00	20.77	7
1996	2.18	0.54	0.14	0.50	0.00	0.58	1.98	5.03	1.15	0.67	4.07	1.87	18.71	20
1997	1.21	0.32	0.62	1.01	0.71	0.29	2.59	3.72	3.14	7.57	0.85	0.82	22.85	4
1998	1.03	0.00	0.02	0.37	0.84	1.70	0.26	3.88	4.55	3.88	4.30	2.17	23.00	3
Mean 1961-90	0.920333 333	0.50	0.42	0.31	0.42	0.87	1.67	2.83	3.00	2.37	1.38	1.26	15.94	

Measured (shaded) and estimated precipitation, in inches, for site 35, Orman Dam (396357)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.31	0.45	0.43	0.12	0.27	0.81	0.25	1.82	0.72	1.04	0.52	0.57	8.31	67
1932	1.26	0.96	0.41	0.41	0.21	0.90	4.97	3.74	5.27	1.04	0.96	0.83	20.96	11
1933	1.37	0.00	0.10	0.08	0.13	1.39	4.73	5.55	1.28	0.31	1.57	1.03	17.54	23
1934	0.24	0.31	0.11	0.49	0.06	1.37	1.49	0.06	3.23	0.60	0.98	1.43	10.37	63
1935	0.74	0.57	0.36	0.06	0.36	1.06	1.02	3.60	2.68	1.08	0.66	0.19	12.38	55
1936	0.12	0.39	0.33	0.71	0.32	0.24	1.84	0.18	0.21	1.12	1.66	0.50	7.62	68
1937	0.69	0.44	0.16	0.30	0.11	0.97	0.57	1.74	3.61	6.76	0.81	2.67	18.83	18
1938	0.07	0.11	0.57	0.06	0.05	0.59	1.42	2.96	1.31	1.37	0.87	1.00	10.38	62
1939	0.00	0.48	0.24	0.08	0.33	0.26	0.58	0.90	3.71	1.54	1.44	0.50	10.06	65
1940	0.85	0.06	0.24	0.23	0.23	1.29	2.92	1.17	3.81	1.67	1.28	1.37	15.12	39
1941	0.32	0.83	0.27	0.06	0.05	0.24	4.63	2.10	8.34	0.89	3.69	3.11	24.53	5
1942	0.55	0.10	0.25	0.00	0.13	0.30	3.13	5.19	5.49	1.13	0.54	1.22	18.03	22
1943	0.62	1.27	0.17	0.67	0.10	0.62	0.53	0.92	4.77	2.87	0.53	0.10	13.17	51
1944	1.26	0.51	0.28	1.30	0.32	0.93	1.77	2.45	6.51	1.18	1.91	0.33	18.75	19
1945	0.44	2.14	0.40	0.54	0.61	0.85	0.42	3.07	3.32	0.43	0.49	2.20	14.91	40
1946	0.24	0.40	0.06	0.19	0.06	1.30	2.68	7.29	4.44	0.86	0.60	3.71	21.83	9
1947	2.74	0.09	0.44	0.27	0.30	0.48	1.42	0.53	6.68	1.20	0.69	1.10	15.94	31
1948	1.21	0.61	0.06	0.17	0.46	0.09	2.72	1.50	4.99	2.71	0.66	0.44	15.62	34
1949	0.24	1.45	0.23	0.48	0.11	0.92	1.90	0.91	1.55	1.60	0.46	0.98	10.83	60
1950	1.85	0.13	0.28	0.20	0.31	1.93	1.60	2.06	1.42	0.99	1.11	1.54	13.42	50
1951	0.64	0.48	0.08	0.06	0.30	0.78	1.13	1.59	3.71	2.17	2.31	1.46	14.71	44
1952	2.28	0.19	0.37	0.24	0.62	0.47	0.09	2.67	1.10	3.04	0.90	0.05	12.02	57
1953	0.03	0.08	0.07	0.87	0.60	0.19	2.72	2.29	3.52	1.45	2.31	0.30	14.43	46
1954	0.21	0.73	0.04	0.34	0.39	1.93	0.55	3.95	3.23	0.27	0.48	0.25	12.37	56
1955	1.30	0.44	0.12	0.03	0.71	0.57	1.62	2.15	1.06	2.66	1.72	1.80	14.18	47
1956	0.83	0.32	0.87	0.30	0.07	0.25	0.91	2.20	2.38	0.83	1.35	1.04	11.35	59
1957	0.56	1.62	0.18	0.20	0.12	0.25	1.00	2.43	3.79	1.70	1.90	1.46	15.21	38
1958	1.06	0.75	0.00	0.25	0.81	0.35	2.44	0.91	4.33	2.74	0.90	0.19	14.73	43
1959	0.31	0.47	0.43	0.29	0.39	0.16	1.01	2.33	2.51	0.55	0.11	1.91	10.47	61
1960	0.69	0.61	0.13	0.08	0.31	0.30	0.24	1.41	1.55	0.31	3.20	0.61	9.44	66
1961	0.00	0.30	0.29	0.21	0.12	0.30	1.39	1.12	1.86	2.02	0.41	2.14	10.16	64
1962	0.97	0.38	0.38	0.49	0.44	0.48	0.98	7.93	4.24	3.59	0.78	0.68	21.34	10
1963	1.97	0.49	0.11	0.62	0.84	0.31	3.29	1.32	4.91	2.27	0.84	2.49	19.46	16
1964	1.08	0.16	0.30	0.22	0.35	0.38	1.24	2.25	6.17	0.91	1.63	0.11	14.80	41
1965	0.40	0.51	0.40	0.49	0.03	0.27	1.11	6.02	3.56	2.07	1.03	1.44	17.33	24
1966	0.00	0.27	0.31	0.16	0.59	1.26	1.93	0.73	1.87	1.98	1.99	2.07	13.16	52
1967	1.21	0.73	0.42	0.31	0.49	0.40	2.74	1.63	3.68	1.62	0.62	2.14	15.99	30
1968	0.51	0.45	0.23	0.43	0.45	0.43	0.65	1.36	4.65	3.44	1.43	1.21	15.24	36
1969	0.00	0.62	1.00	0.08	0.37	0.44	2.26	3.36	4.38	1.44	0.47	0.07	14.49	45
1970	0.47	0.24	0.34	0.20	0.36	0.90	3.36	4.68	1.05	1.90	1.37	1.72	16.59	26
1971	0.38	1.58	0.63	0.93	0.65	0.45	2.51	3.58	2.12	0.22	0.61	2.54	16.20	29
1972	3.72	0.58	0.30	0.37	0.15	0.79	1.71	3.22	5.79	1.69	3.70	0.33	22.35	7
1973	1.17	0.05	0.81	0.18	0.24	1.39	2.21	2.80	1.72	1.07	4.02	1.39	17.05	25
1974	1.60	0.52	0.56	0.08	0.36	0.36	2.85	1.91	1.39	1.72	1.64	0.60	13.59	49
1975	0.99	0.35	0.34	1.25	0.46	1.54	2.22	2.57	4.11	0.85	0.44	0.11	15.23	37
1976	0.60	0.52	0.86	0.77	0.96	0.65	2.41	2.13	8.22	2.19	0.87	0.67	20.85	12
1977	0.58	0.44	0.34	0.66	0.72	2.98	0.93	1.77	1.68	1.76	2.99	1.60	16.45	27
1978	3.10	0.99	0.75	0.28	0.98	0.18	2.73	4.46	1.50	3.01	1.27	0.31	19.56	15
1979	0.37	1.20	0.40	0.50	0.99	0.52	1.08	1.46	3.28	3.44	2.16	0.31	15.71	32
1980	0.77	0.15	0.15	0.39	0.45	0.79	1.12	1.83	3.16	0.83	2.26	1.20	13.10	53
1981	1.71	0.48	1.00	0.31	0.22	0.15	0.18	3.48	3.80	4.24	1.15	1.93	18.65	20
1982	1.65	0.34	0.36	0.77	0.39	2.46	1.34	10.62	2.84	1.68	1.76	2.05	26.26	2
1983	4.48	0.21	0.92	0.37	0.16	2.04	1.60	1.89	0.62	1.76	3.23	0.93	18.21	21
1984	1.59	0.99	1.05	0.25	0.19	0.95	3.80	1.21	5.98	1.21	2.31	0.91	20.44	14
1985	0.65	1.14	0.87	0.19	0.08	1.45	0.67	1.55	2.04	0.88	0.84	1.43	11.79	58
1986	0.63	1.72	1.56	0.93	0.92	0.79	4.64	2.42	3.99	2.23	0.62	5.30	25.75	3
1987	1.83	1.39	0.12	0.15	1.60	2.02	0.39	4.19	0.58	1.98	3.87	1.04	19.16	17
1988	0.19	0.30	0.41	0.51	0.36	2.10	0.78	3.09	2.16	0.40	0.80	1.82	12.92	54
1989	0.66	0.83	0.22	0.13	0.35	1.68	3.64	1.58	2.03	2.01	0.53	1.97	15.63	33
1990	2.64	1.26	1.30	0.17	0.45	0.55	2.18	2.77	1.07	3.07	0.26	0.70	16.42	28
1991	1.08	0.39	0.49	0.45	1.06	0.92	2.90	4.39	2.22	0.56	0.63	0.31	15.40	35
1992	0.98	1.27	0.07	0.18	0.35	1.13	1.73	1.90	2.80	2.91	0.95	0.51	14.78	42
1993	0.67	1.04	1.15	0.86	0.72	2.03	2.60	3.70	5.63	4.45	0.89	1.25	24.99	4
1994	0.34	0.66	1.29	1.25	0.69	0.69	2.27	0.88	1.51	3.03	0.87	0.62	14.10	48
1995	5.85	0.98	0.19	0.19	0.55	0.89	2.36	7.45	4.97	2.73	1.23	1.38	28.77	1
1996	3.62	0.93	0.30	1.59	0.27	1.87	2.12	5.89	1.20	1.20	1.29	2.00	22.28	8
1997	3.55	0.88	1.86	1.03	0.76	0.69	3.09	3.47	2.21	3.45	0.86	0.90	22.75	6
1998	0.85	0.53	0.46	0.66	1.34	1.38	0.70	1.46	6.32	2.49	2.49	1.77	20.45	13
Mean 1961-90	1.20	0.64	0.56	0.41	0.49	0.97	1.93	2.96	3.15	1.92	1.53	1.37	17.13	

Measured (shaded) and estimated precipitation, in inches, for site 36, Pactola Dam (396427)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.67	0.70	0.34	0.53	0.34	1.43	0.95	1.38	1.62	1.50	1.42	0.30	13.18	61
1932	1.05	0.97	0.42	1.15	0.20	0.85	4.84	4.51	2.71	3.01	2.96	0.61	23.28	19
1933	2.10	0.29	0.49	0.58	0.60	1.37	3.57	5.72	1.74	1.92	2.83	0.36	21.57	25
1934	0.17	0.32	0.38	0.48	0.38	0.83	1.10	0.49	4.31	0.53	1.08	0.98	11.05	67
1935	1.40	0.52	0.63	0.15	0.63	1.22	2.07	5.32	3.11	2.90	0.73	0.53	19.21	35
1936	0.34	0.57	0.42	0.70	0.52	0.98	1.35	0.31	1.79	0.92	1.26	0.46	9.62	68
1937	0.79	0.73	0.11	0.33	0.36	1.23	0.46	2.44	3.57	3.84	0.78	1.06	15.70	51
1938	0.24	0.36	0.97	1.09	0.27	0.86	2.79	3.76	2.36	1.89	0.50	1.08	16.17	50
1939	0.25	0.77	0.62	0.83	0.43	0.94	1.71	1.55	2.46	1.71	2.99	0.86	15.12	56
1940	1.23	0.00	0.45	0.30	0.41	1.10	2.84	0.74	2.15	1.13	1.68	1.53	13.56	59
1941	1.02	0.34	0.40	0.09	0.10	0.95	5.59	1.98	5.59	2.43	2.18	1.30	21.97	22
1942	2.07	0.23	0.56	0.17	0.45	1.11	3.53	4.39	3.49	1.85	1.29	1.99	21.13	26
1943	2.06	0.85	0.59	0.91	0.62	1.00	2.51	2.72	4.53	2.24	0.79	0.33	19.15	36
1944	1.22	0.74	0.16	1.93	0.45	1.15	1.45	3.05	4.28	3.17	0.35	0.49	18.44	39
1945	0.93	2.12	0.38	0.77	0.52	2.14	1.09	3.13	3.75	1.34	3.82	2.31	22.30	21
1946	0.18	0.12	0.50	0.33	0.51	1.78	2.38	8.73	4.64	2.90	1.37	4.19	27.63	3
1947	3.43	0.26	0.58	1.04	0.52	0.80	2.04	1.39	6.72	1.28	0.90	0.52	19.48	33
1948	1.41	0.97	0.11	0.81	0.50	0.15	2.32	1.77	5.41	3.64	2.79	0.71	20.59	30
1949	0.94	1.13	0.33	2.60	0.22	0.49	2.10	2.75	3.45	2.17	1.33	0.89	18.40	40
1950	1.20	0.27	0.54	0.34	0.29	2.84	2.12	1.98	1.63	3.18	1.93	2.50	18.82	37
1951	0.46	0.58	0.14	0.20	0.27	0.89	1.16	2.57	3.70	2.47	3.00	2.23	17.67	42
1952	1.36	0.18	0.56	0.13	0.46	0.73	0.33	10.14	2.84	1.65	1.65	0.57	20.60	29
1953	0.20	0.32	0.16	1.11	1.26	1.20	2.92	2.26	3.73	1.70	2.48	0.21	17.55	44
1954	0.21	0.65	0.50	0.19	0.58	1.68	0.17	2.73	2.48	1.66	2.72	0.39	13.96	58
1955	1.79	0.77	0.22	0.50	0.89	0.88	1.67	2.13	3.45	3.85	2.42	2.37	20.94	27
1956	0.36	0.77	0.88	0.44	0.39	0.63	1.50	3.48	1.26	2.36	3.02	0.23	15.32	55
1957	0.23	2.02	0.28	0.24	0.16	0.24	3.19	8.09	3.88	4.12	2.49	0.56	25.50	12
1958	0.80	0.39	0.18	0.26	0.38	0.73	3.46	1.85	4.47	3.03	1.27	0.26	17.08	48
1959	0.23	0.74	0.33	0.37	0.57	0.87	2.01	3.20	3.32	2.87	0.52	2.42	17.45	46
1960	0.14	0.88	0.02	0.28	0.57	0.31	1.81	1.95	2.31	1.49	2.19	1.15	13.10	62
1961	0.00	0.46	0.57	0.05	0.34	0.72	1.41	1.49	1.58	2.75	0.47	1.23	11.07	66
1962	1.50	0.19	0.15	0.19	0.72	0.59	0.77	10.29	8.70	5.97	1.94	1.15	32.16	1
1963	1.45	0.08	0.02	0.41	0.59	1.20	4.99	2.19	7.36	3.48	0.78	3.50	26.05	8
1964	0.99	0.08	0.20	0.30	0.52	0.66	1.59	4.49	5.94	1.86	1.92	1.27	19.82	32
1965	0.00	0.39	0.80	0.44	0.16	0.36	1.35	9.51	5.32	2.92	2.98	1.32	25.55	11
1966	0.15	0.12	0.28	0.09	0.44	1.57	2.82	0.27	1.46	3.41	3.75	3.21	17.57	43
1967	0.86	0.41	0.58	0.12	0.46	0.46	2.96	3.75	7.86	1.80	1.33	1.29	21.88	23
1968	0.37	0.23	0.39	0.58	0.25	0.13	0.92	2.36	5.45	1.65	2.29	1.04	15.66	52
1969	0.20	0.40	0.40	0.16	0.84	0.59	1.90	2.91	3.18	4.06	0.53	0.43	15.60	53
1970	1.72	0.41	0.16	0.25	0.34	1.43	3.42	4.58	4.31	2.27	4.11	1.18	24.18	14
1971	0.80	0.74	0.65	0.74	0.77	1.55	6.96	4.56	2.23	1.62	0.88	2.28	23.78	17
1972	2.10	1.01	0.06	0.21	0.31	0.67	2.24	2.89	13.51	3.73	2.87	0.38	29.98	2
1973	0.68	0.31	0.31	0.10	0.19	2.29	3.83	2.33	2.28	4.10	1.03	1.93	19.38	34
1974	1.27	0.79	0.61	0.30	0.08	0.25	0.85	1.78	0.96	4.33	0.88	1.11	13.21	60
1975	2.36	0.33	0.12	0.76	0.32	0.83	3.14	2.40	5.62	1.35	1.24	0.04	18.51	38
1976	0.48	0.47	0.93	0.53	0.72	0.33	4.71	3.93	7.06	3.46	2.21	1.24	26.07	7
1977	0.26	0.49	0.27	0.56	0.27	2.02	1.78	1.66	2.65	3.12	2.44	2.02	17.54	45
1978	1.06	0.72	0.65	0.29	0.90	0.29	2.77	6.13	1.84	4.50	2.16	0.55	21.86	24
1979	0.62	0.90	0.61	0.39	0.39	0.29	1.18	1.40	5.62	8.51	2.57	0.19	22.67	20
1980	0.72	0.26	0.19	0.26	0.48	1.00	1.96	1.94	3.19	1.40	2.03	0.58	14.01	57
1981	2.15	0.42	0.68	0.07	0.11	0.28	0.78	7.42	2.00	5.18	1.33	0.50	20.92	28
1982	2.40	0.07	0.52	0.43	0.43	1.42	0.86	6.25	4.56	4.07	3.09	2.75	26.85	6
1983	3.06	0.28	0.53	0.51	0.14	1.83	0.93	2.62	4.73	2.10	2.63	0.54	19.90	31
1984	1.80	1.02	0.59	0.14	0.15	0.77	4.37	1.82	4.83	5.92	1.39	1.18	23.98	16
1985	0.85	1.03	0.38	0.20	0.08	0.96	1.27	1.46	1.39	2.05	1.77	1.58	13.02	63
1986	0.65	1.80	0.73	0.08	1.24	0.78	3.75	2.08	3.85	2.25	2.90	5.87	25.98	9
1987	1.92	1.22	0.02	0.04	1.59	1.20	0.18	4.12	0.58	1.47	2.52	0.72	15.58	54
1988	0.62	0.28	0.28	0.23	0.31	1.44	0.62	2.74	2.87	0.73	2.32	0.22	12.66	64
1989	0.64	1.01	0.32	0.02	0.26	1.00	1.67	1.71	1.55	2.15	2.67	4.14	17.14	47
1990	0.85	0.21	0.46	0.04	0.61	1.21	1.46	3.31	0.88	4.42	2.45	1.02	16.92	49
1991	0.69	0.45	0.49	0.12	0.79	0.51	3.99	8.28	5.80	3.77	1.66	0.71	27.26	5
1992	1.02	1.02	0.01	0.04	0.12	2.23	2.21	2.41	3.12	4.17	1.19	0.51	18.05	41
1993	0.47	0.51	0.71	0.56	0.67	0.52	2.59	5.67	5.56	2.91	1.99	1.25	23.41	18
1994	1.89	0.27	0.49	0.31	0.49	0.44	2.19	2.07	0.83	1.54	0.85	0.90	12.27	65
1995	4.66	0.27	0.29	0.02	0.57	0.74	1.96	6.97	4.95	4.47	1.07	1.44	27.41	4
1996	2.43	0.58	0.07	0.70	0.14	1.46	1.90	7.97	1.73	2.23	3.50	2.23	24.94	13
1997	4.57	0.27	0.76	0.29	0.65	0.26	2.29	5.49	3.12	3.49	3.22	1.49	25.90	10
1998	0.96	0.09	0.31	0.36	0.44	1.99	0.86	2.28	6.25	2.30	3.89	4.39	24.12	15
Mean 1961-90	1.08	0.54	0.42	0.28	0.47	0.94	2.25	3.48	4.11	3.22	2.05	1.48	20.32	

Measured (shaded) and estimated precipitation, in inches, for site 37, Provo (396812)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.56	0.56	0.04	0.20	0.43	0.95	0.34	1.49	1.56	1.35	1.74	0.71	12.93	54
1932	1.48	0.46	0.67	0.71	0.48	1.78	3.66	2.79	1.40	2.00	2.08	0.15	17.66	24
1933	1.12	0.09	0.28	0.05	0.42	1.46	3.63	4.64	0.75	1.12	4.98	0.24	18.78	17
1934	0.11	0.24	0.24	0.35	0.41	1.12	0.97	0.41	3.14	2.73	1.95	1.11	12.78	55
1935	1.23	0.23	0.16	0.12	0.32	2.12	3.89	6.95	1.78	0.96	1.19	0.62	19.57	10
1936	0.42	0.31	0.29	0.48	1.13	0.82	0.81	1.09	1.78	0.51	1.25	1.15	10.04	67
1937	0.56	0.89	0.36	0.47	0.38	1.80	0.65	2.08	4.19	1.43	0.31	0.44	13.56	48
1938	1.00	0.40	0.29	0.45	0.11	1.92	1.93	3.29	1.59	1.69	0.82	2.44	15.93	31
1939	0.20	0.75	0.19	0.51	0.48	0.66	0.51	2.69	1.84	0.46	2.65	0.82	11.76	64
1940	1.02	0.00	0.21	0.40	0.50	0.84	4.89	0.52	1.77	1.23	0.77	1.72	13.87	46
1941	0.58	0.38	0.20	0.28	0.16	0.89	4.63	0.84	4.64	3.63	2.23	1.10	19.56	11
1942	0.87	0.35	0.74	0.05	0.55	1.07	4.03	5.56	4.01	3.05	0.39	1.63	22.30	2
1943	1.76	0.50	0.18	0.34	0.20	0.74	2.47	5.66	3.38	1.88	0.48	0.33	17.92	23
1944	1.51	0.03	0.13	0.69	0.49	0.36	2.04	3.20	2.75	4.20	1.75	0.20	17.35	28
1945	0.38	0.87	0.60	0.33	0.44	1.52	0.47	1.37	3.26	1.70	2.47	1.98	15.39	37
1946	0.17	0.04	0.69	0.29	0.30	0.99	1.06	6.20	3.10	0.80	0.94	3.68	18.26	18
1947	0.97	0.13	0.45	0.34	0.08	0.32	1.16	3.16	8.39	2.05	0.76	1.02	18.83	16
1948	0.94	1.27	0.25	0.03	0.60	0.46	2.03	2.10	3.75	2.64	1.72	0.67	16.46	30
1949	1.14	0.38	0.35	2.74	0.00	0.03	1.32	1.69	1.59	1.47	0.70	0.11	11.52	66
1950	0.49	0.00	0.10	0.27	0.00	1.29	1.59	1.48	0.90	1.82	2.20	2.22	12.36	58
1951	0.45	0.00	0.27	0.23	0.00	0.73	0.76	1.57	3.50	2.04	1.25	1.68	12.48	57
1952	1.28	0.20	0.25	0.00	0.33	1.01	0.10	2.55	3.17	1.15	1.27	0.27	11.58	65
1953	0.36	0.58	0.12	0.70	1.63	0.86	1.98	1.09	2.70	1.72	0.84	0.56	13.14	50
1954	0.08	0.25	0.18	0.20	0.41	1.38	0.65	3.87	2.17	1.20	1.46	0.35	12.20	61
1955	1.68	0.18	0.22	0.25	0.88	1.17	1.49	3.49	2.36	1.12	2.02	2.70	17.56	25
1956	0.20	0.75	0.69	0.26	0.27	0.65	1.73	1.99	1.86	1.16	2.24	0.45	12.25	59
1957	0.55	0.91	0.70	0.39	0.14	1.40	1.65	5.91	1.74	2.01	0.61	1.31	17.32	29
1958	1.22	0.70	0.30	0.07	0.55	0.89	2.26	1.12	2.65	5.72	0.39	0.04	15.91	32
1959	0.08	0.20	0.26	0.48	0.31	0.78	0.66	2.88	3.47	1.68	0.24	3.09	14.13	45
1960	0.34	0.70	0.22	0.43	0.61	0.46	1.31	0.93	1.64	0.98	0.60	0.22	8.44	68
1961	0.05	0.93	0.80	0.08	0.18	0.80	1.31	2.92	0.95	3.45	0.56	1.10	13.13	51
1962	0.61	0.25	0.35	0.18	0.90	0.62	0.26	5.55	4.37	4.11	0.59	0.41	18.20	20
1963	1.42	0.19	0.30	0.81	0.26	1.90	2.33	2.02	4.72	2.82	1.06	2.08	19.91	9
1964	0.95	0.02	0.26	0.21	1.00	0.79	2.49	2.79	4.30	0.43	0.64	0.28	14.16	44
1965	0.40	0.32	0.54	0.58	0.54	0.77	1.25	5.46	3.03	2.78	1.22	2.56	19.45	12
1966	0.26	0.21	0.36	0.46	0.91	0.55	2.44	0.27	0.99	3.32	3.00	1.51	14.28	42
1967	1.84	0.66	0.42	0.46	0.15	0.89	2.84	3.24	7.30	1.34	0.20	0.79	20.13	6
1968	0.52	0.28	0.80	0.27	0.22	0.65	1.82	3.21	4.70	2.32	3.48	0.67	18.94	15
1969	0.46	0.30	0.46	0.42	0.72	0.33	1.15	1.17	2.14	4.21	0.21	0.40	11.97	63
1970	1.24	0.31	0.21	0.23	0.18	0.90	2.20	1.47	2.20	1.88	1.08	1.41	13.31	49
1971	1.31	0.46	0.20	0.35	0.82	0.48	2.95	5.72	2.20	1.60	0.18	2.75	19.02	14
1972	1.56	0.50	0.13	0.18	0.22	0.55	1.75	2.30	3.89	1.88	1.20	0.62	14.78	40
1973	1.36	0.18	0.17	0.37	0.40	2.81	3.54	1.51	1.23	3.32	0.95	3.21	19.05	13
1974	1.06	0.52	0.77	0.62	0.18	0.28	2.68	0.64	0.76	2.19	2.00	1.25	12.95	53
1975	1.73	0.12	0.05	0.59	0.48	1.30	1.61	1.95	3.84	0.47	0.52	0.11	12.77	56
1976	0.56	0.24	1.10	0.50	0.42	0.48	2.22	3.24	2.58	4.15	1.08	1.46	18.03	22
1977	0.44	0.24	0.13	0.37	0.12	1.51	2.49	2.17	1.84	1.75	2.53	1.81	15.40	36
1978	0.58	1.44	0.45	0.53	0.59	0.19	1.68	4.34	1.24	3.32	2.62	0.42	17.40	27
1979	0.45	0.51	0.61	0.43	0.39	0.33	0.97	1.53	2.12	2.41	3.68	0.25	13.68	47
1980	0.91	0.28	0.00	0.50	0.42	2.23	2.01	2.95	2.12	1.11	2.01	0.34	14.88	39
1981	1.07	0.60	0.66	0.13	0.27	0.59	0.75	3.35	1.65	2.58	1.14	0.22	13.01	52
1982	2.61	0.05	0.24	0.51	0.09	1.26	0.96	4.59	4.58	1.97	3.12	2.48	22.46	1
1983	1.37	1.17	0.29	0.29	0.07	1.05	0.78	2.15	3.95	1.17	2.94	0.29	15.52	34
1984	1.55	1.86	0.86	0.14	0.31	0.81	3.17	3.00	2.27	2.36	1.44	0.44	18.21	19
1985	0.80	0.54	0.33	0.39	0.35	0.72	2.76	1.13	1.24	1.37	0.51	2.08	12.22	60
1986	0.79	1.65	0.39	0.12	1.05	0.54	3.33	1.08	4.88	1.75	1.18	3.31	20.07	7
1987	3.52	0.79	0.11	0.12	1.66	1.51	0.61	3.18	0.73	1.49	1.10	0.70	15.52	35
1988	0.42	0.78	0.75	0.23	0.19	1.14	0.61	2.58	2.61	2.07	1.88	0.94	14.20	43
1989	0.14	0.54	0.32	0.00	0.55	1.11	1.62	1.39	1.36	2.15	1.49	3.89	14.56	41
1990	0.92	0.24	0.59	0.05	0.42	1.17	2.29	4.34	1.35	3.69	0.91	2.18	18.15	21
1991	0.89	1.02	0.41	0.38	0.66	0.46	1.64	4.68	3.18	0.70	1.28	0.43	15.73	33
1992	0.91	0.77	0.05	0.37	0.55	1.25	0.68	2.89	2.45	3.78	1.57	0.12	15.39	38
1993	0.42	0.53	1.19	0.63	1.32	1.13	1.76	1.90	5.86	3.10	2.29	1.10	21.23	4
1994	1.51	0.70	0.46	0.66	0.31	0.69	1.56	1.56	1.73	1.82	0.62	0.38	12.00	62
1995	2.51	0.32	0.90	0.34	0.65	0.68	1.43	4.54	3.76	1.31	0.56	3.04	20.04	8
1996	1.59	0.70	0.16	0.59	0.07	0.88	2.91	3.94	1.69	0.61	2.85	1.50	17.49	26
1997	1.93	0.49	0.68	0.59	0.53	0.31	2.60	3.12	3.56	5.65	1.29	0.73	21.48	3
1998	0.86	0.33	0.23	0.41	0.99	1.84	0.62	3.02	4.59	2.79	3.80	1.71	21.19	5
Mean 1961-90	1.03	0.54	0.42	0.34	0.47	0.94	1.90	2.71	2.70	2.32	1.48	1.33	16.18	

Measured (shaded) and estimated precipitation, in inches, for site 38, Rapid City Regional Airport (396937)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.58	0.77	0.21	0.15	0.13	1.15	0.36	1.06	1.97	1.42	1.00	0.22	12.02	58
1932	0.79	0.44	0.62	0.51	0.24	0.52	4.10	5.02	2.03	2.73	3.78	0.25	21.03	8
1933	1.22	0.06	0.30	0.06	0.35	1.36	2.78	6.51	1.14	2.05	3.00	0.11	18.94	18
1934	0.17	0.12	0.23	0.19	0.41	0.64	1.17	0.44	3.45	0.59	0.43	0.38	8.22	67
1935	1.67	0.39	0.44	0.17	0.50	1.27	2.78	6.69	1.93	0.90	0.19	0.12	17.05	26
1936	0.33	0.27	0.25	0.51	0.59	0.82	1.21	0.09	1.21	0.27	0.70	0.56	6.81	68
1937	0.81	0.69	0.05	0.35	0.24	1.63	0.50	2.80	2.77	3.45	0.43	0.67	14.39	48
1938	0.14	0.22	0.79	0.35	0.20	0.83	3.07	3.24	3.57	1.56	0.66	1.29	15.92	38
1939	0.24	0.62	0.08	0.38	0.35	0.84	0.74	1.04	2.16	1.78	1.28	0.80	10.31	63
1940	1.34	0.00	0.31	0.19	0.23	1.03	3.06	0.42	1.91	0.69	1.18	1.27	11.63	60
1941	0.74	0.21	0.34	0.12	0.08	0.45	6.47	1.34	5.10	1.11	2.18	1.23	19.37	15
1942	2.00	0.09	0.42	0.03	0.40	0.61	4.13	4.49	3.24	1.85	0.54	1.55	19.35	16
1943	1.55	0.36	0.31	0.75	0.34	0.84	1.10	2.21	5.07	2.16	0.14	0.24	15.07	43
1944	1.12	0.16	0.21	1.71	0.46	0.98	1.59	3.54	4.63	4.32	0.52	0.29	19.53	14
1945	0.89	1.67	0.35	0.48	0.38	2.78	0.49	2.34	4.19	1.38	4.28	1.90	21.13	7
1946	0.14	0.06	0.12	0.10	0.16	1.35	1.94	7.15	4.90	2.68	1.14	3.69	23.43	4
1947	2.05	0.21	0.15	0.47	0.26	0.39	1.70	1.51	6.48	0.63	0.74	0.36	14.95	44
1948	1.09	0.78	0.15	0.41	0.40	0.15	1.56	1.85	4.82	2.53	2.31	0.43	16.48	36
1949	1.70	0.29	0.48	1.97	0.15	0.47	1.76	3.33	3.97	2.57	2.66	1.13	20.48	10
1950	1.45	0.10	0.41	0.25	0.06	2.66	1.63	2.43	0.90	1.62	2.74	2.79	17.04	27
1951	0.40	0.35	0.04	0.12	0.10	0.79	0.51	1.87	3.75	1.63	2.92	1.46	13.94	52
1952	0.88	0.21	0.53	0.01	0.65	0.81	0.32	3.75	3.04	1.51	0.70	0.21	12.62	57
1953	0.01	0.15	0.08	0.75	2.46	0.66	2.77	1.68	4.05	1.32	0.94	0.37	15.24	42
1954	0.23	0.84	0.18	0.18	0.34	2.28	0.27	2.68	3.18	1.24	2.11	0.20	13.73	54
1955	1.92	0.64	0.25	0.46	0.88	0.63	1.55	1.70	2.14	2.14	1.65	3.08	17.04	28
1956	0.26	0.36	0.68	0.47	0.52	0.75	1.69	2.09	1.32	2.27	3.15	0.30	13.86	53
1957	0.10	1.48	0.36	0.40	0.29	0.66	2.06	7.05	3.43	2.01	1.03	0.69	19.56	13
1958	1.29	0.39	0.04	0.43	0.84	1.08	3.03	1.04	3.86	4.49	0.26	0.03	16.78	33
1959	0.22	0.42	0.37	0.39	0.63	0.60	1.89	3.25	2.79	0.67	0.36	2.37	13.96	50
1960	0.22	1.18	0.26	0.16	0.85	0.78	1.21	2.23	2.19	0.70	1.24	0.68	11.70	59
1961	0.00	0.39	0.80	0.10	0.22	0.75	1.53	1.29	0.76	2.11	0.43	0.98	9.36	65
1962	0.94	0.36	0.51	0.51	0.98	1.28	0.69	6.90	4.01	4.53	1.03	0.67	22.41	5
1963	1.63	0.08	0.19	1.03	0.92	1.60	3.80	1.18	5.47	2.03	1.32	1.21	20.46	11
1964	0.77	0.12	0.32	0.35	0.83	0.63	1.24	2.52	4.69	0.77	1.87	0.69	14.80	45
1965	0.50	0.30	0.78	0.61	0.22	0.46	1.50	6.97	3.56	0.60	1.46	1.46	18.42	22
1966	0.57	0.15	0.12	0.24	1.00	1.78	2.50	0.33	1.31	3.93	3.24	2.84	18.01	24
1967	1.50	0.95	0.79	0.47	0.59	0.82	5.16	3.20	6.78	1.07	0.95	2.10	24.38	2
1968	0.28	0.28	0.89	0.43	0.35	0.21	1.82	1.68	7.00	2.44	2.46	0.89	18.73	20
1969	0.14	0.46	0.58	0.11	0.73	0.66	1.60	2.20	2.04	6.13	0.31	0.35	15.31	40
1970	0.85	0.35	0.57	0.73	0.54	1.48	4.63	2.41	2.16	1.04	0.67	1.57	17.00	29
1971	1.23	0.80	0.61	1.18	1.00	1.25	2.86	3.70	1.92	1.46	0.52	2.32	18.85	19
1972	2.02	0.79	0.15	0.22	0.44	0.47	2.78	3.28	4.11	1.67	2.49	0.24	18.66	21
1973	0.77	0.38	0.34	0.11	0.31	2.71	2.69	2.37	0.64	1.46	0.74	1.44	13.96	51
1974	1.38	0.73	0.54	0.16	0.30	0.34	1.55	1.32	1.10	0.68	1.37	0.88	10.35	62
1975	1.18	0.12	0.12	1.05	0.35	2.45	1.37	1.23	5.63	1.57	0.87	0.03	15.97	37
1976	0.69	0.57	1.65	0.28	0.47	0.33	2.70	2.74	4.81	1.05	1.31	0.28	16.88	32
1977	0.21	0.61	0.41	0.83	0.25	2.63	1.57	2.49	1.76	2.98	1.79	2.86	18.39	23
1978	1.06	0.82	0.36	0.19	0.84	0.40	2.19	3.12	2.01	4.08	1.42	0.18	16.67	34
1979	0.26	0.63	0.25	0.49	0.33	0.47	0.31	1.17	3.60	4.11	2.32	0.07	14.01	49
1980	0.90	0.15	0.07	0.20	0.51	0.86	1.13	1.58	4.75	1.78	2.38	0.48	14.79	46
1981	2.28	0.57	0.66	0.14	0.09	0.12	0.32	2.81	1.89	4.47	1.74	0.16	15.25	41
1982	1.81	0.23	0.35	0.39	0.37	1.35	0.69	6.50	2.89	1.81	4.83	2.69	23.91	3
1983	3.82	0.27	0.36	0.34	0.18	0.84	1.00	2.18	3.01	1.94	2.39	0.33	16.66	35
1984	1.74	1.07	0.47	0.10	0.18	0.69	3.10	1.57	4.72	1.57	1.00	0.74	16.95	30
1985	0.67	0.51	0.38	0.46	0.06	1.55	0.32	1.24	1.58	1.03	1.86	1.57	11.23	61
1986	0.98	2.22	0.77	0.49	0.92	0.88	4.74	1.43	4.56	0.91	1.32	3.14	22.36	6
1987	1.64	1.40	0.01	0.04	1.71	1.14	0.02	3.39	1.37	0.83	2.37	0.68	14.60	47
1988	0.26	0.30	0.31	0.17	0.34	0.52	0.60	3.25	1.09	0.38	1.98	0.56	9.76	64
1989	0.76	0.81	0.46	0.02	0.34	0.96	1.46	1.40	1.04	0.82	1.70	3.09	12.86	56
1990	1.49	0.43	0.82	0.22	0.37	1.17	0.77	4.87	1.42	1.94	1.87	2.44	17.81	25
1991	0.61	0.44	0.33	0.32	0.77	0.63	2.99	4.40	3.27	1.97	0.58	0.59	16.90	31
1992	1.00	0.73	0.04	0.29	0.16	1.92	0.71	2.47	2.17	3.25	0.47	0.42	13.63	55
1993	0.68	0.39	0.57	0.68	0.61	0.82	3.05	2.16	3.39	4.31	1.18	1.46	19.30	17
1994	0.90	0.70	0.53	0.45	0.66	0.37	1.20	1.47	0.67	0.64	0.92	0.27	8.78	66
1995	2.84	0.66	0.35	0.09	0.55	0.79	2.57	4.03	4.50	2.87	0.46	0.86	20.57	9
1996	2.42	0.42	0.13	0.85	0.10	1.06	1.63	8.18	1.24	0.52	1.85	1.55	19.95	12
1997	4.26	0.07	0.66	0.65	0.29	0.20	4.80	5.35	3.43	3.67	3.93	0.78	28.09	1
1998	0.47	0.19	0.09	0.15	1.24	1.33	0.28	2.34	5.59	1.26	1.42	1.50	15.86	39
Mean 1961-90	1.08	0.56	0.49	0.39	0.52	1.03	1.89	2.68	3.06	2.04	1.67	1.23	16.63	

Measured (shaded) and estimated precipitation, in inches, for site 39, Rapid City 4NW (396947)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.58	0.77	0.21	0.15	0.13	1.15	0.36	1.06	1.97	1.42	1.00	0.22	12.02	59
1932	0.79	0.44	0.62	0.51	0.24	0.52	4.10	5.02	2.03	2.73	3.78	0.25	21.03	16
1933	1.22	0.06	0.30	0.06	0.35	1.36	2.78	6.51	1.14	2.05	3.00	0.11	18.94	29
1934	0.17	0.12	0.23	0.19	0.41	0.64	1.17	0.44	3.45	0.59	0.43	0.38	8.22	67
1935	1.67	0.39	0.44	0.17	0.50	1.27	2.78	6.69	1.93	0.90	0.19	0.12	17.05	38
1936	0.33	0.27	0.25	0.51	0.59	0.82	1.21	0.09	1.21	0.27	0.70	0.56	6.81	68
1937	0.81	0.69	0.05	0.35	0.24	1.63	0.50	2.80	2.77	3.45	0.43	0.67	14.39	53
1938	0.14	0.22	0.79	0.35	0.20	0.83	3.07	3.24	3.57	1.56	0.66	1.29	15.92	44
1939	0.24	0.62	0.08	0.38	0.35	0.84	0.74	1.04	2.16	1.78	1.28	0.80	10.31	64
1940	1.34	0.00	0.31	0.19	0.23	1.03	3.06	0.42	1.91	0.69	1.18	1.27	11.63	60
1941	0.74	0.21	0.34	0.12	0.08	0.45	6.47	1.34	5.10	1.11	2.17	1.09	19.22	28
1942	2.06	0.08	0.48	0.04	0.44	0.55	4.21	4.78	3.23	1.69	0.24	1.74	19.54	26
1943	1.68	0.38	0.36	0.75	0.34	0.84	1.10	1.89	4.93	2.51	0.10	0.32	15.20	48
1944	1.12	0.16	0.18	1.77	0.52	1.13	1.54	3.53	4.97	4.54	0.45	0.40	20.31	20
1945	0.92	2.09	0.37	0.53	0.45	3.02	0.50	2.52	4.26	1.44	4.40	2.12	22.62	9
1946	0.20	0.03	0.17	0.13	0.20	1.54	2.31	7.35	5.37	2.93	1.18	3.94	25.35	5
1947	2.25	0.29	0.21	0.49	0.36	0.39	1.47	1.14	5.68	0.82	0.46	0.31	13.87	56
1948	1.17	0.76	0.15	0.37	0.53	0.14	1.62	1.67	4.86	2.65	3.06	0.59	17.57	36
1949	1.70	0.29	0.48	2.68	0.24	0.50	2.15	2.81	3.97	2.71	2.68	1.14	21.35	13
1950	1.44	0.10	0.41	0.37	0.15	2.65	1.96	2.14	1.33	1.80	1.76	2.42	16.53	40
1951	0.33	0.40	0.12	0.22	0.24	0.81	0.58	2.89	3.49	1.94	4.23	2.07	17.32	37
1952	1.47	0.41	0.49	0.08	0.81	0.71	0.44	4.35	3.21	1.91	0.44	0.12	14.44	51
1953	0.07	0.15	0.08	0.99	1.99	1.12	3.25	1.58	5.62	1.75	2.47	0.23	19.30	27
1954	0.19	0.82	0.28	0.23	0.46	1.99	0.30	2.29	3.24	0.98	2.01	0.07	12.86	58
1955	1.52	0.78	0.24	0.34	0.99	0.88	1.74	1.55	2.62	2.97	2.19	2.39	18.21	32
1956	0.29	0.43	0.82	0.55	0.35	0.86	1.63	3.40	1.06	1.89	3.67	0.47	15.42	46
1957	0.27	1.81	0.51	0.38	0.27	0.54	2.83	7.98	3.99	1.55	1.52	0.64	22.29	11
1958	1.27	0.40	0.09	0.37	0.46	0.91	4.74	1.07	3.40	4.20	0.65	0.07	17.63	35
1959	0.19	0.61	0.46	0.38	0.62	0.66	2.49	2.89	2.41	0.97	0.65	2.86	15.19	49
1960	0.23	1.36	0.07	0.34	0.91	0.68	1.48	1.85	3.27	0.54	1.97	0.74	13.44	57
1961	0.06	0.34	0.85	0.14	0.27	0.75	1.49	1.47	0.83	1.77	0.48	0.97	9.42	65
1962	1.43	0.32	0.37	0.49	0.82	1.11	0.72	9.21	7.48	5.66	0.79	0.72	29.12	1
1963	1.56	0.12	0.21	0.83	0.98	1.99	5.12	2.37	4.48	1.94	1.88	1.78	23.26	8
1964	0.76	0.09	0.30	0.33	0.76	0.71	1.06	3.04	5.50	1.34	1.44	0.99	16.32	41
1965	0.27	0.24	0.97	0.64	0.28	0.35	1.65	7.30	3.42	1.25	2.07	1.52	19.96	23
1966	0.38	0.17	0.19	0.27	1.00	2.04	2.81	0.46	1.83	6.11	2.87	2.66	20.79	18
1967	1.50	0.81	0.72	0.37	0.92	0.93	3.31	4.33	6.86	1.53	1.08	1.50	23.86	7
1968	0.27	0.34	0.84	0.64	0.46	0.28	2.03	1.78	7.60	1.55	3.15	0.83	19.77	25
1969	0.07	0.51	0.63	0.35	0.84	0.93	1.81	2.00	3.08	4.00	0.31	0.54	15.07	50
1970	1.27	0.45	0.55	1.00	0.65	1.67	4.80	3.32	2.55	1.13	1.30	1.72	20.41	19
1971	1.11	0.77	0.74	1.14	0.85	1.25	4.71	3.66	2.95	1.22	0.50	2.26	21.16	15
1972	2.10	0.84	0.11	0.34	0.41	0.52	2.45	3.19	7.12	2.90	1.69	0.42	22.09	12
1973	0.85	0.30	0.32	0.10	0.28	2.37	3.35	2.24	0.73	3.88	0.52	1.79	16.73	39
1974	0.81	0.64	0.58	0.23	0.26	0.35	1.34	1.95	1.50	3.03	2.82	0.93	14.44	52
1975	1.63	0.20	0.09	0.79	0.24	2.04	2.09	2.03	6.35	1.68	1.74	0.06	18.94	30
1976	0.50	0.62	0.89	0.13	0.68	0.26	3.89	4.03	7.35	1.96	1.76	0.24	22.31	10
1977	0.31	0.41	0.34	0.53	0.36	2.35	1.99	1.72	1.42	1.19	1.46	2.29	14.37	54
1978	1.68	0.64	0.37	0.16	0.87	0.29	2.76	4.84	1.90	3.73	2.61	0.26	20.11	22
1979	0.36	0.76	0.28	0.37	0.41	0.26	0.70	1.19	4.93	3.77	2.83	0.35	16.21	43
1980	0.69	0.09	0.07	0.10	0.37	0.76	1.31	1.84	1.19	1.46	2.58	0.49	10.95	63
1981	2.34	0.28	0.63	0.08	0.08	0.02	0.21	6.17	1.65	5.13	0.84	0.53	17.96	33
1982	1.56	0.07	0.35	0.16	0.28	1.34	0.96	6.09	2.38	4.98	4.99	2.70	25.86	3
1983	2.95	0.26	0.22	0.16	0.19	0.83	0.90	3.02	0.70	1.86	2.67	0.25	14.01	55
1984	1.23	1.11	0.47	0.14	0.00	0.00	3.79	1.88	4.88	1.70	1.92	0.84	17.96	34
1985	0.28	0.40	0.27	0.28	0.00	1.19	0.15	1.24	1.87	1.96	2.36	1.57	11.57	61
1986	0.74	1.65	0.86	0.14	0.37	0.83	3.85	2.10	3.80	3.60	3.52	4.09	25.55	4
1987	1.79	0.91	0.02	0.00	1.21	1.05	0.04	4.63	1.48	1.22	3.20	0.72	16.27	42
1988	0.29	0.28	0.08	0.06	0.15	0.53	0.58	2.99	1.38	0.28	1.80	0.09	8.51	66
1989	1.38	0.88	0.23	0.03	0.43	0.81	1.68	1.67	1.26	1.75	2.10	3.02	15.24	47
1990	2.65	0.39	0.56	0.05	0.33	0.90	1.42	3.69	0.87	3.89	3.13	0.42	18.30	31
1991	0.60	0.04	0.54	0.17	0.74	0.53	4.54	6.52	4.00	1.78	0.96	0.58	21.00	17
1992	0.79	0.74	0.01	0.05	0.08	1.83	0.90	2.56	2.32	3.97	1.70	0.53	15.48	45
1993	0.97	0.67	0.54	0.52	0.38	0.39	2.22	3.38	4.08	4.09	2.60	1.33	21.17	14
1994	1.54	0.16	0.16	0.13	0.28	0.28	1.46	2.66	1.17	2.08	0.77	0.43	11.12	62
1995	3.24	0.30	0.19	0.02	0.36	0.57	1.60	6.13	4.41	6.31	0.34	1.04	24.51	6
1996	2.00	0.43	0.05	0.76	0.09	0.90	1.07	7.85	1.54	1.09	2.43	2.07	20.28	21
1997	3.80	0.06	0.66	0.65	0.29	0.20	4.80	5.35	3.43	3.67	3.93	0.78	27.62	2
1998	0.47	0.19	0.09	0.27	0.45	1.99	0.38	1.77	5.58	3.11	1.56	4.03	19.89	24
Mean 1961-90	1.09	0.50	0.44	0.34	0.49	0.96	2.10	3.18	3.31	2.58	2.01	1.22	18.22	

Measured (shaded) and estimated precipitation, in inches, for site 40, Redfern (397033)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.13	0.58	0.35	0.48	0.37	1.13	0.95	1.49	1.75	1.41	1.84	0.36	12.84	65
1932	1.24	0.97	0.31	1.16	0.18	0.79	4.82	3.88	3.39	3.37	2.70	0.81	23.62	15
1933	2.21	0.32	0.45	0.64	0.67	1.04	3.83	5.20	2.26	2.51	2.89	0.63	22.65	18
1934	0.09	0.31	0.35	0.48	0.31	0.87	0.90	0.53	4.57	0.64	1.70	1.20	11.95	66
1935	1.48	0.44	0.61	0.17	0.53	0.85	1.38	4.71	3.31	3.30	0.99	0.86	18.63	41
1936	0.29	0.51	0.31	0.62	0.50	0.88	1.30	0.36	2.75	1.24	1.75	0.37	10.88	68
1937	0.69	0.77	0.12	0.31	0.36	0.92	0.43	2.25	3.42	3.65	1.04	1.01	14.97	58
1938	0.20	0.29	0.90	0.84	0.22	0.99	2.34	4.19	1.71	2.09	0.51	1.11	15.39	56
1939	0.31	0.71	0.62	0.72	0.35	0.96	1.43	1.91	2.55	2.16	4.30	1.02	17.04	46
1940	1.08	0.01	0.36	0.34	0.32	0.95	2.40	0.77	2.18	1.29	1.70	1.72	13.12	64
1941	1.27	0.33	0.35	0.08	0.12	1.02	4.51	2.04	4.90	3.63	2.61	1.59	22.45	19
1942	2.30	0.20	0.44	0.13	0.37	1.17	3.31	3.53	3.59	1.88	1.80	2.01	20.73	26
1943	1.94	0.75	0.52	0.79	0.55	0.98	3.61	3.13	4.08	2.35	1.13	0.21	20.04	29
1944	1.04	0.53	0.07	1.59	0.43	1.09	1.12	2.65	3.77	2.71	0.26	0.47	15.73	55
1945	0.82	1.60	0.34	0.76	0.50	1.52	1.28	3.19	3.00	1.63	3.22	2.20	20.06	28
1946	0.09	0.14	0.60	0.31	0.60	1.74	2.02	8.21	4.06	2.53	1.88	4.00	26.18	7
1947	3.32	0.23	0.61	1.10	0.36	0.92	2.01	1.84	7.41	1.60	1.59	0.66	21.65	22
1948	1.48	1.26	0.12	0.71	0.50	0.22	2.29	1.62	4.99	3.71	2.50	0.88	20.28	27
1949	0.56	1.13	0.28	2.18	0.16	0.50	1.87	2.76	3.61	2.11	0.88	0.87	16.91	48
1950	1.03	0.25	0.50	0.35	0.31	2.42	2.18	2.01	1.65	3.48	2.15	2.58	18.91	38
1951	0.47	0.52	0.13	0.15	0.25	0.69	1.37	1.95	3.64	2.71	1.85	2.71	16.44	51
1952	1.07	0.40	0.93	0.06	0.38	0.67	0.07	7.09	2.35	1.95	1.57	0.00	16.54	50
1953	1.18	0.37	0.06	0.86	0.69	0.81	2.56	2.15	3.14	2.22	2.01	0.32	16.37	52
1954	0.17	0.37	0.47	0.16	0.42	0.96	0.08	2.77	1.98	1.38	2.75	0.29	11.80	67
1955	2.13	0.77	0.14	0.18	0.55	1.42	1.00	1.21	3.73	3.49	2.85	2.07	19.54	34
1956	0.31	0.84	0.69	0.56	0.36	0.71	1.59	4.04	1.24	2.37	3.06	0.21	15.98	54
1957	0.36	1.78	0.36	0.30	0.21	0.57	2.45	6.04	4.26	3.13	2.10	0.87	22.43	20
1958	0.70	0.39	0.33	0.38	0.51	0.72	2.96	1.35	4.00	3.88	1.18	0.28	16.68	49
1959	0.30	0.86	0.36	0.41	0.75	1.52	1.87	3.20	3.99	2.44	0.56	2.34	18.60	42
1960	0.31	1.16	0.18	0.29	0.64	0.37	2.00	1.74	3.01	1.69	1.93	1.18	14.50	60
1961	0.03	0.67	0.63	0.05	0.40	0.93	1.50	1.54	1.40	3.80	1.11	1.75	13.81	62
1962	0.99	0.29	0.29	0.49	0.93	0.55	0.78	9.25	6.64	5.60	1.22	1.20	28.23	4
1963	1.32	0.20	0.13	0.50	0.56	1.30	4.88	2.24	6.63	2.75	1.25	2.92	24.68	13
1964	0.93	0.17	0.40	0.52	0.62	0.69	1.45	3.56	5.97	2.17	1.94	1.18	19.60	32
1965	0.06	0.37	1.89	0.65	0.24	0.53	1.41	9.73	5.08	4.51	2.08	1.70	28.25	3
1966	0.11	0.24	0.32	0.16	0.69	0.77	2.96	0.11	1.01	4.83	3.64	2.10	16.94	47
1967	1.03	0.54	0.74	0.26	0.59	0.52	2.67	2.95	6.99	1.73	1.75	1.49	21.26	24
1968	0.43	0.34	0.52	0.55	0.23	0.27	1.04	2.30	5.37	2.09	3.04	1.28	17.46	43
1969	0.15	0.42	0.57	0.24	1.28	0.45	2.05	2.40	3.94	6.37	1.25	0.81	19.93	31
1970	1.11	0.45	0.19	0.38	0.35	1.51	2.96	3.36	3.44	2.07	2.07	1.16	19.05	35
1971	1.34	0.64	0.58	0.80	0.75	1.36	5.35	4.69	4.12	1.63	1.04	2.56	24.86	12
1972	1.86	0.91	0.26	0.40	0.30	0.66	1.92	2.76	9.36	3.11	3.26	0.63	25.43	8
1973	0.77	0.32	0.30	0.09	0.25	3.33	3.68	1.64	3.56	3.47	1.53	2.13	21.07	25
1974	0.64	0.85	0.67	0.45	0.29	0.27	1.26	1.72	0.79	4.26	1.95	0.80	13.95	61
1975	2.04	0.31	0.36	0.84	0.52	1.21	2.92	2.36	4.75	1.17	0.64	0.09	17.21	45
1976	0.57	0.44	0.90	0.28	1.12	0.37	3.83	3.61	6.15	3.32	1.77	1.17	23.53	16
1977	0.25	0.73	0.25	0.79	0.53	1.76	1.75	1.73	3.33	3.90	3.18	1.83	20.03	30
1978	0.75	0.84	0.80	0.35	0.90	0.32	2.94	7.04	1.78	3.70	1.81	0.61	21.84	21
1979	0.60	0.80	0.81	0.50	0.56	0.46	1.25	1.65	4.55	8.28	2.97	0.23	22.66	17
1980	0.81	0.49	0.26	0.35	0.41	0.98	1.53	2.74	2.56	2.29	2.86	0.91	16.19	53
1981	1.81	0.49	0.45	0.06	0.15	0.27	0.64	6.32	1.45	5.43	1.23	0.66	18.96	37
1982	1.99	0.09	0.80	0.66	0.81	1.76	1.21	5.81	4.23	3.32	2.13	2.58	25.39	9
1983	1.98	0.41	0.74	0.53	0.22	1.58	1.14	2.62	2.82	1.29	4.65	0.67	18.65	40
1984	2.42	1.34	0.58	0.24	0.22	0.67	3.65	1.89	4.24	3.93	1.22	1.03	21.43	23
1985	0.90	1.01	0.33	0.27	0.22	1.13	1.23	1.25	1.46	2.35	1.27	1.86	13.28	63
1986	0.73	1.63	0.78	0.30	1.48	0.62	3.66	1.87	5.12	1.98	1.41	5.59	25.17	10
1987	1.90	1.30	0.03	0.25	1.63	1.32	0.25	5.09	0.60	1.67	2.39	1.01	17.44	44
1988	0.83	0.41	0.33	0.31	0.54	0.74	0.86	2.85	2.84	1.89	2.71	0.27	14.58	59
1989	0.55	0.97	0.47	0.20	0.61	1.01	1.99	2.42	2.26	1.55	3.06	3.89	18.98	36
1990	1.07	0.68	0.77	0.16	0.80	1.84	2.01	3.89	1.36	4.16	1.57	1.25	19.56	33
1991	0.79	0.51	0.67	0.40	0.84	0.79	3.27	6.68	4.07	2.99	1.71	0.94	23.66	14
1992	1.28	1.13	0.10	0.30	0.29	2.30	1.30	2.30	3.99	3.72	1.40	0.70	18.81	39
1993	0.70	0.74	1.11	0.67	0.95	0.62	2.80	5.07	5.35	3.78	1.97	1.29	25.05	11
1994	2.02	0.54	1.00	0.63	0.69	0.72	2.87	1.83	1.51	1.42	1.18	0.66	15.07	57
1995	4.24	1.02	0.37	0.06	0.59	1.22	2.60	7.36	4.81	3.46	1.28	1.45	28.46	2
1996	2.72	0.86	0.24	1.28	0.28	2.14	2.50	6.35	2.38	2.72	5.23	2.27	28.97	1
1997	4.34	0.86	1.28	0.46	0.74	0.47	3.00	4.07	2.94	6.00	2.54	1.47	28.17	5
1998	1.30	0.29	0.57	0.38	1.15	1.70	1.00	3.04	6.33	4.61	2.98	2.93	26.28	6
Mean 1961-90	1.00	0.61	0.54	0.39	0.61	0.97	2.16	3.38	3.79	3.29	2.07	1.51	20.31	

Measured (shaded) and estimated precipitation, in inches, for site 41, Rochford (397222)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.11	0.77	0.30	0.91	0.54	1.20	1.40	1.82	1.18	2.02	1.75	0.36	14.36	62
1932	1.48	1.75	0.37	1.47	0.16	0.85	5.51	3.73	1.66	3.23	3.35	0.93	24.49	17
1933	3.30	0.30	0.43	0.69	0.73	1.46	3.83	4.93	2.16	1.99	4.01	0.28	24.11	18
1934	0.16	0.53	0.34	0.39	0.34	0.74	0.92	0.36	4.90	0.73	1.13	1.04	11.58	67
1935	1.56	0.57	0.83	0.20	0.62	0.83	1.54	5.42	4.74	3.56	1.15	0.70	21.72	31
1936	0.38	0.65	0.43	0.76	0.49	1.06	1.85	0.63	2.05	1.00	1.64	0.45	11.39	68
1937	0.81	0.93	0.09	0.28	0.31	1.27	0.50	2.00	4.40	3.42	0.65	1.67	16.33	56
1938	0.36	0.25	0.87	0.95	0.20	0.68	2.34	3.63	1.08	2.40	0.25	0.75	13.76	64
1939	0.39	0.67	0.65	0.69	0.11	0.88	1.63	1.50	2.44	1.18	4.14	0.98	15.26	58
1940	1.00	0.00	0.35	0.17	0.16	0.89	2.29	0.67	2.13	1.39	1.98	1.76	12.79	66
1941	1.19	0.28	0.36	0.05	0.04	0.97	4.67	1.99	5.32	2.66	2.09	1.02	20.64	35
1942	1.77	0.23	0.62	0.15	0.27	1.21	3.11	3.85	2.94	1.78	2.05	2.12	20.10	38
1943	2.34	0.74	0.52	0.66	0.45	1.03	2.89	3.19	3.78	1.66	1.20	0.25	18.71	46
1944	1.17	0.80	0.01	1.20	0.06	0.36	1.30	2.78	2.99	2.15	0.15	0.52	13.49	65
1945	1.08	2.22	0.07	0.81	0.16	0.98	1.26	2.46	3.11	0.65	4.15	1.57	18.52	48
1946	0.04	0.06	0.39	0.17	0.31	1.58	2.54	8.75	3.80	3.51	1.67	4.03	26.85	11
1947	5.89	0.21	0.72	1.67	0.16	0.44	1.88	1.47	6.07	0.77	1.19	0.56	21.03	33
1948	1.46	0.67	0.01	0.59	0.12	0.07	3.32	2.07	6.30	4.58	2.80	0.73	22.72	27
1949	0.54	1.38	0.30	3.49	0.24	0.40	2.05	2.91	3.00	2.10	0.45	0.62	17.48	53
1950	1.29	0.07	0.57	0.15	0.45	3.14	1.77	1.59	1.71	4.44	0.88	1.87	17.93	50
1951	0.58	0.63	0.06	0.10	0.24	0.73	1.53	2.24	3.31	2.48	3.27	2.26	17.43	54
1952	1.19	0.54	2.15	0.10	0.42	1.14	0.69	8.19	2.11	1.99	1.33	0.58	20.43	37
1953	0.39	0.59	0.19	1.38	1.33	1.27	3.09	2.79	3.38	1.86	2.97	0.28	19.52	42
1954	0.26	0.75	0.76	0.21	0.84	2.01	0.24	3.06	2.24	1.93	3.03	0.63	15.96	57
1955	1.77	0.78	0.48	0.86	0.94	0.87	2.29	2.70	3.83	3.40	2.76	2.34	23.02	26
1956	0.61	0.91	0.75	0.61	0.28	1.00	1.55	4.05	1.65	2.19	3.53	0.42	17.55	52
1957	0.56	2.16	0.46	0.42	0.22	0.77	2.08	5.79	4.12	3.76	2.69	0.93	23.96	22
1958	0.68	0.71	0.48	0.59	0.72	0.63	3.09	1.53	4.02	4.85	1.81	0.38	19.49	43
1959	1.18	1.32	0.75	0.95	1.47	1.46	1.86	3.00	4.30	1.09	0.25	2.15	19.78	40
1960	0.78	2.22	0.66	0.38	1.28	1.16	2.08	1.53	5.12	1.09	3.08	1.15	20.53	36
1961	0.19	0.75	1.42	0.18	0.68	0.66	2.17	1.18	1.58	2.97	0.82	2.42	15.02	60
1962	0.93	0.57	1.13	1.16	0.96	0.74	1.75	10.02	6.34	4.16	1.22	1.96	30.94	2
1963	1.20	0.52	0.82	1.44	2.53	1.65	5.17	3.28	6.86	2.50	0.37	2.44	28.78	7
1964	0.89	0.24	1.11	0.90	2.64	1.22	2.31	5.00	8.69	0.77	5.56	0.86	30.19	4
1965	0.42	0.75	1.53	1.80	0.65	0.78	2.13	9.40	4.88	3.04	1.97	2.37	29.72	5
1966	0.02	0.54	0.38	0.36	0.97	1.86	3.52	0.40	1.60	3.51	3.01	2.15	18.32	49
1967	1.48	0.71	0.89	0.99	1.71	0.69	3.29	3.10	6.27	1.96	1.31	3.44	25.84	14
1968	1.12	0.73	1.52	0.56	0.73	0.40	1.52	2.96	5.49	3.37	3.31	2.11	23.82	23
1969	0.42	1.44	1.03	0.85	0.80	1.08	3.85	2.62	4.07	4.31	1.23	0.79	22.49	29
1970	1.38	1.13	1.17	1.06	0.69	2.02	3.15	4.21	3.91	2.17	1.79	1.30	23.98	20
1971	1.63	1.66	0.77	1.42	1.29	1.89	4.33	4.61	2.40	1.17	1.93	3.06	26.16	12
1972	2.67	1.11	0.35	0.81	0.63	1.12	2.43	5.23	6.15	3.35	3.65	0.59	28.09	9
1973	0.94	0.54	0.82	0.22	0.43	3.24	4.31	2.68	3.94	2.36	1.76	2.41	23.65	24
1974	0.97	0.73	1.27	0.52	0.69	0.58	2.07	1.72	1.37	3.77	3.83	1.06	18.58	47
1975	1.65	0.79	0.93	1.66	0.70	2.39	3.27	2.34	5.37	1.00	0.83	0.27	21.20	32
1976	0.92	0.72	1.49	0.84	1.31	0.70	3.18	3.83	7.39	3.21	1.24	1.26	26.09	13
1977	0.46	1.37	0.95	1.95	1.61	3.39	2.30	2.01	2.77	2.18	3.06	2.02	24.07	19
1978	1.45	1.28	1.04	0.42	1.35	0.54	4.21	6.42	2.45	4.27	1.78	0.56	25.77	15
1979	0.94	1.01	1.24	0.74	0.90	0.70	1.44	2.22	4.48	5.95	3.42	0.39	23.43	25
1980	0.98	0.88	0.49	0.55	0.51	1.08	1.67	3.48	2.17	1.55	3.13	1.07	17.56	51
1981	1.79	0.76	0.86	0.21	0.23	0.21	0.57	6.02	2.34	5.31	1.12	1.39	20.81	34
1982	1.55	0.41	0.70	1.15	2.03	4.15	2.46	6.28	3.82	3.36	1.77	1.81	29.49	6
1983	3.01	0.47	0.88	1.09	0.29	1.48	1.26	2.67	2.13	1.62	4.38	0.59	19.87	39
1984	2.46	1.65	0.58	0.83	0.42	1.51	4.17	1.56	3.86	2.72	1.66	0.79	22.21	30
1985	0.99	1.26	0.34	0.49	0.74	1.29	1.11	1.27	1.70	1.82	2.00	1.63	14.64	61
1986	0.63	1.58	1.23	0.81	1.54	0.87	3.47	1.81	4.67	1.68	1.30	4.39	23.98	21
1987	1.96	1.41	0.15	0.59	1.33	1.05	0.32	3.38	0.97	1.23	1.79	0.93	15.11	59
1988	0.69	0.44	0.32	0.66	0.96	1.22	0.69	3.58	1.86	0.92	1.92	0.72	13.98	63
1989	1.01	1.45	0.69	0.27	0.87	1.12	2.80	2.73	2.22	1.46	2.82	2.12	19.56	41
1990	1.34	0.83	1.42	0.57	0.80	2.04	1.66	2.64	0.93	2.85	2.57	1.39	19.04	45
1991	0.69	0.40	0.85	0.75	1.37	0.80	2.70	5.93	3.97	3.09	1.29	0.67	22.51	28
1992	1.37	0.97	0.11	0.47	0.25	2.14	1.83	2.73	3.70	2.96	2.03	0.78	19.34	44
1993	0.55	1.40	1.03	0.64	0.88	0.47	2.33	5.30	5.47	4.09	2.17	1.13	25.46	16
1994	1.59	0.84	1.66	1.33	0.71	0.96	2.59	1.27	1.42	2.05	1.34	0.85	16.61	55
1995	5.14	1.19	0.27	0.10	0.74	1.43	2.78	7.87	3.90	2.73	0.61	1.28	28.04	10
1996	2.74	1.16	0.16	1.90	0.48	2.38	2.68	5.53	2.15	3.52	2.90	2.93	28.53	8
1997	4.55	0.71	1.41	0.96	1.25	0.63	3.59	3.09	3.08	7.19	3.39	1.06	30.91	3
1998	1.04	0.92	1.11	0.29	1.81	1.73	0.57	1.86	6.84	9.46	3.74	2.62	31.99	1
Mean 1961-90	1.20	0.92	0.92	0.84	1.03	1.39	2.55	3.62	3.76	2.68	2.22	1.61	22.75	

Measured (shaded) and estimated precipitation, in inches, for site 42, Rochford 2WNW (397227)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.03	0.75	0.39	0.90	0.53	1.33	1.43	1.78	1.22	1.89	1.69	0.36	14.30	64
1932	1.39	1.63	0.38	1.51	0.18	0.93	5.54	3.88	2.02	3.19	3.14	0.90	24.69	17
1933	3.17	0.35	0.52	0.78	0.75	1.49	3.90	5.05	2.11	1.87	3.70	0.35	24.04	21
1934	0.18	0.53	0.39	0.48	0.36	0.81	0.98	0.40	4.89	0.68	1.23	1.11	12.04	67
1935	1.48	0.59	0.82	0.19	0.65	0.97	1.62	5.22	4.56	3.68	1.12	0.72	21.62	31
1936	0.38	0.70	0.49	0.78	0.51	1.09	1.77	0.59	2.01	1.07	1.59	0.45	11.43	68
1937	0.81	0.89	0.12	0.31	0.36	1.22	0.49	2.04	4.36	3.56	0.73	1.60	16.49	54
1938	0.36	0.31	0.94	1.14	0.26	0.73	2.41	3.76	1.25	2.31	0.29	0.78	14.54	63
1939	0.35	0.72	0.74	0.83	0.24	0.92	1.85	1.58	2.49	1.24	4.08	0.95	15.99	56
1940	1.04	0.00	0.42	0.23	0.28	0.97	2.44	0.75	2.16	1.38	1.93	1.74	13.34	65
1941	1.19	0.32	0.39	0.06	0.06	1.05	4.83	2.09	5.56	2.74	2.11	1.13	21.53	32
1942	1.85	0.27	0.63	0.18	0.33	1.29	3.10	3.96	3.15	1.81	2.02	2.14	20.73	37
1943	2.34	0.87	0.60	0.75	0.56	1.05	2.97	3.18	3.92	1.76	1.23	0.28	19.51	44
1944	1.23	0.90	0.05	1.42	0.14	0.54	1.36	2.81	3.23	2.21	0.19	0.53	14.61	62
1945	1.05	2.20	0.16	0.84	0.27	1.16	1.30	2.75	3.25	0.79	4.12	1.80	19.69	42
1946	0.08	0.10	0.49	0.26	0.40	1.68	2.51	9.02	3.90	3.39	1.60	4.11	27.54	11
1947	5.47	0.22	0.75	1.60	0.29	0.61	2.03	1.46	6.35	0.98	1.16	0.56	21.48	33
1948	1.49	0.79	0.03	0.73	0.21	0.10	3.19	2.00	6.18	4.48	2.75	0.74	22.69	29
1949	0.53	0.68	0.00	0.96	0.14	0.40	1.86	2.47	2.87	1.44	0.50	0.55	12.40	66
1950	0.95	0.48	0.47	0.30	0.22	1.87	1.86	1.64	1.89	4.32	2.43	2.61	19.04	47
1951	0.46	0.45	0.05	0.17	0.23	0.67	1.54	2.19	3.17	2.38	3.24	2.23	16.78	53
1952	1.23	0.68	2.22	0.11	0.48	1.17	0.68	8.31	2.03	2.07	1.38	0.55	20.91	35
1953	0.27	0.65	0.28	1.43	1.43	1.24	3.16	2.92	3.47	2.06	3.10	0.34	20.35	39
1954	0.28	0.78	0.87	0.22	0.93	2.09	0.30	3.17	2.11	1.84	2.99	0.69	16.27	55
1955	1.80	0.77	0.61	0.98	0.93	1.01	2.39	2.72	3.92	3.35	2.51	2.42	23.41	26
1956	0.70	0.97	0.85	0.59	0.33	1.11	1.56	4.00	1.78	2.32	3.46	0.46	18.13	51
1957	0.61	2.27	0.51	0.48	0.24	0.99	2.02	5.66	4.15	3.63	2.72	0.93	24.21	18
1958	0.74	0.85	0.55	0.64	0.84	0.66	3.10	1.58	4.00	4.90	1.83	0.40	20.09	40
1959	1.19	1.33	0.75	0.95	1.49	1.47	1.84	2.98	4.38	1.03	0.24	2.15	19.80	41
1960	0.80	2.22	0.65	0.37	1.29	1.16	2.08	1.50	5.21	1.03	3.08	1.13	20.52	38
1961	0.18	0.75	1.41	0.17	0.68	0.66	2.18	1.18	1.57	3.01	0.86	2.45	15.10	60
1962	0.89	0.58	1.14	1.18	0.97	0.72	1.75	9.89	6.09	4.05	1.19	1.98	30.43	3
1963	1.14	0.53	0.84	1.44	2.56	1.61	5.13	3.40	6.89	2.49	0.36	2.41	28.80	7
1964	0.88	0.25	1.11	0.90	2.67	1.21	2.31	5.00	8.79	0.71	5.71	0.85	30.39	4
1965	0.44	0.74	1.54	1.82	0.64	0.78	2.10	9.25	4.87	3.12	1.93	2.38	29.61	6
1966	0.02	0.56	0.38	0.37	0.99	1.81	3.49	0.39	1.63	3.55	2.97	2.07	18.23	50
1967	1.49	0.72	0.90	1.00	1.71	0.69	3.22	3.05	6.16	1.98	1.36	3.51	25.79	15
1968	1.14	0.74	1.53	0.55	0.74	0.40	1.50	2.97	5.48	3.47	3.33	2.12	23.97	22
1969	0.42	1.46	1.03	0.87	0.81	1.07	3.87	2.60	4.13	4.38	1.25	0.86	22.75	28
1970	1.38	1.21	1.25	1.15	0.71	2.08	3.14	4.24	3.87	2.13	1.63	1.29	24.08	20
1971	1.67	1.69	0.77	1.50	1.34	1.92	4.15	4.53	2.39	1.17	2.02	3.10	26.25	12
1972	2.72	1.11	0.38	0.87	0.63	1.16	2.39	5.23	5.69	3.36	3.68	0.62	27.84	10
1973	0.94	0.54	0.81	0.22	0.43	3.18	4.26	2.64	3.99	2.28	1.83	2.45	23.57	23
1974	0.91	0.72	1.27	0.53	0.70	0.57	2.05	1.71	1.36	3.74	4.08	1.05	18.69	49
1975	1.59	0.79	0.94	1.67	0.69	2.45	3.21	2.32	5.42	0.97	0.82	0.29	21.16	34
1976	0.95	0.74	1.48	0.88	1.35	0.74	3.00	3.86	7.44	3.18	1.18	1.28	26.08	13
1977	0.47	1.38	0.95	2.00	1.74	3.30	2.30	2.06	2.74	2.13	3.07	2.04	24.18	19
1978	1.44	1.26	1.04	0.41	1.37	0.55	4.15	6.45	2.49	4.31	1.75	0.58	25.80	14
1979	0.99	1.03	1.31	0.78	0.95	0.72	1.44	2.31	4.44	5.67	3.50	0.42	23.56	24
1980	0.98	0.93	0.52	0.58	0.52	1.09	1.66	3.65	2.06	1.54	3.25	1.12	17.90	52
1981	1.75	0.77	0.87	0.21	0.24	0.20	0.56	5.90	2.39	5.31	1.10	1.50	20.80	36
1982	1.48	0.46	0.72	1.24	2.45	4.92	2.78	6.05	3.65	3.27	1.50	1.52	30.04	5
1983	2.94	0.48	0.91	1.21	0.31	1.35	1.20	2.62	1.83	1.66	4.23	0.55	19.29	45
1984	2.58	1.77	0.59	1.06	0.49	1.56	4.21	1.47	3.62	2.52	1.59	0.78	22.24	30
1985	1.03	1.31	0.36	0.55	0.96	1.39	1.13	1.19	1.69	1.91	2.05	1.68	15.25	58
1986	0.60	1.58	1.25	0.92	1.62	0.92	3.35	1.76	4.62	1.42	1.29	4.10	23.43	25
1987	1.94	1.45	0.16	0.71	1.27	0.97	0.38	3.27	1.13	1.24	1.74	0.97	15.23	59
1988	0.67	0.43	0.32	0.79	1.09	1.36	0.69	3.76	1.92	0.97	1.90	0.96	14.86	61
1989	0.97	1.45	0.83	0.26	0.82	1.06	3.14	2.64	2.14	1.32	2.68	1.95	19.26	46
1990	1.42	0.82	1.68	0.68	0.90	1.95	1.57	2.52	0.95	2.70	2.88	1.50	19.57	43
1991	0.69	0.41	0.98	0.73	1.44	0.91	2.44	5.88	4.14	3.12	1.29	0.82	22.85	27
1992	1.37	0.93	0.06	0.49	0.22	2.09	1.83	2.72	3.62	2.76	2.13	0.76	18.98	48
1993	0.55	1.61	1.00	0.56	0.87	0.62	2.03	5.23	5.38	4.35	2.31	1.04	25.55	16
1994	1.48	0.77	1.62	1.34	0.60	0.87	2.45	1.11	1.23	2.12	1.44	0.89	15.92	57
1995	5.29	1.14	0.31	0.19	0.84	1.48	2.72	7.59	3.93	2.81	0.54	1.21	28.05	9
1996	2.64	1.22	0.11	2.08	0.57	2.25	2.84	5.36	2.16	3.65	2.71	3.01	28.60	8
1997	4.56	0.67	1.32	1.11	1.36	0.57	3.71	3.01	3.06	7.50	3.18	1.03	31.08	2
1998	1.00	0.92	1.30	0.26	1.82	1.67	0.52	1.81	6.95	10.10	3.68	2.46	32.49	1
Mean 1961-90	1.20	0.94	0.94	0.88	1.08	1.41	2.54	3.60	3.71	2.65	2.22	1.61	22.81	

Measured (shaded) and estimated precipitation, in inches, for site 43, Rumford (397367)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.59	0.44	0.03	0.10	0.41	0.86	0.26	1.30	1.72	1.09	1.58	0.57	11.95	62
1932	1.57	0.39	0.51	0.57	0.24	1.18	3.91	2.73	1.06	1.53	2.34	0.17	16.20	32
1933	1.06	0.09	0.22	0.04	0.35	1.37	3.41	4.07	0.63	1.17	4.57	0.21	17.19	25
1934	0.07	0.21	0.20	0.33	0.36	0.87	1.05	0.37	3.35	2.97	2.22	1.24	13.24	54
1935	1.32	0.22	0.13	0.09	0.29	2.17	4.28	6.24	1.54	1.07	1.28	0.44	19.07	13
1936	0.38	0.26	0.26	0.53	1.22	0.88	0.75	1.25	1.68	0.65	1.49	1.11	10.46	66
1937	0.60	0.89	0.27	0.51	0.40	1.63	0.63	2.42	3.48	1.18	0.37	0.39	12.77	58
1938	1.04	0.40	0.35	0.48	0.14	2.08	2.00	3.16	1.46	1.33	0.77	2.34	15.55	34
1939	0.21	0.83	0.22	0.67	0.49	0.63	0.54	2.91	1.74	0.47	2.74	0.76	12.21	61
1940	1.08	0.00	0.19	0.38	0.52	0.88	5.02	0.45	2.12	0.98	0.92	1.82	14.36	44
1941	0.54	0.41	0.22	0.29	0.18	0.87	4.45	0.77	5.03	3.90	1.73	1.09	19.48	9
1942	0.85	0.40	0.81	0.04	0.66	1.11	4.38	6.02	4.18	2.82	0.22	1.54	23.03	2
1943	1.72	0.57	0.16	0.39	0.18	0.80	2.30	6.50	3.21	1.79	0.29	0.31	18.22	16
1944	1.63	0.03	0.10	0.57	0.44	0.32	1.81	2.92	2.76	4.18	1.79	0.22	16.77	30
1945	0.40	0.82	0.57	0.30	0.41	1.38	0.47	1.32	3.14	1.50	2.66	2.01	14.98	40
1946	0.24	0.06	0.75	0.32	0.28	1.01	0.97	5.64	3.07	0.56	0.92	3.86	17.68	20
1947	0.86	0.11	0.39	0.27	0.09	0.41	1.10	3.29	8.15	1.40	0.60	1.33	18.00	18
1948	0.94	1.29	0.26	0.02	0.58	0.46	2.06	2.19	3.64	2.70	2.02	0.80	16.96	29
1949	1.37	0.71	0.13	2.55	0.00	0.15	1.84	2.22	1.30	1.77	0.60	1.12	13.76	48
1950	1.34	0.08	0.57	0.18	0.05	1.33	1.35	1.26	1.11	3.93	1.68	2.45	15.33	35
1951	0.36	0.18	0.14	0.09	0.00	0.39	0.62	1.28	4.05	3.56	0.82	1.78	13.27	53
1952	1.06	0.05	0.70	0.00	0.77	1.17	0.08	4.48	1.84	0.65	2.32	0.20	13.32	51
1953	0.21	0.57	0.25	0.39	1.03	0.09	1.42	0.47	1.93	0.82	0.79	0.47	8.44	68
1954	0.20	0.22	0.30	0.03	0.63	1.49	0.34	3.16	1.24	1.31	1.14	0.64	10.70	65
1955	1.64	0.02	0.03	0.29	0.70	0.52	1.55	2.93	3.05	1.92	1.68	3.05	17.38	21
1956	0.16	0.58	0.35	0.05	0.19	0.12	0.70	2.87	2.16	1.12	2.96	0.05	11.31	64
1957	0.50	1.68	0.13	0.10	0.07	1.03	0.89	5.91	3.41	1.55	0.46	1.35	17.08	28
1958	1.23	0.22	0.04	0.00	0.47	0.70	2.51	1.14	3.01	5.95	0.46	0.03	15.76	33
1959	0.05	0.18	0.29	0.49	0.34	0.82	0.56	2.90	3.20	1.93	0.25	3.15	14.16	46
1960	0.38	0.71	0.17	0.48	0.57	0.55	1.41	1.04	1.34	1.27	0.59	0.24	8.75	67
1961	0.05	0.94	0.85	0.11	0.16	0.68	1.46	2.91	0.93	3.43	0.78	0.98	13.28	52
1962	0.63	0.19	0.37	0.20	0.94	0.51	0.25	5.63	4.07	4.08	0.57	0.34	17.78	19
1963	1.18	0.20	0.30	0.94	0.23	1.95	2.12	2.05	4.41	2.77	0.89	1.90	18.94	14
1964	0.95	0.02	0.28	0.27	1.23	0.61	2.71	2.70	4.41	0.57	0.55	0.27	14.57	43
1965	0.39	0.22	0.48	0.58	0.54	0.73	1.28	5.59	2.61	3.15	1.07	2.75	19.39	11
1966	0.27	0.21	0.38	0.54	1.00	0.65	2.46	0.30	1.04	3.10	3.00	1.25	14.20	45
1967	2.18	0.72	0.42	0.50	0.18	0.89	3.24	3.20	7.16	1.46	0.19	0.78	20.92	5
1968	0.55	0.31	0.81	0.27	0.26	0.57	2.19	3.31	4.52	2.03	4.09	0.55	19.46	10
1969	0.49	0.26	0.42	0.45	0.69	0.38	1.20	1.06	2.22	3.66	0.15	0.40	11.38	63
1970	1.40	0.37	0.19	0.26	0.15	0.84	2.07	1.42	2.03	1.62	1.40	1.30	13.05	56
1971	1.30	0.46	0.19	0.31	0.85	0.48	2.79	5.62	2.52	1.77	0.16	2.77	19.22	12
1972	1.57	0.41	0.14	0.17	0.25	0.46	1.82	2.32	4.35	1.99	1.08	0.61	15.17	36
1973	1.30	0.19	0.17	0.40	0.36	3.00	3.58	1.55	1.14	3.24	0.88	3.12	18.93	15
1974	1.07	0.51	0.75	0.62	0.18	0.28	2.63	0.53	0.79	1.91	1.80	1.24	12.31	60
1975	1.71	0.11	0.05	0.60	0.46	1.29	1.47	1.95	3.74	0.32	0.53	0.10	12.33	59
1976	0.52	0.24	1.18	0.46	0.38	0.42	2.01	3.52	2.38	4.27	1.19	1.64	18.21	17
1977	0.44	0.22	0.12	0.38	0.12	1.61	2.48	2.08	1.88	1.54	2.44	1.72	15.03	39
1978	0.44	1.52	0.46	0.56	0.59	0.16	1.63	4.23	1.19	3.38	2.55	0.40	17.11	27
1979	0.46	0.52	0.59	0.37	0.35	0.42	0.77	2.22	2.18	3.50	3.12	0.25	14.75	42
1980	0.89	0.27	0.01	0.41	0.45	1.74	1.54	2.35	1.88	1.31	2.43	0.23	13.51	49
1981	1.12	0.60	0.59	0.31	0.27	0.44	0.75	3.28	1.50	2.52	1.63	0.33	13.34	50
1982	1.92	0.06	0.38	0.50	0.18	1.04	0.83	5.35	4.96	1.37	2.84	2.68	22.11	3
1983	1.61	0.85	0.32	0.28	0.08	1.42	0.85	2.72	3.24	1.28	2.18	0.31	15.14	37
1984	1.40	1.66	0.68	0.19	0.38	0.87	2.73	2.37	3.28	2.36	0.98	0.40	17.30	22
1985	1.24	0.47	0.32	0.40	0.35	0.58	1.92	1.47	1.80	1.64	0.60	2.29	13.08	55
1986	1.04	1.44	0.29	0.22	1.10	0.59	3.60	1.07	4.86	2.14	1.23	2.72	20.30	7
1987	2.86	0.64	0.18	0.10	1.52	1.99	0.50	3.72	0.99	0.97	1.18	0.46	15.11	38
1988	0.43	1.01	1.15	0.16	0.14	1.29	0.59	2.61	1.82	1.54	1.99	1.17	13.90	47
1989	0.28	0.58	0.35	0.00	0.46	1.05	1.52	1.35	1.92	1.88	1.65	3.83	14.87	41
1990	0.49	0.21	0.66	0.08	0.45	1.15	2.17	4.03	1.78	3.57	1.05	1.56	17.20	24
1991	0.93	0.82	0.56	0.27	0.77	0.73	1.74	5.14	3.34	1.07	1.05	0.76	17.18	26
1992	0.85	0.78	0.11	0.68	0.72	1.40	0.65	3.45	2.66	3.58	1.59	0.12	16.59	31
1993	0.93	0.56	0.97	0.55	1.29	1.23	1.84	1.76	5.60	3.46	2.17	1.33	21.69	4
1994	1.50	0.68	0.38	0.59	0.28	0.64	1.19	1.76	2.76	1.97	0.81	0.46	13.02	57
1995	2.87	0.20	1.04	0.46	0.43	0.64	1.52	4.73	3.76	1.75	0.32	2.49	20.21	8
1996	1.87	0.51	0.23	0.57	0.04	0.97	2.35	4.10	1.58	0.80	2.65	1.62	17.29	23
1997	2.09	0.49	0.77	0.52	0.63	0.22	2.73	3.47	3.88	6.96	1.52	0.68	23.96	1
1998	1.12	0.12	0.14	0.25	1.28	1.84	0.49	2.60	4.32	2.40	4.05	1.74	20.35	6
Mean 1961-90	1.01	0.51	0.44	0.35	0.48	0.94	1.84	2.75	2.72	2.28	1.47	1.28	16.06	

Measured (shaded) and estimated precipitation, in inches, for site 44, Saint Onge 2S (397418)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.02	0.57	0.47	0.50	0.43	1.47	1.02	1.51	0.86	1.24	1.00	0.46	11.55	67
1932	1.77	0.93	0.43	1.00	0.18	0.97	5.58	4.01	3.20	3.40	1.36	0.50	23.33	21
1933	1.91	0.31	0.44	0.25	0.51	2.74	4.10	5.12	1.77	1.21	1.33	0.93	20.62	35
1934	0.33	0.28	0.36	0.76	0.25	1.14	1.35	0.18	4.08	0.74	0.64	1.73	11.84	66
1935	0.90	0.64	0.48	0.12	0.38	1.27	1.32	3.80	3.06	1.23	0.97	0.43	14.60	60
1936	0.33	0.31	0.72	0.70	0.45	0.71	2.50	0.57	0.92	1.48	0.79	0.66	10.14	68
1937	1.06	0.57	0.09	0.30	0.31	1.04	0.56	2.66	4.38	6.07	0.94	2.14	20.12	37
1938	0.14	0.63	0.84	0.45	0.22	0.64	1.60	4.40	2.36	1.54	0.88	1.72	15.42	59
1939	0.11	0.71	0.50	0.43	0.82	0.28	1.53	1.02	2.98	1.84	2.61	0.98	13.81	65
1940	0.96	0.08	0.40	0.31	0.66	1.77	3.96	1.50	3.96	1.13	1.31	2.08	18.12	54
1941	0.41	0.93	0.47	0.22	0.12	0.73	5.85	2.49	8.96	1.33	1.88	3.98	27.37	11
1942	1.11	0.44	0.83	0.10	0.30	0.38	4.35	6.56	4.50	0.94	1.40	1.81	22.72	25
1943	1.51	1.33	0.68	0.96	0.61	1.13	1.45	1.37	4.90	1.55	0.72	0.41	16.62	56
1944	1.30	1.26	0.75	2.22	0.69	1.93	1.95	2.59	6.32	1.59	1.49	0.48	22.57	26
1945	0.89	4.78	1.27	0.98	0.89	2.43	1.21	3.41	5.08	1.26	1.16	4.35	27.71	10
1946	0.81	0.46	0.58	0.71	0.79	2.69	3.35	12.92	6.38	0.94	0.96	5.09	35.68	1
1947	3.27	0.38	0.89	0.66	0.90	1.15	2.09	0.89	9.31	0.81	0.81	0.94	22.10	28
1948	1.85	1.39	0.23	1.03	1.20	0.62	2.96	1.58	5.15	3.22	0.99	0.82	21.04	33
1949	0.69	3.48	0.35	3.18	0.42	0.92	2.22	2.57	1.87	0.99	0.77	1.14	18.60	50
1950	1.86	0.46	1.36	0.56	0.29	4.16	2.29	2.41	1.51	1.70	1.91	2.97	21.48	30
1951	0.82	1.10	0.24	0.30	0.35	0.90	1.16	1.80	4.47	2.08	3.58	2.35	19.15	45
1952	2.06	0.96	1.63	0.32	0.64	1.13	0.36	5.70	1.33	3.19	1.12	0.17	18.61	49
1953	0.09	0.56	0.28	1.38	1.84	0.51	3.37	3.70	4.33	1.01	2.57	0.43	20.07	39
1954	0.31	1.18	0.50	0.37	0.91	2.70	0.82	4.40	3.16	1.17	1.27	0.28	17.07	55
1955	1.46	0.57	0.48	0.59	0.88	0.85	3.53	3.21	3.36	1.93	1.60	2.18	20.64	34
1956	1.17	0.81	1.22	0.41	0.29	0.83	1.53	3.92	2.07	2.57	2.03	1.34	18.19	53
1957	0.78	3.12	0.43	0.43	0.23	1.18	1.84	4.54	4.14	3.35	1.94	1.30	23.28	22
1958	1.12	1.10	0.15	0.35	1.41	0.35	4.07	1.27	3.55	5.71	1.16	0.09	20.33	36
1959	0.78	1.00	0.73	0.66	1.02	0.75	1.10	2.73	2.52	0.78	0.19	1.69	13.95	64
1960	0.71	2.09	0.83	0.52	0.99	1.51	1.36	1.35	2.75	0.67	2.88	0.90	16.56	57
1961	0.64	0.72	1.59	0.16	0.65	0.40	2.34	0.92	1.92	1.81	0.59	2.64	14.38	63
1962	1.18	0.77	0.84	0.93	0.62	0.91	1.83	10.20	5.87	3.95	1.08	1.69	29.87	4
1963	2.48	0.73	0.55	1.26	2.30	1.55	4.47	1.99	6.04	2.79	0.80	2.04	27.00	13
1964	1.18	0.15	0.78	0.64	1.47	1.13	1.91	4.23	8.23	0.81	4.65	0.34	25.52	16
1965	0.33	1.17	0.80	1.10	0.95	0.98	2.01	10.01	4.18	1.18	2.09	2.57	27.37	12
1966	0.00	0.36	0.39	0.37	0.91	3.58	3.42	0.86	1.68	1.81	2.98	3.18	19.54	42
1967	2.69	0.78	0.67	0.80	1.38	0.69	4.14	2.22	4.34	0.80	0.59	4.03	23.13	24
1968	1.01	0.59	1.16	0.56	0.73	0.90	1.63	2.15	5.69	3.10	1.84	2.54	21.90	29
1969	0.61	1.19	1.53	0.49	0.58	1.22	4.17	3.11	3.79	1.48	0.31	0.14	18.62	48
1970	1.38	0.87	1.49	1.03	0.79	2.16	4.84	5.89	3.56	1.98	2.69	1.57	28.25	8
1971	1.55	2.54	0.94	1.64	1.54	1.89	2.96	5.46	2.97	0.40	0.78	3.71	26.38	14
1972	4.01	1.33	0.48	0.76	0.48	1.39	2.90	4.82	6.36	2.13	3.74	0.32	28.72	7
1973	1.54	0.28	1.11	0.34	0.50	4.32	4.31	3.84	2.24	1.91	1.75	1.91	24.05	20
1974	1.96	0.70	1.24	0.38	0.84	0.88	3.77	2.39	1.65	2.31	2.94	0.75	19.81	40
1975	1.18	0.83	0.95	1.64	0.85	1.85	3.13	2.46	4.37	1.30	0.55	0.20	19.31	44
1976	1.04	0.83	1.34	0.93	1.30	1.09	3.76	2.90	12.31	2.03	0.73	1.33	29.59	5
1977	0.84	1.05	0.82	1.14	1.36	4.59	1.72	1.99	2.20	2.10	2.89	1.68	22.38	27
1978	3.10	1.34	1.03	0.36	1.27	0.41	4.10	5.34	1.76	4.29	1.95	0.34	25.29	17
1979	0.68	1.52	0.94	0.74	1.13	0.82	1.36	1.88	3.40	3.40	3.70	0.51	20.08	38
1980	1.42	0.53	0.38	0.65	0.44	1.23	1.94	2.74	2.83	0.94	2.23	0.98	16.31	58
1981	1.98	0.86	1.44	0.41	0.30	0.20	0.40	4.73	3.61	4.41	1.17	1.82	21.33	31
1982	1.78	0.69	0.53	0.97	0.60	2.43	2.08	13.13	2.83	2.49	2.13	2.55	32.21	3
1983	5.04	0.29	0.82	0.45	0.16	1.60	2.37	2.63	0.96	1.67	3.12	0.70	19.81	41
1984	1.80	1.63	1.28	0.32	0.44	1.27	5.32	1.65	7.21	1.31	2.35	1.01	25.59	15
1985	0.79	1.34	1.02	0.51	0.22	1.85	1.12	1.69	2.48	0.80	0.67	2.08	14.57	62
1986	0.85	1.79	2.11	1.27	1.33	0.89	5.52	2.21	4.52	2.95	0.63	4.78	28.85	6
1987	2.51	1.72	0.21	0.45	1.50	2.78	0.59	4.16	0.70	1.57	3.82	1.13	21.14	32
1988	0.48	0.74	0.78	0.84	0.80	3.46	0.88	4.03	2.63	0.60	1.11	2.62	18.97	46
1989	1.14	1.08	0.33	0.09	0.46	2.01	4.40	2.03	2.52	1.76	1.05	2.04	18.91	47
1990	2.28	1.87	2.04	0.39	0.62	1.07	2.51	2.96	0.98	2.80	0.43	0.25	18.20	52
1991	1.08	0.81	0.70	1.04	1.52	1.31	2.58	5.71	2.62	0.97	0.68	0.46	19.48	43
1992	1.26	1.76	0.08	0.42	0.72	1.63	2.80	2.21	3.58	2.31	0.84	0.63	18.24	51
1993	0.83	0.98	1.78	0.89	0.66	1.83	3.14	4.20	7.22	3.73	1.40	1.43	28.09	9
1994	0.64	0.85	1.57	1.45	0.45	0.83	3.20	0.73	0.60	2.41	1.01	0.86	14.60	61
1995	6.88	1.20	0.06	0.24	0.70	1.04	1.79	9.76	6.59	2.67	2.14	0.92	33.99	2
1996	4.64	1.03	0.28	1.52	0.24	1.64	2.07	5.82	1.00	1.03	1.45	2.49	23.21	23
1997	4.49	0.91	1.51	0.55	0.96	1.05	2.09	3.43	2.51	4.15	1.24	1.26	24.15	19
1998	1.04	0.72	0.46	0.77	1.81	1.51	1.06	3.16	6.30	2.70	3.08	2.09	24.70	18
Mean 1961-90	1.58	1.01	0.99	0.72	0.88	1.65	2.86	3.82	3.79	2.03	1.85	1.72	22.90	

Measured (shaded) and estimated precipitation, in inches, for site 45, Smithwick 6SW (397797)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.86	0.62	0.14	0.25	0.68	1.50	0.39	1.76	1.11	2.17	2.70	0.96	16.14	34
1932	0.96	0.70	1.19	1.28	0.39	1.87	3.09	2.43	2.34	3.39	1.32	0.13	19.09	17
1933	1.62	0.09	0.48	0.02	0.45	1.30	4.17	6.73	0.78	0.76	4.70	0.11	21.21	8
1934	0.22	0.18	0.24	0.44	0.32	1.72	0.97	0.68	2.79	2.64	1.54	0.86	12.60	56
1935	1.25	0.31	0.12	0.16	0.21	1.96	3.72	7.27	2.16	0.44	0.60	0.95	19.15	16
1936	0.39	0.16	0.34	0.18	0.64	0.66	0.90	0.73	2.02	0.23	0.95	1.28	8.48	68
1937	0.42	0.71	0.38	0.20	0.25	2.16	0.64	1.35	4.79	1.03	0.19	0.33	12.45	57
1938	1.10	0.36	0.13	0.33	0.04	1.81	1.75	3.21	2.12	2.30	1.16	1.72	16.03	35
1939	0.10	0.58	0.13	0.26	0.34	0.58	0.33	2.84	1.64	0.48	2.12	0.87	10.27	65
1940	0.88	0.00	0.29	0.41	0.35	0.76	4.11	0.46	1.07	1.44	0.40	1.42	11.59	63
1941	0.58	0.34	0.16	0.31	0.14	1.02	3.64	1.04	3.95	3.98	1.75	1.11	18.02	22
1942	1.06	0.26	0.66	0.08	0.35	0.91	3.28	5.46	4.09	2.95	0.39	1.71	21.20	9
1943	1.75	0.41	0.26	0.18	0.22	0.49	2.42	4.16	3.02	2.01	0.72	0.26	15.90	37
1944	1.37	0.08	0.07	0.71	0.42	0.41	2.47	3.51	2.50	3.67	1.99	0.13	17.33	26
1945	0.31	1.07	0.63	0.27	0.31	1.96	0.30	1.33	3.63	2.01	2.10	2.25	16.17	33
1946	0.03	0.01	0.59	0.18	0.30	0.97	1.39	6.74	3.39	0.64	0.75	3.44	18.43	20
1947	1.17	0.18	0.57	0.67	0.10	0.15	1.37	2.88	8.37	3.20	1.28	0.48	20.42	11
1948	0.94	1.35	0.28	0.02	0.54	0.47	2.14	2.45	3.34	2.87	2.02	0.52	16.94	30
1949	1.37	0.75	0.31	1.51	0.00	0.11	2.13	3.83	2.75	1.53	1.86	1.14	17.29	27
1950	0.97	0.00	0.32	0.25	0.03	0.86	1.90	1.47	0.91	2.00	1.30	2.13	12.14	60
1951	0.35	0.19	0.12	0.18	0.06	0.68	0.34	1.00	4.38	3.23	1.54	1.94	14.01	51
1952	0.59	0.12	0.43	0.03	0.45	0.93	0.35	5.15	2.61	0.85	0.71	0.07	12.29	59
1953	0.28	1.08	0.18	0.61	0.84	0.50	2.11	1.53	2.02	1.66	0.38	0.46	11.65	62
1954	0.33	0.28	0.17	0.07	0.47	0.92	0.71	3.58	2.60	2.42	0.57	0.57	12.69	55
1955	1.77	0.21	0.16	0.32	0.62	0.82	0.82	2.84	1.58	2.82	2.11	3.53	17.60	23
1956	0.21	0.36	0.45	0.65	0.10	0.31	0.93	3.79	1.54	0.85	0.71	0.12	10.02	67
1957	0.15	0.94	0.36	0.34	0.10	1.03	1.39	6.32	2.49	1.46	0.65	1.14	16.37	32
1958	1.86	0.27	0.11	0.07	1.31	1.13	2.53	1.26	2.64	5.31	0.34	0.09	16.92	31
1959	0.11	0.28	0.31	0.50	0.39	0.95	0.93	2.94	3.81	1.38	0.32	3.16	15.08	43
1960	0.32	0.83	0.30	0.52	0.79	0.43	1.62	1.21	2.13	0.77	0.80	0.35	10.07	66
1961	0.08	1.00	0.82	0.06	0.27	1.09	1.07	2.88	0.98	2.63	0.22	1.34	12.44	58
1962	0.68	0.45	0.34	0.21	1.04	0.91	0.31	5.60	5.33	3.83	0.82	0.60	20.12	12
1963	1.68	0.18	0.33	0.81	0.36	1.89	2.72	2.06	5.46	3.33	1.52	2.30	22.64	2
1964	0.92	0.03	0.26	0.16	0.58	1.16	2.42	2.87	4.10	0.53	0.77	0.29	14.09	48
1965	0.61	0.45	0.67	0.67	0.59	0.89	1.29	5.64	3.79	2.38	1.80	2.18	20.96	10
1966	0.35	0.21	0.34	0.30	0.74	0.42	2.46	0.32	1.04	3.65	3.47	2.07	15.37	41
1967	1.35	0.65	0.51	0.40	0.12	1.03	2.34	3.39	7.41	1.33	0.28	0.88	19.69	13
1968	0.47	0.29	0.84	0.34	0.23	0.84	1.37	3.31	5.13	2.37	3.18	0.90	19.27	15
1969	0.45	0.37	0.52	0.38	0.72	0.34	1.13	1.20	2.05	5.76	0.29	0.51	13.72	53
1970	1.09	0.24	0.29	0.20	0.22	1.09	2.86	1.60	2.62	1.74	0.52	1.58	14.05	49
1971	1.37	0.44	0.28	0.46	0.81	0.61	3.39	5.94	1.88	0.93	0.25	2.48	18.84	18
1972	1.56	0.70	0.23	0.26	0.13	0.74	1.69	2.86	4.08	1.40	1.46	0.63	15.74	39
1973	0.96	0.24	0.19	0.23	0.38	2.02	3.31	2.01	0.93	3.31	1.00	2.78	17.36	25
1974	1.21	0.82	0.76	0.56	0.17	0.21	2.26	0.79	1.21	1.50	3.33	1.21	14.03	50
1975	1.91	0.25	0.05	0.60	0.57	1.31	1.69	2.00	4.11	0.79	0.60	0.11	13.99	52
1976	0.68	0.29	0.91	0.56	0.54	0.73	3.14	2.41	2.84	3.23	1.23	0.66	17.22	28
1977	0.64	0.30	0.18	0.36	0.09	1.54	2.48	2.37	1.95	2.98	2.88	1.70	17.47	24
1978	0.85	0.98	0.53	0.51	0.68	0.18	1.78	3.54	1.44	3.19	2.01	0.30	15.99	36
1979	0.41	0.55	0.68	0.59	0.25	0.36	0.72	2.03	2.34	3.23	3.17	0.21	14.54	45
1980	0.92	0.34	0.02	0.30	0.54	1.16	0.92	2.02	3.69	1.64	2.51	0.28	14.34	46
1981	1.68	0.45	0.57	0.14	0.21	0.40	0.75	4.15	1.17	3.82	0.89	0.35	14.58	44
1982	1.38	0.13	0.75	0.52	0.30	1.10	1.02	6.84	4.43	1.28	2.14	2.56	22.45	3
1983	1.96	0.78	0.53	0.23	0.03	1.38	0.80	2.82	2.92	2.09	1.89	0.35	15.78	38
1984	1.21	1.49	0.68	0.34	0.41	0.88	3.17	2.34	2.95	2.27	0.71	0.60	17.05	29
1985	0.72	0.49	0.34	0.43	0.27	0.68	1.17	1.07	1.44	1.83	0.72	2.51	11.67	61
1986	1.26	1.66	0.26	0.47	0.86	0.70	3.82	1.28	5.58	1.58	0.81	2.99	21.27	6
1987	1.71	0.62	0.13	0.03	1.54	2.25	0.09	4.98	1.36	0.85	1.13	0.78	15.47	40
1988	0.50	0.64	0.69	0.24	0.16	0.27	0.62	3.65	2.28	2.05	1.94	1.15	14.19	47
1989	0.34	0.78	0.31	0.00	0.34	1.04	1.46	1.21	1.31	2.06	1.50	3.07	13.42	54
1990	0.50	0.18	0.32	0.05	0.40	1.24	1.85	4.14	1.98	2.63	0.78	1.20	15.27	42
1991	0.61	0.61	0.48	0.11	0.86	0.61	2.38	6.08	4.57	0.85	1.71	0.72	19.59	14
1992	1.30	0.91	0.09	0.36	0.81	1.90	0.63	3.63	3.47	3.68	1.40	0.29	18.47	19
1993	0.58	0.74	0.51	0.55	1.12	0.84	2.00	1.70	5.41	3.89	2.87	1.64	21.85	4
1994	1.53	0.83	0.46	0.46	0.39	0.51	0.77	1.27	2.09	1.35	1.43	0.45	11.54	64
1995	3.38	0.21	1.14	0.59	0.49	0.48	1.67	4.51	3.87	2.68	0.62	2.00	21.64	5
1996	1.96	0.56	0.14	0.57	0.02	0.70	2.17	4.40	1.07	0.97	3.80	1.71	18.07	21
1997	1.48	0.38	0.70	0.95	0.79	0.28	2.93	3.76	3.98	6.72	1.46	0.82	24.25	1
1998	1.44	0.00	0.05	0.41	0.85	1.85	0.29	3.24	3.79	3.30	3.63	2.39	21.24	7
Mean 1961-90	0.98	0.53	0.44	0.35	0.45	0.95	1.80	2.91	2.93	2.34	1.46	1.29	16.43	

Measured (shaded) and estimated precipitation, in inches, for site 46, Spearfish 9WNW (397877)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.12	0.59	0.43	0.96	0.40	0.83	1.16	0.92	1.51	1.84	0.48	0.65	11.89	63
1932	2.69	1.11	0.55	1.84	0.38	1.11	4.93	3.19	1.98	2.05	1.12	0.32	21.27	21
1933	1.87	0.38	0.80	0.34	0.40	1.79	4.48	3.15	1.46	0.26	0.81	1.04	16.78	47
1934	0.27	0.38	0.44	0.79	0.33	0.65	1.18	0.25	4.48	0.57	0.31	2.04	11.69	64
1935	0.08	0.75	0.60	0.10	0.40	1.23	1.69	3.90	3.05	0.80	1.48	0.12	14.20	57
1936	0.36	0.31	1.13	0.67	0.60	0.48	1.98	0.50	1.84	3.29	0.21	0.80	12.17	62
1937	1.34	0.52	0.20	0.24	0.51	0.84	0.36	3.17	4.50	4.83	0.69	1.76	18.96	35
1938	0.12	0.56	0.93	0.27	0.22	0.74	0.87	4.52	1.94	1.59	0.85	1.66	14.27	56
1939	0.06	0.77	0.38	0.23	1.01	0.25	1.06	1.59	2.79	2.20	3.52	1.09	14.95	53
1940	1.07	0.06	0.38	0.40	0.69	1.98	4.82	0.88	4.27	0.49	1.13	2.86	19.03	34
1941	0.22	1.03	0.50	0.16	0.15	0.75	6.62	3.68	9.06	0.90	1.39	4.23	28.69	2
1942	1.33	0.38	1.03	0.00	0.19	0.23	5.57	6.98	3.93	0.89	1.86	2.33	24.72	11
1943	0.89	0.92	0.21	0.61	0.54	1.20	0.95	0.81	4.35	0.51	0.79	0.56	12.34	61
1944	0.73	0.69	0.82	1.80	0.53	1.03	1.99	2.39	6.65	1.28	1.77	0.67	20.35	26
1945	0.15	2.54	0.83	0.60	0.89	1.36	1.00	2.66	4.40	1.77	2.04	4.00	22.24	18
1946	0.27	0.58	0.47	0.56	0.50	1.09	2.97	8.00	5.24	1.33	1.91	4.75	27.67	4
1947	3.89	0.22	0.70	0.35	0.57	1.07	2.15	0.75	6.70	0.84	0.15	0.92	18.31	39
1948	1.95	1.06	0.00	0.25	0.79	0.35	2.24	1.52	3.47	5.40	1.61	1.44	20.08	27
1949	0.33	1.72	0.05	2.72	0.45	0.80	2.46	2.53	1.97	0.85	1.15	0.95	15.98	50
1950	1.37	0.04	0.57	0.47	0.18	3.35	1.75	3.05	1.20	0.99	2.53	2.34	17.84	44
1951	0.50	1.45	0.08	0.20	0.40	0.75	1.08	1.39	6.50	1.39	3.56	2.35	19.65	30
1952	1.94	0.87	0.23	0.17	0.35	0.59	0.10	2.55	1.43	3.76	1.10	0.06	13.15	60
1953	0.08	0.25	0.25	0.85	1.42	0.24	2.48	3.22	2.58	0.40	2.62	0.18	14.57	55
1954	0.15	1.10	0.23	0.32	0.24	1.63	0.42	3.74	2.43	0.46	0.43	0.19	11.34	66
1955	1.19	0.31	0.19	0.02	0.51	0.37	1.85	3.22	2.43	2.84	1.73	1.93	16.59	48
1956	1.18	0.44	0.90	0.19	0.26	0.18	0.88	3.53	1.92	2.02	1.68	1.41	14.59	54
1957	0.50	1.25	0.10	0.18	0.17	0.65	1.10	2.55	4.54	2.31	3.59	1.22	18.16	40
1958	0.71	0.81	0.01	0.22	0.90	0.35	2.91	0.39	3.18	3.41	0.99	0.05	13.93	59
1959	0.28	0.90	0.57	0.27	0.46	0.16	0.52	2.49	1.96	1.03	0.16	1.41	10.21	67
1960	0.47	0.80	0.13	0.55	0.39	0.47	0.83	2.59	1.91	0.07	2.73	0.70	11.64	65
1961	0.03	0.29	0.66	0.03	0.18	0.13	1.60	1.12	1.00	2.53	0.58	2.00	10.15	68
1962	1.16	0.71	0.21	0.33	0.45	0.53	1.57	9.47	5.96	3.92	0.75	1.01	26.07	8
1963	1.80	0.33	0.18	0.34	0.69	0.74	3.04	1.77	5.54	1.66	1.21	1.77	19.07	33
1964	1.34	0.17	0.34	0.19	0.22	0.83	1.08	3.93	8.24	0.74	3.96	0.29	21.33	20
1965	0.27	0.88	0.66	0.96	0.70	0.81	1.67	8.83	3.96	0.95	2.05	2.52	24.26	13
1966	0.00	0.37	0.38	0.36	0.89	3.34	3.25	0.82	1.78	1.86	2.96	3.14	19.15	31
1967	2.59	0.75	0.65	0.78	1.28	0.67	4.28	2.03	4.20	0.67	0.73	4.00	22.63	17
1968	0.99	0.49	0.96	0.50	0.59	0.87	1.51	2.07	5.53	2.73	1.73	2.39	20.36	25
1969	0.60	1.08	1.42	0.44	0.55	1.23	4.10	2.98	3.81	1.39	0.22	0.16	17.98	42
1970	1.32	0.87	1.30	0.87	0.83	2.10	4.36	5.85	3.61	1.84	2.72	1.48	27.15	7
1971	1.48	2.37	0.93	1.61	1.37	1.60	2.77	5.06	2.96	0.38	0.75	3.30	24.58	12
1972	3.98	1.28	0.41	0.67	0.42	1.33	2.64	4.50	6.15	1.95	3.82	0.34	27.49	5
1973	1.56	0.24	1.00	0.35	0.47	3.88	3.95	3.44	2.27	2.02	1.63	2.05	22.86	16
1974	1.95	0.70	1.06	0.31	0.78	0.81	3.53	2.36	1.68	2.18	2.91	0.61	18.88	36
1975	1.05	0.74	0.78	1.56	0.68	1.52	2.74	2.49	4.23	1.02	0.48	0.22	17.51	45
1976	0.97	0.64	1.24	0.72	1.15	0.89	3.38	2.79	11.87	2.14	0.68	0.94	27.41	6
1977	0.75	0.90	0.60	0.89	1.08	3.99	1.54	1.96	2.10	2.10	2.88	1.61	20.40	24
1978	3.25	1.17	1.01	0.30	1.21	0.38	3.38	5.10	1.83	3.89	1.68	0.28	23.48	15
1979	0.60	1.36	0.76	0.72	1.08	0.75	1.25	1.82	2.96	3.31	3.75	0.52	18.88	37
1980	1.24	0.40	0.32	0.58	0.41	1.19	1.63	2.55	2.91	0.83	2.17	1.24	15.47	52
1981	1.86	0.75	1.48	0.42	0.32	0.24	0.42	3.91	3.84	4.25	1.24	1.77	20.50	23
1982	1.79	0.59	0.55	1.05	0.55	2.30	1.99	12.46	2.84	2.15	2.19	2.52	30.98	1
1983	4.74	0.29	0.82	0.42	0.14	1.56	2.31	2.31	0.75	1.61	2.92	0.73	18.60	38
1984	1.97	1.57	1.35	0.30	0.36	1.15	4.82	1.61	7.29	1.15	2.16	1.03	24.76	10
1985	0.94	1.27	1.05	0.36	0.15	1.65	1.07	1.60	2.44	0.97	0.56	1.95	14.01	58
1986	0.74	1.73	1.79	1.20	1.19	0.86	5.66	2.24	4.39	3.06	0.68	4.70	28.24	3
1987	2.20	1.64	0.25	0.31	1.61	2.32	0.47	4.32	0.65	1.70	3.45	1.08	20.00	28
1988	0.45	0.57	0.71	0.78	0.64	2.57	0.92	3.66	2.14	0.68	0.80	2.94	16.86	46
1989	0.89	0.90	0.34	0.10	0.60	1.75	3.74	2.18	2.33	1.97	0.87	2.46	18.13	41
1990	2.42	1.65	1.58	0.25	0.66	0.85	2.41	2.81	1.18	3.10	0.60	0.39	17.90	43
1991	1.32	0.63	1.27	0.85	1.48	0.86	2.73	5.20	2.21	0.98	1.22	0.33	19.08	32
1992	0.99	1.75	0.18	0.36	0.68	1.57	1.74	2.02	2.83	2.12	1.27	0.59	16.10	49
1993	1.04	1.31	1.20	0.82	0.73	1.33	3.05	2.71	5.49	3.99	0.99	1.13	23.79	14
1994	0.47	0.85	1.41	1.40	0.75	0.91	2.26	1.92	0.56	3.27	0.90	0.97	15.67	51
1995	5.72	1.19	0.13	0.36	0.74	1.05	2.36	7.37	3.09	2.24	0.66	1.04	25.95	9
1996	3.38	1.18	0.39	2.12	0.42	2.38	1.50	3.80	1.25	1.01	1.68	3.07	22.18	19
1997	2.82	0.94	2.26	1.30	1.21	0.97	0.71	3.29	2.62	2.71	0.75	0.94	20.52	22
1998	0.81	1.01	0.78	0.70	1.69	1.28	0.77	1.00	5.17	2.07	2.60	1.83	19.71	29
Mean 1961-90	1.50	0.89	0.83	0.59	0.71	1.43	2.57	3.60	3.68	1.96	1.77	1.65	21.17	

Measured (shaded) and estimated precipitation, in inches, for site 47, Spearfish (397882)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.25	0.57	0.36	0.55	0.49	2.08	1.20	1.58	0.76	1.06	0.86	0.39	12.15	67
1932	2.07	1.20	0.54	1.18	0.19	1.06	5.71	4.39	3.11	5.95	1.68	0.35	27.43	11
1933	1.81	0.36	0.44	0.22	0.59	4.37	3.86	5.50	2.21	1.63	0.97	0.97	22.93	26
1934	0.39	0.24	0.43	0.85	0.30	1.23	1.21	0.15	5.09	0.96	0.64	2.19	13.68	64
1935	1.07	0.66	0.47	0.20	0.29	1.40	1.27	3.71	3.48	1.03	1.05	0.59	15.22	58
1936	0.39	0.28	0.70	0.70	0.46	0.84	3.07	0.55	0.92	1.45	0.38	0.44	10.18	68
1937	1.13	0.61	0.03	0.22	0.25	1.29	0.48	2.60	4.44	7.26	0.95	2.47	21.73	31
1938	0.16	0.98	0.81	0.39	0.28	0.65	1.63	5.09	2.76	1.19	0.75	1.83	16.52	55
1939	0.12	0.80	0.57	0.45	1.10	0.28	1.68	1.10	2.58	2.44	2.85	1.15	15.12	59
1940	0.96	0.11	0.44	0.35	0.90	2.13	4.35	1.63	4.42	0.92	1.13	2.61	19.95	37
1941	0.40	1.03	0.57	0.31	0.11	0.82	5.81	2.96	9.98	1.55	1.54	5.04	30.12	5
1942	1.33	0.55	1.16	0.05	0.25	0.19	5.17	7.83	4.20	1.02	1.92	1.79	25.46	17
1943	1.39	1.58	0.63	0.99	0.65	1.26	1.13	1.45	4.62	1.08	0.85	0.68	16.31	56
1944	1.17	1.72	0.95	2.37	0.83	2.69	2.13	3.02	7.02	1.11	1.70	0.67	25.38	18
1945	0.76	7.10	1.70	1.06	0.90	3.20	0.98	3.39	4.88	1.15	0.75	5.58	31.45	3
1946	1.29	0.45	0.66	0.93	0.80	3.07	4.55	13.07	7.36	0.47	1.16	5.84	39.65	1
1947	3.37	0.53	1.25	0.56	1.11	1.21	1.98	0.76	10.75	0.14	0.91	1.09	23.66	24
1948	1.92	1.45	0.35	0.86	1.76	1.17	2.80	1.58	4.83	3.89	0.52	0.88	22.01	30
1949	0.44	4.10	0.29	3.79	0.41	0.88	2.38	2.84	1.98	0.62	0.64	1.39	19.76	38
1950	1.96	0.54	2.39	0.85	0.26	5.88	2.20	2.33	1.61	1.70	1.71	2.51	23.94	23
1951	0.90	1.42	0.25	0.33	0.38	0.67	1.30	1.53	4.74	1.69	3.77	2.65	19.63	39
1952	1.83	1.09	1.63	0.50	0.52	1.14	0.47	5.68	1.39	2.80	1.16	0.25	18.46	45
1953	0.00	0.37	0.19	0.98	1.83	0.28	2.70	3.50	4.96	0.30	2.44	0.45	18.00	48
1954	0.24	1.26	0.18	0.38	0.52	2.19	0.79	4.93	2.94	0.95	1.04	0.20	15.62	57
1955	1.27	0.28	0.15	0.09	0.74	0.47	2.90	3.50	2.85	1.58	1.89	1.65	17.37	51
1956	1.01	0.71	1.29	0.18	0.29	0.25	1.48	4.70	1.62	3.96	1.48	1.34	18.31	46
1957	0.75	3.01	0.42	0.45	0.23	1.16	1.77	3.76	3.59	4.77	2.37	1.01	23.29	25
1958	0.78	1.02	0.03	0.33	1.30	0.26	3.93	0.78	3.58	4.69	1.14	0.11	17.95	49
1959	0.43	0.89	0.83	0.50	0.85	0.57	0.80	3.00	1.30	1.02	0.25	1.88	12.32	66
1960	0.60	2.09	1.10	0.80	1.04	1.83	1.31	1.18	2.43	0.28	3.23	1.05	16.94	53
1961	1.03	0.93	1.65	0.16	0.64	0.23	2.28	0.92	2.38	0.86	1.05	2.68	14.81	62
1962	0.98	0.83	0.82	0.92	0.71	1.00	2.03	10.01	5.28	4.46	1.10	1.43	29.57	6
1963	2.98	0.55	0.33	0.91	1.33	1.17	3.65	1.94	7.97	2.51	0.96	1.97	26.27	15
1964	1.29	0.12	0.47	0.66	0.41	1.23	1.46	4.53	8.63	0.71	2.55	0.23	22.29	29
1965	0.31	1.27	0.48	0.69	1.18	1.16	1.27	11.08	4.11	0.53	2.51	2.84	27.43	12
1966	0.00	0.35	0.40	0.47	1.14	4.11	3.24	0.89	1.65	1.63	3.32	3.23	20.43	34
1967	3.27	0.76	0.56	0.78	1.14	0.73	5.25	1.94	4.01	0.41	0.88	4.50	24.23	22
1968	0.99	0.41	0.76	0.40	0.81	1.01	1.83	1.89	5.54	2.67	1.20	2.69	20.20	35
1969	0.86	1.28	1.52	0.41	0.64	1.37	4.66	3.44	3.99	1.07	0.08	0.13	19.45	40
1970	1.38	1.04	1.19	0.75	0.98	2.31	4.75	5.25	4.30	2.19	3.87	1.41	29.42	7
1971	1.67	2.56	1.02	1.49	1.27	1.51	2.48	5.92	2.96	0.40	0.68	2.83	24.79	19
1972	3.96	1.32	0.35	0.56	0.33	1.29	2.80	4.08	6.56	1.81	5.11	0.28	28.45	9
1973	1.58	0.18	0.91	0.39	0.50	4.40	3.72	3.53	2.24	2.46	0.97	1.89	22.77	28
1974	2.34	0.66	0.91	0.18	0.78	0.77	3.65	2.82	2.23	1.98	3.43	0.39	20.14	36
1975	0.89	0.80	0.75	1.54	0.56	1.13	2.41	2.47	4.34	1.14	0.37	0.26	16.66	54
1976	0.96	0.45	0.85	0.39	1.07	0.83	3.53	2.77	14.01	2.77	0.52	0.84	28.99	8
1977	0.77	0.80	0.35	0.55	0.82	4.29	1.48	2.16	1.93	2.46	3.51	1.47	20.59	33
1978	4.08	1.05	1.10	0.28	1.35	0.44	3.00	5.24	1.44	4.08	2.12	0.17	24.35	21
1979	0.63	1.36	0.55	0.79	1.02	0.81	1.31	1.89	2.87	2.85	4.54	0.65	19.27	41
1980	1.26	0.21	0.26	0.54	0.23	1.49	1.71	2.77	3.03	0.75	1.98	0.86	15.09	60
1981	2.14	0.76	1.88	0.48	0.39	0.32	0.57	3.66	4.32	4.20	1.21	1.73	21.66	32
1982	2.08	0.74	0.66	1.14	0.70	2.70	2.38	14.11	2.83	2.08	2.05	2.91	34.38	2
1983	4.61	0.13	0.30	0.13	0.10	0.51	2.87	2.25	0.98	1.12	1.52	0.49	15.01	61
1984	2.00	1.90	1.63	0.09	0.30	0.82	5.66	1.66	8.95	0.80	2.12	1.01	26.94	13
1985	0.88	1.36	1.21	0.19	0.06	1.91	1.22	1.18	2.44	0.96	0.50	1.68	13.59	65
1986	0.74	1.71	1.31	1.30	1.39	0.75	5.95	2.08	4.41	3.20	0.62	4.52	27.98	10
1987	2.09	1.75	0.44	0.08	1.52	1.76	0.32	4.38	0.70	1.88	3.21	0.81	18.94	44
1988	0.35	0.77	0.83	0.93	0.38	3.56	0.93	3.64	2.60	0.81	0.38	4.04	19.22	42
1989	0.86	0.82	0.03	0.00	0.59	1.85	3.01	1.91	2.87	3.25	1.29	2.50	18.98	43
1990	2.58	1.41	1.16	0.01	0.70	0.69	2.67	2.96	1.14	3.33	0.22	0.21	17.08	52
1991	1.43	0.79	0.98	1.06	1.54	0.63	1.80	5.54	2.54	0.78	0.66	0.39	18.14	47
1992	1.25	1.73	0.11	0.48	0.40	1.59	1.81	2.02	3.61	2.78	1.14	0.91	17.83	50
1993	1.18	1.23	1.66	0.91	0.62	1.02	2.24	3.72	6.12	3.12	1.17	1.39	24.38	20
1994	0.75	0.71	1.24	1.36	0.42	0.64	2.31	1.05	0.74	3.18	1.20	0.58	14.18	63
1995	5.49	1.05	0.04	0.30	0.94	1.00	2.71	7.77	6.42	2.57	0.60	1.87	30.76	4
1996	5.00	1.26	0.35	2.06	0.48	2.09	2.18	5.22	2.41	1.86	1.36	2.64	26.91	14
1997	3.86	0.90	2.31	1.48	1.30	1.41	2.57	4.09	2.58	2.76	1.68	1.31	26.25	16
1998	1.03	1.20	0.57	0.48	1.56	0.92	0.62	6.35	3.67	2.61	1.77	2.11	22.89	27
Mean 1961-90	1.65	0.94	0.82	0.57	0.77	1.54	2.74	3.78	4.02	1.98	1.80	1.69	22.30	

Measured (shaded) and estimated precipitation, in inches, for site 48, Vale (398552)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.09	0.52	0.32	0.06	0.16	1.02	0.13	1.06	0.18	1.40	0.82	0.46	8.22	68
1932	1.17	0.55	0.73	0.40	0.12	0.45	2.78	3.37	5.80	1.71	2.57	0.52	20.17	17
1933	2.05	0.04	0.45	0.10	0.15	1.72	3.60	7.83	0.77	2.07	1.78	0.52	21.08	12
1934	0.25	0.11	0.45	0.52	0.14	1.31	1.62	0.22	4.57	0.87	1.35	0.80	12.21	58
1935	2.68	0.50	0.45	0.10	0.58	1.21	0.96	4.86	1.97	1.62	0.65	0.11	15.69	40
1936	0.54	0.25	0.55	1.02	0.48	0.59	2.44	0.02	0.54	1.30	0.53	0.40	8.66	67
1937	0.78	0.59	0.03	0.39	0.19	1.24	0.68	2.54	4.44	9.27	0.79	2.02	22.96	8
1938	0.07	0.32	0.57	0.15	0.08	0.42	1.73	3.56	1.75	1.43	0.21	1.38	11.67	62
1939	0.23	0.58	0.20	0.22	0.64	0.14	0.77	0.66	2.65	1.42	1.65	0.73	9.89	66
1940	0.90	0.10	0.18	0.18	0.36	1.41	2.57	0.88	2.76	1.97	1.07	0.77	13.15	54
1941	0.65	0.67	0.31	0.06	0.01	0.27	5.11	2.14	9.14	1.70	2.96	2.71	25.73	2
1942	0.70	0.21	0.55	0.24	0.27	0.29	4.16	4.74	5.39	1.39	0.91	1.38	20.23	16
1943	0.79	1.24	0.27	0.66	0.19	0.75	0.56	1.51	4.99	1.83	0.59	0.38	13.76	49
1944	1.31	0.25	0.26	1.04	0.39	0.91	1.57	1.54	7.38	2.41	0.66	0.46	18.18	24
1945	1.10	2.77	0.37	0.57	0.49	1.53	0.67	3.27	3.37	0.21	0.77	2.29	17.41	30
1946	0.39	0.07	0.07	0.29	0.18	1.70	2.32	9.40	3.93	2.01	0.63	4.38	25.37	5
1947	2.50	0.09	0.42	0.34	0.43	0.78	1.66	0.49	8.54	0.00	0.41	0.70	16.36	35
1948	1.44	1.08	0.03	0.18	0.73	0.09	2.65	1.01	2.89	3.51	2.19	0.07	15.87	38
1949	0.30	0.78	0.20	0.88	0.20	0.70	2.07	1.69	2.03	1.00	0.15	0.68	10.68	64
1950	1.57	0.14	0.34	0.24	0.23	1.60	1.79	1.85	1.21	1.04	1.51	2.63	14.15	47
1951	0.43	0.48	0.07	0.06	0.24	0.78	0.78	3.13	2.94	1.56	3.20	1.99	15.66	41
1952	2.11	0.11	0.49	0.17	0.47	0.65	0.06	3.82	1.31	2.79	1.18	0.47	13.63	50
1953	0.00	0.04	0.06	0.54	1.09	0.60	2.69	2.84	4.16	1.89	2.35	0.12	16.38	34
1954	0.26	1.00	0.15	0.35	0.24	2.76	0.25	2.99	3.77	0.47	1.43	0.37	14.04	48
1955	1.55	0.35	0.20	0.05	0.63	0.41	1.58	1.79	0.52	2.25	1.43	2.79	13.55	51
1956	0.93	0.20	0.50	0.35	0.15	0.20	0.98	2.50	1.85	1.95	1.73	1.55	12.89	56
1957	1.55	1.80	0.20	0.45	0.10	0.35	1.18	4.52	2.68	2.20	1.74	0.70	17.47	29
1958	1.07	0.65	0.02	0.29	1.01	0.34	2.66	1.28	3.82	3.37	1.13	0.32	15.96	36
1959	0.40	0.67	0.36	0.34	0.58	0.24	1.69	2.49	2.01	1.00	0.17	2.17	12.12	60
1960	0.59	1.55	0.25	0.32	0.63	0.67	0.66	0.95	1.44	0.51	3.03	1.04	11.64	63
1961	0.14	0.17	0.82	0.15	0.24	0.41	1.62	1.07	2.22	2.99	0.69	1.58	12.10	61
1962	0.99	0.38	0.47	0.46	0.50	0.65	0.95	11.10	5.25	3.64	1.17	0.71	26.27	1
1963	1.67	0.37	0.06	0.58	1.05	0.57	3.54	0.76	4.92	1.71	0.54	2.23	18.00	27
1964	1.14	0.09	0.33	0.54	0.49	0.49	1.12	3.89	7.05	2.67	1.78	0.18	19.77	20
1965	0.45	0.75	0.36	0.65	0.04	0.29	1.60	7.50	5.78	2.05	1.03	1.57	22.07	9
1966	0.00	0.39	0.46	0.14	0.52	1.51	2.82	0.61	1.32	2.58	2.42	1.80	14.57	45
1967	1.59	0.69	0.70	0.72	0.30	0.37	5.21	2.31	4.24	0.55	0.86	2.91	20.45	14
1968	0.36	0.36	0.55	0.19	0.29	0.75	0.93	1.79	5.12	2.77	0.84	2.48	16.43	32
1969	0.04	0.70	0.74	0.20	0.72	0.39	3.39	1.33	3.20	3.39	0.08	0.20	14.38	46
1970	0.79	0.24	0.59	0.32	0.54	0.77	3.74	3.97	1.75	1.56	0.77	0.82	15.86	39
1971	0.72	1.92	0.48	1.02	0.94	0.66	2.58	5.17	2.73	0.19	0.40	2.91	19.72	21
1972	3.28	0.98	0.25	0.38	0.20	0.49	1.98	3.46	4.75	1.63	2.86	0.12	20.38	15
1973	1.18	0.13	0.73	0.24	0.59	2.64	3.35	3.44	1.29	1.16	5.69	1.45	21.89	10
1974	1.83	0.65	0.58	0.11	0.29	0.38	2.82	2.08	1.82	1.20	0.69	0.65	13.10	55
1975	0.95	0.28	0.14	1.38	0.56	1.75	2.57	2.78	4.82	0.48	0.04	0.15	15.90	37
1976	0.40	0.65	0.59	0.85	0.97	0.74	2.32	1.63	5.62	3.14	0.86	0.32	18.09	26
1977	0.58	0.60	0.39	0.76	0.66	3.63	0.91	1.41	1.15	1.70	4.27	2.11	18.17	25
1978	3.06	1.12	0.75	0.73	1.14	0.07	2.46	4.32	1.34	3.19	1.58	0.31	20.07	19
1979	0.27	1.06	0.33	0.44	0.85	0.43	1.13	1.23	3.90	3.30	1.42	0.24	14.60	44
1980	0.59	0.17	0.11	0.33	0.39	0.78	1.09	1.43	3.31	0.99	2.38	0.61	12.18	59
1981	1.91	0.38	0.81	0.26	0.14	0.04	0.12	3.57	3.58	4.39	1.07	1.49	17.76	28
1982	1.54	0.40	0.34	0.63	0.47	3.02	1.25	9.18	3.32	1.78	1.77	1.72	25.42	4
1983	4.47	0.23	0.53	0.37	0.13	1.78	1.29	1.93	0.81	1.83	2.32	0.72	16.41	33
1984	1.48	0.85	0.78	0.10	0.09	0.77	3.73	1.03	5.96	0.99	2.50	0.73	19.01	22
1985	0.42	1.23	0.78	0.17	0.06	1.18	0.54	1.41	1.70	0.88	0.84	1.09	10.30	65
1986	0.59	1.72	1.24	0.71	0.76	0.78	4.03	2.51	3.16	1.87	0.47	5.96	23.80	7
1987	1.75	1.11	0.09	0.17	1.50	1.73	0.41	4.26	0.64	2.24	3.82	0.91	18.63	23
1988	0.20	0.26	0.18	0.39	0.35	1.99	0.74	2.71	2.60	0.58	1.04	1.38	12.42	57
1989	0.61	0.74	0.25	0.14	0.31	1.64	3.23	1.44	1.65	1.25	0.43	1.65	13.34	52
1990	2.62	1.08	1.27	0.17	0.45	0.64	2.30	2.99	1.24	2.62	0.35	0.81	16.54	31
1991	0.56	0.40	0.39	0.40	1.05	1.14	3.14	4.76	2.00	0.59	0.43	0.33	15.19	42
1992	1.01	1.54	0.06	0.10	0.34	1.17	1.74	2.14	2.34	3.14	0.97	0.39	14.94	43
1993	0.33	0.98	0.90	0.72	0.73	1.38	2.50	3.96	5.17	4.93	1.01	1.44	24.05	6
1994	0.43	0.66	1.17	1.28	0.72	0.54	2.48	0.66	1.66	2.14	1.01	0.54	13.29	53
1995	4.89	0.95	0.25	0.19	0.56	0.93	2.43	7.01	4.36	2.50	0.81	0.77	25.65	3
1996	3.31	0.81	0.19	1.44	0.23	1.59	2.16	6.75	1.31	0.96	1.15	1.99	21.89	11
1997	3.23	0.84	1.40	0.80	0.60	0.64	2.26	3.76	2.13	3.59	0.63	0.68	20.56	13
1998	0.75	0.49	0.24	0.53	1.24	1.73	0.67	0.82	7.12	2.92	2.46	1.17	20.14	18
Mean 1961-90	1.19	0.66	0.52	0.44	0.52	1.04	2.13	3.08	3.21	1.98	1.50	1.33	17.59	

Measured (shaded) and estimated precipitation, in inches, for site 49, Wind Cave (399347)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.31	0.90	0.01	0.45	0.35	0.86	0.68	2.00	1.38	1.66	2.02	0.90	14.52	51
1932	1.51	0.60	0.88	0.85	1.23	3.40	3.13	3.22	2.36	2.73	1.92	0.09	21.92	8
1933	1.08	0.07	0.39	0.17	0.61	1.73	3.94	5.51	1.01	1.43	6.35	0.43	22.72	7
1934	0.13	0.36	0.34	0.33	0.59	1.62	0.66	0.34	2.47	1.91	1.22	0.84	10.81	66
1935	1.22	0.22	0.36	0.18	0.48	1.81	2.42	8.83	2.48	0.78	1.07	1.13	20.98	10
1936	0.51	0.55	0.30	0.46	1.00	0.72	1.15	0.69	2.50	0.19	0.95	1.11	10.13	67
1937	0.58	1.02	0.61	0.50	0.40	1.99	0.64	1.45	5.74	2.55	0.24	0.65	16.37	39
1938	0.72	0.39	0.31	0.38	0.06	1.32	1.78	4.17	1.74	2.65	0.86	2.91	17.29	34
1939	0.30	0.59	0.15	0.06	0.50	0.87	0.50	1.93	2.26	0.57	3.03	1.10	11.86	64
1940	0.94	0.00	0.25	0.47	0.48	0.78	4.60	0.76	0.97	2.10	0.78	1.62	13.75	55
1941	0.86	0.31	0.22	0.19	0.10	0.88	5.78	1.10	3.57	2.25	4.20	1.23	20.69	14
1942	1.35	0.23	0.50	0.04	0.36	1.03	3.47	3.66	3.63	3.41	1.28	1.89	20.85	12
1943	1.80	0.28	0.21	0.33	0.29	0.78	3.51	3.52	4.46	1.97	0.88	0.40	18.43	29
1944	1.10	0.01	0.26	1.25	0.66	0.56	2.30	3.82	3.05	4.41	1.27	0.18	18.87	24
1945	0.46	0.90	0.64	0.46	0.59	1.83	0.63	1.71	3.52	2.06	2.24	1.63	16.67	37
1946	0.02	0.05	0.45	0.20	0.35	0.99	1.06	7.79	2.99	1.87	1.60	3.07	20.44	15
1947	1.39	0.17	0.49	0.47	0.04	0.25	1.47	2.88	9.08	3.32	1.55	0.18	21.29	9
1948	1.01	1.12	0.20	0.08	0.60	0.41	2.00	1.86	4.21	2.35	2.51	0.27	16.62	38
1949	1.00	0.47	0.59	1.49	0.10	0.31	1.71	2.48	2.75	2.12	1.54	1.03	15.59	45
1950	0.61	0.01	0.51	0.24	0.15	1.47	1.93	1.49	1.18	1.65	2.07	2.84	14.15	52
1951	0.40	0.13	0.15	0.31	0.19	0.56	0.81	1.26	5.18	2.97	1.70	2.34	16.00	41
1952	0.48	0.11	0.40	0.05	0.65	0.87	0.24	4.52	3.09	1.11	1.35	0.22	13.09	59
1953	0.19	0.78	0.20	0.97	1.06	0.78	2.55	1.42	1.97	1.51	1.22	1.02	13.67	57
1954	0.19	0.47	0.15	0.29	0.68	1.15	0.62	2.70	2.80	1.04	1.35	0.91	12.35	63
1955	2.05	0.33	0.18	0.31	1.27	1.40	0.65	2.54	2.36	2.26	2.84	3.46	19.65	20
1956	0.31	0.62	0.68	0.46	0.38	0.45	1.04	3.77	1.80	1.75	1.95	0.50	13.71	56
1957	0.19	0.83	0.52	0.46	0.18	1.22	2.63	6.49	3.94	1.32	1.48	1.12	20.38	17
1958	1.82	0.23	0.12	0.11	0.92	1.25	2.73	0.97	2.92	6.96	0.28	0.07	18.38	30
1959	0.14	0.32	0.30	0.49	0.32	0.69	1.02	2.68	3.82	2.16	0.56	2.91	15.41	47
1960	0.18	0.58	0.17	0.34	0.53	0.25	0.86	1.21	2.48	0.64	1.02	0.46	8.72	68
1961	0.07	0.80	0.66	0.03	0.29	1.14	0.95	2.39	1.53	3.01	0.49	1.43	12.79	61
1962	0.63	0.29	0.25	0.24	0.87	0.84	0.29	5.88	4.40	5.34	0.40	0.77	20.20	18
1963	1.85	0.18	0.22	0.49	0.34	1.23	3.06	2.43	6.52	3.72	1.24	3.11	24.39	4
1964	0.89	0.03	0.28	0.24	0.35	0.98	1.59	3.11	4.66	1.32	0.81	0.30	14.56	50
1965	0.78	0.31	0.87	0.45	0.37	0.88	1.15	5.95	3.79	2.56	1.31	2.00	20.42	16
1966	0.32	0.22	0.29	0.25	0.66	0.29	2.98	0.22	1.03	3.93	2.81	1.96	14.96	48
1967	0.88	0.56	0.59	0.37	0.17	0.94	2.09	3.34	7.20	0.93	0.88	0.75	18.70	27
1968	0.35	0.27	0.84	0.42	0.21	0.76	0.85	2.77	5.96	2.99	2.30	1.00	18.72	26
1969	0.27	0.40	0.62	0.32	0.94	0.25	0.78	1.67	2.36	4.71	0.57	0.96	13.85	54
1970	1.30	0.19	0.28	0.20	0.30	1.11	2.48	1.67	2.73	2.24	1.31	1.94	15.75	44
1971	1.15	0.43	0.44	0.81	0.82	0.87	3.40	4.62	2.66	1.16	0.47	2.57	19.40	22
1972	1.42	0.70	0.40	0.64	0.14	0.71	1.41	2.70	4.42	1.80	1.83	0.64	16.81	36
1973	1.28	0.28	0.24	0.14	0.44	1.95	3.20	1.52	1.31	3.14	1.73	2.81	18.04	31
1974	1.57	0.89	0.58	0.59	0.08	0.24	1.97	1.21	1.31	1.97	1.17	1.19	12.77	62
1975	2.24	0.34	0.08	0.81	0.60	1.36	1.44	2.27	4.82	1.33	0.57	0.13	15.99	42
1976	0.49	0.42	0.86	0.50	0.93	0.71	3.70	2.20	3.85	4.01	1.52	0.62	19.81	19
1977	0.43	0.22	0.19	0.46	0.07	1.30	2.20	2.80	2.52	4.09	2.91	2.36	19.55	21
1978	0.93	0.83	0.66	0.43	0.77	0.31	1.72	4.74	1.48	3.45	2.91	0.42	18.65	28
1979	0.50	0.48	0.59	0.49	0.39	0.32	0.78	1.50	2.25	4.27	3.60	0.25	15.42	46
1980	0.78	0.16	0.04	0.29	0.45	1.15	1.00	2.18	2.37	1.94	2.29	0.40	13.05	60
1981	1.85	0.40	0.68	0.06	0.17	0.35	0.69	5.67	1.11	4.69	1.08	0.23	16.98	35
1982	1.68	0.15	0.82	0.50	0.32	1.13	1.09	6.04	4.69	2.27	1.70	2.47	22.86	6
1983	1.00	0.79	0.46	0.24	0.03	1.19	0.68	2.51	2.75	2.56	1.30	0.41	13.92	53
1984	1.80	1.02	0.65	0.30	0.27	1.11	3.31	2.03	3.82	3.11	1.16	0.46	19.04	23
1985	0.87	0.59	0.31	0.37	0.19	0.56	1.13	0.84	1.37	2.34	0.69	2.37	11.63	65
1986	0.69	1.64	0.18	0.16	0.78	0.74	3.26	1.39	5.44	1.62	1.42	3.65	20.97	11
1987	1.77	0.91	0.09	0.07	1.65	1.88	0.23	4.93	1.01	1.04	1.40	0.82	15.80	43
1988	0.42	0.56	0.51	0.20	0.20	0.21	0.69	3.07	2.25	1.56	2.77	0.82	13.26	58
1989	0.47	0.81	0.35	0.01	0.43	0.84	1.28	1.60	1.13	2.63	1.73	3.55	14.83	49
1990	0.88	0.29	0.35	0.05	0.46	1.34	1.98	5.53	1.99	2.59	0.74	1.21	17.41	33
1991	0.69	0.70	0.44	0.12	1.11	0.46	2.52	6.05	3.13	1.45	1.30	0.82	18.79	25
1992	1.36	1.13	0.01	0.24	0.40	2.13	0.88	4.10	3.70	4.85	1.42	0.55	20.77	13
1993	0.52	0.51	0.91	0.90	1.56	1.41	2.01	1.99	6.55	5.27	2.39	1.52	25.54	3
1994	1.82	0.96	0.82	0.38	0.94	0.73	1.24	1.13	1.61	2.21	3.59	0.84	16.27	40
1995	4.76	0.40	0.94	0.17	0.71	0.92	2.13	6.54	11.29	2.44	2.25	2.42	34.97	1
1996	1.51	0.29	0.24	0.87	0.19	0.96	2.20	4.34	1.85	1.01	2.06	2.24	17.76	32
1997	2.25	0.61	0.74	0.80	1.02	0.26	3.00	4.09	2.79	6.10	2.35	2.18	26.19	2
1998	0.84	0.00	0.14	0.31	0.38	2.28	0.71	4.08	5.81	2.53	4.20	1.89	23.17	5
Mean 1961-90	0.99	0.51	0.45	0.34	0.46	0.89	1.71	2.96	3.09	2.74	1.50	1.39	17.02	

Measured (shaded) and estimated precipitation, in inches, for site 50, Alva 5ESE, Wyo. (480200)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.76	0.75	0.37	0.92	0.38	1.43	1.00	1.37	2.14	1.27	0.66	0.78	13.83	65
1932	2.11	0.84	0.33	1.26	0.21	1.16	4.29	2.95	2.28	1.94	0.97	0.42	18.76	40
1933	1.91	0.41	0.75	0.48	0.47	1.47	3.40	4.42	1.82	0.62	1.00	1.14	17.89	49
1934	0.43	0.33	0.30	0.60	0.17	0.98	1.05	0.23	3.58	0.69	0.60	1.70	10.66	68
1935	0.34	0.65	1.05	0.14	0.50	0.91	1.32	4.51	2.70	1.65	1.12	0.41	15.30	60
1936	0.36	0.46	0.85	0.84	0.68	0.72	2.02	0.40	1.50	2.06	0.56	0.68	11.13	67
1937	0.92	0.67	0.23	0.43	0.52	0.72	0.74	2.65	4.33	4.12	0.84	1.47	17.64	51
1938	0.19	0.55	0.95	0.61	0.26	0.93	1.07	3.95	1.53	1.86	1.03	1.30	14.23	63
1939	0.10	0.53	0.72	0.32	1.02	0.44	1.45	0.97	2.81	1.96	2.91	1.01	14.24	62
1940	0.92	0.06	0.31	0.33	0.57	1.59	4.05	0.99	4.56	0.81	0.72	2.43	17.34	53
1941	0.75	0.91	0.57	0.15	0.14	0.81	6.01	2.66	7.68	1.59	1.68	3.40	26.35	16
1942	0.99	0.54	0.75	0.17	0.25	0.48	3.96	5.80	4.61	1.32	1.79	1.91	22.57	25
1943	1.04	1.13	0.48	0.70	0.51	1.34	1.04	1.24	4.44	1.01	0.86	0.34	14.13	64
1944	1.12	0.86	0.53	1.14	0.72	1.66	2.33	4.78	7.97	0.99	1.07	0.45	23.62	23
1945	0.05	2.12	0.96	0.64	0.72	1.16	0.87	1.56	3.74	1.83	0.47	3.90	18.02	48
1946	0.61	0.54	0.63	0.33	0.47	1.94	1.62	7.81	5.84	0.60	1.84	4.65	26.88	11
1947	3.97	0.25	1.08	0.67	0.77	1.01	2.39	1.65	7.51	2.20	0.40	1.45	23.35	24
1948	1.75	1.56	0.22	1.31	1.34	0.64	2.33	1.86	4.48	2.64	0.55	1.05	19.73	34
1949	0.24	3.12	0.62	4.30	0.42	0.91	3.21	3.21	1.86	1.79	0.56	1.67	21.91	30
1950	2.19	0.52	1.40	0.68	0.37	3.44	2.60	2.38	1.39	1.35	1.48	1.86	19.66	35
1951	1.01	1.01	0.43	0.46	0.22	1.18	0.85	1.77	3.83	2.24	2.58	2.73	18.31	46
1952	1.90	0.85	2.27	0.34	0.63	1.47	0.26	4.35	1.25	4.05	0.98	0.04	18.39	44
1953	0.17	0.34	0.18	1.80	2.48	0.43	3.37	4.08	3.62	0.61	3.71	0.98	21.77	31
1954	0.78	1.43	0.58	0.43	1.05	3.01	1.08	2.44	2.17	1.50	1.48	0.56	16.51	55
1955	1.58	0.68	0.79	0.83	1.27	1.48	4.25	4.82	4.02	1.93	3.19	2.13	26.97	10
1956	1.52	1.18	1.34	0.75	0.38	1.13	1.75	3.17	2.75	2.22	1.84	0.97	19.00	38
1957	0.59	3.33	0.41	0.67	0.31	1.42	2.40	5.02	5.70	1.33	2.26	1.76	25.20	18
1958	1.80	1.65	0.27	0.43	1.28	0.75	4.38	0.47	3.52	3.04	0.73	0.15	18.47	42
1959	2.20	0.98	0.93	0.69	1.22	0.65	1.52	3.89	3.07	0.68	0.24	2.44	18.51	41
1960	1.22	2.06	0.42	0.50	1.31	1.18	1.01	1.73	2.93	1.60	3.65	0.83	18.44	43
1961	0.30	0.58	1.16	0.16	0.64	0.96	2.13	2.04	0.67	3.76	0.75	2.64	15.79	59
1962	1.84	1.02	1.30	0.84	0.63	1.32	2.78	12.78	4.09	4.26	1.12	2.26	34.24	1
1963	1.67	1.15	0.73	0.98	1.82	1.27	5.27	2.36	4.53	2.12	0.63	1.27	23.80	22
1964	0.97	0.18	0.82	0.65	1.62	1.30	1.21	4.65	9.43	1.05	5.36	0.33	27.57	8
1965	0.22	1.66	1.05	1.48	0.56	0.84	2.47	7.55	2.93	0.83	1.91	2.37	23.87	21
1966	0.00	0.49	0.22	0.32	0.97	2.70	3.55	0.83	2.01	3.23	1.88	3.00	19.20	36
1967	1.93	0.93	0.99	1.03	1.51	0.98	2.88	2.18	6.84	0.71	1.89	4.76	26.63	12
1968	1.27	0.52	1.40	0.94	0.54	1.01	1.16	3.99	6.46	3.72	3.21	2.26	26.48	14
1969	0.37	1.43	1.41	0.67	0.29	1.34	4.03	1.70	5.03	1.48	0.34	0.29	18.38	45
1970	1.67	1.04	2.03	0.93	0.80	2.15	3.26	6.40	3.51	2.17	0.27	2.13	26.36	15
1971	1.65	2.16	1.11	1.65	1.38	1.98	4.07	4.01	5.76	0.44	1.05	3.29	28.55	4
1972	5.13	1.56	0.49	0.95	0.61	1.79	2.40	4.86	4.65	1.91	3.25	0.82	28.42	5
1973	1.98	0.39	1.22	0.46	0.47	2.98	5.82	3.55	3.73	1.15	1.90	2.96	26.61	13
1974	2.14	0.81	1.50	0.43	0.66	1.20	5.17	3.47	1.45	2.05	1.66	0.97	21.51	32
1975	1.64	0.98	0.84	1.60	0.74	1.60	4.50	4.15	4.55	0.42	0.70	0.31	22.03	28
1976	1.50	0.56	1.49	0.90	0.90	1.00	4.62	2.72	7.86	1.96	1.66	0.45	25.62	17
1977	0.83	1.65	0.60	1.04	1.03	3.04	1.24	3.45	3.03	2.80	2.58	2.81	24.10	20
1978	2.58	1.24	1.32	0.37	1.20	0.51	4.46	9.27	2.47	3.16	0.95	0.43	27.96	6
1979	0.49	1.71	1.06	0.62	1.06	0.59	1.49	1.77	2.33	5.31	1.93	0.71	19.07	37
1980	0.82	0.60	0.27	0.68	0.75	1.38	1.77	2.70	3.02	0.39	2.91	1.03	16.32	56
1981	2.09	0.52	1.22	0.54	0.34	0.27	0.79	4.34	2.53	4.40	2.27	1.37	20.68	33
1982	1.98	0.46	0.48	0.76	0.45	1.83	2.71	9.13	4.37	2.68	1.48	4.46	30.79	2
1983	5.70	0.84	1.09	0.95	0.13	3.07	1.91	2.32	0.86	2.86	1.40	0.96	22.09	26
1984	2.46	1.23	1.18	0.55	0.58	2.05	5.67	2.54	8.01	0.77	0.57	1.63	27.24	9
1985	1.34	1.81	0.86	0.52	0.16	1.63	1.06	1.82	3.64	2.07	0.48	2.33	17.72	50
1986	0.96	2.02	1.70	0.76	0.83	1.00	5.58	3.10	3.66	3.28	0.83	6.33	30.05	3
1987	1.84	1.40	0.12	0.36	1.71	1.73	0.34	4.67	0.49	1.71	2.38	1.29	18.04	47
1988	0.64	0.38	0.48	0.70	0.66	1.16	0.93	3.11	1.54	1.10	1.13	1.59	13.42	66
1989	0.78	0.80	0.42	0.20	0.53	1.63	3.71	2.17	1.98	1.95	0.90	2.47	17.54	52
1990	1.81	1.31	1.28	0.20	0.52	0.43	1.71	2.82	1.09	3.55	0.85	0.36	15.93	58
1991	1.20	0.54	0.72	0.46	1.11	0.43	3.75	5.00	3.27	1.14	0.77	0.41	18.80	39
1992	0.78	1.46	0.18	0.32	0.44	1.36	1.73	1.75	2.80	2.06	1.19	0.72	14.79	61
1993	0.96	1.21	0.97	0.80	0.65	1.24	3.53	3.29	5.90	3.70	1.41	1.12	24.78	19
1994	0.73	0.73	1.38	1.55	0.81	0.87	2.68	2.00	0.93	2.59	0.89	1.07	16.23	57
1995	5.32	1.08	0.04	0.31	0.66	1.09	2.55	7.53	3.83	2.91	0.86	1.41	27.59	7
1996	3.23	1.05	0.37	1.77	0.40	2.31	2.01	4.27	1.38	1.37	1.75	2.08	21.99	29
1997	2.65	0.83	1.98	0.60	1.46	0.46	3.12	3.28	2.23	3.29	1.11	1.05	22.06	27
1998	0.97	0.55	0.88	0.75	1.36	1.27	0.31	0.98	3.35	1.37	2.68	2.29	16.76	54
Mean 1961-90	1.62	1.05	0.99	0.74	0.80	1.49	2.96	4.02	3.75	2.24	1.61	1.93	23.20	

Measured (shaded) and estimated precipitation, in inches, for site 51, Newcastle, Wyo. (486660)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.05	0.33	0.07	0.15	0.29	1.21	0.44	2.06	1.00	1.12	0.75	0.36	9.83	64
1932	1.20	0.50	0.13	0.72	0.15	0.58	2.79	2.20	3.94	3.06	3.41	0.45	19.13	11
1933	1.51	0.24	0.38	0.49	0.87	0.55	1.69	4.83	0.84	0.88	2.37	0.31	14.96	32
1934	0.32	0.25	0.10	0.19	0.56	0.98	0.63	0.14	2.60	0.56	2.44	1.12	9.89	63
1935	1.32	0.19	0.71	0.18	0.48	0.73	0.83	4.42	1.23	0.64	0.32	0.78	11.83	51
1936	0.53	0.53	0.08	0.62	0.62	0.45	1.27	0.08	2.57	1.57	1.17	0.27	9.76	65
1937	1.17	0.83	0.29	0.71	0.44	1.00	0.40	1.40	2.05	3.35	0.81	0.43	12.88	44
1938	0.30	0.62	1.12	0.97	0.24	1.14	1.02	4.27	1.10	1.78	1.56	1.08	15.20	30
1939	0.27	0.69	0.33	0.66	0.26	0.45	1.13	1.56	3.99	0.92	3.55	0.75	14.56	34
1940	1.06	0.00	0.59	0.55	0.41	0.91	3.43	0.59	1.52	0.98	0.20	1.75	11.99	50
1941	1.02	0.38	0.71	0.29	0.23	0.94	3.19	2.37	3.87	1.78	2.73	2.04	19.55	9
1942	1.43	0.51	0.64	0.20	0.31	1.00	3.48	1.59	3.46	1.97	3.36	1.67	19.62	8
1943	1.66	0.78	0.40	0.70	0.49	1.54	1.86	2.12	2.92	1.10	1.07	0.36	15.00	31
1944	1.48	0.43	0.37	0.89	0.27	1.34	0.94	2.78	3.57	2.15	0.74	0.39	15.35	28
1945	0.48	0.74	0.47	0.59	0.50	0.80	0.50	3.55	2.94	2.10	2.55	2.42	17.64	16
1946	0.02	0.17	0.42	0.18	0.38	0.94	1.45	5.10	3.53	1.64	1.56	2.53	17.92	14
1947	2.09	0.31	0.61	0.35	0.06	0.60	2.02	2.34	5.45	0.98	0.75	0.12	15.68	25
1948	0.54	1.47	0.06	0.41	0.90	0.16	2.21	0.74	1.63	1.63	1.53	0.41	11.69	52
1949	0.49	0.50	0.09	0.38	0.06	0.46	1.61	2.68	3.08	0.37	0.58	0.60	10.90	58
1950	0.83	0.10	0.27	0.37	0.05	1.07	1.17	1.96	1.33	1.01	0.63	1.20	9.99	62
1951	0.54	0.02	0.16	0.08	0.30	0.07	0.53	0.96	2.38	1.59	1.78	1.84	10.25	61
1952	0.15	0.36	0.71	0.05	0.21	1.27	0.00	3.88	1.96	1.85	0.74	0.18	11.36	55
1953	0.09	0.31	0.10	0.85	0.31	0.48	2.11	1.34	3.16	0.00	4.01	0.00	12.76	45
1954	0.33	0.54	0.18	0.07	0.36	0.62	0.19	1.90	1.47	3.36	1.45	0.00	10.47	59
1955	1.38	0.25	0.16	0.75	0.48	0.86	0.64	3.08	2.66	1.52	2.33	1.37	15.48	26
1956	0.34	0.91	1.14	0.13	0.16	0.91	1.88	2.61	1.07	2.00	1.40	0.04	12.59	47
1957	0.53	0.39	0.37	0.47	0.25	0.76	0.78	4.42	4.31	1.95	0.49	1.06	15.78	23
1958	0.81	0.62	0.32	0.25	0.77	1.12	0.63	1.37	3.34	5.46	1.56	0.01	16.26	21
1959	0.82	0.30	0.46	0.26	1.26	0.55	0.73	2.64	3.07	0.64	0.47	1.17	12.37	48
1960	0.17	0.78	0.06	0.19	0.98	0.27	1.05	0.60	1.41	0.11	0.35	1.47	7.44	68
1961	0.06	0.47	0.80	0.00	0.42	0.58	0.56	1.38	0.98	0.89	0.31	1.07	7.52	67
1962	0.75	0.12	0.40	0.61	0.91	0.39	0.53	5.64	3.26	2.18	1.30	0.76	16.85	17
1963	0.03	0.06	0.25	0.85	0.33	0.23	3.29	2.33	2.40	1.21	1.13	1.87	13.98	40
1964	0.55	0.00	0.60	0.00	0.66	0.35	1.78	2.43	5.76	0.07	2.00	0.36	14.56	35
1965	0.00	0.38	0.94	1.11	0.14	0.44	1.24	4.72	5.07	2.71	1.03	1.60	19.38	10
1966	0.00	0.08	0.03	0.13	0.33	0.39	2.50	0.00	1.03	3.84	3.25	1.09	12.67	46
1967	1.12	0.56	0.78	0.40	0.53	0.62	2.00	2.37	3.51	1.86	1.23	3.01	17.99	13
1968	0.78	0.20	0.66	0.42	0.32	0.34	0.91	2.03	3.95	0.57	1.46	1.58	13.22	41
1969	0.06	0.55	0.66	0.29	0.70	0.47	2.78	2.16	4.57	3.15	1.07	0.06	16.52	19
1970	0.65	0.74	0.55	0.45	0.08	0.78	2.02	3.21	1.17	2.41	0.34	0.57	12.97	43
1971	0.64	0.62	0.80	0.56	0.66	0.13	4.07	3.22	1.55	0.61	0.41	1.23	14.50	37
1972	2.60	0.87	0.13	0.95	0.50	0.47	0.91	3.22	4.28	2.72	3.98	0.82	21.45	3
1973	0.54	0.34	0.51	0.20	0.33	1.01	2.34	0.47	2.50	2.33	1.18	3.21	14.96	33
1974	0.69	0.75	1.04	0.43	0.22	0.07	0.86	0.70	0.62	2.14	2.87	0.96	11.35	56
1975	1.69	0.31	0.43	0.65	0.40	1.38	2.87	2.93	3.70	0.75	0.15	0.05	15.31	29
1976	1.01	0.43	0.59	0.40	1.04	0.30	1.18	2.23	3.72	3.04	1.19	0.34	15.47	27
1977	0.22	0.92	0.58	0.83	0.12	0.58	1.72	1.89	1.41	1.24	2.69	0.82	13.02	42
1978	1.53	0.91	0.68	0.45	0.78	0.32	1.74	4.84	1.49	3.57	1.10	0.34	17.75	15
1979	0.71	0.64	0.94	0.58	0.69	0.10	0.64	2.02	1.76	2.46	3.76	0.18	14.48	38
1980	0.07	0.23	0.10	0.38	0.64	1.12	1.02	2.61	1.30	1.14	2.03	0.58	11.22	57
1981	1.36	0.28	0.93	0.17	0.25	0.41	0.64	3.06	0.44	3.94	2.65	0.40	14.53	36
1982	0.90	0.31	0.83	0.72	0.76	1.11	0.80	2.18	1.17	3.16	2.34	1.49	15.77	24
1983	1.53	0.45	0.34	0.34	0.00	0.86	0.83	0.97	2.22	0.62	2.04	0.19	10.39	60
1984	2.77	1.65	0.78	0.09	0.19	0.67	1.53	1.07	3.08	1.47	1.65	1.07	16.02	22
1985	0.61	0.64	0.56	0.24	0.12	1.13	0.44	0.51	1.68	1.25	0.20	1.19	8.57	66
1986	0.63	1.52	0.78	0.13	1.05	0.68	3.22	1.68	5.64	0.72	1.17	4.22	21.44	4
1987	1.89	0.89	0.02	0.07	1.56	1.00	0.02	3.50	0.61	0.50	0.65	0.96	11.67	53
1988	0.58	0.65	0.08	0.27	0.50	0.20	0.78	2.99	3.35	1.19	1.03	0.54	12.16	49
1989	0.61	0.94	0.11	0.05	0.46	1.06	1.89	3.25	0.81	0.95	1.09	3.17	14.39	39
1990	0.84	0.87	1.00	0.09	0.64	0.73	2.01	2.59	1.23	3.40	2.35	0.82	16.57	18
1991	0.83	0.50	0.79	0.28	0.62	0.52	2.37	6.00	3.71	1.16	2.20	1.84	20.82	5
1992	0.72	0.77	0.02	0.13	0.47	1.09	1.76	2.24	1.99	4.65	1.76	0.78	16.38	20
1993	0.12	0.40	1.52	0.61	0.88	0.30	1.29	2.38	4.48	3.27	2.31	1.06	18.62	12
1994	1.19	0.52	0.84	0.79	1.06	1.04	2.41	1.08	0.89	0.39	0.96	0.35	11.52	54
1995	4.11	1.05	0.17	0.08	0.72	1.36	1.18	2.82	4.43	1.78	1.00	1.63	20.33	7
1996	2.10	0.50	0.38	0.90	0.37	1.78	2.19	5.54	1.32	2.28	4.12	0.94	22.42	2
1997	2.62	0.69	1.59	0.53	0.56	0.26	2.54	3.73	1.30	6.23	0.89	2.25	23.19	1
1998	1.14	0.33	0.69	0.56	0.80	1.91	1.00	1.97	6.20	1.87	2.98	1.32	20.77	6
Mean 1961-90	0.85	0.58	0.56	0.40	0.51	0.60	1.57	2.41	2.48	1.87	1.59	1.15	14.56	

Measured (shaded) and estimated precipitation, in inches, for site 52, Sundance, Wyo. (488705)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.70	0.94	0.37	1.30	0.34	2.09	0.89	1.83	3.80	0.96	0.89	1.13	18.24	27
1932	2.17	0.78	0.20	1.20	0.17	1.52	3.15	2.63	2.24	1.49	0.62	0.37	16.54	38
1933	2.21	0.59	1.13	0.79	0.65	0.69	2.16	5.82	2.49	0.50	1.25	1.34	19.62	21
1934	0.70	0.47	0.24	0.55	0.07	1.28	0.59	0.32	3.17	0.84	1.00	1.52	10.75	68
1935	0.42	0.68	1.89	0.22	0.73	0.55	1.24	5.55	2.45	3.26	0.98	0.66	18.63	25
1936	0.46	0.77	0.81	1.15	0.97	1.16	1.86	0.13	1.90	1.67	0.32	0.63	11.83	65
1937	0.54	0.94	0.42	0.71	0.78	0.51	1.13	2.55	4.12	2.75	0.90	0.70	16.05	42
1938	0.30	0.63	1.25	1.23	0.41	1.41	1.14	3.35	0.65	2.36	1.08	1.05	14.86	50
1939	0.10	0.36	1.32	0.50	1.43	0.83	2.25	0.70	2.90	1.66	3.42	1.00	16.47	39
1940	1.12	0.08	0.67	0.40	0.66	1.40	4.14	0.94	5.54	0.64	0.12	2.78	18.49	26
1941	1.53	0.80	0.77	0.13	0.20	1.07	5.24	2.33	6.24	2.79	1.51	2.44	25.05	5
1942	0.87	0.85	0.62	0.42	0.29	0.83	2.66	5.25	5.09	2.15	2.34	1.86	23.23	9
1943	1.34	1.45	0.88	0.91	0.65	1.94	1.36	1.87	4.17	0.57	1.00	0.22	16.36	41
1944	1.57	1.14	0.35	1.34	0.79	1.78	1.47	2.73	6.00	1.86	0.49	1.04	20.56	17
1945	0.51	1.39	0.80	0.47	1.12	1.19	0.88	2.75	4.55	0.96	2.17	4.10	20.89	16
1946	0.58	0.51	0.77	0.65	0.64	2.07	2.73	9.88	3.80	1.29	1.54	4.39	28.85	1
1947	3.64	0.25	0.70	0.78	1.07	0.94	1.59	0.39	3.65	1.75	0.24	1.78	16.78	35
1948	1.20	0.64	0.64	1.49	0.43	0.24	0.71	1.05	2.57	0.98	0.75	1.12	11.82	66
1949	0.64	1.16	0.85	1.46	0.43	0.88	1.35	2.56	2.90	1.05	0.86	0.55	14.69	53
1950	1.09	0.43	1.17	0.25	0.35	2.39	1.68	2.16	1.29	1.47	0.83	1.21	14.32	57
1951	0.10	1.21	0.26	0.07	0.05	0.49	0.80	2.18	3.21	1.95	2.87	3.41	16.60	37
1952	1.89	0.38	0.66	0.36	0.22	0.93	0.22	4.45	2.14	2.34	1.11	0.21	14.91	49
1953	0.14	0.69	0.14	1.49	1.36	0.55	2.80	1.84	3.42	0.23	1.72	0.25	14.63	54
1954	0.52	1.26	0.39	0.23	0.85	1.20	0.53	1.76	1.56	3.02	0.67	0.16	12.15	64
1955	0.73	0.50	0.37	0.63	0.88	1.05	1.36	3.62	4.32	2.85	1.23	1.73	19.27	23
1956	0.90	1.11	0.69	0.16	0.25	0.81	0.82	1.82	1.89	2.14	1.67	1.08	13.34	61
1957	0.33	0.88	0.26	0.37	0.12	0.56	1.68	4.02	4.01	1.83	1.01	0.52	15.59	46
1958	1.24	1.03	0.28	0.41	0.56	0.83	2.99	0.24	4.35	3.14	0.32	0.20	15.59	47
1959	1.03	0.77	0.61	0.59	0.90	0.61	1.10	2.78	2.55	0.28	0.10	2.40	13.72	60
1960	0.61	1.34	0.03	0.27	0.95	0.55	1.39	1.47	2.76	0.72	3.17	0.68	13.94	59
1961	0.39	1.35	1.26	0.00	0.88	0.95	1.37	1.88	1.91	2.26	0.99	1.22	14.46	56
1962	0.51	0.36	0.83	0.43	0.41	0.75	1.56	9.76	5.17	2.60	0.92	1.58	24.88	6
1963	0.93	0.53	0.35	0.94	1.79	0.57	3.85	3.04	4.74	1.63	0.76	1.79	20.92	15
1964	0.83	0.00	0.56	0.56	1.53	0.99	1.28	4.20	8.20	0.72	6.02	0.30	25.19	4
1965	0.10	0.62	0.86	1.23	0.37	1.09	1.40	6.80	4.95	1.47	1.78	1.92	22.59	10
1966	0.00	0.47	0.16	0.28	0.60	1.46	3.25	0.50	1.09	2.65	2.22	2.80	15.48	48
1967	0.93	0.55	0.84	1.00	1.53	0.71	2.90	1.90	4.79	0.70	1.56	3.62	21.03	14
1968	1.29	0.31	0.88	0.52	0.30	0.23	0.38	2.47	5.06	1.82	2.79	1.65	17.70	31
1969	0.18	0.43	0.69	0.53	0.24	1.09	2.42	1.09	3.55	1.44	0.26	0.36	12.28	63
1970	1.02	0.73	0.82	0.71	0.47	1.21	1.72	5.12	2.42	0.73	1.12	1.00	17.07	34
1971	0.79	0.93	0.67	1.59	0.88	0.88	2.81	2.74	3.19	0.38	0.59	2.27	17.72	30
1972	2.78	0.63	0.30	0.52	0.32	0.97	1.57	3.41	4.95	1.50	2.39	0.66	20.00	19
1973	1.45	0.29	0.50	0.23	0.30	1.62	2.80	1.25	3.70	1.94	1.90	2.98	18.96	24
1974	0.78	0.77	0.68	0.32	0.44	0.34	1.34	1.18	0.83	2.55	1.83	0.75	11.81	67
1975	0.97	0.60	0.52	1.00	0.45	0.90	2.82	3.04	3.23	0.35	0.22	0.22	14.32	58
1976	1.08	0.50	1.10	0.52	1.08	0.50	2.51	2.96	6.21	1.83	1.28	0.40	19.97	20
1977	0.34	1.05	0.64	1.00	0.80	1.02	1.82	1.63	2.24	1.47	1.67	2.12	15.80	44
1978	1.94	0.57	0.84	0.27	0.94	0.32	2.10	4.22	3.06	2.68	0.60	0.34	17.88	29
1979	0.32	0.94	1.22	0.71	0.86	0.40	0.78	0.97	3.07	3.42	3.28	0.47	16.44	40
1980	0.75	0.58	0.42	0.46	0.67	0.98	1.38	1.76	2.40	1.00	2.17	2.01	14.58	55
1981	1.30	0.54	0.95	0.31	0.19	0.15	0.42	3.06	2.93	4.89	1.27	0.62	16.63	36
1982	0.96	0.24	0.58	0.86	0.41	1.15	1.26	4.33	3.34	1.77	3.83	1.60	20.33	18
1983	3.35	0.48	0.94	0.77	0.00	1.71	1.04	1.51	0.99	2.22	2.44	0.28	15.73	45
1984	2.47	1.35	0.81	0.40	0.13	1.11	2.82	1.21	4.97	1.40	2.04	0.60	19.31	22
1985	0.89	1.16	0.41	0.38	0.11	0.86	0.95	2.28	2.51	1.00	0.31	1.49	12.35	62
1986	0.40	1.42	1.46	0.34	0.69	1.08	4.16	2.33	3.22	2.89	0.96	5.16	24.11	7
1987	1.90	1.31	0.07	0.56	1.72	1.46	0.34	5.05	0.45	1.64	2.21	1.44	18.15	28
1988	0.99	0.50	0.47	0.84	0.91	1.00	0.93	2.98	1.55	1.72	1.60	1.24	14.73	51
1989	0.94	0.69	0.54	0.38	0.52	1.44	3.57	2.23	1.75	1.85	1.17	2.42	17.50	33
1990	1.11	1.36	1.38	0.29	0.57	0.50	1.43	3.08	1.11	3.66	1.33	0.14	15.96	43
1991	1.00	0.67	0.72	0.62	1.18	0.26	4.48	5.19	5.11	1.64	0.21	0.62	21.70	13
1992	0.61	1.33	0.23	0.54	0.25	1.34	2.29	1.31	3.01	1.70	1.16	0.96	14.73	52
1993	0.92	1.30	0.94	0.78	0.49	0.65	3.91	3.46	6.76	3.33	1.89	1.15	25.58	3
1994	1.28	0.63	1.39	1.91	0.86	0.88	3.15	2.69	1.07	1.70	0.89	1.07	17.52	32
1995	5.26	0.95	0.01	0.30	0.62	1.31	2.93	6.00	4.01	3.08	0.79	0.95	26.21	2
1996	2.99	1.18	0.34	1.77	0.50	2.35	2.40	3.74	1.51	1.71	2.11	1.30	21.90	12
1997	1.86	0.77	1.83	0.60	1.91	0.58	4.69	3.08	1.90	4.11	1.55	1.22	24.10	8
1998	1.19	0.73	0.94	0.81	1.24	1.49	0.88	1.19	4.46	3.44	2.93	2.60	21.90	11
Mean 1961-90	1.06	0.71	0.73	0.60	0.67	0.91	1.90	2.93	3.25	1.87	1.72	1.45	17.80	

Section B - Monthly and annual data for U.S. Geological
Survey precipitation gages, water years 1931-98

Measured (shaded) and estimated precipitation, in inches, for site 53, Beaver Creek at Mallo Camp (06392900)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.08	0.54	1.25	0.84	0.52	1.83	1.63	1.53	1.46	1.14	0.80	0.33	12.95	67
1932	0.70	0.59	0.64	1.49	0.37	1.15	5.69	3.96	3.39	2.89	2.42	0.65	23.94	21
1933	2.71	0.71	1.13	1.48	1.07	1.62	3.52	5.01	1.82	1.08	2.37	0.88	23.40	24
1934	0.35	0.62	0.59	0.91	0.49	1.10	1.18	0.48	4.46	0.68	2.51	0.99	14.36	65
1935	1.16	0.63	0.80	0.26	0.79	1.53	1.70	4.03	3.07	2.36	0.82	0.72	17.87	52
1936	0.42	0.77	0.83	0.82	0.87	1.12	1.32	0.34	1.56	1.30	1.03	0.53	10.91	68
1937	0.67	0.72	0.45	0.77	0.62	1.05	0.56	2.01	3.82	3.24	1.10	1.27	16.28	58
1938	0.34	0.64	1.25	1.73	0.67	1.06	2.09	4.44	2.09	1.80	0.57	0.72	17.40	53
1939	0.24	0.85	0.88	1.23	1.02	0.95	2.21	1.69	3.08	1.22	3.99	0.87	18.23	49
1940	1.01	0.08	0.74	0.54	0.80	1.19	3.04	1.21	2.27	1.21	0.83	1.65	14.57	64
1941	1.45	0.42	0.50	0.16	0.21	1.02	4.80	2.26	6.48	3.20	2.55	2.22	25.27	13
1942	2.19	0.58	0.56	0.21	0.49	1.41	2.99	3.48	4.03	1.86	1.87	2.21	21.88	30
1943	1.98	1.24	1.02	0.95	0.83	1.14	2.73	2.42	3.97	2.37	1.82	0.44	20.91	36
1944	1.67	1.09	0.10	1.57	0.24	0.91	1.39	2.88	4.12	2.43	0.43	0.52	17.35	54
1945	0.80	1.36	0.62	1.05	0.75	1.75	1.21	3.68	3.64	1.56	5.40	2.77	24.59	15
1946	0.20	0.33	1.06	0.62	0.55	1.86	1.94	8.55	4.19	2.61	1.12	4.23	27.26	8
1947	2.89	0.29	0.93	1.17	0.69	1.37	2.15	1.38	6.76	1.79	0.97	0.52	20.91	37
1948	1.45	1.97	0.24	1.31	0.68	0.38	2.50	1.21	4.78	3.24	1.66	1.34	20.76	38
1949	0.55	1.69	0.13	1.35	0.18	0.45	2.00	1.99	3.72	1.30	0.95	0.91	15.22	62
1950	1.26	0.75	0.63	0.30	0.31	2.87	1.92	1.88	1.55	3.08	2.13	2.97	19.65	43
1951	0.62	0.65	0.35	0.30	0.21	0.84	1.09	1.66	4.05	3.12	2.94	2.99	18.82	47
1952	0.98	0.96	1.47	0.13	0.48	1.22	0.58	7.61	2.04	2.30	1.57	0.33	19.67	42
1953	0.20	0.56	0.35	1.33	1.32	1.14	3.13	2.50	3.46	1.72	3.36	0.29	19.36	44
1954	0.31	0.76	0.83	0.20	0.91	1.86	0.33	2.98	1.82	2.12	2.59	0.61	15.32	61
1955	1.73	0.62	0.62	1.05	0.84	1.08	2.09	2.93	3.75	2.91	2.33	2.23	22.18	29
1956	0.66	1.02	1.09	0.51	0.40	1.19	1.59	3.82	1.78	2.33	2.61	0.35	17.35	55
1957	0.64	1.96	0.57	0.56	0.27	1.33	1.79	4.89	4.37	2.97	2.17	0.92	22.44	28
1958	0.89	1.06	0.78	0.61	0.96	0.97	2.71	1.37	3.89	5.03	1.84	0.27	20.38	39
1959	1.20	1.19	0.74	0.85	1.64	1.43	1.59	3.02	5.03	1.00	0.31	2.07	20.07	41
1960	0.76	1.89	0.48	0.33	1.31	0.93	1.92	1.28	3.92	0.74	1.97	1.15	16.68	57
1961	0.15	0.73	1.17	0.13	0.57	0.76	1.89	1.39	1.44	3.22	0.99	2.26	14.70	63
1962	0.79	0.57	1.00	1.12	1.10	0.63	1.46	8.61	5.13	3.12	1.19	1.91	26.63	11
1963	0.73	0.44	0.74	1.29	2.20	1.30	5.20	3.02	6.14	3.07	0.56	2.47	27.16	9
1964	0.82	0.26	1.08	0.79	2.55	1.05	2.19	4.81	8.58	0.47	5.09	0.81	28.50	3
1965	0.36	0.60	1.64	1.85	0.56	0.77	1.82	8.41	4.93	4.23	1.81	2.20	29.18	1
1966	0.00	0.65	0.33	0.36	1.01	1.35	3.56	0.29	1.72	3.89	3.13	1.94	18.23	50
1967	1.37	0.66	1.00	0.91	1.41	0.76	2.83	2.91	5.29	1.72	1.79	3.76	24.41	16
1968	1.09	0.63	1.42	0.50	0.64	0.34	1.33	2.64	4.97	3.15	3.14	1.87	21.72	31
1969	0.37	1.37	0.95	0.76	0.95	0.96	3.90	2.59	4.57	4.66	0.84	1.20	23.12	26
1970	0.99	1.27	1.09	1.34	0.57	1.97	2.96	3.50	3.01	2.11	1.13	1.17	21.11	33
1971	1.41	1.68	0.84	1.56	1.30	1.57	3.96	4.02	2.39	1.18	1.66	2.70	24.27	17
1972	3.08	1.07	0.46	1.04	0.66	1.36	2.04	4.65	4.24	2.86	3.65	0.81	25.92	12
1973	0.95	0.57	0.80	0.24	0.44	3.02	3.92	2.31	4.41	2.39	1.80	3.15	24.00	19
1974	0.69	0.67	1.35	0.71	0.73	0.49	1.93	1.62	1.20	3.26	4.21	1.03	17.89	51
1975	1.45	0.76	1.08	1.61	0.63	2.43	3.38	2.31	4.98	0.66	0.63	0.25	20.17	40
1976	0.94	0.70	1.39	0.79	1.35	0.68	2.24	3.50	7.31	2.35	1.09	0.99	23.33	25
1977	0.49	1.64	0.85	2.20	1.72	2.50	2.27	2.22	2.55	2.15	3.25	1.97	23.81	22
1978	1.49	1.20	1.01	0.45	1.43	0.58	3.64	6.80	2.20	4.05	1.38	0.68	24.91	14
1979	1.07	0.99	1.52	0.94	1.09	0.60	1.19	2.16	3.97	4.78	3.78	0.47	22.56	27
1980	0.70	1.06	0.66	0.67	0.59	1.15	1.30	4.03	1.87	1.27	2.77	1.09	17.16	56
1981	1.60	0.70	1.02	0.27	0.26	0.23	0.53	4.65	2.05	4.87	1.52	1.23	18.93	46
1982	1.20	0.48	0.72	1.17	2.01	3.91	2.33	5.65	3.32	3.22	1.73	1.60	27.34	7
1983	3.15	0.52	0.85	1.02	0.23	1.35	1.23	2.29	1.74	1.44	4.10	0.50	18.42	48
1984	2.71	1.78	0.68	0.81	0.47	1.49	3.67	1.45	3.62	2.01	1.44	0.84	20.97	35
1985	0.97	1.21	0.48	0.51	0.70	1.41	1.01	1.36	1.86	1.79	1.24	1.65	14.19	66
1986	0.62	1.52	1.32	0.78	1.49	0.85	3.66	1.86	4.94	1.54	1.10	4.13	23.81	23
1987	2.02	1.42	0.11	0.65	1.40	1.24	0.37	3.60	0.98	1.21	1.69	1.14	15.83	59
1988	0.76	0.53	0.39	0.76	1.06	1.41	0.79	3.54	2.03	1.20	1.71	1.35	15.53	60
1989	0.82	1.37	1.04	0.37	1.21	1.02	3.04	2.40	2.71	1.00	2.07	2.18	19.23	45
1990	1.90	1.88	2.12	0.89	0.94	1.53	1.90	2.37	0.99	3.53	2.24	1.05	21.34	32
1991	1.54	0.65	1.49	1.30	1.76	1.26	4.85	5.44	3.15	1.17	0.89	0.48	23.98	20
1992	1.41	1.94	0.37	1.07	0.71	1.69	3.25	2.66	1.61	3.38	2.06	0.86	21.01	34
1993	0.59	2.48	1.28	0.83	0.78	1.26	2.86	3.71	6.68	3.79	1.44	1.41	27.11	10
1994	1.71	1.75	3.48	2.81	1.41	1.77	2.92	2.29	1.63	1.77	1.67	0.96	24.17	18
1995	5.09	2.27	0.34	0.41	1.23	2.33	2.83	6.33	3.02	2.70	0.70	1.66	28.91	2
1996	3.13	1.21	0.75	2.09	0.98	3.30	2.62	4.26	2.34	2.26	3.58	1.93	28.45	4
1997	3.89	0.77	3.61	1.40	1.33	1.26	3.83	1.91	1.94	5.14	0.96	1.49	27.53	6
1998	1.90	1.49	2.26	1.13	3.22	1.52	1.25	1.83	5.83	2.96	2.39	1.76	27.54	5
Mean 1961-90	1.16	0.96	0.97	0.88	1.04	1.29	2.38	3.37	3.50	2.55	2.09	1.61	21.81	

Measured (shaded) and estimated precipitation, in inches, for site 54, Battle Creek near Keystone (06404000)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.23	0.67	0.10	0.26	0.29	0.84	0.78	1.59	1.80	1.31	2.21	0.30	13.38	59
1932	1.38	0.74	0.54	0.81	0.30	0.85	3.94	3.78	2.97	2.76	3.29	0.36	21.72	16
1933	1.60	0.11	0.30	0.36	0.43	1.11	3.31	5.88	1.17	2.38	4.00	0.42	21.07	18
1934	0.08	0.21	0.22	0.25	0.33	1.01	0.81	0.32	3.20	1.20	1.10	0.85	9.58	68
1935	2.04	0.30	0.53	0.15	0.50	0.95	1.96	6.10	2.67	1.29	0.53	0.87	17.89	39
1936	0.31	0.35	0.17	0.48	0.58	0.83	1.55	0.43	3.08	0.54	1.81	0.57	10.70	66
1937	0.79	0.95	0.17	0.39	0.33	1.29	0.42	2.32	3.00	2.95	0.63	0.70	13.94	57
1938	0.29	0.26	0.77	0.37	0.18	0.99	2.25	4.43	2.20	2.23	0.85	1.31	16.13	50
1939	0.40	0.70	0.21	0.31	0.28	0.98	0.76	1.88	2.09	1.58	3.55	1.19	13.93	58
1940	1.20	0.00	0.30	0.31	0.27	0.86	2.99	0.58	1.68	1.58	1.78	1.68	13.23	60
1941	1.08	0.27	0.36	0.11	0.09	0.79	5.28	1.62	4.24	2.11	2.55	1.49	19.99	22
1942	2.16	0.15	0.36	0.03	0.36	0.87	3.95	3.62	3.57	2.00	1.46	1.42	19.95	23
1943	1.43	0.34	0.23	0.61	0.39	0.99	3.43	3.07	5.11	1.57	0.36	0.15	17.68	40
1944	1.07	0.15	0.23	1.56	0.38	0.74	1.55	3.34	3.79	3.72	0.62	0.14	17.29	43
1945	0.81	0.94	0.35	0.43	0.30	2.10	0.64	2.10	3.82	1.35	3.67	1.50	18.01	38
1946	0.05	0.12	0.12	0.08	0.17	1.12	1.20	7.02	3.72	2.20	1.62	3.17	20.59	20
1947	1.94	0.09	0.16	0.56	0.06	0.63	2.09	2.37	7.99	0.82	1.78	0.43	18.92	28
1948	1.03	0.86	0.13	0.43	0.26	0.26	1.62	2.00	4.53	2.48	1.12	0.24	14.96	53
1949	1.02	0.48	0.64	1.68	0.08	0.47	1.58	3.96	3.35	2.26	2.41	1.10	19.03	27
1950	0.91	0.06	0.46	0.29	0.10	1.75	1.37	1.64	1.45	2.24	1.71	2.22	14.20	56
1951	0.33	0.11	0.10	0.14	0.22	0.62	0.65	2.49	5.28	2.35	2.28	2.00	16.57	46
1952	1.07	0.25	0.51	0.07	0.49	0.77	0.25	6.56	3.15	1.63	2.03	0.22	17.00	45
1953	0.15	0.33	0.12	0.73	1.64	1.10	3.28	1.23	2.98	0.85	2.85	0.54	15.80	52
1954	0.21	0.77	0.12	0.16	0.40	1.41	0.38	2.26	1.81	1.35	2.21	0.25	11.33	65
1955	1.84	0.59	0.17	0.29	1.06	1.14	1.13	1.93	3.04	2.31	2.33	2.47	18.30	35
1956	0.21	0.59	0.72	0.42	0.42	0.85	1.51	3.86	1.19	3.87	3.44	0.25	17.33	42
1957	0.29	1.76	0.34	0.32	0.15	0.46	2.55	6.75	3.81	2.75	1.24	0.66	21.08	17
1958	1.44	0.29	0.17	0.22	0.62	0.88	3.10	2.67	3.64	4.04	0.45	0.08	17.60	41
1959	0.09	0.45	0.29	0.22	0.46	1.00	1.92	2.62	4.68	1.68	0.30	2.74	16.45	48
1960	0.20	1.01	0.09	0.30	0.56	0.37	1.51	1.81	3.01	1.35	1.40	0.74	12.35	61
1961	0.03	0.55	0.55	0.02	0.36	1.00	1.08	2.26	1.61	2.59	0.68	1.38	12.11	62
1962	0.99	0.15	0.11	0.35	1.14	0.72	0.42	9.12	5.15	6.40	0.62	1.19	26.36	4
1963	1.73	0.30	0.05	0.51	0.31	1.54	4.52	1.96	6.80	2.89	1.26	2.58	24.45	9
1964	0.87	0.10	0.31	0.36	0.39	0.68	1.33	3.32	5.57	3.37	1.01	0.83	18.14	37
1965	0.26	0.33	1.46	0.70	0.22	0.65	1.66	8.15	5.70	4.14	2.17	2.02	27.46	3
1966	0.23	0.20	0.33	0.22	0.87	0.58	3.67	0.06	1.34	3.88	3.67	2.11	17.16	44
1967	0.92	0.59	0.83	0.24	0.43	0.69	2.70	3.58	7.76	1.75	1.57	1.33	22.39	15
1968	0.30	0.37	0.66	0.59	0.24	0.50	1.14	2.44	6.14	2.47	3.27	1.37	19.49	25
1969	0.12	0.38	0.59	0.32	1.07	0.49	1.31	2.35	4.02	6.09	0.88	0.82	18.44	33
1970	1.40	0.24	0.21	0.23	0.32	1.49	3.58	4.23	3.13	1.82	1.67	1.92	20.24	21
1971	1.08	0.63	0.59	1.10	0.74	1.62	5.09	5.18	2.42	1.55	1.06	2.72	23.78	10
1972	1.45	0.93	0.31	0.45	0.28	0.63	1.95	3.12	7.89	2.93	2.88	0.56	23.38	11
1973	0.84	0.27	0.51	0.07	0.24	2.47	3.52	1.42	1.62	3.78	1.69	1.86	18.29	36
1974	0.66	0.80	0.55	0.48	0.17	0.20	0.87	1.66	1.28	2.89	1.25	1.00	11.81	64
1975	2.02	0.13	0.10	0.84	0.59	1.27	2.30	2.30	4.74	1.12	1.03	0.09	16.53	47
1976	0.38	0.40	0.71	0.19	1.04	0.50	3.89	3.50	6.11	3.37	1.92	0.79	22.80	14
1977	0.18	0.32	0.19	0.34	0.26	1.82	1.77	1.90	2.87	4.40	2.58	2.04	18.67	31
1978	0.90	0.63	0.68	0.35	0.79	0.26	2.07	7.06	1.62	4.24	1.86	0.49	20.95	19
1979	0.38	0.69	0.53	0.33	0.37	0.34	0.96	1.56	3.90	7.48	2.55	0.15	19.24	26
1980	0.67	0.25	0.14	0.25	0.32	0.85	1.41	2.30	2.68	2.64	2.72	0.65	14.88	54
1981	2.10	0.36	0.55	0.05	0.11	0.21	0.66	6.74	1.30	4.49	1.53	0.38	18.48	32
1982	1.95	0.09	0.77	0.54	0.38	1.06	0.88	5.52	4.14	2.81	2.37	2.39	22.90	13
1983	1.91	0.34	0.53	0.16	0.11	1.44	0.72	3.27	2.43	0.87	2.43	0.51	14.72	55
1984	2.34	0.97	0.45	0.10	0.16	0.51	2.84	1.85	4.97	3.71	1.36	0.68	19.94	24
1985	0.59	0.53	0.32	0.25	0.04	0.93	0.78	0.82	0.96	2.35	0.76	2.16	10.49	67
1986	0.64	1.78	0.51	0.07	0.72	0.74	3.43	1.55	5.52	1.24	1.76	4.96	22.92	12
1987	1.87	0.82	0.07	0.05	1.72	1.74	0.10	4.39	0.87	1.37	2.29	0.55	15.84	51
1988	0.61	0.20	0.33	0.19	0.22	0.41	0.91	2.26	2.85	1.49	2.11	0.30	11.88	63
1989	0.53	1.10	0.54	0.02	0.62	1.43	1.16	1.99	2.18	1.92	2.27	4.99	18.75	30
1990	1.65	0.17	0.75	0.04	0.61	1.32	1.48	7.06	1.97	7.20	2.20	1.48	25.93	6
1991	0.96	0.72	0.69	0.24	0.80	0.63	5.41	6.45	4.36	2.62	1.70	1.31	25.89	7
1992	0.71	1.59	0.25	0.04	0.35	2.29	1.20	3.06	3.88	3.61	1.14	0.71	18.83	29
1993	0.83	0.12	0.70	0.55	0.67	1.23	3.00	5.77	6.08	3.76	2.13	1.45	26.29	5
1994	1.56	0.26	0.06	0.47	0.52	0.20	0.33	1.77	2.33	1.60	3.31	4.00	16.41	49
1995	4.89	0.50	0.37	0.02	0.46	0.96	3.03	9.28	6.16	3.24	0.95	1.40	31.26	1
1996	2.37	0.02	0.07	0.79	0.17	1.41	2.15	8.08	2.02	2.91	2.02	2.89	24.90	8
1997	4.93	0.52	1.18	0.16	0.45	0.34	2.50	6.14	2.58	4.49	1.73	3.60	28.62	2
1998	0.98	0.05	0.16	0.13	0.58	1.52	0.24	2.76	5.19	1.82	3.60	1.32	18.35	34
Mean 1961-90	0.99	0.49	0.47	0.31	0.49	0.94	1.94	3.43	3.65	3.24	1.85	1.48	19.28	

Measured (shaded) and estimated precipitation, in inches, for site 55, Bear Gulch near Hayward (06405800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.29	0.67	0.07	0.26	0.30	0.76	0.84	1.71	1.77	1.26	2.48	0.33	13.74	59
1932	1.50	0.74	0.56	0.83	0.37	1.02	3.76	3.54	3.16	2.68	3.20	0.30	21.66	16
1933	1.54	0.10	0.30	0.39	0.42	1.10	3.37	5.86	1.02	2.38	4.37	0.46	21.31	17
1934	0.06	0.22	0.21	0.25	0.33	1.13	0.74	0.28	2.93	1.41	1.17	0.90	9.63	68
1935	2.15	0.26	0.52	0.15	0.50	0.95	1.91	6.24	2.69	1.10	0.55	1.03	18.05	38
1936	0.32	0.36	0.16	0.46	0.61	0.83	1.63	0.51	3.47	0.51	2.00	0.61	11.47	63
1937	0.79	1.02	0.23	0.42	0.35	1.29	0.40	2.22	3.06	2.77	0.62	0.65	13.82	58
1938	0.35	0.28	0.75	0.34	0.18	1.04	2.07	4.72	2.02	2.38	0.95	1.40	16.48	49
1939	0.43	0.73	0.20	0.25	0.29	1.02	0.71	2.06	2.03	1.44	3.87	1.28	14.31	56
1940	1.20	0.00	0.30	0.35	0.30	0.83	3.14	0.61	1.55	1.81	1.86	1.75	13.70	60
1941	1.12	0.28	0.36	0.12	0.10	0.85	5.20	1.62	4.00	2.11	2.71	1.52	19.99	22
1942	2.14	0.15	0.35	0.03	0.37	0.89	3.97	3.53	3.64	2.11	1.50	1.39	20.07	21
1943	1.39	0.31	0.21	0.57	0.40	1.02	3.88	3.17	5.18	1.51	0.35	0.15	18.14	37
1944	1.06	0.11	0.25	1.56	0.40	0.72	1.62	3.40	3.71	3.81	0.70	0.11	17.45	44
1945	0.77	0.79	0.38	0.40	0.32	2.10	0.61	2.01	3.83	1.41	3.53	1.46	17.61	42
1946	0.04	0.12	0.11	0.08	0.17	1.06	1.04	6.97	3.56	2.08	1.66	3.05	19.94	23
1947	1.67	0.08	0.14	0.49	0.03	0.65	2.10	2.53	8.30	0.97	1.90	0.40	19.26	28
1948	1.00	0.88	0.14	0.40	0.27	0.29	1.56	2.01	4.41	2.33	1.05	0.19	14.53	55
1949	1.04	0.41	0.70	1.39	0.05	0.44	1.45	4.35	3.09	2.23	2.37	1.08	18.60	31
1950	0.80	0.04	0.47	0.28	0.11	1.65	1.33	1.58	1.49	2.30	1.66	2.19	13.90	57
1951	0.33	0.07	0.10	0.14	0.23	0.58	0.67	2.40	5.51	2.50	1.83	2.15	16.51	48
1952	0.86	0.18	0.48	0.08	0.45	0.83	0.18	6.78	3.15	1.68	2.28	0.23	17.18	46
1953	0.16	0.43	0.12	0.72	1.54	1.17	3.23	1.17	2.63	0.90	3.05	0.59	15.71	51
1954	0.22	0.71	0.13	0.14	0.44	1.29	0.41	2.25	1.53	1.55	2.18	0.33	11.18	66
1955	1.87	0.56	0.20	0.27	1.07	1.26	0.97	2.08	2.95	2.20	2.41	2.35	18.19	36
1956	0.19	0.58	0.70	0.42	0.44	0.86	1.39	3.96	1.31	3.92	3.51	0.26	17.54	43
1957	0.28	1.69	0.38	0.32	0.13	0.43	2.56	6.96	4.00	2.64	1.22	0.63	21.24	18
1958	1.58	0.26	0.17	0.20	0.67	0.90	3.14	2.63	3.50	4.21	0.37	0.05	17.68	41
1959	0.08	0.38	0.28	0.23	0.45	0.99	1.91	2.63	4.94	1.69	0.29	2.79	16.66	47
1960	0.19	0.89	0.09	0.32	0.50	0.34	1.28	1.68	3.14	1.26	1.10	0.66	11.45	64
1961	0.03	0.58	0.57	0.02	0.39	1.07	1.11	2.37	1.62	2.58	0.72	1.36	12.42	61
1962	1.04	0.15	0.11	0.34	1.08	0.68	0.40	8.59	4.72	6.07	0.60	1.17	24.95	6
1963	1.77	0.22	0.07	0.54	0.28	1.49	4.12	2.15	6.23	2.70	1.23	2.41	23.21	9
1964	0.88	0.11	0.31	0.36	0.41	0.80	1.36	3.41	5.16	3.31	0.99	0.70	17.80	40
1965	0.32	0.31	1.39	0.57	0.27	0.62	1.58	7.61	5.25	3.83	1.90	1.85	25.50	5
1966	0.25	0.20	0.31	0.22	0.88	0.55	4.14	0.05	1.55	3.58	3.61	1.99	17.33	45
1967	0.91	0.64	0.85	0.24	0.40	0.74	2.69	3.39	7.75	1.77	1.73	1.36	22.47	14
1968	0.29	0.37	0.68	0.55	0.23	0.58	1.12	2.42	6.11	2.86	3.36	1.33	19.90	24
1969	0.14	0.37	0.60	0.32	1.03	0.45	1.20	2.45	3.82	5.77	0.94	0.75	17.84	39
1970	1.39	0.25	0.23	0.21	0.30	1.43	3.45	3.66	2.97	1.87	1.81	1.91	19.48	26
1971	1.04	0.61	0.62	1.20	0.78	1.76	4.80	4.31	2.43	1.43	0.80	2.73	22.51	13
1972	1.45	0.89	0.33	0.67	0.25	0.56	1.94	2.96	7.11	2.97	2.83	0.56	22.52	12
1973	0.88	0.25	0.50	0.05	0.25	2.33	3.57	1.45	1.42	3.89	1.94	2.03	18.56	33
1974	0.73	0.83	0.55	0.48	0.13	0.20	0.81	1.67	1.15	2.75	1.14	0.86	11.30	65
1975	1.95	0.13	0.09	0.89	0.54	1.34	2.17	2.35	4.75	1.03	1.03	0.08	16.35	50
1976	0.38	0.38	0.64	0.24	1.03	0.54	3.83	3.37	6.24	3.22	1.80	0.73	22.40	15
1977	0.20	0.34	0.19	0.35	0.25	1.73	1.81	2.20	2.94	4.53	2.79	1.97	19.30	27
1978	0.84	0.66	0.75	0.36	0.82	0.25	1.87	7.20	1.61	4.14	1.97	0.42	20.89	19
1979	0.35	0.69	0.48	0.34	0.36	0.32	0.99	1.56	3.57	7.06	2.41	0.14	18.27	35
1980	0.71	0.28	0.16	0.27	0.35	0.93	1.39	2.36	2.76	2.76	2.54	0.65	15.16	52
1981	2.16	0.38	0.63	0.06	0.11	0.27	0.72	6.64	1.21	4.45	1.56	0.37	18.56	34
1982	1.75	0.09	0.84	0.58	0.39	1.06	0.93	5.47	4.44	2.81	2.14	2.48	22.98	10
1983	1.74	0.39	0.52	0.14	0.11	1.46	0.69	3.30	2.26	0.89	2.51	0.57	14.58	54
1984	2.37	0.83	0.48	0.10	0.14	0.53	2.73	1.66	4.63	4.24	1.60	0.54	19.85	25
1985	0.55	0.58	0.37	0.29	0.05	0.97	0.84	0.90	0.89	2.44	0.78	2.17	10.83	67
1986	0.79	1.75	0.38	0.07	0.66	0.80	3.32	1.54	5.93	1.21	1.87	4.35	22.67	11
1987	2.05	0.97	0.08	0.06	1.85	1.60	0.20	3.66	1.09	1.26	1.80	0.54	15.16	53
1988	0.55	0.33	0.44	0.18	0.24	0.50	0.99	2.45	2.40	1.32	2.19	0.37	11.96	62
1989	0.48	1.11	0.43	0.03	0.68	1.01	1.24	1.95	1.84	2.13	1.76	5.94	18.60	32
1990	1.50	0.50	0.79	0.06	0.78	1.55	1.62	6.24	1.50	4.53	0.87	0.89	20.83	20
1991	0.68	0.92	0.75	0.17	0.88	0.48	5.50	4.80	4.60	3.13	1.26	1.46	24.63	7
1992	1.47	1.94	0.00	0.16	0.31	2.14	1.02	3.03	3.55	3.89	1.33	0.27	19.11	29
1993	0.59	0.34	0.98	1.18	1.26	1.39	4.00	3.33	5.61	3.92	2.04	1.40	26.04	4
1994	2.93	0.77	0.68	0.46	1.03	0.63	1.41	1.88	1.23	3.05	3.71	1.12	18.90	30
1995	3.66	0.68	0.88	0.00	0.94	1.38	3.44	10.36	5.86	3.15	0.36	1.48	32.19	1
1996	2.62	0.31	0.22	1.15	0.18	1.14	2.14	6.88	1.76	3.38	5.13	2.87	27.78	3
1997	3.32	0.60	1.14	0.38	1.01	0.96	2.27	5.60	2.04	6.50	2.98	1.86	28.66	2
1998	0.96	0.06	0.22	0.77	1.07	2.82	0.62	4.31	6.23	2.97	2.54	1.52	24.09	8
Mean 1961-90	0.98	0.51	0.48	0.33	0.50	0.94	1.92	3.31	3.51	3.11	1.77	1.44	18.81	

Measured (shaded) and estimated precipitation, in inches, for site 56, Rhoads Fork near Rochford (06408700)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.27	0.62	1.17	0.93	0.54	1.95	1.75	1.57	1.39	1.27	1.14	0.34	13.94	67
1932	0.86	0.94	0.55	1.68	0.32	1.29	5.94	4.42	3.43	2.92	2.28	0.72	25.35	19
1933	2.78	0.68	1.09	1.40	0.98	1.77	4.04	5.41	1.88	1.13	2.41	0.79	24.36	22
1934	0.31	0.62	0.63	0.94	0.46	1.12	1.28	0.53	4.80	0.59	1.99	1.23	14.50	66
1935	1.12	0.72	0.82	0.20	0.83	1.66	1.96	4.24	3.70	3.55	0.93	0.78	20.51	44
1936	0.40	0.89	0.87	0.89	0.73	1.24	1.43	0.42	1.60	1.31	1.19	0.53	11.50	68
1937	0.73	0.75	0.37	0.61	0.63	1.06	0.52	2.16	4.25	3.78	1.07	1.37	17.30	58
1938	0.37	0.63	1.28	2.01	0.63	0.98	2.53	4.41	2.10	1.90	0.44	0.76	18.04	56
1939	0.21	0.94	1.11	1.42	0.97	1.09	2.73	1.82	2.81	1.28	3.89	0.85	19.12	48
1940	1.14	0.05	0.78	0.52	0.85	1.30	3.11	1.22	2.33	1.32	1.36	1.64	15.62	62
1941	1.33	0.47	0.50	0.12	0.19	1.25	5.42	2.42	6.85	3.10	2.31	1.87	25.83	15
1942	2.23	0.53	0.65	0.27	0.57	1.59	3.00	4.19	4.11	1.90	1.81	2.27	23.12	31
1943	2.25	1.43	1.03	1.08	0.99	1.14	3.06	2.85	4.37	2.29	1.62	0.46	22.57	34
1944	1.63	1.34	0.16	2.12	0.35	1.10	1.64	3.03	4.31	2.48	0.38	0.56	19.10	49
1945	0.93	1.87	0.60	1.06	0.78	1.94	1.40	3.93	3.87	1.37	4.89	2.81	25.45	18
1946	0.25	0.31	1.03	0.67	0.68	2.05	2.25	9.86	4.29	2.88	1.15	4.46	29.88	7
1947	3.48	0.28	0.95	1.34	0.83	1.41	2.49	1.31	7.25	1.90	0.98	0.56	22.78	32
1948	1.59	1.76	0.21	1.40	0.62	0.31	2.67	1.53	5.53	3.83	2.14	1.11	22.70	33
1949	0.58	1.57	0.15	1.97	0.20	0.45	2.15	2.34	3.47	1.64	0.76	0.79	16.07	61
1950	1.24	0.63	0.56	0.29	0.29	2.80	2.10	1.79	1.93	3.69	2.11	2.85	20.28	46
1951	0.52	0.70	0.22	0.24	0.23	0.97	1.37	2.40	3.85	3.12	2.84	2.59	19.05	51
1952	1.25	0.87	2.30	0.13	0.56	1.22	0.67	8.49	1.93	2.17	1.45	0.51	21.55	39
1953	0.24	0.65	0.37	1.51	1.56	1.17	3.28	3.08	3.61	2.38	3.31	0.43	21.59	38
1954	0.31	0.84	1.02	0.25	1.07	2.24	0.39	3.32	1.92	1.74	3.01	0.77	16.88	59
1955	1.81	0.75	0.81	1.13	0.90	1.19	2.54	2.76	4.21	3.17	2.10	2.57	23.94	28
1956	0.89	1.08	1.07	0.56	0.42	1.30	1.60	4.00	1.99	2.43	3.09	0.50	18.93	52
1957	0.69	2.45	0.61	0.59	0.27	1.43	1.94	5.14	4.31	3.25	2.60	0.94	24.22	24
1958	0.87	1.15	0.77	0.70	1.05	0.83	3.16	1.50	3.98	5.10	1.89	0.38	21.38	40
1959	1.18	1.33	0.75	0.93	1.60	1.51	1.74	3.01	4.94	0.98	0.28	2.16	20.41	45
1960	0.84	2.13	0.57	0.35	1.32	1.10	2.06	1.40	4.81	0.87	2.62	1.09	19.16	47
1961	0.16	0.76	1.31	0.15	0.63	0.73	2.17	1.30	1.51	3.36	1.02	2.52	15.62	63
1962	0.81	0.62	1.10	1.18	1.05	0.68	1.66	9.34	5.45	3.55	1.14	2.05	28.63	10
1963	0.93	0.54	0.84	1.38	2.59	1.50	5.27	3.42	6.85	2.97	0.41	2.46	29.16	8
1964	0.87	0.28	1.12	0.89	2.75	1.15	2.27	5.12	9.05	0.57	5.93	0.85	30.85	4
1965	0.44	0.71	1.63	1.89	0.64	0.82	1.97	9.02	4.88	3.87	1.93	2.34	30.14	5
1966	0.00	0.68	0.38	0.40	1.06	1.70	3.55	0.36	1.77	3.73	2.98	2.02	18.63	55
1967	1.52	0.72	0.98	1.00	1.63	0.72	2.96	2.98	5.68	1.83	1.68	3.80	25.50	17
1968	1.14	0.73	1.58	0.54	0.73	0.38	1.42	2.85	5.34	3.63	3.36	2.04	23.74	29
1969	0.44	1.51	1.04	0.86	0.90	1.04	3.96	2.62	4.38	4.68	1.05	1.23	23.71	30
1970	1.24	1.35	1.26	1.42	0.67	2.19	3.24	3.93	3.84	2.08	1.49	1.29	24.00	27
1971	1.70	1.72	0.77	1.66	1.41	1.95	4.05	4.30	2.48	1.21	2.03	3.08	26.36	13
1972	2.90	1.08	0.48	1.02	0.67	1.25	2.29	4.92	4.49	3.19	3.62	0.75	26.66	12
1973	0.99	0.59	0.82	0.23	0.45	3.22	4.18	2.64	4.43	2.27	1.94	2.84	24.60	21
1974	0.72	0.67	1.31	0.68	0.77	0.55	2.06	1.76	1.29	3.54	4.55	1.03	18.93	53
1975	1.52	0.80	1.07	1.67	0.67	2.57	3.26	2.21	5.47	0.84	0.80	0.30	21.18	42
1976	0.94	0.77	1.50	0.93	1.43	0.80	2.61	3.87	7.82	2.71	1.10	1.30	25.78	16
1977	0.53	1.58	0.90	2.29	1.98	2.98	2.34	2.23	2.78	2.27	3.30	2.12	25.30	20
1978	1.41	1.25	1.06	0.44	1.48	0.60	4.08	6.93	2.40	4.35	1.63	0.69	26.32	14
1979	1.12	1.07	1.54	0.92	1.11	0.74	1.45	2.34	4.49	5.33	3.71	0.49	24.31	23
1980	0.90	1.11	0.68	0.67	0.55	1.13	1.53	4.18	1.93	1.54	3.39	1.18	18.79	54
1981	1.70	0.78	0.89	0.22	0.25	0.20	0.55	5.75	2.45	5.30	1.10	1.68	20.87	43
1982	1.37	0.60	0.73	1.50	4.17	8.55	4.22	5.03	2.90	2.85	0.25	0.81	32.98	2
1983	3.18	0.49	0.96	1.50	0.35	1.04	1.01	2.44	1.25	1.79	3.50	0.43	17.94	57
1984	2.79	2.03	0.60	1.62	0.65	1.56	4.39	1.20	3.12	2.28	1.53	0.76	22.53	36
1985	1.08	1.45	0.40	0.70	1.50	1.62	1.18	0.95	1.65	2.03	2.35	1.80	16.71	60
1986	0.50	1.60	1.30	1.20	1.76	1.05	3.04	1.58	4.33	0.70	1.31	3.45	21.82	37
1987	1.88	1.54	0.20	0.98	1.11	0.75	0.46	3.11	1.43	1.16	1.45	0.84	14.91	65
1988	0.60	0.38	0.28	1.04	1.36	1.47	0.64	3.87	1.94	0.87	1.87	1.14	15.46	64
1989	0.91	1.58	0.86	0.25	0.75	1.13	4.05	2.43	2.14	0.96	2.10	1.94	19.10	50
1990	1.62	1.47	2.33	0.99	1.14	2.06	2.09	3.74	0.97	2.48	1.57	0.89	21.35	41
1991	1.09	0.73	1.23	1.21	1.70	1.15	4.31	5.98	2.80	1.47	1.31	1.03	24.01	25
1992	1.52	1.62	0.27	0.89	0.71	2.17	2.85	4.79	3.25	3.09	1.99	0.86	24.01	26
1993	0.76	1.67	1.46	1.16	0.85	0.93	3.65	5.09	5.99	3.77	1.56	1.53	28.42	11
1994	1.93	1.42	2.88	2.39	1.18	1.64	3.37	2.34	2.16	1.62	0.82	0.80	22.55	35
1995	5.30	1.61	0.40	0.30	1.20	1.74	3.17	6.75	3.31	2.47	1.16	1.53	28.94	9
1996	3.52	1.18	0.65	2.23	0.74	2.91	3.24	5.22	1.83	3.10	3.36	2.07	30.05	6
1997	5.02	0.98	2.32	1.43	1.30	1.06	3.54	3.30	3.32	7.62	1.49	1.13	32.51	3
1998	1.67	1.50	1.64	0.70	2.67	2.40	0.97	2.06	7.30	6.63	3.92	2.08	33.54	1
Mean 1961-90	1.20	1.02	1.00	1.01	1.21	1.54	2.60	3.55	3.62	2.60	2.14	1.60	23.06	

Measured (shaded) and estimated precipitation, in inches, for site 57, Rapid Creek near Rochford (06408860)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.98	0.72	0.46	0.83	0.50	1.42	1.36	1.67	1.33	1.74	1.63	0.35	13.99	62
1932	1.29	1.44	0.37	1.49	0.18	0.96	5.42	3.97	2.43	3.18	2.89	0.86	24.48	16
1933	2.94	0.39	0.56	0.83	0.76	1.43	3.90	5.08	2.12	1.88	3.31	0.43	23.63	19
1934	0.18	0.49	0.42	0.55	0.36	0.85	1.00	0.44	4.83	0.62	1.39	1.16	12.29	66
1935	1.39	0.58	0.78	0.18	0.67	1.05	1.60	4.91	4.17	3.67	1.08	0.73	20.81	32
1936	0.36	0.70	0.50	0.78	0.52	1.07	1.61	0.51	2.04	1.15	1.56	0.44	11.24	68
1937	0.78	0.83	0.14	0.33	0.39	1.13	0.47	2.11	4.18	3.68	0.84	1.47	16.35	54
1938	0.32	0.36	0.99	1.25	0.28	0.80	2.46	3.88	1.43	2.20	0.34	0.84	15.15	60
1939	0.32	0.76	0.79	0.90	0.35	0.94	1.94	1.66	2.57	1.43	4.06	0.94	16.66	51
1940	1.07	0.01	0.46	0.29	0.37	1.02	2.52	0.83	2.22	1.37	1.88	1.71	13.75	64
1941	1.21	0.35	0.40	0.07	0.09	1.09	4.87	2.16	5.66	2.97	2.17	1.30	22.34	24
1942	1.95	0.29	0.60	0.19	0.37	1.31	3.11	3.97	3.33	1.86	1.94	2.13	21.05	31
1943	2.27	0.94	0.65	0.83	0.62	1.05	3.08	3.12	4.03	1.93	1.25	0.30	20.07	38
1944	1.25	0.94	0.07	1.59	0.23	0.76	1.35	2.78	3.49	2.33	0.23	0.53	15.55	58
1945	1.00	2.11	0.25	0.87	0.39	1.34	1.33	3.00	3.30	1.01	3.97	2.04	20.61	33
1946	0.11	0.13	0.58	0.33	0.50	1.76	2.44	9.07	4.03	3.16	1.54	4.20	27.85	5
1947	4.84	0.23	0.76	1.49	0.40	0.78	2.10	1.49	6.69	1.20	1.16	0.60	21.74	29
1948	1.50	0.97	0.06	0.86	0.33	0.14	2.98	1.89	5.94	4.31	2.67	0.77	22.42	23
1949	0.56	1.38	0.23	2.65	0.21	0.44	2.04	2.76	3.12	1.92	0.57	0.68	16.56	52
1950	1.16	0.30	0.57	0.27	0.37	2.81	1.99	1.74	1.79	4.08	1.69	2.35	19.12	41
1951	0.54	0.63	0.12	0.17	0.25	0.85	1.48	2.32	3.61	2.74	3.97	2.16	18.84	43
1952	1.04	0.05	1.47	0.05	0.21	1.06	0.78	7.87	2.38	1.71	1.14	0.77	18.53	44
1953	0.41	0.39	0.01	1.26	0.98	1.35	2.91	2.31	3.16	1.24	2.64	0.12	16.78	49
1954	0.20	0.68	0.40	0.16	0.56	1.84	0.07	2.74	2.71	2.29	3.25	0.45	15.35	59
1955	1.63	0.79	0.04	0.50	1.02	0.30	2.04	2.75	3.55	3.55	3.56	2.10	21.83	28
1956	0.33	0.72	0.44	0.67	0.15	0.67	1.50	4.25	1.30	1.80	3.69	0.29	15.81	57
1957	0.40	1.77	0.34	0.24	0.18	0.17	2.16	5.92	4.02	4.02	2.68	0.98	22.88	21
1958	0.52	0.32	0.29	0.45	0.37	0.56	2.96	1.34	4.03	3.99	1.58	0.34	16.75	50
1959	0.72	1.06	0.54	0.67	1.09	1.37	1.88	3.12	4.03	1.85	0.40	2.27	19.00	42
1960	0.51	1.61	0.37	0.32	0.95	0.73	1.99	1.65	4.05	1.36	2.62	1.19	17.35	47
1961	0.08	0.66	1.00	0.12	0.52	0.75	1.82	1.37	1.49	3.27	0.84	1.97	13.89	63
1962	1.04	0.40	0.68	0.75	0.88	0.62	1.28	9.72	6.85	4.84	1.38	1.55	29.99	1
1963	1.23	0.32	0.48	0.94	1.58	1.39	5.01	2.81	6.91	2.72	0.63	2.79	26.81	10
1964	0.91	0.20	0.72	0.67	1.66	0.94	1.95	4.50	7.44	1.33	3.85	1.05	25.22	13
1965	0.24	0.55	1.51	1.19	0.39	0.58	1.69	9.33	4.96	3.48	2.15	1.93	28.00	3
1966	0.07	0.40	0.34	0.26	0.78	1.46	3.13	0.27	1.46	3.99	3.28	2.25	17.69	46
1967	1.23	0.61	0.79	0.62	1.18	0.56	3.00	3.16	6.76	1.90	1.48	2.49	23.78	18
1968	0.79	0.53	1.03	0.56	0.50	0.28	1.23	2.66	5.42	2.56	3.01	1.65	20.22	36
1969	0.30	0.98	0.76	0.55	0.95	0.79	2.98	2.64	3.90	4.91	1.11	0.73	20.60	34
1970	1.37	0.80	0.67	0.72	0.52	1.77	3.17	4.08	3.83	2.21	2.45	1.26	22.85	22
1971	1.29	1.02	0.67	1.12	1.04	1.67	5.24	4.53	2.94	1.39	1.48	2.72	25.11	14
1972	2.35	1.04	0.27	0.57	0.46	0.91	2.19	4.01	8.56	3.39	3.46	0.57	27.78	6
1973	0.80	0.43	0.52	0.14	0.31	2.93	3.93	2.25	3.92	3.03	1.56	2.28	22.10	26
1974	0.90	0.75	1.15	0.44	0.50	0.39	1.50	1.73	1.11	4.12	2.74	0.97	16.30	56
1975	1.96	0.53	0.70	1.23	0.53	1.70	3.09	2.33	5.27	1.13	0.88	0.17	19.52	39
1976	0.72	0.59	1.28	0.62	1.11	0.52	3.70	3.81	7.05	3.27	1.59	1.24	25.50	11
1977	0.36	1.08	0.62	1.46	1.04	2.86	2.07	1.92	2.91	2.85	3.00	2.00	22.17	25
1978	1.18	1.04	0.91	0.39	1.25	0.46	3.55	6.68	2.14	4.18	1.84	0.57	24.19	17
1979	0.80	0.93	1.00	0.61	0.71	0.48	1.27	1.87	4.78	7.14	3.11	0.31	23.01	20
1980	0.86	0.65	0.37	0.44	0.48	1.04	1.69	2.99	2.51	1.75	2.80	0.88	16.46	53
1981	1.94	0.54	0.64	0.12	0.17	0.23	0.64	6.53	1.91	5.37	1.19	0.99	20.27	35
1982	1.85	0.24	0.68	0.87	1.34	2.78	1.70	5.93	4.16	3.52	2.14	2.30	27.51	8
1983	2.51	0.39	0.75	0.76	0.23	1.59	1.16	2.66	2.90	1.58	4.28	0.62	19.43	40
1984	2.22	1.35	0.53	0.43	0.24	1.05	4.01	1.71	4.14	3.82	1.48	0.87	21.85	27
1985	0.86	1.12	0.32	0.36	0.38	1.05	1.11	1.32	1.56	1.99	1.95	1.56	13.58	65
1986	0.69	1.63	0.95	0.49	1.41	0.70	3.53	1.83	4.73	1.95	1.43	5.19	24.53	15
1987	1.91	1.29	0.11	0.30	1.54	1.00	0.23	3.62	0.69	1.21	1.88	0.83	14.61	61
1988	0.71	0.39	0.27	0.41	0.61	1.00	0.68	3.19	1.81	0.80	2.10	0.20	12.17	67
1989	1.10	1.50	0.40	0.30	1.00	1.30	2.20	2.90	2.30	1.70	3.00	2.40	20.10	37
1990	1.20	0.60	1.00	0.40	0.60	2.30	1.90	2.60	0.80	3.50	1.40	0.90	17.20	48
1991	0.40	0.20	0.60	0.70	1.30	0.60	3.30	6.00	3.60	3.30	1.20	0.30	21.50	30
1992	1.20	0.80	0.30	0.20	0.10	2.30	1.20	1.80	3.90	4.09	1.50	0.70	18.09	45
1993	0.40	1.20	1.00	0.80	0.90	0.20	3.30	6.20	5.50	3.00	1.40	1.40	25.30	12
1994	1.70	0.80	1.30	0.60	0.92	1.20	2.79	1.60	2.20	1.60	0.90	0.70	16.31	55
1995	4.87	1.00	0.00	0.00	0.00	1.40	3.12	8.40	3.61	3.27	0.91	1.36	27.94	4
1996	2.80	0.74	0.19	1.44	0.24	1.94	2.21	6.56	2.18	3.17	3.49	2.61	27.57	7
1997	4.59	0.64	1.30	0.67	0.78	0.53	2.49	3.77	2.96	5.36	2.71	1.22	27.02	9
1998	1.10	0.64	0.62	0.33	1.43	1.82	0.70	2.06	6.45	6.61	3.51	3.19	28.46	2
Mean 1961-90	1.12	0.75	0.70	0.59	0.80	1.17	2.36	3.50	3.84	2.96	2.12	1.51	21.41	

Measured (shaded) and estimated precipitation, in inches, for site 58, Boxelder Creek near Nemo (06422500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.80	0.74	0.41	0.47	0.30	1.42	0.85	1.31	1.67	1.48	1.32	0.28	13.05	61
1932	0.98	0.87	0.47	1.04	0.21	0.81	4.69	4.65	2.57	2.91	3.11	0.52	22.83	15
1933	1.92	0.25	0.47	0.49	0.55	1.39	3.41	5.91	1.57	1.88	2.84	0.30	20.98	23
1934	0.18	0.29	0.36	0.44	0.39	0.80	1.13	0.48	4.10	0.54	0.92	0.86	10.49	65
1935	1.44	0.50	0.60	0.15	0.62	1.28	2.26	5.59	2.85	2.50	0.60	0.44	18.83	34
1936	0.34	0.53	0.41	0.67	0.54	0.96	1.32	0.26	1.62	0.77	1.12	0.49	9.03	67
1937	0.80	0.72	0.10	0.34	0.35	1.33	0.46	2.52	3.42	3.79	0.70	0.98	15.51	51
1938	0.22	0.35	0.96	1.00	0.27	0.85	2.89	3.66	2.64	1.81	0.54	1.11	16.30	48
1939	0.24	0.76	0.53	0.77	0.44	0.93	1.59	1.44	2.40	1.68	2.58	0.84	14.20	52
1940	1.27	0.00	0.44	0.29	0.40	1.10	2.94	0.69	2.10	1.05	1.60	1.47	13.35	57
1941	0.95	0.32	0.39	0.10	0.10	0.87	5.86	1.87	5.58	2.09	2.16	1.24	21.53	19
1942	2.06	0.21	0.56	0.15	0.47	1.02	3.67	4.53	3.47	1.81	1.07	1.95	20.97	24
1943	2.00	0.79	0.57	0.90	0.59	0.98	2.19	2.54	4.66	2.28	0.64	0.34	18.48	38
1944	1.23	0.67	0.18	1.96	0.48	1.17	1.50	3.17	4.46	3.46	0.38	0.48	19.14	32
1945	0.93	2.16	0.40	0.73	0.53	2.37	0.98	3.03	3.93	1.34	3.95	2.30	22.65	16
1946	0.19	0.11	0.44	0.31	0.45	1.75	2.38	8.57	4.81	2.92	1.31	4.16	27.40	3
1947	3.18	0.27	0.51	0.93	0.52	0.73	1.95	1.32	6.52	1.21	0.78	0.46	18.38	39
1948	1.36	0.99	0.13	0.76	0.52	0.15	2.19	1.75	5.32	3.44	2.84	0.67	20.12	27
1949	1.11	1.01	0.37	2.66	0.23	0.49	2.13	2.80	3.52	2.26	1.61	0.94	19.13	33
1950	1.26	0.25	0.53	0.35	0.27	2.86	2.12	2.04	1.58	2.89	1.89	2.50	18.54	37
1951	0.44	0.56	0.15	0.21	0.24	0.83	0.93	2.66	3.69	2.23	3.22	2.23	17.39	43
1952	1.34	0.21	0.65	0.11	0.50	0.76	0.39	8.87	2.79	1.72	1.42	0.48	19.24	31
1953	0.26	0.31	0.13	1.13	1.50	1.21	3.04	2.12	4.19	1.71	2.56	0.22	18.38	39
1954	0.21	0.71	0.49	0.20	0.59	1.82	0.22	2.67	2.66	1.51	2.54	0.35	13.97	53
1955	1.72	0.78	0.28	0.53	0.93	0.89	1.66	2.07	3.38	3.65	2.50	2.32	20.71	25
1956	0.34	0.73	0.83	0.49	0.37	0.70	1.54	3.59	1.24	2.28	3.18	0.28	15.57	50
1957	0.28	1.99	0.33	0.28	0.19	0.35	2.97	7.68	3.96	3.63	2.30	0.64	24.60	11
1958	0.84	0.41	0.20	0.32	0.44	0.74	3.57	1.65	4.22	3.31	1.18	0.22	17.10	45
1959	0.27	0.75	0.37	0.40	0.62	0.91	2.08	3.14	3.18	2.45	0.53	2.47	17.17	44
1960	0.20	1.04	0.08	0.29	0.66	0.41	1.77	1.89	2.66	1.37	2.18	1.10	13.65	55
1961	0.02	0.47	0.68	0.07	0.36	0.73	1.47	1.47	1.45	2.69	0.55	1.28	11.24	64
1962	1.44	0.23	0.24	0.30	0.77	0.68	0.80	10.10	8.27	5.93	1.64	1.11	31.51	1
1963	1.48	0.12	0.09	0.53	0.71	1.38	5.03	2.21	6.86	3.12	0.98	3.13	25.64	5
1964	0.94	0.09	0.27	0.35	0.64	0.70	1.53	4.16	6.00	1.84	1.91	1.21	19.64	29
1965	0.06	0.38	0.99	0.55	0.20	0.40	1.46	9.22	5.06	2.84	2.73	1.47	25.36	6
1966	0.18	0.15	0.28	0.14	0.58	1.58	2.88	0.29	1.44	3.99	3.59	2.97	18.07	42
1967	1.00	0.50	0.63	0.21	0.61	0.54	3.03	3.77	7.62	1.75	1.30	1.40	22.36	17
1968	0.39	0.28	0.53	0.59	0.30	0.19	1.14	2.31	5.82	1.67	2.55	1.10	16.87	46
1969	0.18	0.46	0.49	0.23	0.89	0.65	1.97	2.70	3.30	4.36	0.60	0.47	16.30	48
1970	1.57	0.41	0.23	0.37	0.40	1.49	3.64	4.31	3.89	2.05	3.34	1.29	22.99	14
1971	0.92	0.76	0.65	0.83	0.78	1.47	6.39	4.62	2.54	1.53	0.86	2.33	23.68	13
1972	2.08	0.98	0.09	0.25	0.33	0.65	2.24	2.95	11.95	3.47	2.70	0.40	28.09	2
1973	0.72	0.31	0.32	0.10	0.22	2.46	3.74	2.24	1.67	3.93	0.98	1.88	18.57	36
1974	1.14	0.71	0.62	0.30	0.14	0.27	1.01	1.79	1.07	4.00	1.27	1.05	13.37	56
1975	2.19	0.31	0.13	0.79	0.35	1.07	2.91	2.34	5.57	1.42	1.24	0.05	18.37	41
1976	0.49	0.50	0.97	0.42	0.76	0.33	4.45	3.88	7.06	3.20	2.08	1.05	25.19	9
1977	0.26	0.49	0.33	0.59	0.31	2.33	1.83	1.77	2.17	2.33	2.04	2.11	16.56	47
1978	1.42	0.71	0.49	0.25	0.96	0.30	2.88	5.54	1.86	4.30	2.17	0.50	21.38	21
1979	0.56	0.87	0.57	0.39	0.41	0.31	1.10	1.40	5.39	7.65	2.63	0.22	21.50	20
1980	0.72	0.24	0.16	0.24	0.45	0.96	1.81	1.98	2.81	1.52	2.22	0.59	13.70	54
1981	2.16	0.40	0.64	0.07	0.11	0.23	0.66	7.09	1.89	5.20	1.24	0.56	20.25	26
1982	2.23	0.08	0.52	0.41	0.41	1.37	0.88	6.16	4.17	4.07	3.25	2.72	26.27	4
1983	2.87	0.29	0.51	0.43	0.15	1.65	0.94	2.70	3.86	1.92	2.83	0.50	18.65	35
1984	1.70	1.10	0.50	0.17	0.11	0.69	4.22	1.78	4.84	4.59	1.74	0.89	22.33	18
1985	0.64	0.95	0.30	0.30	0.08	0.85	0.93	1.36	1.50	1.66	2.29	1.44	12.30	63
1986	0.68	1.73	0.92	0.27	1.04	0.73	3.65	1.86	4.21	2.29	2.05	5.60	25.03	10
1987	1.89	1.08	0.11	0.03	1.58	1.07	0.24	3.81	0.29	0.73	1.83	0.54	13.20	59
1988	0.55	0.28	0.16	0.11	0.26	0.55	0.69	2.69	1.28	0.26	1.98	0.21	9.02	68
1989	0.63	0.64	0.07	0.03	0.05	0.49	0.91	1.78	1.44	2.56	1.61	2.71	12.92	62
1990	0.90	0.23	0.41	0.04	0.27	0.85	1.49	2.43	0.00	2.99	2.82	0.67	13.10	60
1991	0.55	0.49	0.30	0.14	0.76	0.45	3.15	7.15	4.28	2.47	0.53	0.87	21.14	22
1992	0.70	0.49	0.00	0.07	0.14	1.50	1.12	2.10	2.83	3.13	0.72	0.48	13.28	58
1993	0.45	0.33	0.54	0.37	0.32	0.40	2.11	4.60	4.36	3.41	2.15	1.04	20.08	28
1994	1.26	0.17	0.45	0.12	0.19	0.35	1.49	1.11	1.90	1.67	0.66	0.39	9.76	66
1995	4.33	0.36	0.17	0.00	0.31	0.61	1.46	6.45	4.50	4.92	0.87	1.30	25.28	7
1996	3.01	0.50	0.05	0.59	0.11	1.21	1.79	7.14	2.21	3.32	2.20	2.30	24.43	12
1997	4.89	0.22	0.87	0.36	0.57	0.17	1.53	4.41	2.68	5.07	3.50	1.01	25.28	7
1998	0.82	0.09	0.37	0.23	0.28	1.42	0.86	1.35	5.87	3.06	2.71	2.39	19.45	30
Man 1961-90	1.07	0.53	0.43	0.31	0.47	0.90	2.20	3.36	3.84	3.00	1.97	1.38	19.45	

Measured (shaded) and estimated precipitation, in inches, for site 59, Boxelder Creek near Camp Columbus (06422600)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.92	0.75	0.38	0.42	0.28	1.38	0.77	1.27	1.72	1.46	1.27	0.27	12.89	62
1932	0.95	0.80	0.49	0.96	0.21	0.77	4.60	4.71	2.49	2.88	3.21	0.47	22.54	17
1933	1.80	0.22	0.44	0.43	0.52	1.39	3.31	6.01	1.50	1.90	2.86	0.27	20.65	26
1934	0.18	0.26	0.34	0.40	0.40	0.78	1.14	0.47	4.00	0.55	0.84	0.79	10.15	66
1935	1.47	0.48	0.58	0.15	0.61	1.28	2.34	5.76	2.70	2.25	0.54	0.39	18.55	34
1936	0.34	0.49	0.38	0.65	0.55	0.94	1.30	0.23	1.55	0.70	1.06	0.50	8.69	68
1937	0.80	0.71	0.10	0.34	0.33	1.37	0.47	2.57	3.32	3.74	0.66	0.93	15.34	51
1938	0.21	0.34	0.93	0.91	0.26	0.85	2.92	3.60	2.79	1.77	0.56	1.14	16.28	47
1939	0.24	0.74	0.47	0.72	0.43	0.92	1.46	1.38	2.36	1.69	2.38	0.83	13.62	56
1940	1.28	0.00	0.43	0.27	0.38	1.09	2.97	0.65	2.07	1.00	1.54	1.44	13.12	61
1941	0.91	0.31	0.39	0.10	0.10	0.81	5.96	1.79	5.51	1.94	2.16	1.22	21.20	22
1942	2.06	0.19	0.55	0.14	0.46	0.95	3.76	4.57	3.44	1.80	0.94	1.92	20.78	25
1943	1.95	0.73	0.54	0.88	0.55	0.96	2.03	2.44	4.71	2.32	0.56	0.34	18.01	40
1944	1.21	0.59	0.18	1.94	0.49	1.17	1.51	3.22	4.55	3.63	0.40	0.47	19.36	31
1945	0.93	2.15	0.39	0.70	0.52	2.48	0.90	2.96	3.98	1.36	4.02	2.28	22.67	15
1946	0.20	0.10	0.40	0.28	0.42	1.72	2.37	8.39	4.90	2.92	1.29	4.13	27.12	5
1947	3.02	0.28	0.47	0.86	0.50	0.68	1.88	1.29	6.40	1.16	0.73	0.44	17.71	42
1948	1.33	0.96	0.13	0.70	0.53	0.15	2.10	1.74	5.25	3.32	2.87	0.66	19.74	29
1949	1.20	0.91	0.39	2.66	0.23	0.49	2.13	2.80	3.59	2.33	1.77	0.97	19.47	30
1950	1.28	0.23	0.51	0.34	0.23	2.73	2.01	2.09	1.49	2.66	1.88	2.46	17.91	41
1951	0.41	0.49	0.12	0.20	0.24	0.85	0.87	2.62	3.60	2.14	3.29	2.22	17.05	44
1952	1.34	0.23	0.64	0.11	0.52	0.76	0.39	8.47	2.82	1.73	1.34	0.46	18.81	33
1953	0.25	0.30	0.12	1.06	1.56	1.17	3.03	1.99	4.39	1.69	2.42	0.22	18.20	38
1954	0.20	0.72	0.41	0.20	0.54	1.81	0.22	2.58	2.77	1.42	2.45	0.27	13.59	57
1955	1.69	0.76	0.23	0.45	0.93	0.86	1.67	2.03	3.30	3.58	2.47	2.33	20.30	27
1956	0.34	0.70	0.82	0.49	0.37	0.70	1.54	3.55	1.22	2.25	3.21	0.29	15.48	50
1957	0.27	1.95	0.34	0.28	0.19	0.36	2.94	7.69	3.95	3.45	2.22	0.64	24.28	12
1958	0.87	0.40	0.18	0.32	0.43	0.76	3.64	1.59	4.16	3.42	1.12	0.21	17.10	43
1959	0.26	0.73	0.38	0.40	0.63	0.90	2.10	3.14	3.15	2.31	0.54	2.49	17.03	45
1960	0.19	1.08	0.08	0.30	0.68	0.45	1.75	1.91	2.69	1.31	2.15	1.07	13.66	55
1961	0.02	0.46	0.69	0.08	0.35	0.74	1.47	1.47	1.37	2.63	0.52	1.24	11.04	64
1962	1.41	0.24	0.26	0.32	0.78	0.72	0.77	9.98	8.11	5.92	1.56	1.07	31.14	1
1963	1.49	0.12	0.09	0.54	0.70	1.43	5.01	2.19	6.67	3.02	1.07	3.00	25.33	8
1964	0.93	0.09	0.26	0.34	0.62	0.69	1.47	4.02	5.91	1.82	1.82	1.19	19.16	32
1965	0.08	0.36	1.00	0.55	0.20	0.40	1.46	9.04	4.93	2.73	2.66	1.47	24.88	10
1966	0.20	0.15	0.27	0.15	0.61	1.59	2.86	0.29	1.46	4.17	3.54	2.94	18.23	37
1967	1.04	0.52	0.64	0.21	0.61	0.57	3.07	3.80	7.55	1.72	1.29	1.39	22.41	18
1968	0.36	0.28	0.54	0.59	0.31	0.19	1.21	2.25	5.97	1.66	2.59	1.06	17.01	46
1969	0.17	0.44	0.49	0.23	0.89	0.66	1.92	2.63	3.27	4.41	0.58	0.49	16.18	48
1970	1.54	0.40	0.25	0.42	0.41	1.49	3.73	4.19	3.76	1.96	3.15	1.33	22.63	16
1971	0.95	0.73	0.66	0.85	0.79	1.46	6.19	4.50	2.58	1.54	0.83	2.31	23.39	14
1972	2.04	0.96	0.10	0.24	0.33	0.63	2.26	2.97	11.41	3.41	2.65	0.41	27.41	3
1973	0.73	0.30	0.31	0.10	0.22	2.50	3.67	2.21	1.53	3.90	0.94	1.87	18.28	36
1974	1.09	0.70	0.60	0.30	0.15	0.27	1.01	1.79	1.09	3.89	1.40	1.03	13.32	59
1975	2.13	0.29	0.12	0.77	0.34	1.17	2.82	2.28	5.66	1.42	1.27	0.05	18.32	35
1976	0.49	0.51	0.96	0.39	0.74	0.32	4.39	3.88	6.90	3.08	2.05	0.98	24.69	11
1977	0.26	0.46	0.30	0.52	0.29	2.34	1.79	1.81	2.01	2.29	1.90	2.19	16.16	49
1978	1.46	0.69	0.47	0.22	0.96	0.29	2.77	5.28	1.77	4.24	2.18	0.48	20.81	24
1979	0.54	0.84	0.54	0.39	0.40	0.31	1.05	1.36	5.28	7.36	2.65	0.22	20.94	23
1980	0.73	0.23	0.15	0.23	0.44	0.93	1.74	1.97	2.74	1.54	2.28	0.59	13.57	58
1981	2.16	0.40	0.63	0.07	0.11	0.21	0.62	6.89	1.85	5.16	1.23	0.51	19.84	28
1982	2.19	0.09	0.51	0.39	0.39	1.36	0.88	6.16	3.97	4.06	3.42	2.72	26.14	6
1983	2.92	0.29	0.48	0.40	0.15	1.56	0.93	2.71	3.60	1.92	2.70	0.47	18.13	39
1984	1.68	1.11	0.49	0.17	0.10	0.65	4.21	1.78	4.85	4.40	1.76	0.88	22.08	19
1985	0.62	0.92	0.30	0.30	0.08	0.87	0.88	1.35	1.52	1.67	2.30	1.45	12.26	63
1986	0.68	1.73	0.93	0.27	1.01	0.73	3.66	1.86	4.21	2.34	2.09	5.52	25.03	9
1987	1.89	1.07	0.11	0.03	1.56	1.07	0.23	3.83	0.33	0.76	1.89	0.55	13.32	60
1988	0.54	0.28	0.17	0.12	0.24	0.59	0.68	2.71	1.35	0.29	2.18	0.21	9.36	67
1989	0.88	1.00	0.11	0.04	0.10	0.61	1.78	2.38	1.25	2.06	1.67	3.17	15.05	53
1990	1.11	0.47	0.45	0.04	0.32	0.92	1.64	2.31	0.63	2.68	2.77	0.64	13.98	54
1991	0.72	0.44	0.33	0.19	0.78	0.47	3.31	8.59	4.55	3.26	0.61	0.68	23.93	13
1992	0.76	0.56	0.00	0.07	0.14	1.60	1.19	2.40	3.34	3.54	0.85	0.71	15.16	52
1993	0.48	0.36	0.58	0.41	0.37	0.42	2.28	5.40	5.41	3.50	1.68	1.10	21.99	20
1994	1.34	0.19	0.45	0.15	0.24	0.37	1.54	1.46	1.91	1.14	1.17	0.87	10.83	65
1995	4.30	0.37	0.18	0.00	0.35	0.63	1.55	8.36	4.53	4.92	0.85	1.31	27.35	4
1996	3.04	0.51	0.05	0.62	0.11	1.22	1.78	8.89	2.06	2.85	2.31	1.99	25.43	7
1997	6.02	0.23	0.87	0.36	0.58	0.16	1.67	7.00	2.82	6.27	3.57	0.97	30.52	2
1998	0.89	0.09	0.36	0.32	0.46	2.04	0.66	1.82	6.80	3.57	2.26	2.40	21.67	21
Mean 1961-90	1.08	0.54	0.43	0.31	0.47	0.91	2.21	3.33	3.78	2.94	1.96	1.38	19.34	

Measured (shaded) and estimated precipitation, in inches, for site 60, Elk Creek near Roubaix (06424000)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.99	0.76	1.02	0.82	0.52	2.15	1.46	1.62	1.11	1.49	1.90	0.30	15.14	65
1932	1.24	1.13	0.37	1.61	0.16	1.30	5.90	4.96	3.36	2.79	1.66	0.53	25.01	30
1933	2.76	0.56	0.79	0.98	0.85	1.97	4.14	6.00	1.71	1.22	2.34	0.49	23.81	34
1934	0.35	0.53	0.65	1.09	0.43	1.26	1.27	0.46	4.34	0.54	1.17	1.41	13.50	67
1935	1.26	0.75	0.74	0.09	0.87	1.71	1.96	3.84	3.32	3.84	0.87	0.61	19.86	56
1936	0.41	0.81	0.84	0.96	0.50	1.31	1.88	0.56	1.44	1.21	1.12	0.69	11.73	68
1937	0.99	0.69	0.21	0.42	0.55	1.04	0.48	2.89	4.40	5.06	1.08	1.41	19.22	60
1938	0.32	0.77	1.43	2.12	0.41	0.84	2.95	4.43	2.28	2.06	0.56	1.57	19.74	58
1939	0.16	1.11	1.18	1.44	0.94	0.86	3.39	1.67	3.04	1.07	3.30	0.90	19.06	61
1940	1.35	0.04	0.78	0.47	1.00	1.63	3.98	1.68	2.90	1.51	2.41	1.77	19.52	59
1941	0.95	0.67	0.57	0.17	0.19	1.44	5.87	2.57	7.92	2.50	1.56	2.05	26.46	24
1942	1.86	0.62	0.85	0.43	0.67	1.52	3.38	5.78	4.30	1.64	1.78	2.27	25.10	29
1943	2.48	1.52	1.15	1.37	1.07	1.38	2.93	2.51	5.07	1.50	0.90	0.49	22.37	44
1944	1.67	1.72	0.64	2.88	0.77	1.80	1.95	2.64	4.96	2.33	0.78	0.53	22.67	40
1945	1.15	3.71	1.10	1.27	0.98	2.55	1.81	4.02	5.56	1.58	2.61	3.69	30.03	12
1946	0.52	0.43	0.93	0.85	1.18	2.83	2.77	14.22	5.54	1.96	0.99	5.13	37.35	2
1947	3.65	0.39	0.98	1.32	1.17	1.56	2.76	1.25	8.86	2.04	0.95	0.66	25.59	26
1948	1.90	1.72	0.19	1.80	0.98	0.36	3.12	1.83	6.02	3.84	1.91	0.79	24.46	32
1949	1.02	3.73	0.54	4.14	0.51	0.85	2.54	3.38	2.53	1.35	0.71	0.86	22.16	47
1950	1.55	0.68	0.98	0.52	0.44	3.98	2.79	2.38	1.78	2.50	2.59	3.87	24.06	33
1951	0.71	1.10	0.42	0.40	0.33	1.26	1.17	2.81	4.86	2.71	4.19	2.34	22.30	45
1952	1.90	1.24	2.75	0.25	0.72	1.45	0.49	8.28	1.54	3.11	1.45	0.33	23.51	37
1953	0.19	0.94	0.47	1.93	2.45	1.00	4.03	4.18	4.10	1.95	3.18	0.40	24.82	31
1954	0.34	1.23	1.07	0.35	1.47	3.31	0.85	4.27	2.97	1.65	2.22	0.68	20.41	55
1955	1.71	0.89	1.08	1.44	1.14	1.41	4.25	3.15	4.57	2.53	1.53	3.00	26.70	22
1956	1.29	1.08	1.37	0.67	0.38	1.56	1.84	4.31	2.10	2.56	3.23	1.12	21.51	48
1957	0.86	3.96	0.64	0.66	0.26	1.58	2.25	6.25	4.40	3.41	1.77	1.14	27.18	21
1958	1.11	1.33	0.44	0.59	1.67	0.52	4.56	1.88	3.42	6.48	1.57	0.17	23.74	35
1959	1.40	1.40	0.81	1.05	1.51	1.35	1.87	2.85	3.43	0.76	0.20	1.87	18.50	62
1960	0.85	2.75	0.90	0.46	1.39	1.57	2.05	1.34	4.57	1.25	2.78	1.07	20.98	51
1961	0.44	0.77	2.03	0.20	0.94	0.62	2.61	1.00	1.77	2.56	0.68	2.75	16.37	64
1962	1.29	0.79	1.26	1.33	0.83	1.05	2.15	11.62	7.10	4.55	1.10	2.21	35.28	4
1963	1.89	0.83	0.95	1.84	3.45	2.06	5.47	2.58	5.78	2.52	0.37	2.09	29.83	14
1964	0.95	0.18	1.25	0.99	2.88	1.50	2.51	5.05	9.42	0.78	6.88	0.63	33.02	5
1965	0.49	1.32	1.46	1.86	1.18	1.16	2.75	11.12	4.76	1.77	2.16	2.68	32.71	6
1966	0.00	0.43	0.41	0.40	0.97	3.38	4.18	0.74	1.16	2.70	3.20	2.87	20.44	54
1967	2.38	0.80	0.92	1.12	2.03	0.82	3.96	3.13	5.81	1.71	0.62	4.06	27.36	20
1968	1.20	0.81	1.83	0.65	0.90	0.67	1.90	2.79	6.09	3.64	3.00	2.67	26.15	25
1969	0.54	1.53	1.45	0.84	0.70	1.32	4.61	2.70	3.54	2.79	0.93	0.23	21.18	49
1970	1.59	1.06	1.93	1.38	0.80	2.37	5.07	5.40	3.81	2.11	1.71	1.59	28.82	15
1971	1.78	2.58	0.93	1.80	1.85	2.51	4.10	6.44	2.98	0.62	1.34	4.40	31.33	9
1972	3.57	1.51	0.52	1.01	0.74	1.42	3.29	6.05	6.53	2.67	3.08	0.36	30.75	11
1973	1.29	0.50	1.20	0.28	0.60	5.23	5.42	3.96	3.09	1.80	1.29	1.94	26.60	23
1974	1.63	0.79	1.69	0.52	1.00	0.98	3.62	1.97	1.67	3.11	3.02	1.12	21.12	50
1975	1.51	1.03	1.28	2.04	1.12	2.65	3.95	2.52	4.71	1.55	0.76	0.21	23.33	38
1976	1.17	1.11	1.68	1.24	1.53	1.25	4.21	3.34	10.79	2.16	1.05	1.77	31.30	10
1977	0.83	1.38	1.24	1.70	1.88	5.07	2.19	1.94	2.41	1.91	2.67	1.92	25.14	28
1978	2.38	1.56	1.05	0.44	1.34	0.48	5.09	5.73	2.02	4.79	2.20	0.47	27.55	19
1979	0.80	1.56	1.32	0.74	1.05	0.84	1.50	2.09	4.41	4.25	3.39	0.43	22.38	43
1980	1.54	0.88	0.49	0.73	0.56	1.22	2.35	2.94	2.47	1.32	2.58	0.74	17.82	63
1981	2.13	0.96	1.12	0.34	0.23	0.12	0.44	6.39	2.66	5.16	1.03	1.67	22.25	46
1982	1.56	0.77	0.55	0.92	0.74	2.45	2.03	11.20	3.17	3.29	2.36	2.33	31.37	8
1983	5.72	0.54	1.05	0.98	0.22	2.12	2.27	3.16	1.59	1.98	3.58	0.53	23.74	36
1984	1.78	1.80	0.83	0.52	0.64	1.90	4.90	1.86	5.54	1.49	3.09	0.88	25.23	27
1985	1.00	1.37	0.51	0.48	0.26	1.74	1.36	1.57	2.05	0.56	1.23	2.05	14.18	66
1986	0.83	1.64	2.11	1.05	1.35	1.23	4.87	2.19	4.48	2.55	1.03	4.77	28.10	17
1987	2.47	1.66	0.13	0.69	1.30	2.92	0.63	3.35	0.86	1.03	3.53	1.27	19.84	57
1988	0.73	0.75	0.73	0.77	1.21	2.73	0.82	4.82	3.02	0.77	2.14	2.00	20.49	52
1989	1.42	1.37	0.92	0.30	0.82	1.76	4.90	2.95	2.54	2.23	1.55	2.28	23.04	39
1990	1.99	2.01	2.79	0.83	0.94	1.91	2.84	2.74	1.02	3.06	1.36	1.08	22.57	42
1991	0.81	1.12	0.96	1.05	2.26	2.02	3.81	7.28	4.38	2.07	1.37	1.07	28.20	16
1992	1.87	1.99	0.22	0.66	0.81	2.16	3.66	2.47	2.31	2.46	1.23	0.64	20.48	53
1993	0.98	2.34	1.53	1.20	1.10	1.74	3.97	4.43	6.64	3.14	1.45	1.50	30.02	13
1994	2.15	2.06	2.57	2.49	0.96	2.07	3.73	1.29	1.41	2.08	1.04	0.75	22.60	41
1995	8.79	2.07	0.34	0.56	1.02	1.79	3.66	11.61	4.80	3.98	0.65	1.74	41.01	1
1996	5.62	1.41	0.50	2.29	0.73	3.24	3.00	6.86	1.79	1.46	2.76	2.79	32.45	7
1997	6.15	1.27	2.58	1.64	1.95	1.84	3.59	5.29	2.04	4.74	4.98	0.73	36.80	3
1998	1.35	1.87	1.42	0.69	2.79	1.38	2.34	1.08	4.61	3.19	4.03	2.95	27.70	18
Mean 1961-90	1.56	1.14	1.19	0.93	1.14	1.85	3.20	4.11	3.91	2.38	2.10	1.80	25.31	

Measured (shaded) and estimated precipitation, in inches, for site 61, Sand Creek at Ranch A, near Beulah, Wyo. (06429900)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.46	0.71	0.55	0.88	0.41	1.21	1.12	1.20	1.60	1.56	0.71	0.64	13.05	63
1932	2.36	1.01	0.47	1.52	0.29	1.12	4.94	3.39	2.30	2.49	1.15	0.37	21.41	22
1933	1.95	0.40	0.74	0.38	0.48	2.00	4.05	4.06	1.70	0.62	1.02	1.04	18.44	41
1934	0.35	0.36	0.40	0.76	0.28	0.87	1.16	0.24	4.22	0.66	0.48	1.89	11.67	65
1935	0.38	0.71	0.72	0.12	0.44	1.17	1.53	4.08	2.99	1.24	1.27	0.29	14.94	55
1936	0.37	0.36	0.98	0.74	0.60	0.65	2.15	0.49	1.59	2.54	0.37	0.74	11.58	68
1937	1.17	0.59	0.19	0.32	0.49	0.86	0.52	2.98	4.45	4.92	0.80	1.72	19.01	35
1938	0.15	0.61	0.95	0.46	0.25	0.79	1.14	4.40	1.96	1.68	0.89	1.63	14.91	57
1939	0.09	0.71	0.54	0.34	1.02	0.33	1.39	1.31	2.84	2.03	3.25	1.07	14.92	56
1940	1.06	0.07	0.41	0.37	0.69	1.86	4.51	1.09	4.33	0.68	1.06	2.63	18.76	38
1941	0.44	0.97	0.53	0.18	0.15	0.80	6.27	3.16	8.70	1.28	1.48	3.97	27.93	4
1942	1.23	0.47	0.94	0.09	0.25	0.35	4.88	6.69	4.21	1.05	1.81	2.12	24.09	13
1943	1.06	1.08	0.39	0.71	0.56	1.26	1.10	1.08	4.45	0.78	0.82	0.49	13.78	61
1944	0.96	0.91	0.75	1.83	0.61	1.41	1.89	2.49	6.46	1.43	1.53	0.67	20.94	24
1945	0.38	3.05	0.94	0.66	0.91	1.63	0.99	2.83	4.55	1.50	1.68	4.18	23.30	16
1946	0.48	0.53	0.52	0.61	0.58	1.64	3.11	9.52	5.34	1.20	1.62	4.80	29.95	1
1947	3.67	0.27	0.76	0.45	0.71	1.04	2.05	0.73	7.05	0.93	0.32	1.04	19.02	34
1948	1.80	1.08	0.15	0.57	0.87	0.45	2.16	1.45	3.67	4.25	1.35	1.23	19.03	32
1949	0.43	2.11	0.21	2.67	0.43	0.82	2.29	2.55	2.05	0.89	1.02	0.98	16.45	50
1950	1.46	0.20	0.89	0.48	0.24	3.50	1.85	2.70	1.29	1.19	2.15	2.29	18.24	43
1951	0.54	1.33	0.14	0.21	0.34	0.75	1.09	1.54	5.50	1.58	3.48	2.49	18.99	36
1952	1.94	0.79	0.62	0.24	0.38	0.76	0.18	3.47	1.51	3.38	1.09	0.11	14.47	59
1953	0.08	0.34	0.23	0.98	1.46	0.33	2.63	3.09	3.16	0.49	2.54	0.25	15.58	52
1954	0.23	1.12	0.28	0.31	0.43	1.72	0.53	3.61	2.44	0.92	0.70	0.20	12.49	64
1955	1.17	0.37	0.25	0.22	0.62	0.56	2.18	3.28	2.83	2.54	1.63	1.91	17.56	45
1956	1.12	0.60	0.96	0.21	0.26	0.38	1.03	3.40	1.90	2.29	1.73	1.34	15.22	54
1957	0.53	1.63	0.20	0.27	0.18	0.77	1.33	3.14	4.38	2.60	2.87	1.13	19.03	33
1958	0.82	0.94	0.09	0.30	0.95	0.40	3.18	0.52	3.46	3.79	0.95	0.08	15.48	53
1959	0.48	0.94	0.65	0.41	0.65	0.37	0.74	2.58	2.10	0.88	0.16	1.63	11.59	67
1960	0.56	1.18	0.33	0.50	0.61	0.77	1.02	2.14	2.22	0.25	2.82	0.76	13.16	62
1961	0.26	0.54	0.95	0.06	0.38	0.27	1.73	1.14	1.39	2.21	0.68	2.04	11.65	66
1962	1.07	0.68	0.46	0.49	0.50	0.66	1.66	9.64	5.81	3.73	0.88	1.25	26.83	6
1963	1.90	0.43	0.28	0.62	1.11	0.97	3.47	1.93	5.67	1.90	1.06	1.85	21.19	23
1964	1.24	0.15	0.48	0.35	0.65	0.93	1.28	4.05	8.24	0.76	4.70	0.32	23.15	17
1965	0.25	1.07	0.79	1.15	0.80	1.05	1.78	9.03	4.15	1.14	2.04	2.43	25.68	9
1966	0.00	0.39	0.33	0.34	0.87	2.90	3.41	0.76	1.60	2.11	2.81	3.11	18.63	39
1967	2.17	0.71	0.72	0.87	1.39	0.75	3.97	2.05	4.59	0.71	0.95	4.01	22.89	19
1968	1.09	0.47	1.01	0.53	0.57	0.74	1.30	2.30	5.48	2.67	2.15	2.26	20.57	25
1969	0.49	0.98	1.27	0.50	0.49	1.24	3.82	2.46	3.82	1.46	0.27	0.21	17.01	48
1970	1.29	0.88	1.33	0.89	0.79	1.96	3.79	5.68	3.42	1.63	2.24	1.44	25.34	10
1971	1.39	2.14	0.90	1.65	1.34	1.56	2.88	4.53	3.18	0.41	0.74	3.19	23.91	15
1972	3.80	1.19	0.40	0.69	0.44	1.30	2.46	4.42	5.84	1.88	3.45	0.44	26.31	7
1973	1.56	0.28	0.95	0.34	0.45	3.56	3.96	3.03	2.69	1.95	1.66	2.31	22.74	20
1974	1.71	0.75	1.06	0.34	0.74	0.76	3.21	2.13	1.47	2.34	2.62	0.68	17.81	44
1975	1.09	0.76	0.78	1.46	0.68	1.50	3.00	2.71	4.05	0.83	0.45	0.23	17.54	46
1976	1.05	0.65	1.34	0.74	1.15	0.84	3.34	2.84	10.43	2.03	0.86	0.82	26.09	8
1977	0.69	1.04	0.68	1.01	1.12	3.49	1.66	1.94	2.20	1.98	2.60	1.80	20.21	27
1978	2.88	1.10	1.01	0.31	1.17	0.39	3.31	5.22	2.14	3.64	1.45	0.31	22.93	18
1979	0.55	1.30	0.92	0.73	1.04	0.68	1.19	1.65	2.97	3.49	3.57	0.51	18.60	40
1980	1.15	0.51	0.36	0.59	0.50	1.17	1.62	2.42	2.79	0.87	2.24	1.39	15.61	51
1981	1.79	0.72	1.35	0.42	0.30	0.22	0.45	3.89	3.49	4.41	1.30	1.48	19.82	30
1982	1.60	0.53	0.57	0.98	0.52	2.04	1.89	10.51	3.06	2.16	2.53	2.43	28.82	3
1983	4.68	0.42	0.92	0.61	0.12	1.79	2.04	2.24	0.89	1.90	2.84	0.65	19.10	31
1984	2.12	1.54	1.20	0.37	0.38	1.30	4.56	1.63	6.76	1.24	2.02	0.97	24.09	14
1985	0.97	1.33	0.87	0.41	0.16	1.51	1.08	1.84	2.52	1.03	0.48	1.96	14.16	60
1986	0.69	1.61	1.87	1.00	1.05	0.93	5.32	2.34	4.13	3.00	0.74	4.86	27.54	5
1987	2.26	1.58	0.19	0.45	1.62	2.35	0.50	4.47	0.63	1.63	3.29	1.20	20.17	29
1988	0.61	0.63	0.70	0.86	0.80	2.43	0.92	3.62	2.12	0.90	1.07	2.42	17.08	47
1989	0.98	0.90	0.50	0.10	0.70	1.80	3.90	2.50	2.00	1.40	0.82	2.70	18.30	42
1990	1.98	1.77	1.73	0.42	0.73	0.97	2.25	2.88	1.37	3.12	1.16	0.40	18.78	37
1991	1.21	0.65	1.18	0.91	1.58	0.76	3.60	5.70	2.00	1.10	1.20	0.30	20.19	28
1992	0.95	1.85	0.20	0.25	0.75	1.55	1.40	1.90	2.25	1.70	1.30	0.70	14.80	58
1993	1.00	1.25	1.00	0.75	0.80	0.95	3.45	3.20	5.40	3.45	1.80	1.05	24.10	12
1994	0.80	0.93	1.42	1.45	0.85	0.90	3.20	2.00	0.65	1.85	1.05	1.50	16.60	49
1995	4.95	1.30	0.05	0.45	0.75	1.10	2.14	8.93	3.45	3.45	0.93	1.76	29.26	2
1996	3.95	1.33	0.52	2.08	0.55	2.67	1.82	4.12	1.92	1.72	1.82	2.59	25.09	11
1997	3.05	0.90	2.21	1.18	1.47	0.98	1.93	3.28	2.42	3.07	1.14	1.06	22.69	21
1998	1.01	0.93	0.88	0.76	1.69	1.45	0.67	1.70	4.59	1.96	2.70	2.03	20.37	26
Mean 1961-90	1.44	0.90	0.86	0.64	0.75	1.40	2.53	3.53	3.63	1.95	1.79	1.66	21.09	

Measured (shaded) and estimated precipitation, in inches, for site 62, McNenny State Fish Hatchery (06430528)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.06	0.59	0.43	0.94	0.40	0.86	1.16	0.94	1.49	1.81	0.50	0.64	11.82	63
1932	2.65	1.10	0.54	1.81	0.37	1.10	4.95	3.21	2.01	2.11	1.13	0.33	21.31	20
1933	1.87	0.38	0.79	0.34	0.40	1.83	4.45	3.22	1.47	0.30	0.82	1.04	16.91	46
1934	0.27	0.37	0.44	0.79	0.33	0.67	1.19	0.25	4.46	0.58	0.32	2.03	11.70	65
1935	0.11	0.74	0.60	0.10	0.40	1.23	1.67	3.90	3.05	0.81	1.46	0.13	14.20	57
1936	0.36	0.31	1.11	0.67	0.60	0.49	2.00	0.50	1.81	3.22	0.23	0.79	12.09	62
1937	1.33	0.52	0.20	0.24	0.50	0.85	0.37	3.15	4.50	4.86	0.70	1.77	18.99	32
1938	0.12	0.56	0.93	0.28	0.22	0.74	0.89	4.52	1.95	1.59	0.85	1.66	14.31	56
1939	0.06	0.77	0.39	0.24	1.00	0.25	1.08	1.56	2.79	2.19	3.48	1.09	14.90	53
1940	1.06	0.06	0.38	0.40	0.69	1.97	4.78	0.90	4.26	0.51	1.13	2.83	18.97	33
1941	0.23	1.03	0.50	0.16	0.15	0.75	6.60	3.63	9.05	0.92	1.41	4.22	28.65	2
1942	1.32	0.38	1.02	0.00	0.19	0.24	5.52	6.96	3.95	0.89	1.85	2.31	24.63	10
1943	0.91	0.93	0.22	0.62	0.54	1.19	0.96	0.83	4.37	0.55	0.79	0.56	12.47	61
1944	0.75	0.71	0.82	1.81	0.53	1.07	1.99	2.40	6.64	1.29	1.76	0.66	20.43	22
1945	0.18	2.62	0.84	0.61	0.89	1.40	1.00	2.68	4.41	1.75	2.00	4.02	22.40	17
1946	0.29	0.57	0.47	0.56	0.51	1.15	2.99	8.15	5.28	1.32	1.88	4.76	27.93	4
1947	3.87	0.23	0.71	0.36	0.58	1.07	2.14	0.75	6.79	0.83	0.17	0.92	18.42	39
1948	1.94	1.06	0.01	0.27	0.81	0.36	2.25	1.52	3.50	5.33	1.59	1.42	20.06	25
1949	0.34	1.78	0.06	2.73	0.45	0.80	2.45	2.53	1.97	0.85	1.14	0.96	16.06	49
1950	1.39	0.05	0.60	0.47	0.18	3.38	1.77	3.02	1.21	1.01	2.50	2.35	17.93	42
1951	0.51	1.44	0.08	0.20	0.40	0.74	1.08	1.40	6.42	1.41	3.56	2.35	19.59	29
1952	1.94	0.83	0.25	0.18	0.36	0.60	0.11	2.60	1.43	3.73	1.10	0.06	13.19	60
1953	0.08	0.26	0.25	0.86	1.43	0.25	2.50	3.23	2.65	0.42	2.62	0.19	14.74	54
1954	0.15	1.10	0.23	0.32	0.26	1.65	0.43	3.75	2.45	0.48	0.46	0.19	11.47	66
1955	1.19	0.32	0.20	0.03	0.52	0.38	1.90	3.22	2.45	2.80	1.72	1.93	16.66	47
1956	1.18	0.45	0.91	0.19	0.26	0.19	0.90	3.54	1.92	2.05	1.68	1.41	14.68	55
1957	0.50	1.27	0.11	0.18	0.17	0.66	1.12	2.61	4.53	2.35	3.54	1.22	18.26	40
1958	0.72	0.82	0.01	0.22	0.91	0.35	2.94	0.41	3.19	3.47	1.00	0.05	14.09	58
1959	0.29	0.87	0.58	0.28	0.48	0.18	0.54	2.50	1.97	1.02	0.16	1.42	10.29	67
1960	0.48	0.84	0.15	0.51	0.41	0.51	0.84	2.55	1.94	0.08	2.74	0.71	11.76	64
1961	0.05	0.30	0.69	0.03	0.19	0.14	1.62	1.11	1.03	2.50	0.58	2.02	10.26	68
1962	1.16	0.71	0.22	0.34	0.45	0.54	1.58	9.48	5.95	3.91	0.76	1.03	26.13	8
1963	1.83	0.34	0.19	0.36	0.73	0.76	3.08	1.77	5.56	1.69	1.20	1.78	19.29	31
1964	1.33	0.17	0.35	0.20	0.25	0.83	1.10	3.93	8.22	0.74	3.86	0.28	21.26	21
1965	0.25	0.82	0.63	0.92	0.62	0.74	1.63	8.50	3.91	0.96	1.99	2.46	23.43	14
1966	0.00	0.36	0.38	0.34	0.85	3.21	3.16	0.81	1.85	1.88	2.89	3.09	18.82	34
1967	2.52	0.76	0.65	0.75	1.25	0.65	4.18	2.00	4.14	0.70	0.70	3.88	22.18	18
1968	0.97	0.49	0.92	0.50	0.57	0.86	1.46	2.05	5.49	2.71	1.72	2.32	20.06	26
1969	0.57	1.04	1.40	0.42	0.54	1.20	4.01	2.98	3.81	1.41	0.22	0.15	17.75	43
1970	1.28	0.83	1.25	0.83	0.81	2.05	4.28	5.93	3.49	1.81	2.60	1.50	26.66	7
1971	1.43	2.33	0.91	1.59	1.33	1.54	2.77	4.92	2.93	0.37	0.75	3.28	24.15	12
1972	4.01	1.26	0.40	0.66	0.42	1.31	2.57	4.48	6.09	1.94	3.72	0.34	27.20	5
1973	1.55	0.24	1.00	0.35	0.45	3.71	3.88	3.41	2.21	1.97	1.76	2.05	22.58	16
1974	1.93	0.70	1.03	0.30	0.77	0.80	3.52	2.33	1.64	2.13	2.84	0.61	18.60	38
1975	1.06	0.70	0.75	1.53	0.67	1.51	2.68	2.48	4.21	0.99	0.48	0.21	17.27	45
1976	0.94	0.63	1.25	0.73	1.13	0.87	3.30	2.76	11.66	2.08	0.68	0.90	26.93	6
1977	0.74	0.86	0.58	0.87	1.06	3.89	1.48	1.96	2.10	2.08	2.81	1.61	20.04	27
1978	3.21	1.15	0.98	0.29	1.18	0.37	3.32	5.04	1.85	3.83	1.60	0.29	23.11	15
1979	0.58	1.35	0.74	0.71	1.08	0.73	1.22	1.82	2.94	3.34	3.64	0.50	18.65	37
1980	1.21	0.38	0.30	0.57	0.42	1.15	1.58	2.50	2.92	0.82	2.17	1.29	15.31	52
1981	1.83	0.73	1.44	0.41	0.32	0.24	0.40	3.86	3.84	4.24	1.24	1.81	20.36	23
1982	1.77	0.56	0.54	1.04	0.52	2.26	1.92	12.31	2.81	2.09	2.16	2.49	30.47	1
1983	4.71	0.29	0.87	0.43	0.14	1.66	2.24	2.26	0.71	1.63	3.04	0.77	18.75	36
1984	1.95	1.51	1.33	0.31	0.35	1.15	4.69	1.59	7.14	1.16	2.16	1.04	24.38	11
1985	0.94	1.24	1.04	0.35	0.14	1.64	1.04	1.59	2.43	0.99	0.58	1.96	13.94	59
1986	0.73	1.74	1.80	1.19	1.18	0.86	5.65	2.26	4.41	3.06	0.69	4.71	28.28	3
1987	2.17	1.63	0.23	0.30	1.61	2.33	0.46	4.31	0.64	1.70	3.45	1.10	19.93	28
1988	0.43	0.53	0.69	0.75	0.62	2.45	0.92	3.63	2.08	0.64	0.79	2.82	16.35	48
1989	0.87	0.90	0.33	0.10	0.58	1.74	3.75	2.14	2.33	2.02	0.83	2.44	18.03	41
1990	2.44	1.62	1.55	0.24	0.64	0.81	2.38	2.78	1.17	3.12	0.57	0.42	17.74	44
1991	1.33	0.60	1.26	0.79	1.44	0.85	2.76	5.08	2.23	0.95	1.20	0.32	18.81	35
1992	0.98	1.70	0.17	0.35	0.66	1.54	1.75	2.03	2.83	2.11	1.28	0.58	15.98	50
1993	1.03	1.29	1.22	0.83	0.73	1.42	3.04	2.65	5.46	4.03	0.95	1.13	23.78	13
1994	0.45	0.84	1.41	1.39	0.75	0.90	2.22	1.95	0.54	3.32	0.89	0.96	15.62	51
1995	5.80	1.17	0.14	0.34	0.73	1.04	2.36	7.28	2.96	2.18	0.63	0.98	25.61	9
1996	3.33	1.15	0.39	2.11	0.40	2.37	1.47	3.72	1.22	0.99	1.69	3.11	21.95	19
1997	2.77	0.93	2.25	1.29	1.16	0.91	0.61	3.27	2.62	2.67	0.72	0.93	20.13	24
1998	0.80	0.94	0.78	0.70	1.68	1.27	0.77	0.88	5.15	2.05	2.60	1.82	19.44	30
Mean 1961-90	1.48	0.87	0.81	0.58	0.70	1.40	2.53	3.57	3.65	1.95	1.75	1.64	20.93	

Measured (shaded) and estimated precipitation, in inches, for site 63, Highland Cemetery near Hot Springs (431806103351800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.43	0.77	0.04	0.36	0.42	1.00	0.48	1.78	1.38	1.67	1.83	0.90	14.06	47
1932	1.41	0.55	0.86	0.84	0.94	2.87	3.32	2.98	1.81	2.55	1.76	0.12	20.01	11
1933	1.11	0.08	0.37	0.07	0.55	1.66	3.91	5.21	0.95	1.12	5.79	0.31	21.13	7
1934	0.14	0.31	0.31	0.36	0.52	1.46	0.82	0.43	2.81	2.31	1.55	0.93	11.95	62
1935	1.05	0.24	0.23	0.16	0.39	2.06	3.22	8.21	2.15	0.87	1.15	0.88	20.61	8
1936	0.49	0.44	0.32	0.44	1.06	0.74	0.90	0.86	1.91	0.30	0.87	1.19	9.52	67
1937	0.52	0.91	0.52	0.46	0.38	2.02	0.68	1.61	5.39	1.97	0.22	0.56	15.24	37
1938	0.90	0.40	0.23	0.42	0.06	1.63	1.84	3.56	1.71	2.22	0.83	2.78	16.58	32
1939	0.21	0.62	0.17	0.26	0.50	0.72	0.48	2.26	2.09	0.45	2.60	0.91	11.27	65
1940	0.93	0.00	0.23	0.44	0.49	0.80	4.81	0.65	1.27	1.65	0.56	1.61	13.44	53
1941	0.68	0.34	0.18	0.24	0.13	0.89	5.17	0.92	4.05	3.04	3.28	1.12	20.04	10
1942	0.87	0.28	0.62	0.04	0.41	1.01	3.55	4.74	3.68	3.51	0.69	1.79	21.19	6
1943	1.82	0.38	0.20	0.30	0.23	0.70	2.81	4.43	3.77	2.02	0.78	0.37	17.81	27
1944	1.32	0.02	0.19	0.91	0.59	0.42	2.36	3.65	2.80	4.35	1.63	0.18	18.42	21
1945	0.37	0.92	0.64	0.39	0.53	1.70	0.50	1.49	3.41	2.00	2.21	1.87	16.03	35
1946	0.07	0.03	0.61	0.24	0.33	0.94	1.15	7.12	3.08	1.28	1.03	3.40	19.28	14
1947	1.13	0.16	0.52	0.42	0.07	0.21	1.23	2.98	8.86	3.01	0.93	0.55	20.07	9
1948	0.92	1.25	0.24	0.03	0.64	0.49	1.88	1.87	3.74	2.60	2.52	0.51	16.69	31
1949	1.26	0.38	0.15	0.21	0.00	0.24	1.79	4.08	1.61	1.92	0.63	0.98	15.05	39
1950	0.80	0.03	0.32	0.22	0.04	0.94	1.73	1.67	0.84	2.14	1.64	1.89	12.26	60
1951	0.41	0.20	0.16	0.17	0.05	0.43	0.40	1.28	3.53	3.52	1.56	1.49	13.20	55
1952	1.01	0.10	0.42	0.00	0.67	0.89	0.28	3.32	2.74	0.46	1.04	0.17	11.10	66
1953	0.24	0.81	0.29	0.99	1.30	0.45	2.19	1.23	1.74	0.84	1.08	1.16	12.32	59
1954	0.08	0.11	0.31	0.13	0.56	1.26	0.45	3.48	1.79	2.19	0.50	0.68	11.54	64
1955	1.76	0.38	0.15	0.22	1.52	1.37	0.73	3.40	2.11	1.87	1.87	3.84	19.22	16
1956	0.29	0.88	0.62	0.12	0.29	0.39	1.33	4.40	2.22	1.17	1.58	0.17	13.46	52
1957	0.36	0.95	0.61	0.50	0.16	1.58	2.29	5.50	3.10	2.22	0.78	1.21	19.26	15
1958	1.72	0.28	0.10	0.06	0.86	1.10	2.70	1.09	2.73	5.56	0.31	0.06	16.57	33
1959	0.13	0.25	0.28	0.46	0.29	0.66	0.78	2.81	3.64	1.56	0.33	3.02	14.21	45
1960	0.26	0.60	0.25	0.38	0.62	0.28	1.01	0.86	2.22	0.57	0.69	0.23	7.97	68
1961	0.04	0.88	0.71	0.05	0.21	0.96	1.06	2.83	1.15	3.24	0.31	1.25	12.69	58
1962	0.53	0.32	0.32	0.20	0.86	0.80	0.26	5.62	4.71	4.27	0.52	0.55	18.96	18
1963	1.85	0.18	0.28	0.53	0.33	1.77	2.87	1.95	5.63	3.31	1.24	2.66	22.60	3
1964	0.92	0.01	0.23	0.17	0.64	1.02	2.08	2.98	4.33	0.48	0.77	0.25	13.88	49
1965	0.42	0.51	0.62	0.55	0.48	0.84	1.22	5.18	3.53	2.46	1.35	2.29	19.45	13
1966	0.29	0.21	0.31	0.31	0.71	0.38	2.42	0.27	0.86	3.81	2.80	1.92	14.29	42
1967	1.28	0.56	0.42	0.39	0.12	0.91	2.18	3.37	7.31	0.98	0.28	0.74	18.54	20
1968	0.45	0.26	0.80	0.28	0.18	0.75	1.19	2.97	5.50	2.38	2.39	0.91	18.06	25
1969	0.40	0.34	0.53	0.36	0.82	0.24	0.97	1.28	2.10	4.91	0.25	0.52	12.72	57
1970	1.11	0.25	0.22	0.19	0.25	1.06	2.31	1.59	2.50	2.23	0.76	1.73	14.20	46
1971	1.29	0.45	0.27	0.47	0.79	0.41	3.20	5.55	2.20	1.20	0.31	2.50	18.64	19
1972	1.41	0.63	0.25	0.32	0.14	0.71	1.48	2.53	3.91	1.60	1.56	0.66	15.20	38
1973	1.28	0.22	0.19	0.22	0.43	2.20	3.16	1.62	1.20	3.14	1.28	2.94	17.88	26
1974	1.41	0.70	0.65	0.57	0.13	0.25	2.45	0.90	1.13	2.04	1.90	1.30	13.43	54
1975	2.03	0.24	0.06	0.65	0.55	1.25	1.48	2.02	4.45	1.02	0.47	0.12	14.34	41
1976	0.52	0.33	0.91	0.54	0.62	0.65	3.11	2.39	3.13	3.87	1.32	0.83	18.22	23
1977	0.49	0.22	0.16	0.41	0.07	1.32	2.42	2.41	2.13	3.18	2.80	2.09	17.70	28
1978	0.85	1.05	0.51	0.46	0.66	0.27	1.68	4.17	1.42	3.29	2.75	0.36	17.47	30
1979	0.45	0.46	0.61	0.51	0.37	0.30	0.82	1.58	2.19	3.17	3.56	0.26	14.28	43
1980	0.82	0.21	0.01	0.35	0.42	1.40	1.26	2.34	2.17	1.51	2.13	0.34	12.96	56
1981	1.43	0.50	0.61	0.12	0.21	0.43	0.71	4.46	1.35	3.64	1.14	0.25	14.85	40
1982	2.00	0.09	0.54	0.49	0.21	1.13	0.99	5.67	4.66	1.87	2.29	2.48	22.42	4
1983	1.15	0.92	0.34	0.27	0.05	1.22	0.75	2.35	3.29	1.77	1.82	0.35	14.28	44
1984	1.58	1.45	0.76	0.26	0.33	1.08	3.34	2.53	2.97	2.21	1.16	0.53	18.20	24
1985	1.04	0.50	0.26	0.37	0.28	0.51	1.71	1.00	1.53	1.96	0.54	2.36	12.06	61
1986	0.72	1.54	0.24	0.16	0.90	0.62	3.24	1.21	4.51	1.77	1.10	3.19	19.20	17
1987	2.35	0.73	0.12	0.08	1.54	1.81	0.32	4.35	0.87	1.16	1.31	0.77	15.41	36
1988	0.40	0.75	0.78	0.21	0.18	0.62	0.59	2.79	2.37	1.80	2.35	0.98	13.82	50
1989	0.32	0.61	0.33	0.00	0.40	0.95	1.46	1.42	1.22	2.34	1.37	3.49	13.91	48
1990	0.76	0.24	0.42	0.05	0.40	1.17	2.18	5.03	1.82	2.89	0.89	1.64	17.49	29
1991	0.80	0.86	0.44	0.21	0.82	0.69	1.84	3.36	2.92	0.36	0.90	0.40	13.60	51
1992	1.02	0.90	0.06	0.36	0.62	1.62	0.70	5.06	2.42	3.96	1.44	0.21	18.37	22
1993	0.65	0.56	0.98	0.68	1.19	1.15	2.17	2.00	5.42	3.08	2.45	1.45	21.78	5
1994	1.62	0.81	0.50	0.48	0.44	0.64	1.15	1.41	2.22	1.49	0.44	0.61	11.81	63
1995	3.07	0.23	1.02	0.37	0.56	0.70	1.59	4.51	3.54	1.99	0.36	1.77	19.71	12
1996	1.66	0.42	0.15	0.63	0.06	0.81	2.56	3.84	1.78	0.42	2.20	1.51	16.04	34
1997	1.72	0.47	0.84	0.80	0.79	0.30	2.69	3.27	3.96	7.30	1.68	0.62	24.44	1
1998	0.98	0.12	0.14	0.55	0.89	2.14	0.61	3.85	3.48	3.75	4.82	2.24	23.57	2
Mean 1961-90	0.99	0.51	0.42	0.32	0.44	0.90	1.76	2.81	2.87	2.45	1.42	1.34	16.24	

Measured (shaded) and estimated precipitation, in inches, for site 64, Parker Peak near Edgemont (432343103421500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.40	0.79	0.03	0.38	0.39	0.91	0.57	1.85	1.42	1.60	1.96	0.85	14.15	48
1932	1.48	0.57	0.83	0.83	0.99	2.89	3.28	3.07	2.09	2.56	1.93	0.11	20.63	10
1933	1.11	0.07	0.36	0.13	0.55	1.64	3.87	5.32	0.93	1.32	5.91	0.36	21.57	7
1934	0.13	0.32	0.31	0.34	0.53	1.49	0.76	0.37	2.67	2.17	1.43	0.91	11.43	66
1935	1.22	0.23	0.29	0.16	0.43	1.91	2.89	8.25	2.28	0.82	1.09	0.98	20.55	11
1936	0.48	0.47	0.30	0.45	1.02	0.75	1.05	0.80	2.27	0.28	1.03	1.13	10.03	67
1937	0.57	0.97	0.53	0.48	0.39	1.95	0.64	1.62	5.28	2.18	0.25	0.58	15.44	38
1938	0.81	0.39	0.30	0.40	0.07	1.50	1.82	3.88	1.71	2.37	0.86	2.73	16.84	32
1939	0.26	0.63	0.16	0.19	0.49	0.80	0.50	2.18	2.12	0.54	2.88	1.01	11.76	64
1940	0.96	0.00	0.24	0.45	0.48	0.79	4.66	0.68	1.20	1.83	0.76	1.64	13.69	55
1941	0.77	0.33	0.21	0.22	0.12	0.89	5.37	1.02	3.88	2.71	3.70	1.16	20.38	13
1942	1.16	0.27	0.59	0.05	0.42	1.05	3.59	4.26	3.78	3.38	0.99	1.87	21.41	8
1943	1.83	0.34	0.21	0.33	0.26	0.76	3.17	4.17	4.03	2.00	0.81	0.40	18.31	25
1944	1.22	0.02	0.22	1.05	0.63	0.49	2.28	3.65	2.89	4.37	1.48	0.19	18.49	21
1945	0.41	0.92	0.65	0.42	0.57	1.72	0.58	1.59	3.42	2.02	2.18	1.77	16.25	35
1946	0.07	0.05	0.56	0.24	0.35	1.00	1.08	7.39	2.99	1.51	1.42	3.26	19.92	14
1947	1.25	0.18	0.52	0.45	0.06	0.26	1.32	2.99	8.90	3.19	1.32	0.41	20.85	9
1948	0.98	1.20	0.22	0.04	0.64	0.46	1.98	1.86	3.92	2.49	2.25	0.53	16.57	33
1949	1.18	0.49	0.37	1.75	0.03	0.27	1.57	3.49	1.95	1.97	1.28	1.00	15.35	39
1950	0.71	0.08	0.35	0.25	0.04	1.50	1.76	1.35	1.14	1.30	1.84	2.25	12.57	61
1951	0.38	0.17	0.20	0.32	0.13	0.49	0.62	1.63	4.55	3.74	1.60	1.85	15.68	36
1952	0.81	0.16	0.42	0.01	0.53	0.98	0.18	3.74	3.51	0.66	1.10	0.18	12.28	62
1953	0.22	0.77	0.23	1.10	1.23	0.76	2.34	1.25	1.94	1.20	1.00	0.89	12.93	58
1954	0.19	0.34	0.21	0.22	0.67	1.19	0.44	3.08	2.60	1.31	0.68	0.77	11.70	65
1955	2.12	0.33	0.19	0.26	1.55	1.57	0.81	2.92	1.98	2.37	1.51	3.39	19.00	18
1956	0.37	0.88	0.86	0.16	0.46	0.38	1.44	3.98	1.92	1.55	1.55	0.22	13.77	53
1957	0.44	0.92	0.62	0.54	0.22	1.68	2.85	5.82	3.57	1.59	1.04	1.19	20.48	12
1958	1.78	0.32	0.14	0.08	0.77	1.12	2.91	0.99	3.07	6.21	0.28	0.05	17.72	31
1959	0.13	0.26	0.27	0.48	0.30	0.62	0.84	2.75	3.69	1.76	0.37	2.95	14.42	45
1960	0.22	0.60	0.22	0.33	0.56	0.27	0.89	0.81	2.23	0.57	0.77	0.26	7.73	68
1961	0.04	0.84	0.70	0.05	0.25	0.99	1.03	2.72	1.24	3.42	0.37	1.29	12.94	57
1962	0.56	0.28	0.30	0.20	0.85	0.78	0.26	5.64	4.44	4.77	0.44	0.59	19.11	17
1963	1.85	0.18	0.26	0.51	0.32	1.56	2.81	2.11	5.78	3.32	1.13	2.74	22.57	5
1964	0.92	0.02	0.24	0.18	0.59	0.97	1.89	3.00	4.49	0.70	0.76	0.28	14.04	50
1965	0.53	0.41	0.71	0.50	0.45	0.86	1.17	5.39	3.55	2.43	1.25	2.24	19.49	15
1966	0.27	0.21	0.31	0.32	0.72	0.36	2.65	0.23	0.94	3.77	2.75	1.87	14.40	46
1967	1.19	0.55	0.45	0.40	0.14	0.89	2.22	3.32	7.37	0.96	0.44	0.74	18.67	20
1968	0.41	0.26	0.81	0.31	0.18	0.73	1.13	2.89	5.50	2.68	2.31	0.89	18.10	26
1969	0.35	0.35	0.55	0.35	0.83	0.23	0.90	1.45	2.17	4.57	0.33	0.63	12.71	60
1970	1.17	0.23	0.23	0.19	0.27	1.02	2.27	1.58	2.50	2.34	1.02	1.78	14.60	44
1971	1.25	0.43	0.31	0.58	0.80	0.57	3.20	5.32	2.33	1.21	0.35	2.49	18.84	19
1972	1.36	0.66	0.31	0.45	0.14	0.71	1.39	2.47	3.86	1.70	1.62	0.66	15.33	40
1973	1.34	0.23	0.20	0.18	0.44	2.15	3.13	1.51	1.27	3.14	1.47	2.91	17.97	28
1974	1.48	0.71	0.61	0.58	0.10	0.25	2.33	0.95	1.16	2.11	1.45	1.20	12.93	59
1975	2.09	0.26	0.06	0.67	0.56	1.27	1.45	2.04	4.56	1.12	0.46	0.12	14.66	43
1976	0.50	0.35	0.89	0.54	0.66	0.66	3.24	2.28	3.25	3.93	1.34	0.77	18.41	23
1977	0.47	0.21	0.16	0.42	0.06	1.30	2.40	2.48	2.19	3.37	2.82	2.19	18.07	27
1978	0.89	1.01	0.52	0.45	0.70	0.29	1.68	4.24	1.43	3.29	2.86	0.37	17.73	30
1979	0.47	0.44	0.61	0.51	0.39	0.30	0.90	1.45	2.15	2.79	3.69	0.26	13.96	52
1980	0.85	0.23	0.00	0.41	0.42	1.72	1.55	2.63	2.17	1.36	2.03	0.36	13.73	54
1981	1.32	0.52	0.64	0.10	0.23	0.50	0.72	4.17	1.46	3.35	1.06	0.22	14.29	47
1982	2.30	0.08	0.43	0.48	0.16	1.20	1.01	5.20	4.58	2.01	2.57	2.44	22.46	6
1983	1.16	1.04	0.32	0.28	0.05	1.11	0.74	2.20	3.60	1.60	2.26	0.33	14.69	42
1984	1.60	1.60	0.82	0.20	0.31	0.99	3.37	2.77	2.61	2.25	1.32	0.50	18.34	24
1985	0.90	0.52	0.29	0.37	0.30	0.60	2.16	0.98	1.36	1.74	0.51	2.25	11.98	63
1986	0.70	1.61	0.30	0.13	0.93	0.59	3.23	1.18	4.62	1.71	1.14	3.33	19.47	16
1987	2.81	0.81	0.11	0.10	1.61	1.64	0.43	3.93	0.78	1.34	1.24	0.79	15.59	37
1988	0.40	0.72	0.68	0.23	0.19	0.76	0.60	2.72	2.57	1.95	2.22	0.93	13.97	51
1989	0.25	0.58	0.32	0.00	0.47	0.98	1.52	1.43	1.18	2.34	1.40	3.62	14.09	49
1990	0.95	0.27	0.46	0.04	0.40	1.18	2.28	4.78	1.56	3.06	0.89	1.89	17.76	29
1991	0.80	0.91	0.35	0.32	0.78	0.51	1.88	3.68	3.08	1.26	1.01	0.41	14.99	41
1992	1.06	0.79	0.05	0.24	0.52	1.66	0.74	2.72	3.60	3.67	1.19	0.13	16.37	34
1993	0.46	0.51	1.19	0.73	1.28	1.16	2.01	1.68	5.65	4.62	4.16	0.85	24.30	3
1994	1.63	0.77	0.60	0.54	0.54	0.69	1.45	1.71	1.90	1.42	1.34	0.47	13.06	56
1995	3.34	0.36	0.92	0.26	0.72	0.80	1.63	4.92	6.98	1.67	0.84	2.32	24.76	2
1996	1.59	0.55	0.18	0.64	0.12	0.88	2.90	4.52	1.15	0.42	3.72	1.79	18.46	22
1997	2.13	0.53	0.97	0.72	0.69	0.37	2.85	3.51	4.35	6.20	1.76	0.84	24.92	1
1998	0.94	0.22	0.18	0.64	0.83	2.21	0.70	4.52	3.52	3.55	4.55	1.78	23.64	4
Mean 1961-90	1.01	0.52	0.42	0.32	0.45	0.91	1.79	2.77	2.89	2.48	1.45	1.36	16.36	

Measured (shaded) and estimated precipitation, in inches, for site 65, Pilger Mountain near Edgemont (432933103511000)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.15	0.75	0.01	0.34	0.32	0.80	0.73	2.01	1.43	1.38	2.07	0.65	13.64	55
1932	1.56	0.61	0.67	0.79	0.88	2.41	3.13	3.05	2.95	2.64	2.55	0.15	21.39	8
1933	1.19	0.09	0.35	0.30	0.59	1.37	3.40	5.46	0.84	1.63	5.44	0.45	21.11	9
1934	0.13	0.31	0.26	0.27	0.53	1.44	0.62	0.24	2.39	1.65	1.40	0.92	10.16	67
1935	1.59	0.20	0.47	0.17	0.50	1.39	1.96	7.54	2.32	0.67	0.80	1.14	18.75	23
1936	0.47	0.51	0.21	0.48	0.86	0.71	1.38	0.58	3.05	0.45	1.40	0.85	10.95	65
1937	0.76	1.05	0.49	0.55	0.42	1.63	0.52	1.62	4.40	2.69	0.42	0.58	15.13	42
1938	0.56	0.41	0.57	0.45	0.13	1.21	1.65	4.58	1.63	2.53	1.06	2.28	17.06	33
1939	0.37	0.66	0.18	0.17	0.42	0.89	0.63	1.97	2.45	0.78	3.54	1.16	13.22	57
1940	1.05	0.00	0.32	0.47	0.44	0.80	4.14	0.71	1.14	2.00	1.08	1.73	13.88	53
1941	0.98	0.32	0.35	0.18	0.12	0.90	5.30	1.45	3.59	1.96	4.23	1.37	20.75	11
1942	1.81	0.29	0.55	0.09	0.44	1.12	3.66	2.97	3.97	2.82	1.96	1.99	21.67	5
1943	1.81	0.34	0.25	0.44	0.36	1.01	3.64	3.42	4.29	1.81	0.87	0.44	18.68	25
1944	1.10	0.07	0.27	1.28	0.61	0.78	1.88	3.47	3.17	4.00	1.08	0.26	17.97	29
1945	0.50	0.91	0.63	0.50	0.61	1.62	0.72	2.11	3.36	2.03	2.18	1.72	16.89	35
1946	0.05	0.10	0.43	0.22	0.39	1.10	1.00	7.46	2.90	1.92	2.21	2.86	20.64	13
1947	1.62	0.22	0.54	0.50	0.04	0.44	1.62	2.90	8.36	3.12	2.01	0.11	21.48	7
1948	0.98	1.16	0.18	0.10	0.71	0.47	1.97	1.50	3.57	2.31	2.18	0.51	15.64	40
1949	1.11	0.53	0.30	0.77	0.06	0.27	1.74	2.57	1.62	1.39	1.39	1.10	12.85	59
1950	0.74	0.07	0.31	0.22	0.03	1.42	1.59	1.17	1.06	1.44	1.70	1.92	11.67	64
1951	0.39	0.14	0.23	0.17	0.11	0.46	0.69	2.06	4.25	4.71	2.07	2.31	17.59	30
1952	1.04	0.08	0.34	0.00	0.38	1.07	0.14	3.77	4.85	1.07	1.18	0.16	14.08	51
1953	0.28	0.72	0.12	1.03	1.37	0.58	1.85	0.89	1.99	1.32	1.03	0.66	11.84	62
1954	0.24	0.50	0.21	0.13	0.57	1.17	0.37	3.41	2.06	1.41	0.15	0.61	10.83	66
1955	1.99	0.21	0.25	0.25	0.91	1.31	0.89	2.72	2.06	2.45	1.25	2.19	16.48	36
1956	0.37	0.87	0.88	0.11	0.42	0.34	1.72	4.21	1.53	1.29	1.47	0.07	13.28	56
1957	0.72	0.55	0.49	0.57	0.20	1.60	1.75	5.32	4.25	1.49	0.57	1.01	18.52	26
1958	1.51	0.35	0.17	0.09	0.76	0.96	2.78	0.94	3.14	5.91	0.31	0.05	16.97	34
1959	0.16	0.32	0.29	0.42	0.33	0.76	1.09	2.76	4.32	1.98	0.46	2.86	15.75	37
1960	0.19	0.67	0.17	0.31	0.54	0.26	0.89	1.32	2.57	0.66	0.83	0.43	8.84	68
1961	0.05	0.74	0.60	0.03	0.33	1.14	1.08	2.43	1.50	3.26	0.60	1.44	13.20	58
1962	0.70	0.28	0.23	0.28	0.90	0.73	0.29	6.07	4.42	5.05	0.42	0.80	20.17	15
1963	1.77	0.16	0.22	0.50	0.30	1.42	3.14	2.52	5.98	3.11	1.47	2.89	23.48	1
1964	0.91	0.03	0.27	0.24	0.42	1.02	1.56	3.28	4.37	1.12	0.87	0.35	14.44	49
1965	0.49	0.38	0.91	0.45	0.40	0.81	1.16	5.99	4.12	2.69	1.35	1.96	20.71	12
1966	0.25	0.23	0.29	0.25	0.71	0.33	3.27	0.17	0.96	3.77	2.79	1.84	14.86	45
1967	0.94	0.58	0.65	0.37	0.20	0.92	2.06	3.25	7.11	1.08	1.13	0.86	19.15	21
1968	0.39	0.27	0.75	0.41	0.17	0.79	0.95	2.77	5.68	3.48	2.53	1.04	19.23	19
1969	0.28	0.39	0.62	0.37	0.99	0.27	0.95	1.89	2.47	5.01	0.83	0.81	14.88	44
1970	1.24	0.21	0.26	0.20	0.27	1.06	2.45	1.74	2.71	2.32	1.35	1.73	15.54	41
1971	1.13	0.50	0.45	0.82	0.82	1.04	3.48	4.40	2.59	1.28	0.46	2.70	19.67	17
1972	1.42	0.70	0.39	0.73	0.15	0.65	1.49	2.51	4.61	2.01	2.14	0.64	17.44	31
1973	1.23	0.25	0.23	0.12	0.40	2.00	3.27	1.46	1.48	3.36	2.01	2.70	18.51	27
1974	1.30	0.87	0.63	0.58	0.08	0.23	1.86	1.20	1.15	2.23	1.33	1.08	12.54	60
1975	2.18	0.30	0.11	0.76	0.54	1.31	1.85	2.32	4.68	1.08	0.45	0.12	15.70	39
1976	0.57	0.39	0.82	0.51	1.02	0.65	3.31	2.30	3.84	3.59	1.62	0.60	19.22	20
1977	0.40	0.32	0.23	0.50	0.10	1.20	2.11	2.28	2.35	3.91	3.10	2.00	18.50	28
1978	0.95	0.87	0.66	0.38	0.79	0.29	1.71	5.28	1.49	3.45	2.75	0.51	19.13	22
1979	0.45	0.52	0.65	0.51	0.40	0.30	0.89	1.41	2.38	3.38	3.70	0.24	14.83	46
1980	0.83	0.24	0.05	0.40	0.42	1.67	1.58	2.65	2.36	1.67	2.03	0.41	14.31	50
1981	1.39	0.50	0.70	0.07	0.21	0.52	0.76	4.49	1.37	3.45	1.12	0.22	14.80	48
1982	2.35	0.09	0.52	0.56	0.20	1.21	1.03	5.14	4.67	2.37	2.54	2.57	23.25	2
1983	1.13	1.03	0.34	0.28	0.04	1.04	0.73	2.07	3.54	1.74	2.51	0.38	14.83	47
1984	1.84	1.49	0.88	0.16	0.26	0.83	3.29	2.59	3.05	3.07	1.59	0.53	19.58	18
1985	0.79	0.57	0.33	0.37	0.24	0.81	2.00	1.01	1.22	1.82	0.49	2.39	12.04	61
1986	0.76	1.64	0.29	0.12	0.94	0.66	3.23	1.31	5.02	1.54	1.45	3.63	20.59	14
1987	2.76	0.90	0.07	0.09	1.75	1.56	0.43	3.80	0.83	1.44	1.33	0.79	15.75	38
1988	0.50	0.65	0.59	0.26	0.21	0.79	0.71	2.66	2.48	2.02	2.26	0.79	13.92	52
1989	0.26	0.70	0.31	0.02	0.58	0.98	1.50	1.55	1.29	2.42	1.51	3.88	15.00	43
1990	1.11	0.42	0.57	0.03	0.51	1.27	2.52	3.83	1.39	3.07	1.02	1.69	17.43	32
1991	0.93	0.81	0.51	0.44	0.76	0.56	1.91	5.97	3.48	1.64	1.40	0.32	18.73	24
1992	0.91	0.58	0.06	0.12	0.44	1.90	0.90	1.83	2.53	3.21	1.06	0.21	13.75	54
1993	0.30	0.46	1.30	0.60	1.32	0.95	1.61	1.97	5.04	2.79	2.75	0.92	20.01	16
1994	1.57	0.66	0.60	0.68	0.77	0.63	1.97	1.50	1.65	0.63	0.69	0.39	11.74	63
1995	3.61	0.81	0.68	0.61	0.87	0.83	1.51	4.38	4.11	1.34	1.36	2.06	22.17	4
1996	2.06	0.92	0.30	0.70	0.16	1.05	3.28	4.69	1.61	1.03	3.78	1.44	21.02	10
1997	2.62	0.53	0.88	0.62	0.56	0.40	2.89	2.59	2.61	4.93	1.08	1.91	21.62	6
1998	1.37	0.26	0.21	0.61	0.75	1.80	0.67	3.30	5.21	3.76	3.46	1.57	22.97	3
Mean 1961-90	1.01	0.54	0.45	0.35	0.48	0.92	1.82	2.81	3.04	2.66	1.63	1.39	17.09	

Measured (shaded) and estimated precipitation, in inches, for site 66, Dewey (433212104010300)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.87	0.60	0.03	0.25	0.31	0.89	0.68	2.01	1.35	1.24	1.83	0.50	12.56	59
1932	1.48	0.59	0.49	0.77	0.57	1.60	3.05	2.78	3.38	2.73	2.94	0.24	20.62	10
1933	1.32	0.13	0.35	0.39	0.64	1.05	2.84	5.36	0.77	1.52	4.39	0.42	19.18	19
1934	0.17	0.28	0.19	0.23	0.50	1.28	0.62	0.19	2.42	1.34	1.70	1.00	9.92	67
1935	1.67	0.19	0.56	0.16	0.49	1.10	1.59	6.35	2.02	0.61	0.58	1.06	16.38	35
1936	0.46	0.49	0.15	0.51	0.74	0.65	1.43	0.44	3.14	0.79	1.52	0.64	10.96	66
1937	0.91	1.01	0.40	0.59	0.43	1.36	0.45	1.63	3.37	2.84	0.57	0.51	14.07	51
1938	0.46	0.46	0.78	0.58	0.18	1.18	1.46	4.63	1.49	2.31	1.25	1.75	16.53	34
1939	0.36	0.69	0.22	0.32	0.35	0.79	0.78	1.92	2.83	0.88	3.70	1.09	13.93	55
1940	1.08	0.00	0.41	0.49	0.42	0.83	3.79	0.66	1.28	1.73	0.98	1.77	13.44	56
1941	1.03	0.33	0.47	0.21	0.16	0.92	4.60	1.78	3.67	1.87	3.76	1.58	20.38	11
1942	1.91	0.36	0.58	0.13	0.43	1.11	3.70	2.47	3.98	2.35	2.49	1.92	21.43	7
1943	1.76	0.47	0.30	0.53	0.41	1.20	3.27	3.09	3.93	1.56	0.88	0.41	17.81	27
1944	1.19	0.17	0.29	1.21	0.50	0.98	1.50	3.17	3.31	3.40	0.93	0.31	16.96	30
1945	0.51	0.87	0.58	0.52	0.57	1.39	0.68	2.56	3.23	2.00	2.31	1.91	17.13	29
1946	0.05	0.13	0.41	0.21	0.39	1.10	1.09	6.76	3.05	1.85	2.24	2.72	20.00	14
1947	1.81	0.25	0.55	0.48	0.04	0.54	1.79	2.77	7.43	2.45	1.90	0.10	20.11	13
1948	0.90	1.21	0.12	0.21	0.78	0.38	2.13	1.20	2.96	2.01	1.97	0.49	14.36	47
1949	0.95	0.55	0.30	1.11	0.06	0.39	1.69	2.88	2.43	1.55	1.22	1.12	14.25	49
1950	0.72	0.09	0.41	0.32	0.06	1.51	1.55	1.40	1.26	1.35	1.69	2.09	12.45	60
1951	0.42	0.13	0.21	0.19	0.20	0.43	0.88	1.91	4.65	3.54	1.47	2.11	16.14	36
1952	1.00	0.17	0.41	0.01	0.33	1.09	0.12	4.11	3.88	1.48	1.22	0.17	13.99	54
1953	0.20	0.64	0.10	1.11	1.27	0.97	1.90	0.95	2.30	1.53	2.03	0.42	13.42	57
1954	0.34	0.65	0.14	0.10	0.53	1.00	0.26	2.77	2.20	1.62	0.77	0.59	10.97	65
1955	2.04	0.24	0.24	0.42	0.80	1.24	0.69	2.97	2.25	2.51	2.17	2.02	17.59	28
1956	0.34	0.86	0.88	0.30	0.42	0.43	1.87	3.88	1.32	1.85	1.99	0.09	14.23	50
1957	0.58	0.73	0.52	0.55	0.22	1.49	1.91	5.38	4.03	1.50	0.66	0.73	18.30	24
1958	1.10	0.42	0.22	0.13	0.71	0.81	2.22	1.02	3.61	5.55	0.32	0.02	16.13	37
1959	0.18	0.34	0.31	0.33	0.66	0.79	1.13	2.74	4.46	1.61	0.40	2.20	15.15	41
1960	0.18	0.82	0.11	0.21	0.66	0.30	0.99	1.29	2.23	0.58	0.63	0.83	8.83	68
1961	0.05	0.57	0.60	0.01	0.38	1.01	1.02	1.97	1.39	2.75	0.69	1.39	11.83	63
1962	0.91	0.20	0.25	0.41	0.94	0.51	0.38	6.11	3.87	4.34	0.71	0.88	19.51	17
1963	1.03	0.11	0.22	0.67	0.25	0.96	3.16	2.78	4.45	1.93	1.54	2.38	19.48	18
1964	0.80	0.03	0.39	0.19	0.49	0.78	1.47	3.15	4.67	0.90	1.28	0.44	14.59	45
1965	0.24	0.29	1.09	0.63	0.32	0.65	1.16	6.04	4.77	2.80	1.26	1.73	20.98	9
1966	0.11	0.20	0.21	0.22	0.66	0.38	3.51	0.04	1.05	3.57	3.01	1.43	14.39	46
1967	0.97	0.60	0.81	0.38	0.37	0.82	2.11	2.81	5.88	1.56	1.61	1.68	19.60	16
1968	0.39	0.25	0.65	0.46	0.21	0.65	1.01	2.50	4.77	3.36	2.56	1.22	18.03	26
1969	0.16	0.46	0.65	0.38	0.95	0.37	1.66	2.34	3.34	4.42	1.40	0.58	16.71	32
1970	1.07	0.38	0.36	0.29	0.19	0.90	2.35	2.27	2.22	2.39	1.31	1.16	14.89	43
1971	0.91	0.58	0.62	0.85	0.78	1.13	3.62	4.04	2.22	1.18	0.45	2.42	18.80	21
1972	1.47	0.73	0.30	0.93	0.29	0.59	1.38	2.26	4.69	2.40	2.89	0.69	18.62	22
1973	1.04	0.24	0.33	0.11	0.36	1.73	3.12	1.00	2.03	3.27	2.04	2.87	18.14	25
1974	0.87	0.84	0.81	0.54	0.12	0.18	1.42	1.19	0.80	2.58	1.77	0.97	12.09	61
1975	1.98	0.25	0.21	0.74	0.47	1.35	2.54	2.59	4.35	0.82	0.35	0.11	15.76	39
1976	0.76	0.38	0.72	0.48	1.18	0.51	2.52	2.44	4.11	3.21	1.53	0.57	18.41	23
1977	0.27	0.56	0.35	0.60	0.16	1.01	1.88	1.89	2.03	3.14	3.15	1.51	16.55	33
1978	1.11	0.92	0.70	0.34	0.79	0.29	1.74	6.09	1.49	3.55	2.32	0.59	19.93	15
1979	0.47	0.60	0.76	0.53	0.49	0.25	0.89	1.52	2.41	3.28	3.77	0.22	15.19	40
1980	0.64	0.27	0.10	0.41	0.44	1.57	1.54	2.67	2.19	1.77	1.99	0.46	14.05	52
1981	1.32	0.47	0.78	0.10	0.22	0.52	0.79	4.22	1.14	3.23	1.59	0.30	14.68	44
1982	2.14	0.12	0.60	0.66	0.33	1.19	0.98	4.24	3.95	2.75	2.66	2.41	22.03	4
1983	1.15	0.94	0.29	0.31	0.04	0.99	0.78	1.69	3.41	1.36	2.69	0.37	14.02	53
1984	2.10	1.56	0.91	0.09	0.23	0.69	2.82	2.32	3.01	2.79	1.58	0.72	18.82	20
1985	0.72	0.55	0.37	0.33	0.21	0.95	1.67	0.89	1.31	1.68	0.45	2.13	11.26	64
1986	0.72	1.55	0.47	0.11	0.99	0.62	3.14	1.41	4.93	1.32	1.23	3.76	20.25	12
1987	2.52	0.85	0.05	0.08	1.68	1.32	0.35	3.43	0.76	1.30	1.12	0.84	14.30	48
1988	0.62	0.66	0.31	0.31	0.32	0.43	0.81	2.69	2.72	1.77	1.68	0.87	13.19	58
1989	0.27	0.63	0.28	0.08	0.58	1.02	1.73	2.05	1.23	1.84	1.35	3.87	14.93	42
1990	1.17	0.52	0.68	0.02	0.56	1.21	2.69	2.99	1.31	2.92	1.21	1.46	16.74	31
1991	0.98	0.79	0.71	0.48	0.76	0.44	2.08	7.53	3.27	2.67	1.57	0.17	21.45	6
1992	0.68	0.48	0.06	0.00	0.51	2.12	0.83	2.41	2.57	4.98	1.11	0.29	16.04	38
1993	0.16	0.32	1.48	0.46	1.29	0.84	1.24	2.62	6.64	3.27	3.29	0.70	22.31	3
1994	1.71	0.62	0.56	0.79	0.68	0.44	2.38	1.50	1.24	1.25	0.60	0.12	11.89	62
1995	3.50	0.98	0.49	0.19	0.86	0.88	1.86	3.61	4.68	0.94	1.74	2.12	21.85	5
1996	2.78	0.72	0.24	0.57	0.12	1.06	3.97	5.46	2.38	0.78	4.30	1.04	23.42	2
1997	2.90	0.48	0.72	0.56	0.55	0.49	3.04	2.99	2.63	4.24	0.70	2.00	21.30	8
1998	1.86	0.22	0.27	0.61	0.54	1.30	0.77	3.32	5.56	4.42	3.13	1.62	23.62	1
Mean 1961-90	0.93	0.54	0.50	0.38	0.50	0.82	1.81	2.72	2.88	2.47	1.71	1.33	16.59	

Measured (shaded) and estimated precipitation, in inches, for site 67, Hopkins Flats near Pringle (433702103411200)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.25	0.67	0.01	0.25	0.31	0.70	0.81	1.90	1.64	1.22	2.54	0.46	13.76	59
1932	1.61	0.65	0.59	0.81	0.59	1.60	3.33	3.12	3.36	2.63	2.87	0.21	21.37	13
1933	1.32	0.09	0.31	0.38	0.48	1.12	3.40	5.67	0.86	2.15	4.92	0.52	21.22	15
1934	0.07	0.25	0.21	0.25	0.40	1.34	0.62	0.24	2.52	1.63	1.39	0.97	9.89	68
1935	2.02	0.19	0.50	0.15	0.49	1.07	1.81	6.67	2.46	0.79	0.64	1.21	18.00	32
1936	0.37	0.41	0.14	0.44	0.71	0.76	1.56	0.57	3.70	0.51	1.95	0.71	11.83	66
1937	0.78	1.07	0.36	0.49	0.40	1.36	0.43	1.92	3.48	2.62	0.58	0.54	14.03	58
1938	0.45	0.34	0.67	0.35	0.16	1.16	1.74	4.93	1.72	2.52	1.09	1.79	16.92	42
1939	0.43	0.72	0.18	0.18	0.34	0.99	0.62	2.19	2.18	1.17	4.06	1.31	14.37	56
1940	1.13	0.00	0.31	0.43	0.37	0.79	3.58	0.67	1.31	2.04	1.61	1.81	14.05	57
1941	1.11	0.30	0.37	0.15	0.12	0.91	5.06	1.59	3.61	2.16	3.90	1.44	20.72	18
1942	2.40	0.24	0.49	0.09	0.49	1.14	3.89	2.92	4.26	2.21	2.05	1.95	22.13	9
1943	1.72	0.32	0.26	0.49	0.39	1.05	4.19	3.54	4.54	1.80	0.70	0.36	19.36	26
1944	0.99	0.05	0.22	1.43	0.57	0.85	1.57	3.19	3.33	3.83	0.86	0.26	17.15	37
1945	0.60	0.94	0.56	0.49	0.55	1.72	0.83	2.17	3.36	1.83	2.42	1.65	17.12	38
1946	0.07	0.13	0.35	0.20	0.39	1.25	0.94	7.44	2.98	1.98	2.65	2.91	21.29	14
1947	1.77	0.20	0.45	0.59	0.04	0.63	1.80	2.88	8.29	2.70	2.62	0.19	22.16	8
1948	1.13	1.05	0.17	0.16	0.64	0.51	1.89	1.52	3.76	2.45	2.34	0.43	16.05	45
1949	1.06	0.47	0.46	1.51	0.03	0.41	1.61	3.83	2.99	2.51	1.40	1.05	17.33	34
1950	0.59	0.06	0.61	0.31	0.13	1.51	1.48	1.68	1.80	1.86	2.22	2.42	14.67	55
1951	0.38	0.08	0.15	0.22	0.36	0.47	1.13	1.20	5.18	2.62	1.25	2.38	15.42	50
1952	0.98	0.08	0.40	0.02	0.30	0.98	0.12	5.48	3.44	1.95	1.41	0.23	15.39	51
1953	0.19	0.48	0.12	1.29	1.35	1.26	2.17	0.81	2.55	1.90	2.55	0.33	15.00	54
1954	0.28	0.60	0.08	0.09	0.62	1.01	0.30	2.25	2.32	1.88	1.69	0.72	11.84	65
1955	2.08	0.34	0.40	0.36	0.77	1.26	0.53	2.72	2.47	2.62	3.50	1.81	18.86	29
1956	0.25	0.78	0.84	0.39	0.59	0.56	1.58	3.54	1.18	2.50	3.06	0.19	15.46	49
1957	0.34	1.07	0.55	0.49	0.16	1.20	2.71	6.20	4.46	1.39	1.08	0.75	20.40	21
1958	1.47	0.26	0.18	0.14	0.81	0.86	2.94	1.28	3.35	5.56	0.36	0.04	17.25	35
1959	0.17	0.43	0.27	0.37	0.38	0.91	1.28	2.81	4.82	2.16	0.49	2.81	16.90	43
1960	0.19	0.79	0.13	0.30	0.54	0.30	0.98	1.73	2.73	0.84	0.84	0.55	9.92	67
1961	0.05	0.67	0.54	0.02	0.38	1.21	1.20	2.25	1.64	3.19	0.84	1.50	13.49	60
1962	0.86	0.27	0.19	0.32	1.02	0.64	0.32	6.91	4.46	5.57	0.44	1.01	22.01	10
1963	1.56	0.19	0.17	0.58	0.25	1.35	3.44	2.87	6.11	2.82	1.71	2.85	23.90	4
1964	0.91	0.04	0.32	0.31	0.37	0.97	1.35	3.51	4.54	1.73	0.94	0.50	15.49	48
1965	0.43	0.27	1.20	0.47	0.35	0.83	1.26	6.91	4.86	3.22	1.58	1.84	23.22	5
1966	0.22	0.25	0.30	0.24	0.80	0.40	3.96	0.10	1.03	3.63	3.02	1.75	15.70	46
1967	0.85	0.62	0.85	0.35	0.30	0.97	2.20	3.23	6.97	1.36	1.78	1.05	20.53	20
1968	0.38	0.31	0.69	0.52	0.19	0.79	1.07	2.73	5.64	4.07	3.14	1.14	20.67	19
1969	0.20	0.42	0.67	0.40	1.10	0.37	1.10	2.33	2.95	5.38	1.28	0.97	17.17	36
1970	1.38	0.21	0.27	0.22	0.26	1.20	2.74	2.23	2.90	2.17	1.84	1.59	17.01	40
1971	1.04	0.58	0.57	1.05	0.85	1.61	3.90	4.34	2.70	1.49	0.65	2.98	21.76	11
1972	1.52	0.77	0.43	0.88	0.20	0.59	1.66	2.56	6.15	2.44	2.36	0.60	20.16	22
1973	1.19	0.23	0.28	0.12	0.35	2.24	3.55	1.33	1.73	3.66	2.27	2.55	19.50	23
1974	1.00	0.98	0.68	0.60	0.09	0.22	1.48	1.56	1.08	2.50	1.19	1.01	12.39	63
1975	2.18	0.27	0.08	0.83	0.59	1.34	2.15	2.41	4.69	1.01	0.62	0.14	16.31	44
1976	0.57	0.38	0.84	0.41	1.30	0.60	3.63	2.90	4.66	3.54	1.84	0.81	21.48	12
1977	0.29	0.33	0.20	0.43	0.21	1.35	1.85	2.02	2.77	4.49	3.25	2.00	19.19	27
1978	0.78	0.82	0.76	0.33	0.83	0.26	2.00	6.77	1.52	3.65	2.67	0.72	21.11	16
1979	0.38	0.64	0.66	0.46	0.45	0.38	0.96	1.47	3.35	6.30	3.48	0.20	18.73	30
1980	0.78	0.29	0.18	0.30	0.39	1.07	1.26	2.30	2.71	2.83	2.48	0.56	15.15	53
1981	1.74	0.42	0.70	0.07	0.15	0.39	0.82	6.13	1.03	4.16	1.45	0.33	17.39	33
1982	2.13	0.10	0.92	0.61	0.38	1.10	1.06	5.57	4.94	3.04	2.06	2.87	24.78	2
1983	1.22	0.74	0.44	0.26	0.07	1.30	0.80	2.46	3.03	2.15	2.51	0.54	15.52	47
1984	2.25	0.94	0.77	0.14	0.19	0.65	2.94	1.80	4.41	4.72	1.65	0.60	21.06	17
1985	0.71	0.57	0.38	0.36	0.12	1.00	1.00	1.02	1.16	2.33	0.74	2.63	12.02	64
1986	0.85	1.65	0.25	0.14	0.88	0.79	3.17	1.57	5.83	1.36	1.74	3.96	22.19	7
1987	1.88	1.00	0.04	0.06	1.86	1.65	0.30	4.05	1.06	1.28	1.45	0.75	15.38	52
1988	0.64	0.57	0.47	0.26	0.23	0.57	0.90	2.75	2.06	1.73	2.43	0.61	13.22	61
1989	0.41	0.96	0.30	0.04	0.63	0.85	1.34	2.03	1.63	2.42	1.85	4.49	16.95	41
1990	1.05	0.58	0.58	0.03	0.71	1.55	2.49	4.31	1.21	3.86	1.27	1.24	18.88	28
1991	0.89	0.49	0.29	0.34	0.98	0.55	2.59	5.44	3.99	2.21	1.18	0.46	19.41	25
1992	1.41	0.91	0.10	0.17	0.40	2.46	0.99	2.78	2.99	3.24	1.08	0.52	17.05	39
1993	0.71	0.42	1.12	0.87	1.37	1.16	2.24	2.53	6.41	3.36	1.28	1.35	22.82	6
1994	1.69	1.00	0.70	0.49	1.23	0.83	1.72	0.92	2.07	0.65	0.55	0.67	12.52	62
1995	5.44	0.74	0.94	0.63	0.98	1.07	1.95	5.96	3.78	1.38	1.80	1.41	26.08	1
1996	1.87	0.89	0.44	0.97	0.21	1.13	2.79	3.62	1.19	1.29	3.26	1.78	19.44	24
1997	4.04	0.58	1.14	0.49	0.62	0.49	3.53	2.72	1.95	4.49	0.94	3.57	24.56	3
1998	1.07	0.12	0.10	0.63	1.38	2.39	0.64	2.46	3.78	2.21	2.22	1.52	18.52	31
Mean 1961-90	0.98	0.54	0.49	0.36	0.52	0.94	1.86	3.08	3.29	3.07	1.82	1.46	18.41	

Measured (shaded) and estimated precipitation, in inches, for site 68, Beaver Valley near Pringle (433758103353300)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.41	0.70	0.00	0.25	0.32	0.64	0.86	1.90	1.70	1.21	2.77	0.45	14.21	59
1932	1.67	0.67	0.64	0.82	0.61	1.65	3.36	3.18	3.33	2.55	2.87	0.17	21.52	15
1933	1.30	0.07	0.30	0.38	0.43	1.17	3.53	5.79	0.78	2.26	5.19	0.53	21.73	14
1934	0.04	0.24	0.22	0.25	0.38	1.38	0.61	0.23	2.44	1.77	1.27	0.96	9.79	68
1935	2.15	0.19	0.48	0.14	0.49	1.10	1.91	6.88	2.58	0.72	0.64	1.27	18.55	33
1936	0.35	0.39	0.14	0.42	0.71	0.80	1.63	0.63	3.88	0.39	2.08	0.75	12.17	63
1937	0.76	1.12	0.36	0.48	0.40	1.39	0.42	1.97	3.53	2.51	0.55	0.54	14.03	60
1938	0.47	0.32	0.64	0.29	0.16	1.16	1.79	5.06	1.78	2.61	1.08	1.82	17.18	42
1939	0.46	0.73	0.16	0.13	0.35	1.05	0.57	2.27	1.98	1.15	4.14	1.38	14.37	57
1940	1.15	0.00	0.29	0.42	0.37	0.78	3.61	0.67	1.27	2.18	1.79	1.83	14.36	58
1941	1.13	0.29	0.34	0.14	0.11	0.91	5.25	1.52	3.56	2.11	3.99	1.38	20.73	25
1942	2.53	0.23	0.49	0.08	0.51	1.16	3.96	3.01	4.37	2.18	1.98	1.97	22.47	11
1943	1.72	0.27	0.24	0.47	0.39	1.02	4.46	3.68	4.71	1.82	0.64	0.37	19.79	28
1944	0.95	0.01	0.21	1.49	0.59	0.81	1.62	3.23	3.31	3.98	0.87	0.25	17.32	40
1945	0.62	0.95	0.57	0.47	0.55	1.81	0.85	2.03	3.43	1.78	2.43	1.56	17.05	43
1946	0.08	0.13	0.33	0.20	0.38	1.27	0.86	7.63	2.90	2.01	2.79	2.90	21.48	18
1947	1.74	0.19	0.43	0.61	0.03	0.63	1.81	2.95	8.52	2.83	2.85	0.18	22.77	9
1948	1.13	1.04	0.17	0.16	0.64	0.52	1.89	1.52	3.73	2.42	2.29	0.36	15.87	47
1949	1.04	0.44	0.56	1.54	0.04	0.40	1.54	3.92	2.84	2.46	1.50	1.03	17.31	41
1950	0.61	0.04	0.55	0.27	0.14	1.53	1.58	1.70	1.70	1.96	2.21	2.60	14.89	56
1951	0.37	0.11	0.14	0.22	0.32	0.49	1.01	1.24	5.03	2.75	1.37	2.27	15.32	50
1952	0.75	0.08	0.40	0.05	0.37	0.93	0.16	5.76	3.23	1.77	1.53	0.24	15.27	51
1953	0.19	0.55	0.13	1.10	1.34	1.13	2.50	1.03	2.45	1.61	2.62	0.51	15.16	54
1954	0.24	0.56	0.11	0.14	0.63	1.12	0.43	2.31	2.19	1.81	1.90	0.71	12.15	64
1955	1.99	0.40	0.36	0.32	0.95	1.37	0.64	2.54	2.66	2.45	3.25	2.01	18.94	31
1956	0.24	0.72	0.79	0.43	0.59	0.63	1.31	3.73	1.47	2.56	2.98	0.27	15.72	48
1957	0.30	1.20	0.54	0.42	0.11	0.90	2.89	6.71	4.67	1.40	1.33	0.84	21.31	19
1958	1.69	0.25	0.19	0.15	0.83	1.05	2.97	1.38	3.22	5.53	0.40	0.05	17.71	35
1959	0.15	0.43	0.28	0.37	0.42	1.03	1.44	2.87	4.89	2.33	0.52	2.77	17.50	37
1960	0.19	0.82	0.11	0.30	0.51	0.32	1.08	1.73	2.85	0.99	0.94	0.63	10.47	67
1961	0.05	0.65	0.55	0.02	0.40	1.25	1.25	2.18	1.64	3.24	0.95	1.51	13.69	61
1962	0.96	0.25	0.18	0.32	1.03	0.61	0.33	7.16	4.46	5.67	0.44	1.05	22.46	12
1963	1.61	0.19	0.17	0.60	0.24	1.40	3.41	2.93	6.09	2.87	1.67	2.82	24.00	7
1964	0.93	0.05	0.33	0.32	0.39	1.03	1.37	3.61	4.68	1.88	0.92	0.51	16.02	46
1965	0.43	0.26	1.43	0.46	0.36	0.80	1.25	6.85	5.00	3.32	1.61	1.84	23.61	8
1966	0.23	0.25	0.30	0.24	0.83	0.42	4.37	0.09	1.10	3.53	3.12	1.75	16.23	45
1967	0.84	0.63	0.87	0.33	0.31	0.93	2.26	3.24	7.00	1.36	1.89	1.12	20.78	24
1968	0.37	0.34	0.69	0.52	0.20	0.83	1.06	2.73	5.75	3.98	3.22	1.17	20.86	23
1969	0.20	0.42	0.69	0.42	1.10	0.38	1.11	2.40	3.03	5.50	1.29	0.98	17.52	36
1970	1.41	0.22	0.28	0.22	0.26	1.22	2.79	2.28	2.91	2.19	2.06	1.58	17.42	39
1971	1.05	0.57	0.60	1.16	0.87	1.77	4.00	4.27	2.74	1.47	0.62	2.98	22.10	13
1972	1.52	0.77	0.47	0.99	0.21	0.57	1.65	2.54	6.14	2.52	2.33	0.58	20.29	27
1973	1.18	0.23	0.27	0.11	0.34	2.20	3.62	1.32	1.69	3.74	2.28	2.55	19.53	29
1974	0.98	0.99	0.70	0.61	0.09	0.22	1.35	1.56	1.07	2.38	1.16	0.91	12.02	65
1975	2.13	0.26	0.08	0.84	0.59	1.36	2.20	2.47	4.70	1.01	0.63	0.14	16.41	44
1976	0.57	0.38	0.82	0.41	1.31	0.61	3.67	2.90	4.64	3.55	1.85	0.80	21.51	16
1977	0.29	0.32	0.20	0.44	0.20	1.41	1.84	2.05	2.77	4.50	3.25	2.00	19.27	30
1978	0.78	0.81	0.77	0.33	0.84	0.25	1.99	6.75	1.51	3.66	2.67	0.72	21.08	22
1979	0.39	0.64	0.66	0.46	0.45	0.38	0.87	1.51	3.35	6.37	3.48	0.19	18.75	32
1980	0.78	0.29	0.18	0.30	0.40	1.07	1.25	2.30	2.70	2.84	2.50	0.56	15.17	53
1981	1.76	0.42	0.71	0.07	0.15	0.39	0.82	6.16	1.02	4.20	1.46	0.32	17.48	38
1982	2.12	0.12	0.93	0.61	0.39	1.10	1.06	5.57	4.95	3.05	2.04	2.87	24.81	6
1983	1.20	0.67	0.46	0.22	0.07	1.33	0.76	2.70	2.61	2.19	2.48	0.54	15.23	52
1984	2.29	0.91	0.71	0.15	0.19	0.66	2.88	1.71	4.42	4.90	1.72	0.57	21.11	21
1985	0.68	0.59	0.40	0.37	0.11	0.99	1.02	1.01	1.10	2.30	0.78	2.55	11.90	66
1986	0.86	1.67	0.24	0.13	0.88	0.82	3.17	1.56	6.12	1.34	1.82	4.00	22.61	10
1987	1.99	1.04	0.03	0.06	1.89	1.67	0.32	3.98	1.06	1.25	1.45	0.72	15.46	49
1988	0.63	0.55	0.51	0.25	0.23	0.58	0.91	2.79	2.01	1.66	2.44	0.60	13.16	62
1989	0.42	0.99	0.31	0.04	0.64	0.84	1.31	2.13	1.79	2.37	2.05	4.96	17.85	34
1990	1.04	0.62	0.62	0.07	0.82	1.77	2.37	5.28	1.27	4.37	1.21	1.21	20.65	26
1991	0.92	0.30	0.00	0.38	1.07	0.57	3.23	6.15	3.75	1.48	2.26	1.10	21.21	20
1992	1.53	0.94	0.15	0.19	0.47	2.83	1.00	4.59	3.43	4.16	1.65	0.57	21.51	17
1993	0.92	0.41	1.21	0.96	1.39	1.24	2.32	3.73	9.82	3.72	2.08	1.22	29.02	3
1994	1.78	1.32	0.72	0.45	1.40	0.87	1.76	1.54	2.80	0.30	1.16	0.86	14.96	55
1995	6.46	0.68	1.08	0.12	1.06	1.27	2.30	10.23	5.34	2.66	1.42	1.44	34.06	1
1996	1.78	0.60	0.49	1.01	0.22	1.22	3.04	6.20	3.40	1.74	5.46	2.44	27.60	4
1997	4.87	0.65	1.27	0.52	0.57	0.56	4.20	5.12	2.20	4.63	3.66	1.45	29.70	2
1998	1.12	0.10	0.02	0.70	1.65	2.53	0.60	3.75	6.02	4.72	3.11	1.63	25.95	5
Mean 1961-90	0.99	0.54	0.51	0.37	0.53	0.96	1.88	3.13	3.31	3.11	1.85	1.47	18.63	

Measured (shaded) and estimated precipitation, in inches, for site 69, S & G Canyon near Pringle (433848103443200)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.22	0.64	0.01	0.23	0.31	0.70	0.81	1.89	1.66	1.19	2.55	0.42	13.63	60
1932	1.60	0.65	0.56	0.81	0.51	1.39	3.35	3.09	3.47	2.65	2.96	0.23	21.27	16
1933	1.36	0.10	0.30	0.41	0.48	1.05	3.32	5.67	0.86	2.20	4.69	0.52	20.96	17
1934	0.07	0.23	0.20	0.24	0.38	1.30	0.62	0.23	2.55	1.58	1.43	0.99	9.82	68
1935	2.08	0.19	0.51	0.15	0.48	0.99	1.73	6.39	2.44	0.81	0.60	1.20	17.57	33
1936	0.36	0.39	0.12	0.44	0.68	0.76	1.58	0.55	3.78	0.57	2.03	0.66	11.92	65
1937	0.81	1.07	0.33	0.49	0.39	1.29	0.41	1.95	3.22	2.64	0.62	0.53	13.75	58
1938	0.42	0.34	0.72	0.36	0.17	1.15	1.73	4.97	1.71	2.49	1.12	1.66	16.84	42
1939	0.44	0.73	0.19	0.20	0.33	0.99	0.64	2.20	2.21	1.24	4.15	1.31	14.63	56
1940	1.14	0.00	0.32	0.43	0.36	0.79	3.46	0.66	1.36	2.00	1.66	1.82	14.00	57
1941	1.14	0.30	0.38	0.15	0.12	0.91	4.92	1.65	3.62	2.18	3.82	1.47	20.66	19
1942	2.49	0.25	0.49	0.09	0.49	1.14	3.91	2.83	4.30	2.09	2.14	1.95	22.17	8
1943	1.71	0.33	0.26	0.51	0.40	1.08	4.20	3.52	4.49	1.79	0.70	0.36	19.35	26
1944	0.99	0.06	0.21	1.43	0.55	0.89	1.49	3.11	3.36	3.73	0.82	0.27	16.91	41
1945	0.61	0.95	0.55	0.49	0.54	1.69	0.84	2.24	3.33	1.82	2.44	1.68	17.18	39
1946	0.08	0.14	0.35	0.20	0.40	1.27	0.95	7.36	3.00	1.98	2.72	2.90	21.35	13
1947	1.82	0.21	0.45	0.60	0.04	0.66	1.83	2.86	8.15	2.62	2.68	0.20	22.12	9
1948	1.13	1.10	0.16	0.16	0.71	0.52	1.95	1.37	3.46	2.43	2.25	0.46	15.70	46
1949	1.05	0.48	0.42	1.50	0.03	0.42	1.65	3.81	2.99	2.44	1.36	1.07	17.22	38
1950	0.59	0.07	0.62	0.32	0.12	1.49	1.46	1.71	1.85	1.88	2.24	2.41	14.76	54
1951	0.39	0.06	0.16	0.21	0.38	0.44	1.20	1.26	5.07	2.58	1.18	2.42	15.35	52
1952	1.02	0.07	0.40	0.02	0.29	0.98	0.12	5.51	3.41	2.06	1.39	0.24	15.51	48
1953	0.19	0.46	0.11	1.33	1.36	1.22	2.00	0.75	2.57	2.01	2.48	0.28	14.76	55
1954	0.30	0.62	0.07	0.07	0.60	0.97	0.27	2.29	2.29	1.92	1.55	0.71	11.66	66
1955	2.08	0.30	0.42	0.38	0.62	1.16	0.48	2.74	2.43	2.65	3.66	1.67	18.59	32
1956	0.24	0.77	0.84	0.39	0.56	0.52	1.66	3.51	1.05	2.39	3.06	0.16	15.15	53
1957	0.36	1.03	0.53	0.50	0.17	1.23	2.57	6.13	4.52	1.36	1.05	0.67	20.12	23
1958	1.35	0.25	0.19	0.14	0.80	0.81	2.94	1.22	3.47	5.42	0.44	0.07	17.10	40
1959	0.17	0.45	0.27	0.35	0.42	1.07	1.42	2.86	4.87	2.31	0.53	2.72	17.44	37
1960	0.19	0.87	0.11	0.29	0.52	0.31	1.15	1.90	2.75	1.06	0.98	0.70	10.83	67
1961	0.05	0.66	0.51	0.02	0.38	1.22	1.25	2.07	1.66	3.34	0.99	1.58	13.73	59
1962	0.91	0.26	0.17	0.33	1.01	0.61	0.35	6.89	4.51	5.47	0.49	1.02	22.02	10
1963	1.50	0.17	0.17	0.58	0.25	1.32	3.49	2.91	5.96	2.64	1.77	2.82	23.58	4
1964	0.92	0.05	0.32	0.34	0.36	0.95	1.32	3.49	4.41	1.71	1.00	0.54	15.41	49
1965	0.39	0.27	1.50	0.44	0.35	0.77	1.27	7.17	4.77	3.29	1.52	1.77	23.51	5
1966	0.21	0.25	0.29	0.23	0.78	0.40	3.89	0.09	1.01	3.73	3.02	1.69	15.59	47
1967	0.87	0.63	0.86	0.32	0.32	0.90	2.19	3.11	6.88	1.42	1.88	1.05	20.43	22
1968	0.38	0.30	0.65	0.53	0.19	0.77	1.09	2.68	5.54	4.16	3.21	1.15	20.65	20
1969	0.20	0.41	0.67	0.39	1.15	0.36	1.16	2.36	2.98	5.48	1.41	0.94	17.51	35
1970	1.34	0.22	0.26	0.22	0.26	1.23	2.68	2.12	2.90	2.15	1.82	1.51	16.71	43
1971	1.06	0.58	0.58	1.01	0.83	1.61	3.90	4.08	2.94	1.51	0.61	2.99	21.70	11
1972	1.54	0.78	0.41	0.88	0.20	0.57	1.70	2.50	6.36	2.49	2.42	0.61	20.46	21
1973	1.16	0.23	0.27	0.11	0.34	2.28	3.58	1.33	1.87	3.65	2.35	2.54	19.71	25
1974	0.95	1.00	0.67	0.58	0.09	0.22	1.48	1.59	0.99	2.71	1.26	0.97	12.51	63
1975	2.17	0.26	0.11	0.84	0.58	1.34	2.39	2.53	4.68	0.97	0.62	0.14	16.63	44
1976	0.58	0.38	0.82	0.39	1.34	0.59	3.47	2.98	4.75	3.46	1.88	0.83	21.47	12
1977	0.27	0.34	0.20	0.43	0.22	1.35	1.81	1.93	2.81	4.54	3.30	1.94	19.14	28
1978	0.75	0.81	0.79	0.32	0.83	0.25	2.02	6.98	1.51	3.67	2.63	0.75	21.31	14
1979	0.37	0.66	0.66	0.45	0.45	0.38	0.98	1.47	3.49	6.61	3.43	0.19	19.14	29
1980	0.78	0.31	0.20	0.30	0.39	1.04	1.28	2.31	2.75	2.94	2.51	0.59	15.40	50
1981	1.74	0.43	0.71	0.07	0.14	0.39	0.83	6.19	1.01	4.16	1.50	0.34	17.51	36
1982	2.16	0.10	0.94	0.62	0.39	1.09	1.05	5.54	4.95	3.14	2.08	2.93	24.99	2
1983	1.27	0.74	0.52	0.26	0.07	1.31	0.82	2.48	3.04	2.09	2.68	0.57	15.85	45
1984	2.28	0.94	0.81	0.13	0.19	0.60	2.92	1.81	4.47	4.85	1.68	0.63	21.31	15
1985	0.69	0.62	0.39	0.36	0.11	1.05	0.98	1.05	1.14	2.33	0.74	2.68	12.14	64
1986	0.87	1.65	0.25	0.14	0.90	0.79	3.18	1.59	5.79	1.33	1.76	3.98	22.23	7
1987	1.86	1.01	0.03	0.06	1.88	1.64	0.31	4.02	1.06	1.31	1.45	0.75	15.38	51
1988	0.66	0.56	0.52	0.27	0.23	0.61	0.93	2.73	2.06	1.75	2.40	0.58	13.30	61
1989	0.32	0.84	0.32	0.11	0.69	0.88	1.49	2.20	1.89	2.18	2.33	4.31	17.56	34
1990	1.19	0.68	0.68	0.04	0.78	1.64	2.68	3.72	1.23	3.91	1.28	1.26	19.09	30
1991	0.90	0.60	0.49	0.38	0.90	0.74	2.50	5.99	3.41	1.14	1.75	0.49	19.29	27
1992	1.30	0.82	0.08	0.15	0.36	2.22	1.03	4.03	2.85	3.89	1.69	0.44	18.86	31
1993	0.56	0.47	1.09	0.77	1.35	1.02	2.14	2.37	7.73	3.91	2.25	0.97	24.63	3
1994	1.63	0.80	0.68	0.54	1.14	0.80	1.71	1.78	1.86	0.57	1.22	0.11	12.84	62
1995	4.82	0.81	0.84	1.17	0.95	0.91	1.57	5.14	4.61	1.82	1.04	1.52	25.20	1
1996	1.97	1.27	0.46	0.99	0.22	1.27	2.74	5.03	1.66	1.49	3.63	1.85	22.58	6
1997	3.60	0.53	1.13	0.51	0.64	0.45	3.18	1.52	1.49	4.27	1.39	2.21	20.92	18
1998	1.10	0.16	0.15	0.62	1.27	2.28	0.63	2.44	4.21	2.42	3.28	1.53	20.09	24
Mean 1961-90	0.98	0.54	0.51	0.36	0.52	0.94	1.88	3.06	3.31	3.10	1.87	1.455	18.53	

Measured (shaded) and estimated precipitation, in inches, for site 70, Racetrack Butte near Fairburn (434002103214500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.46	0.76	0.00	0.30	0.33	0.66	0.86	1.98	1.61	1.29	2.67	0.55	14.47	54
1932	1.69	0.66	0.72	0.81	0.79	2.13	3.24	3.16	3.09	2.48	2.71	0.10	21.58	13
1933	1.21	0.06	0.32	0.34	0.45	1.34	3.59	5.78	0.68	2.02	5.67	0.50	21.96	8
1934	0.06	0.28	0.24	0.25	0.44	1.48	0.61	0.21	2.27	1.88	1.19	0.92	9.83	68
1935	2.01	0.19	0.47	0.15	0.50	1.29	2.07	7.50	2.57	0.56	0.71	1.27	19.29	25
1936	0.40	0.44	0.18	0.43	0.80	0.80	1.59	0.68	3.66	0.27	1.87	0.86	11.98	61
1937	0.74	1.14	0.45	0.51	0.41	1.56	0.47	1.84	4.06	2.46	0.43	0.56	14.63	52
1938	0.55	0.35	0.57	0.31	0.14	1.19	1.76	4.96	1.76	2.68	1.07	2.10	17.44	36
1939	0.44	0.71	0.14	0.09	0.39	1.04	0.54	2.21	2.00	0.89	3.90	1.35	13.70	58
1940	1.12	0.00	0.29	0.44	0.42	0.77	3.95	0.70	1.13	2.25	1.61	1.80	14.48	53
1941	1.06	0.30	0.32	0.15	0.11	0.91	5.51	1.41	3.52	1.92	3.33	1.44	19.98	22
1942	2.10	0.19	0.41	0.04	0.41	0.99	3.91	3.37	3.85	2.37	1.64	1.58	20.86	16
1943	1.52	0.29	0.20	0.42	0.37	0.99	4.33	3.42	5.03	1.56	0.49	0.25	18.87	27
1944	1.05	0.00	0.26	1.50	0.48	0.68	1.78	3.47	3.45	3.98	0.87	0.13	17.65	33
1945	0.68	0.78	0.47	0.41	0.41	1.97	0.65	1.89	3.72	1.57	3.05	1.44	17.04	40
1946	0.04	0.12	0.20	0.13	0.23	1.05	0.90	7.27	3.18	2.01	1.95	2.93	20.01	21
1947	1.59	0.11	0.26	0.50	0.01	0.54	1.97	2.78	8.63	1.81	2.16	0.29	20.65	18
1948	1.00	0.96	0.19	0.26	0.42	0.39	1.71	1.86	4.14	2.31	1.88	0.27	15.39	49
1949	1.07	0.42	0.61	1.52	0.05	0.38	1.48	3.94	2.81	2.27	1.90	1.03	17.48	35
1950	0.64	0.03	0.49	0.24	0.12	1.54	1.54	1.53	1.47	2.17	1.86	2.47	14.10	55
1951	0.35	0.10	0.13	0.23	0.23	0.49	0.78	1.78	5.17	2.66	1.70	2.18	15.80	47
1952	0.49	0.08	0.41	0.06	0.57	0.87	0.21	5.83	3.17	1.58	1.96	0.22	15.45	48
1953	0.17	0.60	0.14	0.75	1.40	1.12	3.02	1.22	2.35	1.12	2.61	0.79	15.29	50
1954	0.21	0.65	0.13	0.20	0.53	1.27	0.55	2.37	1.89	1.45	2.04	0.57	11.86	62
1955	1.86	0.48	0.20	0.29	1.10	1.33	0.81	2.22	2.87	2.13	2.79	2.58	18.66	30
1956	0.20	0.56	0.64	0.51	0.43	0.73	1.11	3.98	1.62	3.09	3.02	0.40	16.29	45
1957	0.23	1.25	0.44	0.37	0.11	0.59	2.50	7.01	4.36	1.94	1.33	0.77	20.90	15
1958	1.75	0.23	0.16	0.17	0.82	1.08	3.00	1.92	3.22	5.58	0.30	0.04	18.27	32
1959	0.10	0.37	0.30	0.35	0.41	0.89	1.57	2.67	4.70	2.02	0.44	2.89	16.71	44
1960	0.18	0.76	0.12	0.34	0.50	0.32	1.07	1.52	2.95	1.01	1.03	0.57	10.37	67
1961	0.06	0.67	0.61	0.02	0.38	1.18	1.08	2.38	1.65	2.64	0.72	1.38	12.77	59
1962	0.94	0.21	0.16	0.31	1.04	0.71	0.35	7.74	4.43	5.81	0.50	1.12	23.32	6
1963	1.80	0.20	0.13	0.58	0.27	1.40	3.65	2.52	6.31	3.17	1.31	2.68	24.02	4
1964	0.90	0.09	0.33	0.34	0.38	0.97	1.43	3.51	4.95	2.83	0.90	0.51	17.14	39
1965	0.53	0.28	1.22	0.49	0.31	0.76	1.37	6.84	4.83	3.49	1.67	1.81	23.60	5
1966	0.31	0.21	0.29	0.22	0.84	0.47	4.43	0.11	1.48	3.47	3.39	1.94	17.16	38
1967	0.84	0.66	0.85	0.31	0.32	0.91	2.49	3.37	7.41	1.48	1.76	1.23	21.63	11
1968	0.31	0.37	0.76	0.53	0.24	0.75	0.99	2.58	6.30	3.10	3.25	1.26	20.44	19
1969	0.19	0.40	0.65	0.35	1.02	0.41	0.99	2.34	3.34	5.47	0.93	0.93	17.02	41
1970	1.47	0.24	0.28	0.21	0.29	1.28	3.18	2.82	2.92	1.93	2.00	1.93	18.55	31
1971	1.02	0.53	0.64	1.27	0.85	1.76	4.32	3.99	2.59	1.32	0.63	2.79	21.71	9
1972	1.49	0.77	0.44	0.91	0.21	0.55	1.79	2.88	5.49	2.69	2.29	0.56	20.07	20
1973	1.02	0.26	0.41	0.08	0.33	2.04	3.61	1.46	1.27	3.77	2.07	2.35	18.67	29
1974	1.02	0.91	0.60	0.55	0.09	0.21	0.97	1.51	1.20	2.17	1.00	0.85	11.08	64
1975	2.04	0.26	0.09	0.92	0.58	1.45	1.69	2.33	4.78	1.12	0.87	0.11	16.24	46
1976	0.45	0.40	0.77	0.43	1.07	0.66	3.71	2.81	5.15	3.61	1.66	0.65	21.37	14
1977	0.30	0.29	0.20	0.42	0.12	1.48	1.95	2.62	2.67	4.41	2.99	2.15	19.60	23
1978	0.86	0.76	0.74	0.40	0.83	0.27	1.75	5.62	1.51	3.70	2.60	0.45	19.49	24
1979	0.41	0.61	0.52	0.41	0.39	0.34	0.83	1.54	2.79	5.75	3.01	0.18	16.78	43
1980	0.77	0.22	0.10	0.29	0.44	1.09	1.12	2.27	2.56	2.30	2.42	0.51	14.09	57
1981	2.05	0.38	0.72	0.06	0.14	0.36	0.72	5.85	1.07	4.50	1.31	0.25	17.41	37
1982	1.67	0.14	0.85	0.54	0.35	1.10	1.05	5.78	4.73	2.52	1.85	2.51	23.09	7
1983	1.19	0.67	0.53	0.16	0.06	1.27	0.63	2.97	2.36	1.86	1.90	0.50	14.10	56
1984	2.31	0.40	0.17	0.15	0.13	0.63	2.24	1.34	4.63	5.87	0.95	0.27	19.09	26
1985	0.28	0.64	0.36	0.38	0.16	0.60	1.16	0.52	0.75	2.60	1.74	1.39	10.58	66
1986	0.54	1.10	0.17	0.10	0.78	0.62	2.63	1.40	7.58	1.55	0.98	4.17	21.62	12
1987	1.80	0.93	0.00	0.04	1.58	1.36	0.60	2.84	1.03	1.04	0.88	0.63	12.73	60
1988	0.35	0.61	0.40	0.10	0.19	0.20	0.86	3.00	2.30	1.09	1.95	0.47	11.52	63
1989	0.47	1.01	0.38	0.03	0.37	0.65	1.13	1.96	1.09	2.23	1.93	3.66	14.91	51
1990	0.98	0.30	0.52	0.03	0.55	1.23	1.34	5.25	1.75	2.87	0.85	1.33	17.00	42
1991	0.66	0.98	0.47	0.13	0.79	0.31	4.48	4.31	3.64	1.04	0.89	1.07	18.77	28
1992	1.08	1.16	0.00	0.15	0.33	2.05	0.82	3.44	3.47	3.71	1.28	0.10	17.59	34
1993	0.51	0.26	0.79	0.75	1.17	1.08	2.50	2.92	5.02	3.60	1.74	1.33	21.67	10
1994	1.30	0.78	0.41	0.40	1.08	0.66	0.98	1.82	0.35	1.45	1.25	0.58	11.06	65
1995	4.19	0.46	0.91	0.13	0.83	1.01	2.71	6.89	5.71	3.45	0.68	1.52	28.49	1
1996	2.80	0.97	0.27	0.72	0.22	0.98	2.24	5.62	2.47	2.33	3.31	2.65	24.58	3
1997	2.47	0.68	1.06	0.46	0.70	0.41	2.81	4.45	1.24	3.97	1.20	1.23	20.68	17
1998	0.92	0.05	0.10	0.76	1.54	1.55	0.87	4.88	6.17	4.64	3.93	1.71	27.12	2
Mean 1961-90	0.95	0.48	0.46	0.35	0.48	0.89	1.80	3.07	3.36	3.01	1.68	1.35	17.89	

Measured (shaded) and estimated precipitation, in inches, for site 71, Custer State Park at Mt. Coolidge (434444103282000)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.47	0.62	0.03	0.19	0.32	0.62	0.95	1.85	1.78	1.10	3.01	0.26	14.20	60
1932	1.68	0.74	0.57	0.83	0.32	0.87	3.53	3.23	3.56	2.48	3.31	0.20	21.32	24
1933	1.47	0.08	0.28	0.46	0.35	0.99	3.34	6.01	0.66	2.49	4.65	0.52	21.30	25
1934	0.03	0.20	0.17	0.22	0.29	1.26	0.64	0.19	2.48	1.69	1.21	0.97	9.35	68
1935	2.51	0.20	0.54	0.13	0.50	0.84	1.83	6.10	2.68	0.69	0.43	1.25	17.70	42
1936	0.29	0.33	0.10	0.41	0.58	0.85	1.84	0.60	4.24	0.44	2.45	0.62	12.75	63
1937	0.85	1.14	0.25	0.46	0.39	1.20	0.34	2.20	2.66	2.47	0.63	0.53	13.12	62
1938	0.39	0.29	0.78	0.28	0.20	1.08	1.86	5.27	1.87	2.56	1.14	1.29	17.01	48
1939	0.51	0.79	0.16	0.18	0.28	1.11	0.63	2.36	1.84	1.32	4.38	1.45	15.01	57
1940	1.24	0.00	0.32	0.38	0.32	0.79	3.19	0.62	1.41	2.13	2.17	1.87	14.44	58
1941	1.20	0.29	0.40	0.12	0.11	0.91	5.07	1.68	3.70	1.95	3.69	1.42	20.54	26
1942	2.91	0.22	0.48	0.09	0.56	1.16	4.17	2.93	4.59	1.70	2.12	1.93	22.86	15
1943	1.65	0.28	0.25	0.53	0.42	1.10	4.60	3.66	4.86	1.71	0.48	0.34	19.88	31
1944	0.93	0.05	0.20	1.59	0.53	0.88	1.42	3.07	3.47	3.85	0.75	0.25	16.99	49
1945	0.70	0.99	0.53	0.46	0.50	1.91	0.86	2.10	3.52	1.61	2.68	1.54	17.40	45
1946	0.11	0.15	0.25	0.18	0.35	1.34	0.83	7.49	2.98	2.07	3.06	2.85	21.66	23
1947	1.85	0.19	0.37	0.64	0.03	0.75	1.95	2.91	8.20	2.45	3.19	0.18	22.71	17
1948	1.18	0.94	0.16	0.22	0.61	0.54	1.83	1.45	3.61	2.40	1.71	0.46	15.11	55
1949	0.95	0.41	0.79	1.34	0.04	0.46	1.41	4.64	2.98	2.17	1.79	1.10	18.08	38
1950	0.73	0.02	0.46	0.27	0.18	1.55	1.46	1.77	1.57	2.54	1.95	2.52	15.02	56
1951	0.36	0.13	0.11	0.14	0.23	0.48	0.93	1.73	4.86	2.63	1.66	2.01	15.27	54
1952	0.73	0.11	0.45	0.07	0.38	0.87	0.15	7.01	3.25	1.95	2.12	0.19	17.28	47
1953	0.18	0.85	0.15	0.47	1.69	1.42	3.47	1.23	2.63	1.05	3.60	0.78	17.52	44
1954	0.26	0.62	0.22	0.12	0.52	1.58	0.53	2.33	0.91	2.18	1.98	0.39	11.64	65
1955	1.78	0.60	0.28	0.25	1.33	1.55	0.84	2.49	2.62	2.21	2.02	1.71	17.68	43
1956	0.19	0.70	0.63	0.46	0.55	0.78	0.74	4.58	2.13	3.49	3.37	0.30	17.92	40
1957	0.25	1.82	0.56	0.32	0.04	0.37	2.76	8.35	5.31	2.29	1.63	0.51	24.21	10
1958	1.90	0.27	0.25	0.15	0.96	0.97	3.41	1.57	3.26	4.80	0.37	0.00	17.91	41
1959	0.02	0.49	0.27	0.36	0.50	1.20	1.95	3.12	5.59	2.52	0.43	2.86	19.31	35
1960	0.19	0.83	0.09	0.32	0.46	0.39	1.01	1.12	3.60	1.07	0.79	0.52	10.39	66
1961	0.01	0.49	0.67	0.02	0.56	1.40	1.49	2.57	1.49	3.26	1.14	1.27	14.37	59
1962	1.48	0.18	0.16	0.38	1.03	0.39	0.35	8.63	4.36	6.15	0.45	1.26	24.82	7
1963	1.93	0.17	0.20	0.75	0.09	1.82	2.92	3.35	5.44	2.81	1.38	2.35	23.21	13
1964	1.03	0.13	0.40	0.33	0.60	1.51	1.54	4.32	5.43	2.60	0.77	0.56	19.22	37
1965	0.30	0.24	1.71	0.36	0.51	0.71	1.22	6.04	5.89	3.82	1.71	1.80	24.31	9
1966	0.22	0.21	0.32	0.25	1.08	0.58	7.43	0.00	1.58	2.67	3.73	1.66	19.73	32
1967	0.78	0.67	1.00	0.28	0.33	0.89	2.68	3.16	7.36	1.42	2.61	1.65	22.83	16
1968	0.35	0.48	0.71	0.46	0.19	1.08	1.17	2.76	6.22	3.65	3.75	1.30	22.12	21
1969	0.17	0.42	0.81	0.53	1.07	0.44	1.15	2.99	3.45	6.15	1.36	0.91	19.45	34
1970	1.50	0.29	0.31	0.20	0.27	1.37	2.97	2.36	2.84	2.52	3.51	1.38	19.52	33
1971	1.13	0.65	0.75	1.93	1.04	2.90	4.51	3.83	2.88	1.30	0.43	2.99	24.34	8
1972	1.49	0.83	0.73	1.78	0.22	0.44	1.53	2.24	7.14	3.12	2.66	0.46	22.64	18
1973	1.19	0.18	0.18	0.02	0.26	2.09	4.05	1.19	1.50	4.40	2.39	2.60	20.05	28
1974	0.74	1.04	0.85	0.68	0.08	0.20	0.52	1.71	0.90	1.74	0.93	0.15	9.54	67
1975	1.74	0.21	0.09	0.88	0.58	1.36	2.58	2.56	4.65	0.87	0.81	0.13	16.46	50
1976	0.54	0.37	0.79	0.33	1.37	0.56	3.71	3.34	5.42	3.21	2.01	0.82	22.47	20
1977	0.22	0.37	0.21	0.40	0.26	1.54	1.69	1.78	2.91	4.76	3.29	1.82	19.25	36
1978	0.72	0.76	0.86	0.30	0.88	0.22	2.03	7.64	1.55	3.92	2.34	0.74	21.96	22
1979	0.32	0.72	0.62	0.39	0.43	0.38	1.02	1.57	3.81	7.48	3.01	0.14	19.89	29
1980	0.76	0.34	0.24	0.29	0.38	0.99	1.39	2.37	2.89	3.16	2.60	0.65	16.06	51
1981	1.87	0.40	0.71	0.08	0.12	0.37	0.84	6.43	1.03	4.06	1.67	0.37	17.95	39
1982	2.15	0.09	0.94	0.64	0.41	1.07	1.01	5.35	4.92	3.30	2.22	2.90	25.00	6
1983	1.57	0.46	0.61	0.19	0.10	1.49	0.77	3.08	2.58	1.60	2.97	0.60	16.02	52
1984	2.68	0.95	0.49	0.18	0.22	0.72	2.70	1.10	4.22	5.86	2.99	0.50	22.61	19
1985	0.70	0.67	0.57	0.41	0.08	1.13	1.13	1.23	0.85	1.91	0.50	2.63	11.81	64
1986	1.19	2.03	0.20	0.10	0.93	1.15	3.30	1.56	7.61	0.98	2.93	4.19	26.17	3
1987	3.15	1.34	0.02	0.06	2.29	1.86	0.31	3.71	1.07	1.12	1.87	0.56	17.36	46
1988	0.79	0.48	0.53	0.23	0.26	0.87	1.01	2.79	1.40	1.60	2.70	0.64	13.30	61
1989	0.41	1.21	0.32	0.07	0.88	0.86	1.18	1.72	1.89	2.58	2.81	5.96	19.89	30
1990	0.93	0.54	0.83	0.08	0.84	1.93	2.91	6.00	1.37	5.11	1.61	1.02	23.17	14
1991	0.74	0.96	0.58	0.22	0.80	0.59	4.29	7.84	4.15	2.28	1.46	1.26	25.17	5
1992	1.18	1.53	0.00	0.14	0.34	1.97	0.86	3.44	4.14	4.58	1.47	0.54	20.19	27
1993	0.84	0.29	0.86	1.03	1.24	1.40	3.23	3.48	6.07	2.72	3.02	1.51	25.69	4
1994	2.02	0.66	0.55	0.37	1.02	0.91	1.92	1.98	1.11	1.65	2.58	0.77	15.54	53
1995	5.41	0.51	0.79	0.06	0.93	1.34	3.04	10.80	6.10	4.04	0.66	1.54	35.22	1
1996	2.13	0.60	0.21	0.95	0.19	0.94	2.46	5.73	2.39	1.99	3.80	2.59	23.98	11
1997	3.70	0.52	1.18	0.34	0.87	0.66	2.82	5.48	1.69	4.43	3.34	1.44	26.47	2
1998	0.85	0.08	0.31	0.77	1.24	2.88	0.82	4.18	4.80	2.51	3.04	2.26	23.74	12
Mean 1961-90	1.07	0.56	0.56	0.42	0.58	1.08	2.04	3.25	3.49	3.24	2.11	1.47	19.85	

Measured (shaded) and estimated precipitation, in inches, for site 72, Mt. Coolidge near Custer (434534103290500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.50	0.62	0.02	0.18	0.32	0.60	0.96	1.86	1.79	1.08	3.08	0.25	14.26	60
1932	1.70	0.74	0.57	0.83	0.31	0.82	3.50	3.19	3.61	2.45	3.34	0.18	21.24	25
1933	1.47	0.07	0.28	0.47	0.34	0.97	3.32	6.04	0.61	2.51	4.66	0.53	21.27	24
1934	0.02	0.20	0.16	0.21	0.28	1.27	0.63	0.18	2.42	1.73	1.21	0.98	9.29	68
1935	2.57	0.20	0.54	0.13	0.50	0.82	1.82	6.06	2.67	0.63	0.40	1.28	17.62	43
1936	0.29	0.32	0.09	0.41	0.58	0.85	1.88	0.61	4.35	0.43	2.52	0.62	12.95	63
1937	0.86	1.15	0.25	0.46	0.39	1.18	0.33	2.21	2.57	2.43	0.63	0.52	12.98	62
1938	0.39	0.29	0.79	0.27	0.21	1.08	1.84	5.34	1.86	2.58	1.17	1.26	17.08	48
1939	0.52	0.80	0.16	0.17	0.28	1.12	0.62	2.40	1.81	1.31	4.44	1.48	15.11	56
1940	1.25	0.00	0.32	0.38	0.32	0.79	3.19	0.61	1.40	2.17	2.22	1.89	14.54	58
1941	1.21	0.29	0.40	0.12	0.11	0.92	5.05	1.70	3.67	1.92	3.79	1.41	20.59	26
1942	3.02	0.23	0.50	0.10	0.59	1.20	4.21	2.85	4.72	1.63	2.20	1.99	23.24	14
1943	1.68	0.27	0.25	0.52	0.43	1.11	4.69	3.73	4.84	1.71	0.48	0.36	20.07	28
1944	0.91	0.04	0.19	1.59	0.55	0.89	1.39	3.02	3.44	3.84	0.75	0.27	16.88	49
1945	0.69	1.00	0.54	0.46	0.51	1.89	0.89	2.11	3.49	1.62	2.59	1.54	17.33	46
1946	0.11	0.16	0.26	0.19	0.37	1.37	0.79	7.54	2.90	2.07	3.24	2.81	21.81	23
1947	1.87	0.20	0.39	0.66	0.03	0.76	1.95	2.96	8.19	2.59	3.37	0.15	23.12	16
1948	1.20	0.95	0.16	0.20	0.64	0.58	1.86	1.39	3.50	2.41	1.72	0.49	15.10	57
1949	0.94	0.41	0.82	1.32	0.04	0.47	1.40	4.69	3.02	2.08	1.74	1.11	18.04	38
1950	0.74	0.02	0.46	0.28	0.20	1.55	1.46	1.81	1.57	2.59	1.95	2.54	15.17	54
1951	0.37	0.13	0.11	0.13	0.23	0.47	0.97	1.74	4.84	2.62	1.58	1.98	15.17	55
1952	0.77	0.12	0.45	0.07	0.35	0.89	0.14	7.11	3.26	1.98	2.12	0.17	17.43	45
1953	0.18	0.86	0.15	0.46	1.70	1.43	3.49	1.23	2.63	1.04	3.61	0.79	17.57	44
1954	0.26	0.62	0.22	0.12	0.52	1.59	0.53	2.33	0.88	2.20	1.97	0.38	11.62	65
1955	1.78	0.61	0.28	0.25	1.34	1.56	0.84	2.50	2.60	2.21	2.00	1.70	17.67	42
1956	0.19	0.71	0.63	0.46	0.55	0.78	0.72	4.60	2.15	3.51	3.38	0.30	17.98	39
1957	0.25	1.83	0.56	0.32	0.04	0.36	2.76	8.41	5.33	2.31	1.64	0.50	24.31	9
1958	1.92	0.27	0.25	0.15	0.97	0.97	3.42	1.56	3.26	4.81	0.37	0.00	17.95	41
1959	0.02	0.50	0.27	0.36	0.50	1.20	1.96	3.13	5.61	2.53	0.43	2.86	19.37	35
1960	0.19	0.83	0.09	0.32	0.46	0.39	1.00	1.09	3.62	1.07	0.78	0.51	10.35	66
1961	0.01	0.49	0.68	0.02	0.57	1.41	1.50	2.59	1.48	3.27	1.14	1.26	14.42	59
1962	1.50	0.18	0.16	0.39	1.03	0.38	0.35	8.65	4.34	6.16	0.45	1.26	24.85	7
1963	1.95	0.17	0.20	0.76	0.08	1.83	2.87	3.38	5.41	2.82	1.36	2.34	23.17	15
1964	1.03	0.13	0.40	0.33	0.61	1.54	1.55	4.35	5.46	2.61	0.76	0.55	19.32	36
1965	0.30	0.24	1.71	0.35	0.52	0.71	1.21	5.97	5.91	3.82	1.70	1.80	24.24	10
1966	0.22	0.21	0.32	0.25	1.09	0.58	7.56	0.00	1.60	2.63	3.75	1.66	19.87	31
1967	0.78	0.67	1.00	0.29	0.33	0.91	2.69	3.16	7.37	1.41	2.63	1.67	22.91	17
1968	0.35	0.49	0.71	0.45	0.19	1.10	1.19	2.77	6.24	3.65	3.76	1.30	22.20	21
1969	0.17	0.42	0.82	0.54	1.07	0.44	1.14	3.01	3.44	6.16	1.36	0.91	19.48	34
1970	1.51	0.29	0.31	0.20	0.27	1.35	2.96	2.33	2.83	2.54	3.58	1.37	19.54	33
1971	1.13	0.66	0.76	1.96	1.05	2.94	4.51	3.81	2.88	1.29	0.41	2.99	24.39	8
1972	1.49	0.82	0.74	1.82	0.22	0.44	1.51	2.22	7.10	3.13	2.64	0.46	22.59	18
1973	1.20	0.18	0.17	0.02	0.26	2.08	4.07	1.18	1.48	4.42	2.39	2.62	20.07	29
1974	0.74	1.06	0.86	0.69	0.08	0.20	0.50	1.73	0.90	1.69	0.91	0.12	9.48	67
1975	1.73	0.21	0.09	0.88	0.57	1.37	2.68	2.59	4.65	0.81	0.79	0.13	16.50	50
1976	0.56	0.37	0.80	0.34	1.43	0.56	3.71	3.34	5.36	3.16	2.04	0.83	22.50	20
1977	0.22	0.37	0.21	0.41	0.27	1.55	1.67	1.73	2.90	4.80	3.37	1.78	19.28	37
1978	0.70	0.77	0.87	0.29	0.89	0.22	2.02	7.77	1.55	3.92	2.37	0.78	22.15	22
1979	0.31	0.73	0.63	0.40	0.44	0.39	1.03	1.57	3.85	7.52	3.06	0.14	20.07	30
1980	0.77	0.36	0.26	0.29	0.39	0.99	1.42	2.37	2.95	3.24	2.57	0.65	16.26	52
1981	1.83	0.41	0.74	0.08	0.12	0.39	0.87	6.44	1.01	3.98	1.71	0.38	17.96	40
1982	2.19	0.09	0.96	0.65	0.42	1.08	1.02	5.32	5.01	3.43	2.28	2.99	25.44	5
1983	1.58	0.46	0.61	0.20	0.10	1.50	0.78	3.08	2.64	1.69	3.08	0.61	16.33	51
1984	2.67	0.95	0.50	0.18	0.22	0.70	2.70	1.13	4.26	5.84	2.93	0.51	22.59	19
1985	0.69	0.67	0.56	0.41	0.08	1.13	1.12	1.22	0.86	1.92	0.52	2.63	11.81	64
1986	1.17	2.02	0.21	0.10	0.93	1.13	3.30	1.56	7.54	0.99	2.88	4.21	26.04	3
1987	3.09	1.33	0.02	0.06	2.27	1.85	0.31	3.72	1.07	1.14	1.86	0.57	17.29	47
1988	0.79	0.48	0.53	0.23	0.26	0.86	1.01	2.78	1.45	1.61	2.67	0.63	13.30	61
1989	0.41	1.21	0.32	0.07	0.87	0.86	1.19	1.80	1.93	2.52	2.85	5.64	19.67	32
1990	0.97	0.55	0.81	0.07	0.83	1.96	3.00	5.96	1.33	5.32	1.66	1.02	23.48	12
1991	0.76	0.97	0.57	0.22	0.80	0.56	4.33	7.87	4.11	2.35	1.46	1.24	25.24	6
1992	1.13	1.53	0.00	0.14	0.34	1.93	0.83	3.48	4.12	4.66	1.44	0.57	20.17	27
1993	0.84	0.28	0.84	1.01	1.24	1.38	3.11	3.46	6.01	2.73	3.02	1.55	25.47	4
1994	1.93	0.63	0.54	0.37	1.03	0.93	1.94	2.03	1.01	1.66	2.47	0.71	15.25	53
1995	5.45	0.49	0.79	0.06	0.93	1.31	3.04	10.97	6.17	4.10	0.67	1.54	35.52	1
1996	2.05	0.60	0.21	0.95	0.19	0.88	2.48	5.55	2.04	1.97	3.72	2.61	23.25	13
1997	3.69	0.51	1.17	0.34	0.87	0.66	2.78	5.41	1.63	4.22	3.40	1.43	26.11	2
1998	0.86	0.08	0.30	0.77	1.23	2.91	0.83	4.18	4.74	2.45	3.01	2.29	23.65	11
Mean 1961-90	1.07	0.57	0.57	0.42	0.58	1.08	2.05	3.25	3.49	3.25	2.12	1.46	19.91	

Measured (shaded) and estimated precipitation, in inches, for site 73, Road Camp at Custer State Park (434638103253500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.38	0.64	0.04	0.22	0.32	0.68	0.90	1.79	1.78	1.17	2.79	0.29	14.00	59
1932	1.61	0.74	0.56	0.83	0.34	0.92	3.64	3.36	3.39	2.57	3.26	0.25	21.47	20
1933	1.51	0.09	0.29	0.44	0.38	1.03	3.36	5.93	0.83	2.45	4.51	0.50	21.32	21
1934	0.04	0.21	0.19	0.23	0.31	1.20	0.68	0.23	2.69	1.57	1.20	0.95	9.50	68
1935	2.36	0.23	0.53	0.14	0.50	0.88	1.85	6.14	2.69	0.89	0.48	1.16	17.85	41
1936	0.30	0.34	0.12	0.43	0.59	0.84	1.75	0.56	3.92	0.47	2.27	0.61	12.20	63
1937	0.82	1.09	0.24	0.44	0.37	1.23	0.37	2.21	2.82	2.60	0.63	0.59	13.41	61
1938	0.37	0.29	0.77	0.31	0.19	1.06	1.95	5.04	1.93	2.48	1.06	1.33	16.78	48
1939	0.48	0.76	0.18	0.21	0.28	1.07	0.67	2.24	1.93	1.38	4.18	1.38	14.76	57
1940	1.22	0.00	0.31	0.37	0.31	0.81	3.16	0.61	1.48	1.99	2.04	1.83	14.13	58
1941	1.17	0.28	0.38	0.12	0.10	0.89	5.11	1.66	3.83	2.04	3.28	1.46	20.32	26
1942	2.57	0.19	0.43	0.06	0.48	1.04	4.07	3.20	4.17	1.88	1.83	1.72	21.64	18
1943	1.55	0.29	0.24	0.54	0.41	1.06	4.30	3.43	4.96	1.67	0.44	0.26	19.15	33
1944	0.98	0.08	0.22	1.57	0.48	0.82	1.50	3.20	3.59	3.84	0.72	0.20	17.20	46
1945	0.73	0.93	0.46	0.44	0.43	1.99	0.76	2.09	3.63	1.54	3.03	1.53	17.56	43
1946	0.08	0.14	0.20	0.14	0.28	1.24	0.95	7.29	3.26	2.09	2.46	2.97	21.10	24
1947	1.79	0.15	0.28	0.58	0.04	0.71	1.99	2.72	8.20	1.85	2.61	0.28	21.20	22
1948	1.11	0.92	0.15	0.29	0.48	0.43	1.73	1.67	3.96	2.39	1.48	0.36	14.97	55
1949	0.98	0.43	0.76	1.35	0.05	0.48	1.43	4.51	3.07	2.20	2.01	1.10	18.37	37
1950	0.78	0.03	0.46	0.28	0.16	1.62	1.45	1.73	1.56	2.50	1.85	2.39	14.81	56
1951	0.35	0.11	0.11	0.13	0.24	0.52	0.82	2.00	5.08	2.57	1.76	2.08	15.77	52
1952	0.78	0.13	0.45	0.08	0.39	0.84	0.16	7.10	3.18	1.86	2.15	0.21	17.33	45
1953	0.21	0.67	0.13	0.62	1.61	1.29	3.25	1.20	2.62	1.09	3.44	0.67	16.80	47
1954	0.24	0.64	0.18	0.13	0.50	1.42	0.49	2.30	1.23	1.97	2.09	0.40	11.59	64
1955	1.83	0.56	0.27	0.26	1.16	1.45	0.85	2.35	2.82	2.24	2.26	1.86	17.91	40
1956	0.20	0.68	0.67	0.45	0.54	0.80	1.05	4.32	1.79	3.45	3.31	0.27	17.53	44
1957	0.27	1.76	0.49	0.33	0.08	0.45	2.72	7.61	4.92	2.22	1.46	0.58	22.89	13
1958	1.70	0.27	0.23	0.18	0.84	0.94	3.26	1.84	3.38	4.58	0.42	0.03	17.67	42
1959	0.07	0.48	0.28	0.31	0.48	1.16	1.88	2.97	5.33	2.29	0.42	2.79	18.46	35
1960	0.19	0.88	0.09	0.32	0.49	0.37	1.14	1.47	3.34	1.16	0.92	0.62	10.99	66
1961	0.02	0.54	0.60	0.02	0.49	1.28	1.37	2.38	1.56	3.11	1.04	1.36	13.77	60
1962	1.28	0.19	0.14	0.37	1.08	0.52	0.39	8.68	4.73	6.15	0.53	1.22	25.28	6
1963	1.77	0.22	0.14	0.65	0.19	1.66	3.64	2.82	6.01	2.75	1.45	2.50	23.80	9
1964	0.96	0.11	0.36	0.35	0.49	1.13	1.42	3.87	5.35	2.77	0.91	0.68	18.40	36
1965	0.26	0.28	1.64	0.50	0.38	0.68	1.40	7.09	5.77	3.95	1.88	1.87	25.70	5
1966	0.21	0.22	0.32	0.23	0.97	0.56	5.61	0.03	1.38	3.28	3.63	1.82	18.26	38
1967	0.85	0.64	0.94	0.26	0.38	0.77	2.62	3.30	7.39	1.57	2.20	1.47	22.39	15
1968	0.34	0.42	0.66	0.52	0.21	0.83	1.17	2.63	6.07	3.35	3.57	1.32	21.09	25
1969	0.15	0.40	0.72	0.44	1.11	0.46	1.25	2.71	3.64	6.15	1.27	0.89	19.19	32
1970	1.45	0.27	0.26	0.22	0.28	1.45	3.16	3.06	2.98	2.21	2.64	1.55	19.53	29
1971	1.10	0.65	0.68	1.51	0.90	2.30	4.69	4.36	2.78	1.46	0.71	2.92	24.06	8
1972	1.50	0.90	0.53	1.18	0.25	0.52	1.72	2.59	7.73	3.01	2.81	0.52	23.26	12
1973	1.04	0.21	0.31	0.05	0.26	2.24	3.82	1.28	1.66	4.09	2.16	2.29	19.41	30
1974	0.69	0.96	0.73	0.60	0.10	0.20	0.75	1.68	1.04	2.35	1.12	0.56	10.78	67
1975	1.91	0.18	0.10	0.84	0.59	1.29	2.46	2.47	4.69	1.01	0.93	0.11	16.58	50
1976	0.45	0.38	0.73	0.26	1.20	0.51	3.81	3.47	5.80	3.31	1.99	0.82	22.73	14
1977	0.19	0.34	0.19	0.36	0.25	1.55	1.72	1.84	2.96	4.65	2.96	1.91	18.92	34
1978	0.79	0.68	0.81	0.34	0.84	0.24	2.07	7.44	1.57	4.09	2.06	0.62	21.55	19
1979	0.36	0.71	0.58	0.36	0.40	0.37	1.01	1.58	3.95	7.61	2.78	0.15	19.86	28
1980	0.72	0.30	0.19	0.27	0.35	0.94	1.40	2.36	2.81	2.91	2.70	0.66	15.61	53
1981	1.98	0.37	0.61	0.06	0.12	0.30	0.76	6.59	1.16	4.31	1.61	0.37	18.24	39
1982	2.09	0.09	0.87	0.60	0.40	1.06	0.95	5.42	4.57	2.95	2.17	2.62	23.79	10
1983	1.63	0.40	0.61	0.17	0.10	1.49	0.74	3.19	2.60	1.17	2.71	0.54	15.35	54
1984	2.56	0.92	0.52	0.14	0.19	0.59	2.72	1.41	4.59	5.25	2.29	0.57	21.75	17
1985	0.63	0.63	0.47	0.36	0.07	1.07	0.97	1.07	0.89	2.09	0.66	2.48	11.39	65
1986	0.98	1.89	0.31	0.10	0.86	0.97	3.27	1.57	6.84	1.09	2.39	4.38	24.65	7
1987	2.55	1.14	0.03	0.06	2.05	1.77	0.28	3.74	1.06	1.25	1.82	0.58	16.33	51
1988	0.71	0.42	0.49	0.23	0.26	0.71	0.99	2.58	1.99	1.60	2.42	0.52	12.92	62
1989	0.45	1.19	0.34	0.06	0.80	0.94	1.33	3.27	1.95	1.90	6.30	0.75	19.28	31
1990	0.75	0.80	0.40	0.20	0.80	1.70	2.40	5.94	2.00	3.80	1.55	0.80	21.14	23
1991	0.30	0.80	0.60	0.20	0.80	0.80	4.20	7.00	3.95	1.05	1.25	1.28	22.23	16
1992	2.15	1.55	0.00	0.20	0.30	2.20	1.10	2.85	4.33	3.16	1.91	0.45	20.20	27
1993	0.85	0.40	0.92	0.97	1.25	1.65	3.75	3.05	6.55	1.95	3.50	1.20	26.04	4
1994	2.56	0.90	0.46	0.32	0.85	0.75	1.75	1.90	1.30	2.01	2.43	1.50	16.73	49
1995	5.00	0.50	0.75	0.10	0.82	1.60	2.65	9.50	5.35	4.05	0.55	1.60	32.47	1
1996	2.25	0.56	0.24	0.97	0.20	1.30	2.20	6.04	7.43	1.75	3.35	2.80	29.09	2
1997	3.50	0.60	1.21	0.33	0.76	0.60	3.00	5.70	2.10	5.25	3.25	0.85	27.15	3
1998	0.20	0.00	0.50	0.90	1.30	2.30	0.55	3.70	5.13	3.95	3.60	1.35	23.48	11
Mean 1961-90	1.01	0.55	0.51	0.38	0.55	1.00	2.00	3.35	3.58	3.17	2.11	1.30	19.50	

Measured (shaded) and estimated precipitation, in inches, for site 74, Water Treatment Plant at Custer State Park (434645103240700)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.36	0.65	0.05	0.23	0.31	0.69	0.89	1.78	1.77	1.19	2.72	0.31	13.95	59
1932	1.59	0.74	0.57	0.83	0.37	1.01	3.64	3.38	3.33	2.59	3.22	0.25	21.52	18
1933	1.51	0.09	0.29	0.42	0.40	1.06	3.38	5.91	0.86	2.42	4.54	0.49	21.37	20
1934	0.05	0.22	0.19	0.24	0.32	1.20	0.69	0.24	2.72	1.55	1.20	0.94	9.56	68
1935	2.29	0.23	0.53	0.14	0.50	0.92	1.87	6.22	2.69	0.92	0.51	1.14	17.96	40
1936	0.31	0.35	0.13	0.44	0.60	0.84	1.72	0.56	3.82	0.47	2.19	0.63	12.06	63
1937	0.81	1.07	0.24	0.44	0.37	1.26	0.38	2.19	2.94	2.63	0.62	0.60	13.55	61
1938	0.37	0.29	0.75	0.32	0.19	1.06	1.97	4.97	1.93	2.47	1.03	1.39	16.74	48
1939	0.47	0.75	0.19	0.22	0.29	1.06	0.67	2.20	1.95	1.37	4.11	1.36	14.64	56
1940	1.21	0.00	0.31	0.37	0.31	0.81	3.19	0.62	1.48	1.97	1.99	1.81	14.07	58
1941	1.15	0.28	0.37	0.12	0.10	0.88	5.14	1.64	3.85	2.06	3.17	1.47	20.23	28
1942	2.45	0.18	0.41	0.05	0.45	1.01	4.04	3.28	4.03	1.96	1.74	1.64	21.24	22
1943	1.52	0.30	0.23	0.54	0.41	1.05	4.22	3.37	5.00	1.64	0.43	0.24	18.95	33
1944	1.00	0.08	0.23	1.56	0.47	0.80	1.54	3.26	3.61	3.84	0.73	0.18	17.30	45
1945	0.73	0.90	0.45	0.43	0.41	2.01	0.72	2.06	3.67	1.52	3.13	1.51	17.54	43
1946	0.07	0.13	0.19	0.13	0.26	1.19	0.97	7.22	3.33	2.08	2.26	2.99	20.82	25
1947	1.76	0.13	0.26	0.56	0.04	0.69	2.01	2.68	8.24	1.67	2.42	0.30	20.76	26
1948	1.09	0.91	0.16	0.32	0.43	0.39	1.69	1.75	4.07	2.37	1.46	0.30	14.94	55
1949	1.00	0.40	0.73	1.40	0.04	0.44	1.42	4.50	3.00	2.21	2.02	1.08	18.24	38
1950	0.76	0.03	0.47	0.27	0.14	1.59	1.43	1.66	1.54	2.44	1.80	2.38	14.51	57
1951	0.35	0.09	0.11	0.17	0.24	0.50	0.78	1.99	5.19	2.59	1.76	2.10	15.87	52
1952	0.73	0.13	0.45	0.08	0.41	0.84	0.17	6.66	3.18	1.81	2.18	0.22	16.86	47
1953	0.18	0.66	0.13	0.63	1.60	1.29	3.25	1.19	2.57	1.06	3.35	0.69	16.60	49
1954	0.24	0.65	0.17	0.13	0.51	1.41	0.50	2.29	1.30	1.91	2.08	0.42	11.61	64
1955	1.83	0.55	0.26	0.27	1.17	1.43	0.84	2.35	2.81	2.19	2.28	1.91	17.89	41
1956	0.19	0.64	0.67	0.45	0.53	0.80	1.07	4.29	1.76	3.50	3.34	0.27	17.51	44
1957	0.27	1.73	0.49	0.34	0.08	0.46	2.68	7.56	4.86	2.20	1.42	0.59	22.68	14
1958	1.73	0.27	0.22	0.18	0.84	0.97	3.24	1.89	3.38	4.70	0.38	0.03	17.83	42
1959	0.07	0.45	0.28	0.31	0.48	1.13	1.85	2.92	5.28	2.23	0.42	2.82	18.24	39
1960	0.19	0.87	0.09	0.32	0.49	0.37	1.13	1.47	3.34	1.16	0.92	0.61	10.96	66
1961	0.02	0.54	0.61	0.02	0.48	1.28	1.33	2.41	1.58	3.02	1.01	1.36	13.66	60
1962	1.24	0.19	0.14	0.36	1.07	0.53	0.38	8.58	4.64	6.09	0.53	1.21	24.96	7
1963	1.78	0.21	0.14	0.64	0.19	1.64	3.60	2.80	5.91	2.72	1.41	2.46	23.50	11
1964	0.95	0.11	0.36	0.35	0.49	1.13	1.42	3.85	5.26	2.81	0.91	0.66	18.30	35
1965	0.27	0.28	1.60	0.48	0.38	0.68	1.39	7.01	5.65	3.89	1.83	1.84	25.30	6
1966	0.22	0.21	0.32	0.23	0.96	0.56	5.61	0.03	1.44	3.24	3.62	1.81	18.25	37
1967	0.85	0.65	0.93	0.26	0.38	0.80	2.62	3.27	7.42	1.59	2.19	1.47	22.43	16
1968	0.34	0.42	0.67	0.52	0.21	0.82	1.14	2.61	6.08	3.37	3.56	1.31	21.05	24
1969	0.15	0.40	0.71	0.43	1.09	0.45	1.22	2.71	3.62	6.06	1.24	0.86	18.94	34
1970	1.44	0.27	0.26	0.21	0.28	1.42	3.16	3.00	2.95	2.19	2.61	1.58	19.37	30
1971	1.09	0.62	0.68	1.51	0.90	2.29	4.65	4.19	2.75	1.43	0.66	2.91	23.68	10
1972	1.49	0.86	0.52	1.19	0.24	0.51	1.73	2.58	7.08	3.02	2.73	0.52	22.47	15
1973	1.04	0.22	0.32	0.05	0.27	2.21	3.81	1.30	1.60	4.10	2.19	2.30	19.41	29
1974	0.71	0.93	0.71	0.59	0.10	0.20	0.74	1.66	1.02	2.34	1.10	0.55	10.65	67
1975	1.89	0.18	0.10	0.88	0.58	1.35	2.37	2.45	4.68	1.01	0.92	0.11	16.52	50
1976	0.45	0.38	0.71	0.27	1.18	0.55	3.82	3.33	5.74	3.32	1.89	0.77	22.41	17
1977	0.21	0.34	0.19	0.37	0.25	1.54	1.75	1.99	2.96	4.69	3.03	1.93	19.25	31
1978	0.77	0.71	0.80	0.35	0.84	0.24	1.99	7.32	1.57	4.05	2.10	0.56	21.30	21
1979	0.36	0.69	0.55	0.36	0.40	0.36	1.01	1.57	3.63	7.24	2.74	0.15	19.06	32
1980	0.73	0.30	0.19	0.28	0.37	0.96	1.39	2.37	2.80	2.88	2.65	0.65	15.57	53
1981	2.02	0.38	0.64	0.06	0.12	0.31	0.76	6.55	1.15	4.35	1.59	0.36	18.29	36
1982	1.94	0.10	0.88	0.60	0.40	1.07	0.96	5.43	4.61	3.01	2.17	2.61	23.78	9
1983	1.57	0.44	0.55	0.17	0.11	1.49	0.73	3.20	2.47	1.24	2.62	0.55	15.14	54
1984	2.54	0.88	0.49	0.14	0.18	0.60	2.69	1.38	4.52	5.28	2.24	0.53	21.47	19
1985	0.61	0.63	0.47	0.36	0.07	1.05	0.99	1.05	0.88	2.15	0.72	2.41	11.39	65
1986	0.97	1.85	0.28	0.09	0.84	0.96	3.24	1.56	6.88	1.11	2.32	4.31	24.41	8
1987	2.54	1.15	0.03	0.06	2.04	1.73	0.30	3.65	1.07	1.22	1.75	0.57	16.11	51
1988	0.68	0.44	0.49	0.22	0.26	0.69	1.00	2.63	1.94	1.53	2.41	0.51	12.80	62
1989	0.45	1.16	0.36	0.05	0.78	0.89	1.25	2.79	2.15	2.25	1.81	6.53	20.47	27
1990	1.32	0.50	0.88	0.15	0.85	1.72	2.25	7.41	1.54	4.41	1.31	0.98	23.32	13
1991	0.53	0.86	0.64	0.22	0.83	0.76	2.60	6.95	4.67	2.25	1.33	1.70	23.34	12
1992	1.64	1.58	0.00	0.19	0.34	2.19	1.08	3.49	4.19	4.68	1.39	0.43	21.20	23
1993	0.80	0.37	0.93	1.09	1.22	1.56	3.98	3.65	6.40	2.68	3.37	1.51	27.56	4
1994	2.59	0.83	0.54	0.38	0.93	0.78	1.71	1.63	1.37	1.27	3.81	1.07	16.91	46
1995	5.01	0.58	0.77	0.07	0.90	1.54	2.94	11.56	5.81	4.43	0.42	1.48	35.51	1
1996	2.50	0.55	0.24	0.98	0.20	1.27	2.23	6.60	2.62	2.34	4.48	2.50	26.51	5
1997	3.57	0.62	1.22	0.34	0.82	0.65	3.04	6.82	1.85	6.03	3.51	1.66	30.13	2
1998	0.61	0.04	0.40	0.78	1.28	2.77	0.68	5.44	5.69	5.20	4.04	1.95	28.88	3
Mean 1961-90	1.02	0.53	0.52	0.38	0.54	1.00	1.98	3.36	3.52	3.19	1.93	1.48	19.44	

Measured (shaded) and estimated precipitation, in inches, for site 75, Bismark Lake near Custer (434732103305500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.58	0.60	0.01	0.15	0.33	0.56	1.00	1.89	1.81	1.01	3.26	0.21	14.41	59
1932	1.76	0.74	0.57	0.83	0.26	0.68	3.45	3.12	3.76	2.38	3.44	0.15	21.14	24
1933	1.46	0.06	0.27	0.50	0.31	0.91	3.28	6.12	0.48	2.57	4.67	0.54	21.17	23
1934	0.01	0.18	0.14	0.20	0.26	1.30	0.61	0.15	2.28	1.81	1.20	1.00	9.14	68
1935	2.73	0.18	0.55	0.12	0.50	0.76	1.80	5.94	2.66	0.47	0.33	1.34	17.38	43
1936	0.27	0.30	0.07	0.39	0.55	0.86	1.96	0.63	4.62	0.41	2.70	0.61	13.37	62
1937	0.88	1.19	0.24	0.47	0.40	1.14	0.31	2.24	2.33	2.34	0.64	0.47	12.65	63
1938	0.39	0.29	0.82	0.25	0.22	1.08	1.79	5.53	1.85	2.62	1.24	1.16	17.24	45
1939	0.55	0.82	0.14	0.16	0.27	1.15	0.60	2.50	1.74	1.30	4.60	1.54	15.37	55
1940	1.28	0.00	0.33	0.39	0.32	0.78	3.16	0.61	1.37	2.25	2.36	1.93	14.78	58
1941	1.24	0.29	0.42	0.12	0.11	0.93	5.00	1.73	3.59	1.84	4.00	1.40	20.67	26
1942	3.29	0.25	0.53	0.11	0.65	1.28	4.31	2.66	5.02	1.43	2.42	2.10	24.05	12
1943	1.72	0.26	0.26	0.52	0.44	1.14	4.90	3.88	4.82	1.70	0.48	0.41	20.53	27
1944	0.88	0.03	0.18	1.62	0.56	0.93	1.30	2.92	3.39	3.82	0.75	0.29	16.67	50
1945	0.69	1.02	0.57	0.46	0.54	1.85	0.94	2.11	3.44	1.63	2.42	1.52	17.19	46
1946	0.13	0.17	0.28	0.21	0.40	1.43	0.68	7.64	2.72	2.06	3.67	2.71	22.10	20
1947	1.91	0.22	0.43	0.70	0.02	0.80	1.96	3.09	8.16	2.88	3.81	0.09	24.07	10
1948	1.24	0.95	0.16	0.16	0.72	0.65	1.91	1.25	3.24	2.41	1.68	0.56	14.93	57
1949	0.91	0.43	0.92	1.23	0.04	0.50	1.37	4.90	3.08	1.99	1.73	1.14	18.24	35
1950	0.80	0.02	0.41	0.28	0.23	1.59	1.47	1.90	1.56	2.85	1.98	2.57	15.66	54
1951	0.37	0.16	0.09	0.09	0.21	0.49	1.09	1.76	4.62	2.66	1.68	1.86	15.08	56
1952	0.77	0.16	0.46	0.07	0.33	0.88	0.14	7.65	3.31	2.01	2.20	0.17	18.15	36
1953	0.20	0.64	0.11	0.67	1.64	1.24	3.10	1.19	2.58	1.15	3.64	0.63	16.79	49
1954	0.23	0.63	0.17	0.13	0.52	1.36	0.52	2.31	1.32	2.01	2.16	0.46	11.82	65
1955	1.84	0.52	0.28	0.27	1.09	1.48	0.83	2.41	3.01	2.26	2.35	1.72	18.06	37
1956	0.19	0.74	0.68	0.48	0.59	0.80	1.08	4.36	1.87	3.14	3.15	0.27	17.35	44
1957	0.29	1.79	0.51	0.35	0.06	0.52	2.83	7.34	5.19	1.84	1.40	0.59	22.71	16
1958	1.63	0.27	0.24	0.18	0.82	0.93	3.20	1.69	3.38	4.60	0.44	0.03	17.41	42
1959	0.12	0.51	0.26	0.31	0.48	1.19	1.76	3.01	5.53	2.39	0.46	2.76	18.78	33
1960	0.20	0.92	0.08	0.30	0.50	0.37	1.13	1.79	3.23	1.14	0.85	0.66	11.17	67
1961	0.03	0.54	0.54	0.02	0.49	1.32	1.43	2.24	1.65	3.24	1.16	1.45	14.11	60
1962	1.25	0.22	0.14	0.41	1.08	0.47	0.37	8.08	4.54	5.80	0.50	1.20	24.06	11
1963	1.62	0.18	0.16	0.67	0.16	1.60	3.46	3.14	5.69	2.50	1.73	2.55	23.46	14
1964	0.97	0.09	0.37	0.36	0.47	1.17	1.37	3.95	4.86	2.31	0.95	0.62	17.49	41
1965	0.22	0.27	1.72	0.43	0.40	0.70	1.30	7.01	5.59	3.79	1.73	1.75	24.91	6
1966	0.19	0.24	0.31	0.23	0.94	0.51	5.62	0.03	1.25	3.23	3.41	1.65	17.61	40
1967	0.83	0.67	0.99	0.29	0.37	0.95	2.44	3.14	7.03	1.56	2.42	1.40	22.09	21
1968	0.38	0.40	0.63	0.53	0.19	0.90	1.23	2.69	5.83	4.08	3.68	1.28	21.82	22
1969	0.17	0.42	0.74	0.47	1.17	0.43	1.26	2.79	3.41	6.06	1.56	0.92	19.40	31
1970	1.43	0.26	0.27	0.21	0.25	1.32	2.94	2.52	2.94	2.24	2.65	1.38	18.41	34
1971	1.06	0.69	0.69	1.46	0.92	2.34	4.38	3.87	2.94	1.52	0.60	3.08	23.55	13
1972	1.54	0.82	0.55	1.30	0.23	0.48	1.72	2.41	7.33	2.96	2.64	0.54	22.52	19
1973	1.09	0.20	0.26	0.06	0.27	2.19	3.86	1.25	1.79	4.10	2.47	2.41	19.95	30
1974	0.69	1.13	0.76	0.62	0.09	0.20	0.88	1.79	0.92	2.40	1.17	0.57	11.22	66
1975	1.97	0.21	0.09	0.88	0.55	1.36	2.85	2.65	4.67	0.69	0.75	0.14	16.81	48
1976	0.60	0.36	0.83	0.36	1.53	0.56	3.64	3.41	5.35	3.00	2.14	0.86	22.64	18
1977	0.21	0.39	0.22	0.42	0.28	1.56	1.63	1.56	2.89	4.90	3.53	1.69	19.28	32
1978	0.66	0.79	0.91	0.26	0.94	0.20	2.02	8.14	1.57	3.90	2.46	0.89	22.74	15
1979	0.27	0.76	0.66	0.41	0.46	0.39	1.06	1.58	4.09	7.77	3.14	0.13	20.72	25
1980	0.77	0.38	0.29	0.30	0.39	0.99	1.44	2.36	3.04	3.46	2.50	0.65	16.57	51
1981	1.76	0.42	0.79	0.09	0.11	0.43	0.92	6.43	0.94	3.75	1.81	0.42	17.87	39
1982	2.33	0.09	0.99	0.68	0.43	1.08	1.04	5.25	5.21	3.64	2.38	3.18	26.30	4
1983	1.66	0.41	0.64	0.23	0.12	1.53	0.85	3.07	2.76	1.80	3.37	0.65	17.09	47
1984	2.58	0.98	0.74	0.11	0.18	0.44	2.76	1.57	4.77	5.62	2.22	0.74	22.71	17
1985	0.62	0.64	0.47	0.36	0.06	1.25	0.94	1.18	0.97	2.10	0.67	2.78	12.04	64
1986	0.99	1.92	0.31	0.12	0.99	0.92	3.30	1.66	6.38	1.10	2.25	4.47	24.41	8
1987	2.29	1.18	0.01	0.06	2.07	1.73	0.30	3.96	1.03	1.42	1.79	0.65	16.49	52
1988	0.82	0.46	0.53	0.29	0.27	0.81	1.04	2.55	2.09	1.84	2.43	0.47	13.60	61
1989	0.41	1.15	0.29	0.07	0.85	0.93	1.40	2.13	2.15	2.50	2.27	3.87	18.02	38
1990	1.20	0.70	0.77	0.09	0.90	1.91	2.63	4.83	0.91	3.80	1.58	1.17	20.49	28
1991	0.72	0.88	0.63	0.24	0.82	0.75	4.17	9.38	4.42	2.45	1.93	1.16	27.55	2
1992	1.29	1.46	0.00	0.15	0.34	2.16	0.93	3.37	3.88	4.62	1.46	0.31	19.97	29
1993	0.81	0.29	0.93	1.07	1.21	1.39	3.36	3.83	6.25	3.18	2.43	1.18	25.93	5
1994	2.18	0.73	0.58	0.38	0.96	0.88	1.95	1.71	2.27	1.39	2.76	0.63	16.42	53
1995	5.22	0.66	0.74	0.06	0.97	1.41	2.89	8.21	6.49	3.66	1.18	1.65	33.14	1
1996	2.47	0.56	0.20	1.02	0.20	1.19	2.43	6.14	2.76	1.67	3.98	2.07	24.69	7
1997	3.92	0.51	1.25	0.35	0.88	0.63	2.92	4.62	1.78	5.31	2.73	1.78	26.68	3
1998	0.91	0.06	0.32	0.74	1.41	2.65	0.82	3.92	5.13	2.66	3.75	2.02	24.39	9
Mean 1961-90	1.02	0.57	0.56	0.39	0.57	1.02	2.00	3.24	3.49	3.24	2.07	1.45	19.61	

Measured (shaded) and estimated precipitation, in inches, for site 76, Redbird Canyon near Newcastle, Wyo. (434751104005100)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.14	0.43	0.25	0.29	0.33	1.16	0.72	1.82	1.34	1.17	1.26	0.33	11.24	62
1932	1.20	0.61	0.29	0.89	0.19	0.66	3.61	2.80	3.66	3.03	3.16	0.52	20.62	13
1933	1.81	0.29	0.45	0.64	0.79	0.78	2.48	4.96	1.25	1.50	2.76	0.48	18.19	25
1934	0.24	0.29	0.21	0.33	0.46	0.99	0.72	0.26	3.18	0.75	2.21	1.06	10.70	65
1935	1.51	0.28	0.68	0.19	0.52	0.80	1.09	4.54	1.97	1.23	0.53	0.83	14.17	52
1936	0.43	0.50	0.20	0.60	0.63	0.65	1.34	0.23	2.72	1.32	1.46	0.36	10.44	67
1937	0.95	0.83	0.26	0.61	0.42	1.00	0.42	1.75	2.52	3.19	0.88	0.67	13.50	58
1938	0.28	0.50	1.04	0.88	0.27	1.09	1.47	4.39	1.41	1.94	1.17	1.04	15.48	42
1939	0.32	0.71	0.39	0.63	0.36	0.67	1.15	1.73	3.33	1.29	3.93	0.93	15.44	43
1940	1.06	0.01	0.50	0.48	0.40	0.90	3.06	0.70	1.75	1.22	0.83	1.75	12.66	60
1941	1.17	0.35	0.56	0.21	0.19	0.92	3.74	2.18	4.29	2.42	2.86	1.93	20.82	12
1942	1.93	0.42	0.55	0.17	0.36	1.08	3.48	2.25	3.70	1.86	2.73	1.86	20.39	15
1943	1.73	0.71	0.48	0.71	0.50	1.31	2.66	2.52	3.44	1.62	1.13	0.33	17.14	32
1944	1.32	0.44	0.23	1.10	0.32	1.14	1.05	2.80	3.66	2.50	0.59	0.41	15.56	40
1945	0.60	0.98	0.46	0.67	0.52	1.14	0.80	3.22	3.02	1.88	3.07	2.28	18.64	22
1946	0.06	0.18	0.51	0.25	0.43	1.26	1.52	6.28	3.62	1.97	1.84	3.07	20.99	11
1947	2.42	0.28	0.63	0.65	0.17	0.77	1.94	2.21	6.26	1.40	1.34	0.29	18.36	24
1948	0.93	1.43	0.10	0.54	0.77	0.27	2.22	1.01	2.87	2.33	1.75	0.69	14.91	48
1949	0.54	0.71	0.25	0.92	0.09	0.56	1.65	2.93	3.71	1.19	1.06	1.06	14.67	49
1950	0.79	0.10	0.54	0.41	0.20	1.65	1.55	1.84	1.30	1.80	1.32	2.04	13.54	56
1951	0.60	0.18	0.23	0.15	0.30	0.35	1.00	1.51	4.38	2.16	1.87	2.50	15.23	44
1952	0.90	0.48	0.91	0.06	0.33	1.14	0.13	4.81	2.66	2.11	1.38	0.17	15.08	46
1953	0.13	0.56	0.08	1.02	0.73	1.20	1.94	1.09	2.75	1.48	3.40	0.12	14.50	51
1954	0.42	0.82	0.13	0.06	0.43	0.82	0.17	2.19	1.94	2.08	1.44	0.41	10.91	64
1955	1.94	0.24	0.18	0.63	0.48	1.03	0.56	3.19	2.78	2.44	2.90	1.59	17.96	29
1956	0.30	0.83	0.89	0.49	0.34	0.65	2.05	3.63	1.12	2.28	2.25	0.10	14.93	47
1957	0.50	0.87	0.45	0.52	0.24	1.20	1.72	4.74	4.48	1.87	0.86	0.63	18.08	28
1958	0.84	0.62	0.42	0.21	0.74	0.79	1.62	1.03	3.78	4.99	1.16	0.07	16.27	37
1959	0.52	0.57	0.47	0.35	1.12	0.94	1.13	2.84	4.12	1.26	0.47	1.75	15.54	41
1960	0.28	0.98	0.11	0.23	0.90	0.35	1.31	1.16	2.13	0.58	0.71	1.25	9.99	68
1961	0.06	0.55	0.71	0.02	0.42	0.82	1.00	1.56	1.23	2.17	0.74	1.42	10.70	66
1962	0.89	0.23	0.39	0.66	0.99	0.44	0.63	6.57	3.99	3.17	1.11	1.05	20.12	16
1963	0.47	0.13	0.28	0.80	0.56	0.69	3.82	2.58	3.97	1.91	1.29	2.25	18.75	20
1964	0.70	0.08	0.59	0.25	0.87	0.60	1.67	3.16	5.83	0.67	2.21	0.57	17.20	31
1965	0.08	0.36	1.35	1.02	0.23	0.55	1.32	6.29	5.02	3.55	1.32	1.66	22.75	7
1966	0.04	0.25	0.15	0.19	0.59	0.50	3.11	0.04	1.15	4.01	3.24	1.35	14.62	50
1967	1.08	0.60	0.87	0.43	0.60	0.69	2.15	2.58	4.66	1.75	1.73	2.62	19.76	17
1968	0.54	0.29	0.73	0.47	0.31	0.42	1.02	2.23	4.47	1.99	2.35	1.48	16.30	36
1969	0.14	0.63	0.69	0.37	0.96	0.50	2.58	2.36	4.30	4.43	1.31	0.56	18.83	19
1970	0.83	0.71	0.49	0.56	0.19	1.16	2.37	2.84	1.91	2.27	0.95	0.86	15.14	45
1971	0.84	0.68	0.73	0.85	0.80	0.83	4.51	4.12	2.38	1.04	0.67	1.96	19.41	18
1972	2.01	0.90	0.27	0.96	0.44	0.63	1.32	2.86	6.28	2.84	3.59	0.79	22.89	6
1973	0.73	0.35	0.46	0.13	0.33	1.80	2.95	0.98	2.96	2.80	1.67	3.03	18.19	26
1974	0.61	0.79	0.97	0.53	0.27	0.16	1.10	1.16	0.71	2.68	2.76	0.90	12.64	61
1975	1.85	0.37	0.49	0.84	0.47	1.51	2.93	2.68	4.19	0.76	0.37	0.10	16.56	34
1976	0.86	0.47	0.82	0.41	1.20	0.40	1.95	2.81	4.83	2.90	1.42	0.63	18.70	21
1977	0.26	0.95	0.50	1.01	0.47	1.19	1.79	1.87	2.12	2.44	3.05	1.29	16.94	33
1978	1.25	0.92	0.80	0.41	0.95	0.35	2.24	6.16	1.69	3.70	1.43	0.56	20.46	14
1979	0.70	0.73	1.00	0.62	0.72	0.24	0.81	2.01	2.88	4.55	3.60	0.23	18.09	27
1980	0.35	0.45	0.27	0.42	0.56	1.08	1.15	2.93	1.79	1.80	2.37	0.69	13.86	54
1981	1.49	0.36	0.82	0.14	0.21	0.38	0.68	4.23	0.76	4.31	2.13	0.54	16.05	38
1982	1.39	0.24	0.86	0.78	0.99	1.77	1.19	3.68	2.73	3.30	2.16	2.00	21.09	10
1983	1.63	0.44	0.50	0.48	0.10	1.10	0.95	1.70	2.28	1.05	3.40	0.43	14.06	53
1984	2.71	1.53	0.77	0.22	0.22	0.66	2.40	1.42	3.52	2.50	1.49	1.01	18.45	23
1985	0.74	0.82	0.46	0.29	0.23	1.23	0.73	0.88	1.60	1.78	0.67	1.63	11.06	63
1986	0.70	1.56	0.79	0.27	1.25	0.67	3.33	1.76	5.43	1.17	1.20	4.44	22.57	8
1987	1.84	1.11	0.03	0.20	1.60	1.07	0.15	3.82	0.75	1.04	1.17	1.02	13.80	55
1988	0.72	0.58	0.23	0.38	0.58	0.53	0.85	3.04	2.81	1.49	1.65	0.67	13.53	57
1989	0.43	0.88	0.35	0.15	0.58	1.02	2.12	2.69	1.53	0.98	1.79	3.16	15.68	39
1990	1.09	0.89	0.97	0.17	0.77	1.29	2.14	3.03	1.22	3.44	1.82	1.10	17.93	30
1991	0.95	0.63	1.34	0.82	0.78	1.58	2.51	7.19	4.65	2.30	1.77	0.79	25.31	1
1992	0.42	0.88	0.10	0.02	0.15	0.76	2.36	3.21	2.47	3.93	1.53	0.57	16.40	35
1993	0.16	0.78	1.14	0.73	1.00	0.32	0.92	3.19	7.72	5.28	1.72	1.31	24.27	2
1994	0.96	0.44	1.01	1.06	1.12	0.52	3.26	0.26	0.85	1.61	1.36	0.50	12.95	59
1995	4.88	1.29	0.42	0.12	1.01	1.25	1.52	4.24	4.24	1.92	1.08	1.72	23.69	4
1996	2.26	0.58	0.58	1.19	0.40	1.89	2.87	4.98	1.22	1.66	4.14	1.88	23.65	5
1997	2.44	0.88	1.58	0.58	0.64	0.54	2.44	3.60	2.98	4.44	0.42	1.82	22.36	9
1998	1.39	0.29	0.78	0.74	0.66	1.48	1.28	3.14	6.28	3.22	2.58	2.40	24.24	3
Mean 1961-90	0.90	0.63	0.61	0.47	0.62	0.81	1.83	2.80	2.97	2.42	1.82	1.33	17.20	

Measured (shaded) and estimated precipitation, in inches, for site 77, Center Lake near Hayward (434807103235400)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.35	0.65	0.05	0.23	0.31	0.71	0.88	1.76	1.78	1.20	2.68	0.30	13.90	59
1932	1.57	0.75	0.56	0.83	0.34	0.93	3.69	3.42	3.32	2.61	3.25	0.27	21.54	18
1933	1.53	0.09	0.29	0.42	0.39	1.05	3.36	5.91	0.90	2.44	4.44	0.49	21.31	20
1934	0.05	0.21	0.19	0.24	0.31	1.17	0.70	0.25	2.79	1.50	1.19	0.93	9.53	68
1935	2.29	0.24	0.53	0.14	0.50	0.90	1.86	6.14	2.70	0.97	0.50	1.11	17.88	40
1936	0.30	0.34	0.13	0.44	0.59	0.84	1.71	0.54	3.77	0.49	2.18	0.61	11.94	63
1937	0.81	1.06	0.23	0.43	0.36	1.24	0.38	2.22	2.88	2.67	0.64	0.61	13.53	60
1938	0.36	0.28	0.77	0.32	0.19	1.05	2.00	4.93	1.96	2.44	1.02	1.34	16.66	48
1939	0.46	0.75	0.19	0.23	0.28	1.05	0.69	2.17	1.96	1.42	4.08	1.34	14.62	57
1940	1.21	0.00	0.31	0.36	0.30	0.81	3.13	0.61	1.51	1.93	1.99	1.80	13.96	58
1941	1.16	0.28	0.38	0.12	0.10	0.87	5.13	1.66	3.90	2.07	3.11	1.47	20.25	27
1942	2.45	0.18	0.41	0.05	0.45	0.99	4.04	3.31	4.01	1.94	1.72	1.63	21.18	22
1943	1.51	0.30	0.23	0.55	0.41	1.05	4.16	3.34	5.01	1.64	0.42	0.23	18.85	34
1944	1.00	0.09	0.22	1.57	0.46	0.80	1.53	3.25	3.64	3.83	0.71	0.18	17.28	46
1945	0.74	0.91	0.44	0.43	0.40	2.03	0.72	2.08	3.68	1.51	3.18	1.52	17.64	42
1946	0.07	0.13	0.18	0.13	0.25	1.19	1.00	7.20	3.37	2.09	2.22	3.01	20.84	23
1947	1.77	0.13	0.25	0.56	0.05	0.70	2.02	2.64	8.20	1.59	2.38	0.32	20.61	25
1948	1.08	0.91	0.14	0.33	0.42	0.38	1.68	1.76	4.10	2.38	1.35	0.34	14.87	55
1949	1.00	0.47	0.73	1.36	0.05	0.48	1.44	4.47	3.16	2.21	2.13	1.10	18.60	35
1950	0.81	0.04	0.46	0.28	0.14	1.67	1.41	1.71	1.54	2.43	1.82	2.33	14.64	56
1951	0.34	0.10	0.10	0.12	0.24	0.55	0.76	2.13	5.17	2.54	1.80	2.10	15.95	51
1952	0.85	0.18	0.50	0.08	0.42	0.84	0.17	7.15	3.15	1.82	2.16	0.22	17.54	44
1953	0.22	0.58	0.12	0.67	1.57	1.24	3.19	1.18	2.63	1.07	3.33	0.63	16.43	50
1954	0.23	0.66	0.16	0.13	0.48	1.36	0.46	2.29	1.36	1.84	2.14	0.39	11.50	64
1955	1.86	0.55	0.25	0.27	1.10	1.39	0.87	2.25	2.90	2.26	2.34	1.99	18.03	38
1956	0.20	0.66	0.69	0.45	0.52	0.81	1.19	4.19	1.62	3.51	3.32	0.26	17.42	45
1957	0.28	1.74	0.45	0.33	0.10	0.47	2.69	7.31	4.65	2.31	1.39	0.61	22.33	16
1958	1.60	0.28	0.22	0.19	0.77	0.92	3.20	2.04	3.44	4.41	0.44	0.05	17.56	43
1959	0.08	0.47	0.28	0.29	0.48	1.13	1.87	2.89	5.16	2.15	0.39	2.76	17.95	39
1960	0.19	0.89	0.09	0.31	0.49	0.35	1.22	1.60	3.23	1.22	1.01	0.67	11.27	65
1961	0.03	0.56	0.58	0.02	0.45	1.21	1.31	2.31	1.58	3.01	0.97	1.39	13.42	61
1962	1.19	0.18	0.13	0.36	1.12	0.59	0.40	8.87	4.94	6.26	0.56	1.21	25.81	8
1963	1.73	0.26	0.10	0.60	0.23	1.62	4.00	2.52	6.36	2.81	1.42	2.57	24.22	9
1964	0.93	0.10	0.34	0.36	0.45	0.95	1.37	3.67	5.45	2.93	0.96	0.75	18.26	37
1965	0.24	0.30	1.61	0.59	0.32	0.68	1.51	7.56	5.82	4.06	2.02	1.94	26.65	6
1966	0.21	0.21	0.33	0.23	0.93	0.57	4.85	0.04	1.31	3.55	3.63	1.92	17.78	41
1967	0.87	0.62	0.90	0.25	0.40	0.73	2.63	3.41	7.48	1.62	1.98	1.41	22.30	17
1968	0.33	0.40	0.65	0.55	0.22	0.71	1.17	2.58	6.07	3.06	3.46	1.34	20.54	26
1969	0.14	0.40	0.68	0.40	1.11	0.48	1.30	2.57	3.78	6.18	1.16	0.88	19.08	31
1970	1.43	0.26	0.24	0.22	0.29	1.48	3.31	3.51	3.06	2.07	2.28	1.66	19.81	30
1971	1.09	0.65	0.64	1.34	0.84	2.04	4.85	4.76	2.68	1.53	0.87	2.87	24.16	10
1972	1.49	0.92	0.45	0.90	0.26	0.57	1.80	2.78	7.95	2.97	2.85	0.54	23.48	12
1973	0.97	0.22	0.38	0.06	0.26	2.32	3.71	1.32	1.70	3.97	1.98	2.12	19.01	32
1974	0.67	0.92	0.67	0.56	0.12	0.20	0.82	1.68	1.13	2.57	1.19	0.74	11.27	66
1975	1.97	0.17	0.10	0.83	0.60	1.27	2.41	2.44	4.71	1.06	0.97	0.11	16.64	49
1976	0.43	0.38	0.71	0.23	1.15	0.50	3.84	3.52	5.91	3.34	2.00	0.82	22.83	15
1977	0.18	0.32	0.19	0.35	0.25	1.68	1.73	1.84	2.96	4.61	2.83	1.94	18.88	33
1978	0.83	0.65	0.79	0.35	0.83	0.24	2.08	7.39	1.60	4.16	1.97	0.59	21.48	19
1979	0.37	0.70	0.57	0.35	0.39	0.36	1.00	1.59	4.02	7.66	2.71	0.15	19.87	29
1980	0.70	0.28	0.17	0.27	0.34	0.91	1.39	2.36	2.79	2.84	2.74	0.66	15.45	53
1981	2.02	0.36	0.57	0.06	0.11	0.27	0.73	6.65	1.19	4.36	1.60	0.38	18.30	36
1982	2.08	0.09	0.85	0.59	0.39	1.05	0.92	5.43	4.46	2.80	2.15	2.52	23.33	13
1983	1.67	0.38	0.61	0.16	0.10	1.47	0.72	3.23	2.60	1.03	2.60	0.52	15.09	54
1984	2.50	0.92	0.51	0.12	0.18	0.54	2.75	1.58	4.80	4.79	1.93	0.61	21.23	21
1985	0.60	0.59	0.42	0.33	0.05	1.02	0.87	0.99	0.92	2.16	0.70	2.41	11.06	67
1986	0.85	1.83	0.39	0.09	0.82	0.88	3.28	1.57	6.40	1.13	2.16	4.54	23.94	11
1987	2.27	1.01	0.04	0.06	1.92	1.76	0.23	3.81	1.04	1.32	1.86	0.58	15.90	52
1988	0.67	0.36	0.47	0.24	0.27	0.61	0.98	2.43	2.36	1.62	2.29	0.43	12.73	62
1989	0.48	1.17	0.38	0.05	0.77	0.98	1.34	2.63	2.17	2.07	1.89	6.88	20.81	24
1990	1.70	0.61	0.96	0.10	0.99	1.74	2.12	6.50	1.79	4.54	0.76	1.10	22.91	14
1991	0.94	0.92	0.70	0.28	0.89	0.71	5.42	6.97	4.56	2.77	1.28	1.40	26.84	5
1992	0.73	1.52	0.00	0.19	0.41	2.23	1.08	3.40	4.15	4.54	1.35	0.33	19.93	28
1993	0.73	0.34	0.93	1.34	1.10	1.49	4.70	3.74	6.07	3.30	2.58	1.52	27.84	4
1994	2.58	0.69	0.62	0.50	1.06	0.81	1.54	1.63	0.95	1.78	3.74	1.12	17.02	47
1995	5.28	0.69	0.78	0.04	0.99	1.52	3.33	10.53	5.48	1.96	0.22	1.31	32.13	1
1996	2.96	0.61	0.21	0.89	0.18	1.30	2.10	7.44	2.36	3.27	5.39	2.54	29.25	3
1997	3.49	0.73	1.28	0.34	0.81	0.64	3.44	6.30	2.27	5.58	2.45	2.00	29.33	2
1998	1.26	0.09	0.26	0.84	1.42	2.93	0.68	4.47	5.48	3.65	3.72	1.72	26.52	7
Mean 1961-90	1.02	0.53	0.51	0.35	0.54	0.98	1.98	3.38	3.63	3.20	1.88	1.52	19.54	

Measured (shaded) and estimated precipitation, in inches, for site 78, North Farm at Custer State Park (434928103214800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	RANK
1931	3.28	0.67	0.07	0.26	0.30	0.77	0.83	1.69	1.77	1.26	2.44	0.32	13.66	59
1932	1.48	0.74	0.55	0.83	0.36	0.98	3.79	3.58	3.13	2.69	3.22	0.31	21.66	17
1933	1.55	0.10	0.30	0.39	0.42	1.10	3.36	5.86	1.04	2.39	4.30	0.46	21.27	18
1934	0.06	0.22	0.21	0.25	0.33	1.11	0.75	0.29	2.98	1.37	1.16	0.89	9.62	68
1935	2.13	0.27	0.53	0.15	0.50	0.95	1.91	6.20	2.69	1.14	0.55	1.00	18.02	38
1936	0.31	0.36	0.16	0.46	0.60	0.83	1.62	0.50	3.42	0.51	1.97	0.60	11.34	65
1937	0.79	1.01	0.22	0.41	0.35	1.28	0.40	2.23	3.04	2.80	0.63	0.66	13.82	58
1938	0.34	0.27	0.75	0.35	0.18	1.03	2.10	4.68	2.05	2.35	0.93	1.38	16.41	48
1939	0.43	0.72	0.20	0.26	0.29	1.02	0.72	2.03	2.04	1.47	3.82	1.26	14.26	56
1940	1.20	0.00	0.30	0.34	0.29	0.83	3.11	0.61	1.58	1.78	1.85	1.74	13.63	60
1941	1.12	0.27	0.36	0.12	0.10	0.84	5.21	1.63	4.04	2.11	2.71	1.52	20.03	22
1942	2.15	0.15	0.35	0.03	0.37	0.89	3.97	3.54	3.63	2.10	1.49	1.39	20.06	21
1943	1.39	0.31	0.21	0.57	0.40	1.01	3.82	3.16	5.17	1.52	0.35	0.15	18.06	36
1944	1.06	0.12	0.25	1.56	0.40	0.73	1.62	3.39	3.72	3.82	0.70	0.11	17.48	43
1945	0.78	0.81	0.38	0.40	0.32	2.10	0.61	2.02	3.83	1.41	3.54	1.46	17.66	40
1946	0.04	0.12	0.11	0.08	0.17	1.07	1.05	6.97	3.58	2.09	1.66	3.06	20.00	23
1947	1.68	0.08	0.14	0.49	0.04	0.65	2.10	2.51	8.27	0.97	1.89	0.40	19.22	29
1948	1.00	0.88	0.14	0.40	0.27	0.28	1.56	2.00	4.41	2.33	1.03	0.22	14.52	55
1949	1.05	0.48	0.69	1.40	0.05	0.45	1.45	4.35	3.23	2.24	2.38	1.10	18.87	31
1950	0.84	0.05	0.47	0.28	0.11	1.66	1.34	1.59	1.48	2.29	1.67	2.19	13.97	57
1951	0.33	0.07	0.10	0.13	0.23	0.58	0.67	2.42	5.50	2.50	1.84	2.13	16.50	47
1952	0.99	0.23	0.51	0.08	0.45	0.81	0.20	6.85	3.13	1.69	2.27	0.22	17.43	44
1953	0.16	0.41	0.12	0.73	1.57	1.16	3.22	1.18	2.64	0.91	3.03	0.58	15.71	51
1954	0.22	0.71	0.13	0.14	0.43	1.28	0.39	2.25	1.55	1.53	2.20	0.32	11.15	66
1955	1.88	0.56	0.20	0.27	1.05	1.25	0.98	2.06	2.97	2.21	2.31	2.41	18.15	35
1956	0.19	0.59	0.70	0.42	0.43	0.86	1.42	3.95	1.30	3.91	3.48	0.26	17.51	42
1957	0.29	1.77	0.37	0.32	0.13	0.44	2.56	6.90	3.95	2.66	1.22	0.64	21.25	19
1958	1.54	0.28	0.17	0.21	0.66	0.90	3.13	2.64	3.52	4.17	0.39	0.05	17.66	40
1959	0.08	0.41	0.28	0.23	0.45	0.99	1.91	2.62	4.88	1.68	0.29	2.78	16.60	46
1960	0.20	0.97	0.09	0.30	0.53	0.37	1.36	1.72	3.14	1.28	1.18	0.68	11.82	62
1961	0.03	0.54	0.56	0.02	0.38	1.05	1.10	2.35	1.62	2.58	0.71	1.36	12.30	61
1962	1.02	0.15	0.11	0.35	1.10	0.70	0.40	8.76	4.85	6.18	0.61	1.18	25.41	7
1963	1.75	0.25	0.07	0.53	0.29	1.50	4.25	2.09	6.42	2.76	1.24	2.47	23.62	9
1964	0.88	0.10	0.31	0.36	0.41	0.76	1.35	3.38	5.29	3.33	0.99	0.74	17.90	39
1965	0.30	0.32	1.42	0.62	0.25	0.63	1.61	7.78	5.40	3.93	1.98	1.91	26.15	6
1966	0.24	0.20	0.32	0.22	0.88	0.56	3.99	0.05	1.48	3.67	3.63	2.03	17.27	45
1967	0.91	0.63	0.84	0.24	0.41	0.72	2.69	3.46	7.75	1.76	1.68	1.35	22.44	16
1968	0.30	0.37	0.68	0.57	0.23	0.56	1.13	2.43	6.12	2.74	3.33	1.34	19.80	27
1969	0.14	0.38	0.60	0.32	1.04	0.46	1.23	2.42	3.88	5.87	0.92	0.78	18.04	37
1970	1.40	0.25	0.22	0.22	0.30	1.45	3.50	3.84	3.02	1.85	1.76	1.92	19.73	28
1971	1.05	0.62	0.61	1.17	0.77	1.72	4.89	4.59	2.42	1.47	0.88	2.73	22.92	11
1972	1.45	0.90	0.32	0.60	0.26	0.59	1.94	3.01	7.36	2.96	2.84	0.56	22.79	12
1973	0.87	0.26	0.50	0.06	0.25	2.36	3.55	1.44	1.48	3.86	1.86	1.97	18.46	34
1974	0.71	0.81	0.55	0.48	0.14	0.20	0.83	1.67	1.19	2.79	1.18	0.90	11.45	64
1975	1.98	0.11	0.09	0.87	0.56	1.32	2.25	2.31	4.74	1.06	1.03	0.09	16.41	48
1976	0.38	0.39	0.67	0.21	1.04	0.53	3.83	3.41	6.19	3.27	1.85	0.75	22.52	15
1977	0.19	0.34	0.19	0.35	0.26	1.75	1.79	2.04	2.89	4.47	2.69	1.99	18.95	30
1978	0.86	0.64	0.74	0.34	0.81	0.25	1.96	7.20	1.61	4.20	1.92	0.45	20.98	20
1979	0.36	0.69	0.50	0.33	0.37	0.33	0.97	1.55	3.69	7.21	2.46	0.14	18.60	32
1980	0.68	0.26	0.16	0.25	0.32	0.87	1.41	2.31	2.72	2.74	2.61	0.65	14.98	53
1981	2.14	0.37	0.60	0.06	0.11	0.23	0.69	6.70	1.26	4.42	1.56	0.38	18.52	33
1982	1.82	0.09	0.80	0.56	0.38	1.06	0.90	5.48	4.25	2.88	2.34	2.45	23.01	10
1983	1.86	0.35	0.52	0.14	0.12	1.45	0.70	3.31	2.27	0.88	2.48	0.55	14.63	54
1984	2.37	0.87	0.49	0.10	0.14	0.51	2.77	1.72	4.76	4.07	1.53	0.57	19.90	26
1985	0.56	0.56	0.36	0.28	0.04	0.97	0.79	0.88	0.91	2.41	0.75	2.20	10.71	67
1986	0.74	1.76	0.42	0.07	0.67	0.79	3.34	1.55	5.79	1.20	1.86	4.47	22.66	14
1987	1.98	0.92	0.08	0.06	1.81	1.64	0.16	3.80	1.03	1.27	1.93	0.54	15.22	52
1988	0.55	0.28	0.42	0.17	0.24	0.45	0.96	2.38	2.51	1.32	2.16	0.35	11.79	63
1989	0.50	1.12	0.46	0.03	0.64	1.12	1.25	1.88	2.63	2.30	1.55	6.43	19.91	25
1990	1.61	0.50	0.82	0.07	0.80	1.58	1.68	6.95	1.61	5.30	1.35	1.43	23.70	8
1991	0.72	0.90	0.73	0.20	0.87	0.56	5.30	5.82	5.42	3.22	1.70	1.50	26.94	4
1992	1.16	1.82	0.02	0.16	0.33	2.18	1.05	3.34	3.73	3.88	1.37	0.74	19.95	24
1993	0.66	0.33	0.95	1.14	1.19	1.41	4.01	3.80	6.73	2.11	2.73	1.51	26.57	5
1994	2.75	0.73	0.61	0.46	0.98	0.64	1.38	1.46	1.87	1.20	2.91	0.81	15.80	50
1995	4.10	0.66	0.81	0.02	0.91	1.38	3.34	9.28	6.31	3.27	0.33	1.46	31.87	1
1996	2.65	0.33	0.21	1.08	0.18	1.18	2.17	7.40	2.47	2.52	5.13	2.88	28.20	3
1997	3.55	0.61	1.17	0.35	0.92	0.83	2.53	6.33	2.85	5.70	2.12	2.22	29.18	2
1998	0.97	0.06	0.24	0.71	1.07	2.70	0.60	3.41	6.04	2.39	3.04	1.48	22.71	13
Mean 1961-90	0.99	0.50	0.48	0.32	0.50	0.94	1.93	3.36	3.57	3.16	1.79	1.49	19.03	

Measured (shaded) and estimated precipitation, in inches, for site 79, Camp Remington near Hayward (434939103272800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.40	0.63	0.04	0.21	0.32	0.66	0.92	1.79	1.79	1.14	2.87	0.26	14.03	59
1932	1.63	0.75	0.55	0.84	0.30	0.81	3.63	3.33	3.48	2.55	3.32	0.24	21.43	24
1933	1.53	0.09	0.28	0.45	0.37	0.99	3.33	5.97	0.79	2.50	4.46	0.51	21.27	25
1934	0.03	0.20	0.17	0.22	0.29	1.20	0.67	0.22	2.66	1.58	1.20	0.96	9.40	68
1935	2.44	0.22	0.54	0.13	0.50	0.83	1.82	6.01	2.70	0.85	0.45	1.18	17.67	42
1936	0.29	0.33	0.11	0.43	0.57	0.85	1.79	0.57	4.05	0.48	2.36	0.60	12.43	63
1937	0.84	1.10	0.22	0.44	0.37	1.19	0.35	2.23	2.67	2.57	0.65	0.57	13.20	62
1938	0.36	0.28	0.79	0.30	0.20	1.06	1.94	5.12	1.92	2.49	1.08	1.25	16.79	48
1939	0.49	0.77	0.18	0.21	0.27	1.09	0.67	2.28	1.89	1.40	4.27	1.41	14.93	57
1940	1.23	0.00	0.31	0.36	0.30	0.80	3.10	0.61	1.48	2.02	2.12	1.84	14.17	58
1941	1.19	0.28	0.39	0.12	0.10	0.89	5.06	1.69	3.81	2.03	3.35	1.43	20.34	28
1942	2.83	0.20	0.46	0.08	0.52	1.12	4.12	3.06	4.38	1.62	2.03	1.86	22.28	17
1943	1.63	0.31	0.27	0.55	0.42	1.08	4.40	3.52	4.85	1.70	0.47	0.30	19.50	33
1944	0.95	0.08	0.19	1.58	0.48	0.87	1.36	3.03	3.56	3.69	0.65	0.26	16.70	49
1945	0.75	1.06	0.46	0.47	0.44	1.91	0.86	2.17	3.54	1.50	2.96	1.55	17.67	43
1946	0.10	0.15	0.23	0.17	0.32	1.35	0.99	7.44	3.20	2.18	2.83	2.98	21.94	21
1947	2.09	0.18	0.35	0.69	0.05	0.74	1.99	2.71	7.95	2.00	2.93	0.25	21.93	22
1948	1.19	0.91	0.15	0.29	0.53	0.48	1.84	1.54	3.84	2.55	1.57	0.46	15.35	54
1949	0.91	0.47	0.79	1.44	0.05	0.50	1.45	4.45	3.15	2.15	1.85	1.11	18.32	38
1950	0.81	0.04	0.45	0.29	0.19	1.67	1.50	1.83	1.57	2.61	1.94	2.45	15.35	55
1951	0.36	0.14	0.10	0.11	0.23	0.53	0.89	1.88	4.87	2.63	1.78	2.04	15.56	52
1952	0.87	0.17	0.51	0.07	0.34	0.86	0.19	7.43	3.17	1.91	2.11	0.25	17.88	41
1953	0.23	0.60	0.11	0.68	1.56	1.23	3.12	1.22	2.61	1.15	3.44	0.62	16.57	51
1954	0.23	0.64	0.17	0.13	0.50	1.35	0.48	2.31	1.37	1.92	2.16	0.43	11.69	64
1955	1.86	0.54	0.27	0.27	1.07	1.43	0.84	2.31	2.96	2.30	2.35	1.85	18.05	40
1956	0.22	0.73	0.70	0.46	0.55	0.79	1.18	4.24	1.68	3.30	3.20	0.26	17.31	46
1957	0.29	1.78	0.47	0.34	0.09	0.52	2.75	7.24	4.88	2.11	1.42	0.61	22.50	16
1958	1.54	0.29	0.23	0.20	0.78	0.91	3.18	1.82	3.47	4.44	0.49	0.06	17.41	45
1959	0.10	0.55	0.27	0.30	0.49	1.20	1.83	2.98	5.20	2.31	0.44	2.73	18.40	36
1960	0.20	0.93	0.09	0.31	0.50	0.36	1.26	1.70	3.20	1.25	1.02	0.71	11.53	66
1961	0.03	0.55	0.56	0.02	0.46	1.24	1.37	2.22	1.59	3.20	1.07	1.44	13.75	60
1962	1.20	0.20	0.14	0.38	1.16	0.59	0.41	9.14	5.20	6.44	0.55	1.22	26.63	8
1963	1.67	0.30	0.10	0.59	0.25	1.67	4.19	2.53	6.68	2.91	1.52	2.70	25.11	11
1964	0.93	0.09	0.34	0.36	0.44	0.92	1.35	3.68	5.67	2.83	0.97	0.82	18.40	37
1965	0.19	0.30	1.71	0.65	0.30	0.72	1.55	7.85	6.17	4.25	2.18	2.03	27.90	6
1966	0.19	0.22	0.35	0.23	0.93	0.58	4.70	0.05	1.12	3.71	3.63	1.96	17.67	44
1967	0.87	0.59	0.91	0.27	0.42	0.72	2.60	3.51	7.38	1.58	1.96	1.39	22.20	18
1968	0.35	0.41	0.63	0.58	0.22	0.69	1.21	2.63	6.04	2.99	3.45	1.36	20.56	27
1969	0.13	0.41	0.69	0.42	1.16	0.50	1.39	2.55	3.86	6.43	1.21	0.95	19.70	32
1970	1.45	0.25	0.24	0.24	0.30	1.52	3.33	3.75	3.16	2.09	2.29	1.59	20.21	30
1971	1.12	0.68	0.63	1.30	0.84	2.02	4.99	5.29	2.73	1.63	1.02	2.91	25.16	10
1972	1.50	0.95	0.46	0.83	0.28	0.60	1.78	2.81	8.45	2.94	2.86	0.53	23.99	13
1973	0.98	0.21	0.35	0.08	0.26	2.38	3.72	1.28	1.89	3.92	1.89	2.06	19.02	34
1974	0.62	0.99	0.70	0.58	0.13	0.20	0.87	1.67	1.19	2.62	1.27	0.80	11.64	65
1975	2.02	0.19	0.11	0.78	0.65	1.22	2.65	2.49	4.67	1.10	0.96	0.12	16.96	47
1976	0.44	0.38	0.76	0.21	1.21	0.47	3.82	3.62	5.70	3.44	2.13	0.87	23.05	15
1977	0.16	0.31	0.19	0.34	0.25	1.63	1.68	1.56	2.98	4.70	2.82	1.93	18.55	35
1978	0.82	0.64	0.82	0.36	0.83	0.24	2.23	7.53	1.58	4.22	1.92	0.68	21.87	23
1979	0.37	0.70	0.63	0.35	0.40	0.38	1.00	1.61	4.29	8.02	2.89	0.16	20.80	26
1980	0.68	0.27	0.17	0.26	0.32	0.88	1.39	2.35	2.80	2.89	2.90	0.65	15.56	53
1981	1.94	0.35	0.53	0.06	0.11	0.26	0.73	6.70	1.19	4.29	1.64	0.42	18.22	39
1982	2.28	0.08	0.84	0.59	0.39	1.03	0.91	5.40	4.45	2.74	2.17	2.50	23.38	14
1983	1.59	0.36	0.62	0.18	0.09	1.49	0.75	3.22	2.83	1.07	2.60	0.48	15.28	56
1984	2.53	1.06	0.57	0.12	0.20	0.48	2.80	1.72	5.14	4.82	1.88	0.79	22.11	19
1985	0.65	0.56	0.40	0.31	0.05	1.07	0.84	1.00	1.01	2.00	0.68	2.57	11.14	67
1986	0.79	1.85	0.47	0.11	0.97	0.85	3.32	1.62	6.21	1.13	2.15	5.04	24.51	12
1987	2.15	0.92	0.01	0.06	1.86	1.90	0.21	4.36	0.93	1.48	2.14	0.62	16.64	50
1988	0.75	0.31	0.46	0.29	0.27	0.61	0.94	2.28	2.83	1.96	2.38	0.42	13.50	61
1989	0.48	1.23	0.32	0.06	0.82	0.99	1.56	2.23	2.92	1.67	2.37	5.67	20.32	29
1990	1.72	0.92	0.96	0.09	0.95	1.94	2.55	6.80	1.53	5.39	1.25	1.44	25.54	9
1991	0.81	0.96	0.73	0.32	0.85	1.19	5.21	8.43	4.56	1.66	1.56	1.30	27.58	7
1992	0.90	1.58	0.00	0.14	0.45	2.35	1.20	2.89	5.67	4.49	1.88	0.40	21.95	20
1993	0.92	0.35	1.11	1.25	1.28	1.49	4.35	4.67	6.04	3.66	2.26	1.21	28.59	5
1994	3.00	0.97	0.83	0.43	0.96	0.97	2.12	2.34	2.06	1.64	3.78	0.86	19.96	31
1995	5.96	0.80	0.70	0.07	1.19	1.48	3.43	11.79	5.22	2.76	0.48	1.60	35.48	1
1996	3.40	0.54	0.38	1.15	0.24	1.48	2.88	7.60	1.63	2.26	6.34	2.41	30.31	2
1997	4.82	0.55	1.35	0.38	0.97	0.62	3.53	6.12	2.29	4.13	2.21	2.01	28.98	3
1998	1.35	0.09	0.28	0.90	1.45	3.30	1.38	3.86	5.74	5.83	2.68	1.90	25.65	4
Mean 1961-90	1.02	0.54	0.52	0.36	0.55	0.99	2.03	3.45	3.74	3.28	1.96	1.54	19.98	

Measured (shaded) and estimated precipitation, in inches, for site 80, Medicine Mountain near Custer (435355103432800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.53	0.55	0.23	0.38	0.35	0.96	0.98	1.59	1.82	1.23	2.17	0.32	13.11	64
1932	1.33	0.81	0.41	1.05	0.21	0.74	4.52	3.67	3.64	3.13	2.88	0.64	23.03	17
1933	1.99	0.28	0.46	0.65	0.61	1.00	3.68	5.46	1.82	2.54	3.28	0.68	22.45	18
1934	0.08	0.28	0.30	0.43	0.30	1.00	0.84	0.44	3.98	0.96	1.71	1.13	11.45	68
1935	1.83	0.37	0.58	0.17	0.51	0.84	1.48	4.96	3.08	2.44	0.80	1.01	18.07	41
1936	0.28	0.44	0.27	0.54	0.54	0.88	1.45	0.42	3.28	1.04	1.98	0.43	11.55	67
1937	0.72	0.88	0.17	0.39	0.39	0.95	0.40	2.24	3.06	3.22	0.98	0.84	14.24	59
1938	0.24	0.29	0.89	0.66	0.26	1.04	2.14	4.63	1.82	2.19	0.72	1.10	15.98	54
1939	0.37	0.74	0.48	0.58	0.38	1.02	1.17	2.09	2.36	1.99	4.45	1.17	16.80	49
1940	1.11	0.01	0.37	0.38	0.35	0.91	2.58	0.75	1.97	1.51	1.74	1.77	13.45	62
1941	1.30	0.31	0.37	0.10	0.13	0.97	4.57	1.94	4.57	3.27	3.07	1.64	22.24	22
1942	2.65	0.23	0.44	0.11	0.45	1.20	3.57	3.19	4.06	1.73	1.96	2.06	21.65	23
1943	1.84	0.62	0.47	0.71	0.53	1.01	3.98	3.29	4.22	2.27	1.04	0.26	20.24	29
1944	1.00	0.36	0.09	1.56	0.46	1.05	1.10	2.71	3.68	3.03	0.39	0.42	15.85	55
1945	0.74	1.34	0.43	0.69	0.54	1.62	1.19	2.99	3.07	1.71	3.15	2.07	19.54	31
1946	0.10	0.16	0.57	0.30	0.55	1.68	1.59	7.94	3.69	2.35	2.40	3.64	24.97	9
1947	2.76	0.23	0.57	0.97	0.27	0.95	1.97	2.18	7.61	2.03	2.25	0.51	22.30	20
1948	1.43	1.24	0.14	0.57	0.59	0.37	2.12	1.43	4.38	3.27	2.22	0.90	18.66	35
1949	0.62	0.81	0.46	1.76	0.10	0.51	1.65	3.50	3.55	2.18	1.22	1.05	17.41	44
1950	0.87	0.12	0.53	0.36	0.28	2.00	1.90	2.02	1.53	3.07	2.14	2.56	17.38	45
1951	0.47	0.31	0.17	0.16	0.27	0.55	1.29	1.64	4.23	2.59	2.10	2.48	16.26	52
1952	0.94	0.35	0.86	0.06	0.38	0.84	0.35	7.63	2.49	2.00	1.67	0.21	17.78	42
1953	0.54	0.37	0.06	0.96	1.04	1.14	2.51	1.43	2.96	1.80	2.48	0.25	15.54	57
1954	0.20	0.52	0.40	0.14	0.57	1.16	0.22	2.63	1.98	1.72	2.61	0.48	12.63	66
1955	1.99	0.55	0.20	0.37	0.69	1.20	1.07	2.15	3.54	2.94	2.86	1.91	19.47	32
1956	0.27	0.86	0.79	0.52	0.52	0.76	1.63	3.95	1.24	2.57	2.81	0.20	16.12	53
1957	0.37	1.68	0.43	0.37	0.19	0.82	2.55	5.82	4.70	2.11	1.58	0.82	21.44	24
1958	0.97	0.42	0.36	0.33	0.65	0.85	2.90	1.38	3.74	4.09	0.96	0.18	16.83	48
1959	0.27	0.81	0.35	0.36	0.68	1.48	1.75	3.14	4.65	2.43	0.56	2.46	18.94	34
1960	0.28	1.11	0.14	0.29	0.61	0.35	1.76	1.96	2.87	1.56	1.44	1.06	13.43	63
1961	0.04	0.65	0.54	0.04	0.41	1.08	1.46	1.70	1.52	3.80	1.22	1.73	14.19	60
1962	0.97	0.29	0.23	0.51	1.04	0.53	0.65	8.45	5.55	5.42	0.86	1.22	25.72	7
1963	1.28	0.23	0.17	0.57	0.48	1.36	4.53	2.56	6.26	2.50	1.60	2.77	24.31	11
1964	0.92	0.15	0.43	0.52	0.61	0.79	1.37	3.51	5.50	2.09	1.73	0.98	18.60	38
1965	0.11	0.34	2.01	0.66	0.28	0.60	1.39	9.02	5.16	4.55	1.81	1.77	27.70	5
1966	0.12	0.29	0.32	0.20	0.80	0.54	3.46	0.06	0.95	4.63	3.43	1.74	16.54	51
1967	1.00	0.61	0.87	0.30	0.56	0.65	2.45	2.88	6.68	1.68	2.05	1.49	21.22	26
1968	0.45	0.36	0.59	0.56	0.22	0.47	1.11	2.42	5.37	3.09	3.39	1.32	19.35	33
1969	0.16	0.45	0.65	0.33	1.34	0.44	1.89	2.42	3.89	6.60	1.53	0.96	20.66	28
1970	1.10	0.42	0.23	0.39	0.31	1.49	2.86	2.86	3.22	2.07	1.96	1.23	18.14	40
1971	1.24	0.65	0.59	0.95	0.80	1.54	4.66	4.40	3.99	1.66	0.98	2.83	24.29	12
1972	1.77	0.88	0.36	0.65	0.29	0.58	1.85	2.68	8.32	2.90	3.12	0.67	24.07	13
1973	0.89	0.28	0.31	0.10	0.27	3.10	3.68	1.43	3.10	3.49	2.00	2.27	20.92	27
1974	0.53	0.92	0.70	0.53	0.21	0.26	1.32	1.74	0.82	3.74	2.00	0.79	13.56	61
1975	2.09	0.30	0.33	0.88	0.54	1.32	2.94	2.42	4.68	1.00	0.62	0.11	17.23	47
1976	0.60	0.43	0.90	0.30	1.28	0.43	3.64	3.54	5.90	3.17	1.83	1.08	23.10	16
1977	0.25	0.68	0.26	0.76	0.53	1.65	1.73	1.68	3.20	4.15	3.32	1.79	20.00	30
1978	0.74	0.84	0.86	0.33	0.91	0.30	2.73	7.43	1.74	3.71	1.95	0.72	22.26	21
1979	0.53	0.79	0.82	0.51	0.57	0.45	1.23	1.68	4.37	8.07	3.10	0.22	22.34	19
1980	0.80	0.51	0.30	0.36	0.41	0.99	1.46	2.77	2.66	2.72	2.83	0.86	16.67	50
1981	1.75	0.48	0.53	0.07	0.15	0.32	0.72	6.27	1.26	5.08	1.35	0.66	18.64	36
1982	2.02	0.07	0.88	0.69	0.75	1.15	1.00	5.68	4.65	3.41	2.28	2.87	25.45	8
1983	1.85	0.42	0.73	0.51	0.22	1.55	1.15	2.66	2.69	1.38	4.74	0.71	18.61	37
1984	2.52	1.24	0.70	0.10	0.18	0.42	3.26	1.96	4.46	4.19	1.33	0.98	21.34	25
1985	0.82	0.93	0.34	0.26	0.10	1.19	1.08	1.27	1.37	2.38	0.96	2.21	12.91	65
1986	0.81	1.65	0.71	0.23	1.37	0.61	3.59	1.86	5.45	1.83	1.37	5.32	24.80	10
1987	1.84	1.26	0.01	0.18	1.76	1.42	0.26	4.86	0.76	1.76	2.16	1.03	17.30	46
1988	0.89	0.45	0.44	0.35	0.45	0.72	0.97	2.77	2.68	2.15	2.62	0.51	15.00	58
1989	0.40	0.99	0.55	0.40	0.65	1.10	2.20	2.50	1.60	1.00	2.00	4.10	17.49	43
1990	1.70	1.20	0.90	0.10	1.15	2.27	2.33	4.18	1.60	5.60	2.00	1.00	24.03	14
1991	0.94	0.64	0.80	0.60	1.00	1.20	3.10	6.20	3.40	1.60	3.00	0.78	23.26	15
1992	1.40	1.20	0.10	0.60	0.40	2.40	1.30	1.10	4.40	2.60	2.10	0.60	18.20	39
1993	1.50	0.90	1.50	0.60	1.10	1.10	2.30	4.00	5.60	4.50	2.20	1.00	26.30	6
1994	1.60	0.70	1.10	0.90	0.12	0.26	4.60	2.05	1.89	1.34	0.65	0.57	15.78	56
1995	3.64	1.29	0.73	0.11	1.04	1.49	3.58	7.87	4.00	1.78	1.30	1.35	28.18	4
1996	3.15	0.82	0.47	1.38	0.46	1.97	3.11	5.79	3.12	3.20	5.21	2.53	31.21	1
1997	3.78	1.00	1.40	0.58	0.86	0.65	3.57	3.78	2.23	7.07	2.09	1.32	28.33	3
1998	1.53	0.50	0.88	0.62	1.87	1.83	1.19	3.89	6.95	4.23	2.91	3.00	29.40	2
Mean 1961-90	1.01	0.63	0.58	0.41	0.62	0.98	2.10	3.32	3.65	3.33	2.07	1.53	20.21	

Measured (shaded) and estimated precipitation, in inches, for site 81, Little Bear Run near Newcastle, Wyo. (435827104032500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.62	0.49	0.65	0.54	0.41	1.46	1.10	1.68	1.41	1.21	1.02	0.36	11.95	67
1932	0.99	0.67	0.39	1.18	0.26	0.90	4.68	3.47	3.62	3.14	2.77	0.67	22.74	17
1933	2.23	0.47	0.75	0.95	0.92	1.16	3.12	5.05	1.73	1.41	2.44	0.66	20.89	23
1934	0.27	0.43	0.38	0.59	0.47	0.99	0.97	0.41	4.05	0.59	2.28	1.11	12.54	64
1935	1.25	0.46	0.72	0.21	0.62	1.12	1.36	4.34	2.66	2.27	0.74	0.78	16.53	49
1936	0.42	0.64	0.48	0.71	0.69	0.86	1.28	0.26	2.15	1.41	1.23	0.40	10.53	68
1937	0.82	0.76	0.31	0.62	0.51	0.99	0.48	1.89	3.25	3.45	1.02	0.96	15.06	57
1938	0.28	0.53	1.12	1.28	0.43	1.07	1.86	4.30	1.71	1.85	0.83	0.94	16.20	52
1939	0.26	0.76	0.67	0.96	0.62	0.81	1.72	1.71	3.22	1.44	3.94	0.85	16.96	46
1940	1.04	0.03	0.60	0.50	0.56	1.06	2.96	0.91	2.04	1.11	0.81	1.69	13.31	62
1941	1.27	0.38	0.52	0.18	0.20	1.01	4.25	2.24	5.32	2.97	2.58	2.00	22.92	15
1942	1.97	0.45	0.55	0.18	0.40	1.22	3.19	2.98	3.70	1.92	2.27	1.99	20.82	25
1943	1.88	1.00	0.70	0.84	0.67	1.21	2.69	2.52	3.67	2.02	1.43	0.34	18.97	35
1944	1.44	0.75	0.18	1.40	0.30	1.11	1.16	2.77	3.88	2.39	0.47	0.47	16.32	51
1945	0.70	1.24	0.49	0.83	0.61	1.41	1.02	3.61	3.24	1.76	3.99	2.54	21.44	20
1946	0.12	0.23	0.76	0.41	0.52	1.57	1.86	7.47	4.00	2.32	1.40	3.68	24.34	7
1947	2.79	0.28	0.74	0.91	0.42	1.03	2.10	1.75	6.55	1.46	0.99	0.46	19.48	31
1948	1.20	1.63	0.15	0.88	0.69	0.25	2.35	1.20	3.95	2.92	1.94	0.94	18.10	40
1949	0.50	1.12	0.13	1.25	0.12	0.48	1.75	2.28	3.63	1.15	0.89	0.89	14.19	60
1950	1.00	0.38	0.79	0.34	0.53	2.26	1.91	2.06	1.27	2.65	1.69	2.31	17.19	45
1951	0.87	0.41	0.39	0.34	0.32	0.68	1.00	1.23	4.76	2.45	3.64	3.47	19.56	29
1952	0.90	1.06	1.13	0.15	0.41	1.10	0.29	6.00	2.33	2.45	1.83	0.22	17.87	42
1953	0.18	0.67	0.19	0.95	0.80	0.99	2.61	1.66	3.16	1.36	3.16	0.17	15.90	53
1954	0.32	0.64	0.45	0.12	0.57	1.09	0.20	2.48	1.65	2.28	2.04	0.32	12.16	66
1955	1.78	0.40	0.26	0.69	0.59	1.09	1.03	2.81	3.25	2.60	2.61	1.83	18.94	36
1956	0.40	0.92	1.05	0.44	0.33	0.98	1.73	3.59	1.50	2.22	2.21	0.21	15.58	55
1957	0.57	1.35	0.50	0.52	0.26	1.17	1.59	4.76	4.36	2.65	1.74	0.89	20.36	28
1958	0.87	0.89	0.65	0.44	0.85	0.99	2.18	1.23	3.80	4.83	1.78	0.21	18.72	38
1959	0.95	0.90	0.61	0.64	1.46	1.23	1.36	2.97	4.60	1.08	0.40	1.89	18.09	41
1960	0.56	1.44	0.29	0.27	1.14	0.64	1.68	1.13	3.16	0.66	1.46	1.26	13.69	61
1961	0.08	0.65	0.95	0.08	0.48	0.75	1.48	1.46	1.27	2.87	0.89	1.89	12.85	63
1962	0.76	0.41	0.73	0.89	1.05	0.52	1.10	7.61	4.58	2.99	1.21	1.51	23.36	11
1963	0.50	0.29	0.54	1.03	1.48	0.93	4.66	2.78	5.26	2.63	0.78	2.39	23.27	12
1964	0.75	0.19	0.86	0.54	1.85	0.78	1.99	4.07	7.61	0.50	3.91	0.75	23.80	9
1965	0.23	0.47	1.53	1.52	0.35	0.62	1.51	7.32	4.98	4.15	1.59	1.94	26.21	3
1966	0.01	0.51	0.25	0.29	0.82	0.92	3.15	0.16	1.53	4.16	3.17	1.61	16.58	48
1967	1.24	0.63	0.94	0.71	1.08	0.68	2.46	2.75	4.90	1.76	1.78	3.36	22.29	18
1968	0.92	0.49	1.13	0.48	0.51	0.30	1.14	2.42	4.68	2.34	2.71	1.67	18.79	37
1969	0.27	1.08	0.81	0.58	0.96	0.75	3.41	2.47	4.61	4.67	1.03	0.98	21.62	19
1970	0.85	1.03	0.72	0.99	0.36	1.58	2.62	3.02	2.21	2.29	0.77	0.88	17.32	44
1971	0.94	0.75	0.73	1.15	1.00	1.12	4.41	3.86	2.41	1.11	1.32	2.24	21.04	22
1972	2.63	0.93	0.36	0.97	0.58	0.88	1.63	4.01	4.63	2.94	3.73	0.85	24.14	8
1973	0.81	0.49	0.62	0.19	0.38	2.37	3.35	1.66	4.05	2.50	1.67	3.19	21.28	21
1974	0.57	0.71	1.17	0.64	0.52	0.31	1.47	1.39	0.97	3.07	3.81	0.97	15.60	54
1975	1.80	0.56	0.83	1.26	0.52	2.02	3.13	2.42	4.70	0.70	0.50	0.18	18.62	39
1976	0.87	0.55	1.09	0.59	1.29	0.52	2.02	3.22	6.02	2.63	1.24	0.85	20.89	24
1977	0.37	1.35	0.64	1.72	1.15	1.69	2.04	2.14	2.41	2.34	3.29	1.65	20.79	26
1978	1.30	1.06	0.90	0.43	1.21	0.48	2.97	6.65	1.91	3.86	1.40	0.65	22.82	16
1979	0.94	0.85	1.30	0.81	0.93	0.29	0.99	2.08	3.54	4.82	3.71	0.36	20.62	27
1980	0.49	0.79	0.50	0.55	0.57	1.12	1.19	3.70	1.80	1.65	2.44	0.76	15.56	56
1981	1.52	0.41	0.82	0.14	0.22	0.36	0.67	4.42	1.01	4.67	1.86	0.84	16.94	47
1982	1.32	0.28	0.83	0.94	1.49	2.64	1.63	4.41	3.00	3.22	1.96	1.91	23.63	10
1983	2.41	0.46	0.66	0.66	0.17	1.17	1.02	1.94	2.29	1.15	3.98	0.49	16.40	50
1984	2.74	1.59	0.71	0.41	0.27	0.83	2.83	1.47	3.45	2.41	1.39	0.95	19.05	34
1985	0.85	0.97	0.42	0.35	0.40	1.24	0.84	1.00	1.65	1.93	0.96	1.61	12.22	65
1986	0.68	1.53	0.91	0.42	1.40	0.69	3.32	1.79	5.36	1.34	1.17	4.38	22.99	14
1987	1.88	1.22	0.06	0.34	1.52	1.00	0.21	3.73	0.83	1.17	1.30	1.08	14.34	58
1988	0.74	0.55	0.22	0.47	0.71	0.69	0.83	3.22	2.46	1.46	1.76	1.08	14.19	59
1989	0.60	1.25	0.66	0.22	0.79	1.02	2.67	2.47	2.04	0.99	2.08	2.57	17.36	43
1990	1.31	1.40	1.65	0.64	0.93	1.51	1.75	2.93	0.98	3.20	1.92	1.04	19.26	33
1991	1.19	0.60	1.18	0.91	1.10	1.08	3.51	6.11	3.54	1.63	1.57	0.78	23.20	13
1992	0.71	1.48	0.24	0.52	0.76	1.69	2.29	2.78	2.22	3.58	2.44	0.61	19.32	32
1993	0.55	1.35	1.51	0.88	0.88	0.68	2.11	4.70	6.78	3.48	2.09	1.03	26.04	4
1994	1.15	0.98	1.84	2.02	1.48	1.21	3.57	1.95	1.45	1.99	1.21	0.65	19.50	30
1995	4.57	1.53	0.44	0.20	1.17	2.26	2.23	4.32	4.18	2.68	1.49	1.72	26.79	2
1996	2.60	0.69	0.41	2.01	0.57	2.96	2.60	5.49	2.61	2.26	3.25	1.42	26.87	1
1997	3.39	1.03	2.22	1.00	1.05	0.79	2.49	2.50	1.96	5.05	1.03	1.91	24.42	6
1998	1.37	0.77	1.25	0.95	1.34	2.23	0.99	3.02	6.10	1.51	4.44	2.05	26.02	5
Mean 1961-90	1.01	0.78	0.78	0.67	0.83	0.99	2.08	3.09	3.24	2.52	1.98	1.49	19.46	

Measured (shaded) and estimated precipitation, in inches, for site 82, near Sheridan Lake near Hill City (440001103300200)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.68	0.67	0.29	0.42	0.33	1.08	0.92	1.53	1.72	1.41	1.85	0.31	13.21	60
1932	1.25	0.92	0.43	1.01	0.21	0.75	4.62	4.13	3.03	3.06	3.16	0.60	23.17	15
1933	1.98	0.22	0.43	0.49	0.55	1.21	3.59	5.80	1.69	2.28	3.29	0.46	21.99	19
1934	0.11	0.29	0.29	0.36	0.34	0.89	0.98	0.44	4.05	0.80	1.19	1.01	10.75	67
1935	1.73	0.43	0.59	0.15	0.53	1.00	1.90	5.55	3.19	2.52	0.71	0.77	19.07	31
1936	0.31	0.47	0.31	0.59	0.52	0.92	1.48	0.38	2.58	0.87	1.61	0.47	10.51	68
1937	0.79	0.85	0.12	0.34	0.36	1.17	0.44	2.35	3.29	3.47	0.78	0.92	14.88	56
1938	0.24	0.28	0.88	0.72	0.24	0.92	2.49	4.14	2.16	2.07	0.63	1.11	15.88	53
1939	0.33	0.72	0.48	0.62	0.33	0.99	1.30	1.77	2.29	1.80	3.55	1.02	15.20	55
1940	1.19	0.00	0.38	0.31	0.32	0.98	2.72	0.66	1.97	1.28	1.67	1.64	13.12	61
1941	1.11	0.30	0.38	0.09	0.11	0.91	5.23	1.85	4.92	2.56	2.65	1.36	21.47	21
1942	2.29	0.15	0.44	0.07	0.38	0.95	3.75	3.65	3.55	1.77	1.49	1.85	20.34	25
1943	1.77	0.45	0.36	0.75	0.52	0.99	3.13	2.93	4.45	2.09	0.67	0.23	18.34	38
1944	1.00	0.44	0.11	1.48	0.40	0.90	1.27	2.98	3.83	3.39	0.39	0.37	16.56	51
1945	0.85	1.55	0.32	0.60	0.38	1.88	0.93	2.51	3.40	1.43	3.50	1.83	19.18	30
1946	0.09	0.09	0.31	0.16	0.35	1.49	1.80	7.57	4.07	2.59	1.95	3.64	24.11	12
1947	2.96	0.21	0.40	0.87	0.18	0.75	1.80	1.93	7.01	1.30	1.67	0.46	19.54	28
1948	1.29	0.92	0.12	0.44	0.43	0.24	2.07	1.70	4.75	3.17	2.60	0.75	18.48	35
1949	0.85	0.78	0.41	2.15	0.16	0.48	1.85	3.16	3.48	2.15	1.33	0.92	17.72	42
1950	1.11	0.16	0.46	0.31	0.27	2.38	1.86	1.91	1.56	3.23	1.92	2.45	17.62	43
1951	0.43	0.44	0.09	0.14	0.23	0.71	1.07	2.30	3.87	2.43	2.94	2.35	17.00	46
1952	1.25	0.22	0.70	0.10	0.44	0.77	0.37	8.73	2.63	1.76	1.48	0.43	18.88	33
1953	0.42	0.34	0.11	0.97	1.07	1.09	2.73	1.78	3.39	1.75	2.41	0.24	16.30	52
1954	0.19	0.55	0.41	0.17	0.51	1.37	0.16	2.66	2.28	1.65	2.75	0.36	13.06	62
1955	1.88	0.70	0.13	0.34	0.77	1.02	1.56	2.02	3.47	3.62	2.47	2.19	20.17	26
1956	0.33	0.80	0.80	0.49	0.41	0.67	1.59	3.75	1.17	2.50	2.98	0.21	15.70	54
1957	0.28	1.84	0.33	0.28	0.20	0.50	2.81	6.99	4.15	3.19	2.06	0.73	23.36	13
1958	0.79	0.36	0.22	0.31	0.47	0.74	3.23	1.52	4.12	3.51	1.07	0.23	16.57	50
1959	0.17	0.74	0.31	0.35	0.57	1.23	1.99	3.21	3.53	2.68	0.57	2.43	17.78	41
1960	0.18	0.99	0.09	0.29	0.55	0.31	1.87	1.83	2.63	1.66	1.96	1.14	13.50	58
1961	0.02	0.56	0.58	0.05	0.37	0.88	1.41	1.57	1.42	3.31	0.83	1.42	12.42	66
1962	1.26	0.22	0.16	0.30	0.86	0.60	0.72	9.82	7.48	6.08	1.39	1.11	30.00	1
1963	1.46	0.17	0.05	0.45	0.48	1.36	4.91	2.15	6.88	2.91	1.17	3.06	25.05	7
1964	0.95	0.12	0.28	0.41	0.44	0.66	1.43	3.71	5.84	2.23	1.64	1.22	18.93	32
1965	0.03	0.36	1.50	0.52	0.19	0.47	1.41	9.59	5.25	3.76	2.45	1.61	27.14	4
1966	0.15	0.15	0.30	0.13	0.61	1.08	2.90	0.17	1.12	4.44	3.69	2.53	17.27	45
1967	0.98	0.50	0.67	0.18	0.51	0.50	2.83	3.37	7.45	1.75	1.49	1.26	21.49	20
1968	0.36	0.29	0.44	0.58	0.23	0.24	1.06	2.30	5.63	1.75	2.78	1.18	16.84	47
1969	0.14	0.35	0.51	0.20	1.11	0.51	1.83	2.51	3.63	5.60	0.98	0.61	17.98	40
1970	1.37	0.36	0.15	0.28	0.35	1.46	3.27	3.99	3.68	2.09	2.74	1.25	20.99	23
1971	1.13	0.65	0.60	0.76	0.72	1.42	5.96	4.93	3.42	1.63	0.97	2.45	24.64	10
1972	1.85	0.95	0.17	0.27	0.29	0.65	2.05	2.82	11.01	3.31	3.02	0.50	26.89	5
1973	0.73	0.28	0.29	0.09	0.21	2.93	3.70	1.83	2.77	3.76	1.23	1.88	19.70	27
1974	0.86	0.86	0.59	0.36	0.12	0.26	1.07	1.74	0.93	4.18	1.42	0.92	13.31	59
1975	2.15	0.26	0.11	0.75	0.46	1.04	2.91	2.37	5.07	1.32	0.93	0.06	17.43	44
1976	0.51	0.43	0.78	0.31	0.94	0.33	4.35	3.75	6.36	3.43	1.99	1.13	24.31	11
1977	0.23	0.45	0.14	0.38	0.31	1.69	1.66	1.63	3.20	3.98	2.90	1.87	18.44	37
1978	0.77	0.74	0.73	0.34	0.76	0.27	2.62	6.87	1.68	3.99	1.98	0.55	21.30	22
1979	0.54	0.80	0.64	0.40	0.44	0.38	1.18	1.46	4.92	8.30	2.76	0.20	22.02	18
1980	0.77	0.31	0.17	0.27	0.41	0.95	1.67	2.25	2.73	2.00	2.58	0.74	14.85	57
1981	1.97	0.43	0.51	0.06	0.13	0.25	0.66	6.75	1.59	5.37	1.21	0.45	19.38	29
1982	2.23	0.06	0.68	0.50	0.41	1.26	0.89	5.98	4.11	3.60	2.62	2.70	25.04	8
1983	2.41	0.36	0.57	0.39	0.16	1.68	1.01	2.69	3.47	1.54	3.21	0.56	18.05	39
1984	1.97	1.16	0.57	0.14	0.17	0.61	3.88	1.89	4.83	4.97	1.47	1.10	22.76	17
1985	0.72	0.90	0.35	0.23	0.08	1.02	1.16	1.20	1.32	2.05	1.58	1.85	12.46	65
1986	0.69	1.77	0.72	0.14	1.19	0.71	3.74	1.86	4.46	1.98	2.09	5.99	25.34	6
1987	1.86	1.13	0.03	0.06	1.65	1.45	0.21	5.03	0.54	1.45	2.60	0.70	16.71	48
1988	0.69	0.27	0.30	0.22	0.27	0.84	0.75	2.59	3.09	1.23	2.35	0.31	12.91	63
1989	0.61	1.02	0.27	0.04	0.31	0.93	1.63	1.61	2.27	2.25	3.30	4.47	18.71	34
1990	0.22	0.31	0.52	0.03	0.57	1.30	1.72	3.37	1.74	4.23	1.60	1.00	16.61	49
1991	0.64	0.51	0.52	0.23	0.74	0.61	4.07	6.91	5.79	5.10	0.92	1.92	27.96	2
1992	1.13	1.02	0.01	0.09	0.20	2.09	1.50	2.55	3.29	4.69	1.28	0.63	18.48	36
1993	0.57	0.55	0.76	0.66	0.76	0.61	2.87	4.95	4.97	4.41	2.25	1.56	24.92	9
1994	1.71	0.34	0.46	0.30	0.53	0.54	1.94	1.87	0.94	1.05	1.52	1.36	12.56	64
1995	4.79	0.40	0.33	0.03	0.61	0.90	2.14	6.87	4.49	4.17	1.55	0.93	27.21	3
1996	2.81	0.52	0.07	0.64	0.11	1.36	2.13	6.07	1.60	2.22	4.17	1.55	23.25	14
1997	4.74	0.27	0.84	0.24	0.71	0.23	2.38	3.95	2.25	3.26	2.90	1.07	22.84	16
1998	1.08	0.07	0.30	0.43	0.64	2.07	0.95	2.82	5.28	1.84	2.70	2.55	20.73	24
Mean 1961-90	0.99	0.54	0.45	0.29	0.49	0.92	2.15	3.39	3.93	3.28	2.03	1.49	19.97	

Measured (shaded) and estimated precipitation, in inches, for site 83, Sheridan Lake Road near Rapid City (440022103195200)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	3.16	0.72	0.26	0.28	0.23	1.17	0.59	1.23	1.84	1.41	1.45	0.23	12.57	61
1932	1.00	0.66	0.53	0.77	0.21	0.61	4.17	4.51	2.41	2.77	3.41	0.36	21.41	14
1933	1.56	0.13	0.31	0.30	0.43	1.23	3.05	6.01	1.29	2.13	3.13	0.23	19.80	25
1934	0.14	0.18	0.27	0.29	0.37	0.77	1.02	0.41	3.55	0.72	0.80	0.64	9.16	66
1935	1.70	0.38	0.52	0.16	0.55	1.13	2.30	5.96	2.30	1.44	0.41	0.39	17.24	40
1936	0.32	0.35	0.25	0.55	0.55	0.85	1.31	0.22	1.86	0.51	1.19	0.51	8.47	68
1937	0.79	0.75	0.08	0.35	0.27	1.40	0.45	2.61	2.91	3.41	0.59	0.79	14.40	55
1938	0.19	0.28	0.85	0.56	0.20	0.87	2.78	3.68	2.86	1.81	0.67	1.19	15.94	51
1939	0.29	0.69	0.25	0.46	0.35	0.88	0.99	1.39	2.24	1.72	2.36	0.93	12.55	62
1940	1.28	0.00	0.33	0.24	0.28	0.99	2.93	0.55	1.95	1.08	1.59	1.45	12.67	60
1941	0.91	0.26	0.36	0.11	0.08	0.67	5.84	1.62	5.00	1.75	2.41	1.26	20.27	19
1942	2.16	0.12	0.44	0.05	0.41	0.75	4.01	4.15	3.41	1.78	0.93	1.71	19.92	22
1943	1.66	0.39	0.33	0.78	0.42	0.93	2.10	2.50	4.82	2.15	0.34	0.25	16.67	46
1944	1.07	0.34	0.17	1.63	0.45	0.96	1.46	3.31	4.33	3.98	0.47	0.33	18.50	30
1945	0.87	1.66	0.35	0.53	0.39	2.44	0.67	2.42	3.89	1.41	3.95	1.88	20.46	17
1946	0.13	0.07	0.20	0.13	0.24	1.43	1.89	7.36	4.57	2.66	1.54	3.66	23.88	9
1947	2.42	0.22	0.26	0.63	0.23	0.57	1.72	1.68	6.63	0.98	1.16	0.38	16.88	44
1948	1.18	0.83	0.14	0.40	0.44	0.20	1.77	1.75	4.75	2.78	2.38	0.54	17.16	42
1949	1.29	0.52	0.47	2.10	0.17	0.49	1.83	3.38	3.70	2.46	2.28	1.04	19.73	26
1950	1.27	0.13	0.43	0.32	0.15	2.42	1.72	2.01	1.31	2.15	1.83	2.39	16.13	49
1951	0.36	0.33	0.10	0.17	0.20	0.75	0.69	2.52	4.02	2.09	3.17	2.11	16.51	47
1952	1.26	0.27	0.63	0.08	0.58	0.76	0.38	6.59	2.98	1.73	1.20	0.33	16.79	45
1953	0.22	0.23	0.11	0.93	1.73	1.02	3.07	1.58	4.33	1.48	2.18	0.30	17.18	41
1954	0.20	0.75	0.26	0.19	0.42	1.78	0.24	2.45	2.80	1.23	2.30	0.17	12.79	59
1955	1.73	0.73	0.18	0.35	0.93	0.85	1.55	1.73	2.94	3.08	2.20	2.49	18.76	28
1956	0.29	0.59	0.81	0.47	0.40	0.76	1.63	3.36	1.10	2.58	3.29	0.30	15.58	53
1957	0.25	1.80	0.37	0.33	0.23	0.50	2.73	7.41	3.81	2.66	1.67	0.66	22.42	13
1958	1.10	0.37	0.14	0.32	0.51	0.86	3.68	1.63	3.91	3.80	0.78	0.15	17.25	39
1959	0.17	0.62	0.36	0.34	0.58	0.89	2.15	3.00	3.13	1.72	0.51	2.59	16.06	50
1960	0.20	1.11	0.10	0.29	0.70	0.49	1.63	1.83	2.80	1.15	1.85	0.92	13.07	58
1961	0.03	0.46	0.69	0.08	0.30	0.79	1.37	1.60	1.19	2.47	0.56	1.19	10.73	64
1962	1.24	0.25	0.26	0.37	0.93	0.83	0.68	9.59	7.06	6.04	1.12	0.99	29.36	1
1963	1.55	0.20	0.10	0.62	0.65	1.62	4.93	2.04	6.40	2.74	1.36	2.56	24.77	6
1964	0.88	0.10	0.29	0.36	0.57	0.66	1.31	3.43	5.86	2.00	1.53	1.10	18.09	33
1965	0.16	0.32	1.26	0.64	0.21	0.48	1.55	8.62	4.96	2.88	2.39	1.70	25.17	3
1966	0.26	0.16	0.27	0.19	0.79	1.40	2.93	0.26	1.30	4.72	3.48	2.65	18.41	32
1967	1.15	0.61	0.71	0.27	0.62	0.66	3.22	3.78	7.32	1.58	1.28	1.44	22.64	12
1968	0.33	0.32	0.62	0.59	0.31	0.27	1.42	2.15	6.41	1.69	2.85	1.09	18.05	34
1969	0.12	0.42	0.56	0.26	0.98	0.67	1.78	2.33	3.42	5.34	0.64	0.63	17.15	43
1970	1.35	0.37	0.31	0.52	0.45	1.56	3.95	3.99	3.27	1.71	2.15	1.49	21.12	15
1971	1.12	0.72	0.64	0.97	0.80	1.41	5.41	4.92	2.85	1.54	0.92	2.41	23.71	10
1972	1.90	0.93	0.18	0.26	0.35	0.62	2.22	3.07	9.22	3.00	2.59	0.44	24.78	5
1973	0.78	0.31	0.33	0.10	0.24	2.64	3.48	1.95	1.45	3.56	0.92	1.76	17.52	36
1974	0.88	0.76	0.55	0.33	0.19	0.28	1.14	1.73	1.22	3.29	1.74	0.98	13.09	57
1975	1.93	0.21	0.11	0.78	0.43	1.45	2.39	2.11	5.46	1.46	1.20	0.07	17.60	35
1976	0.50	0.50	0.92	0.25	0.82	0.32	4.00	3.75	6.42	2.84	1.92	0.77	23.01	11
1977	0.23	0.41	0.25	0.46	0.30	2.17	1.79	1.86	2.34	3.14	2.20	2.17	17.32	38
1978	1.13	0.68	0.51	0.26	0.84	0.28	2.44	5.86	1.77	4.07	2.03	0.45	20.32	18
1979	0.45	0.76	0.50	0.39	0.40	0.35	0.92	1.38	4.80	6.68	2.73	0.22	19.58	27
1980	0.73	0.21	0.12	0.21	0.39	0.87	1.49	2.05	2.58	1.87	2.62	0.61	13.75	56
1981	2.13	0.38	0.54	0.07	0.11	0.16	0.51	6.26	1.64	5.01	1.25	0.38	18.44	31
1982	2.07	0.09	0.55	0.40	0.37	1.26	0.87	6.00	3.53	3.57	3.44	2.60	24.75	7
1983	2.63	0.31	0.44	0.29	0.15	1.35	0.91	2.82	2.73	1.59	2.66	0.41	16.29	48
1984	1.83	1.14	0.51	0.13	0.14	0.43	3.66	1.90	5.09	3.61	1.46	1.00	20.90	16
1985	0.61	0.65	0.32	0.26	0.04	1.11	0.71	1.14	1.46	1.90	1.64	1.85	11.69	63
1986	0.67	1.80	0.77	0.15	0.92	0.77	3.82	1.87	4.41	2.18	2.47	5.18	25.01	4
1987	1.78	1.01	0.01	0.04	1.50	1.43	0.09	4.40	0.37	0.94	2.51	0.62	14.70	54
1988	0.63	0.21	0.19	0.03	0.10	0.30	0.66	2.69	1.39	0.64	2.07	0.07	8.98	67
1989	0.49	0.86	0.26	0.02	0.03	0.65	2.08	1.87	2.29	1.86	5.13	4.29	19.83	24
1990	1.89	0.35	0.27	0.00	0.31	0.97	1.57	4.99	1.53	3.68	1.66	1.32	18.54	29
1991	0.54	0.36	0.20	0.05	0.62	0.65	6.22	7.66	4.51	1.33	0.94	2.92	26.00	2
1992	0.88	0.91	0.00	0.01	0.16	1.66	0.68	2.66	3.12	4.57	0.71	0.39	15.75	52
1993	0.55	0.09	0.46	0.51	0.37	0.42	2.97	5.90	3.66	4.62	2.96	1.49	24.00	8
1994	1.20	0.15	0.07	0.04	0.06	0.17	1.05	2.84	0.99	1.95	0.78	0.95	10.25	65
1995	0.79	0.05	0.15	0.00	0.44	0.52	1.56	6.77	4.28	3.13	1.11	1.28	20.08	21
1996	2.20	0.41	0.03	0.20	0.03	0.68	1.44	7.91	1.53	1.33	1.84	2.29	19.89	23
1997	3.53	0.09	0.30	0.06	0.61	0.17	1.59	4.70	2.29	3.80	1.62	1.45	20.21	20
1998	0.59	0.02	0.09	0.26	0.50	1.79	0.80	1.83	4.73	1.70	2.34	2.82	17.47	37
Mean 1961-90	1.05	0.52	0.43	0.31	0.47	0.93	2.11	3.35	3.66	2.92	2.02	1.41	19.18	

Measured (shaded) and estimated precipitation, in inches, for site 84, Reynolds Prairie near Hill City (440242103520600)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.88	0.53	0.44	0.50	0.36	1.28	0.93	1.33	1.84	1.31	1.49	0.37	12.26	67
1932	1.02	0.76	0.34	1.18	0.20	0.82	4.96	3.97	3.53	3.43	2.42	0.84	23.47	22
1933	2.20	0.41	0.55	0.79	0.78	1.03	3.79	4.95	2.47	2.44	2.41	0.75	22.57	25
1934	0.13	0.33	0.41	0.60	0.34	0.86	0.94	0.60	4.75	0.50	2.06	1.15	12.67	66
1935	1.26	0.46	0.59	0.20	0.56	0.93	1.29	4.25	2.98	3.27	1.03	0.76	17.58	49
1936	0.29	0.52	0.38	0.64	0.57	0.87	1.08	0.27	2.42	1.36	1.54	0.35	10.29	68
1937	0.60	0.66	0.16	0.37	0.37	0.84	0.45	2.27	3.40	3.69	1.17	1.01	14.99	62
1938	0.15	0.34	0.95	0.96	0.28	1.04	2.33	4.12	1.86	1.91	0.45	1.10	15.49	59
1939	0.26	0.71	0.66	0.81	0.51	0.92	1.49	1.84	2.76	2.32	4.27	0.95	17.50	50
1940	1.03	0.02	0.39	0.39	0.40	0.98	2.35	0.88	2.33	1.16	1.45	1.66	13.04	65
1941	1.34	0.34	0.34	0.10	0.14	0.98	4.36	2.08	5.18	4.06	2.54	1.86	23.32	23
1942	2.24	0.24	0.38	0.12	0.35	1.14	3.16	3.51	3.54	1.96	1.61	2.00	20.25	36
1943	1.85	0.82	0.63	0.86	0.58	0.95	3.41	2.84	3.98	2.60	1.34	0.20	20.06	38
1944	1.11	0.59	0.05	1.55	0.44	1.16	1.00	2.58	3.91	2.68	0.20	0.47	15.74	57
1945	0.76	1.48	0.39	0.85	0.58	1.60	1.31	3.39	2.98	1.80	3.58	2.46	21.18	30
1946	0.09	0.18	0.74	0.37	0.65	1.81	2.05	8.05	4.31	2.39	1.56	4.23	26.43	12
1947	2.91	0.24	0.65	1.06	0.47	1.08	1.95	1.68	7.42	1.58	1.30	0.75	21.09	32
1948	1.51	1.48	0.14	0.91	0.57	0.23	2.16	1.51	4.96	3.62	2.37	1.08	20.54	34
1949	0.52	1.32	0.19	2.01	0.16	0.50	1.92	2.29	3.89	2.07	0.93	0.95	16.75	54
1950	1.07	0.38	0.54	0.36	0.30	2.56	2.25	2.06	1.56	3.26	2.37	2.78	19.49	40
1951	0.51	0.53	0.20	0.20	0.24	0.73	1.28	1.90	3.68	2.85	2.62	2.92	17.66	48
1952	1.08	0.45	0.91	0.07	0.51	0.94	0.70	8.46	1.93	2.08	1.63	0.28	19.04	45
1953	0.25	0.47	0.29	0.95	1.23	1.44	2.74	1.95	3.27	1.90	2.26	0.22	16.97	52
1954	0.25	0.59	0.76	0.17	0.80	1.54	0.21	2.95	1.68	1.74	2.67	0.55	13.91	64
1955	1.95	0.55	0.30	0.67	0.82	1.17	1.52	2.62	3.98	3.45	2.73	2.21	21.97	27
1956	0.42	0.98	1.16	0.56	0.49	1.19	1.51	4.06	1.81	2.32	2.33	0.30	17.13	51
1957	0.61	2.04	0.62	0.58	0.28	1.50	2.04	4.65	4.51	2.85	2.20	0.87	22.75	24
1958	0.99	1.18	0.99	0.63	0.95	1.14	3.01	1.17	4.00	4.44	2.02	0.26	20.78	33
1959	1.03	1.23	0.71	0.85	1.71	1.58	1.62	3.20	6.07	1.33	0.43	2.34	22.10	26
1960	0.81	1.68	0.32	0.29	1.28	0.77	1.97	1.38	3.53	0.76	1.53	1.10	15.42	61
1961	0.07	0.74	0.90	0.11	0.46	0.91	1.93	1.64	1.43	4.21	1.30	2.30	16.00	56
1962	0.75	0.60	0.87	1.03	1.22	0.56	1.30	8.20	4.96	2.91	1.20	2.00	25.60	14
1963	0.54	0.39	0.69	1.07	2.09	1.20	5.65	2.90	6.84	4.08	0.61	2.84	28.90	5
1964	0.85	0.32	1.01	0.81	2.63	0.98	2.08	5.23	8.82	0.54	4.91	0.98	29.16	2
1965	0.34	0.46	1.85	1.85	0.44	0.74	1.53	8.41	5.03	5.66	2.01	2.05	30.37	1
1966	0.01	0.86	0.36	0.40	1.16	1.08	3.66	0.22	2.01	4.37	3.20	2.00	19.33	43
1967	1.23	0.62	1.10	0.87	1.27	0.79	2.54	3.03	5.32	1.53	2.40	3.81	24.51	17
1968	0.92	0.62	1.40	0.50	0.59	0.23	1.18	2.51	4.87	3.41	3.38	1.57	21.18	31
1969	0.39	1.42	0.85	0.72	1.17	0.91	3.88	2.74	4.87	5.58	0.58	1.83	24.94	16
1970	0.82	1.38	0.85	1.60	0.52	2.18	3.10	2.78	3.22	2.23	1.56	1.12	21.36	29
1971	1.27	0.92	0.66	1.67	1.29	1.67	4.36	3.56	2.63	1.48	1.77	2.63	23.91	19
1972	2.95	0.93	0.57	1.11	0.65	0.91	1.90	3.70	3.74	2.83	3.43	0.99	23.71	21
1973	0.99	0.62	0.69	0.21	0.42	2.98	3.80	2.33	5.40	2.75	1.99	3.64	25.82	13
1974	0.37	0.60	1.30	0.91	0.75	0.41	1.70	1.80	1.10	3.33	4.61	1.01	17.89	47
1975	1.83	0.71	1.16	1.60	0.52	2.43	3.38	2.00	5.36	0.58	0.71	0.25	20.53	35
1976	0.78	0.67	1.51	0.75	1.38	0.66	2.13	3.79	7.88	1.93	1.16	1.10	23.74	20
1977	0.51	1.95	0.77	2.72	1.99	2.36	2.36	2.50	2.93	2.74	3.79	2.22	26.84	10
1978	1.31	1.23	1.07	0.48	1.64	0.67	3.91	7.93	2.07	4.11	1.34	0.89	26.65	11
1979	1.26	1.01	1.74	1.09	1.22	0.48	1.31	2.15	4.64	5.72	3.85	0.55	25.02	15
1980	0.60	1.30	0.87	0.74	0.59	1.18	1.14	4.82	2.17	1.96	2.91	0.96	19.24	44
1981	1.66	0.54	0.72	0.12	0.19	0.30	0.66	5.63	1.65	5.40	1.31	1.24	19.42	41
1982	1.49	0.24	0.80	1.20	2.65	3.20	1.94	5.70	4.39	3.25	1.90	2.10	28.86	6
1983	1.86	0.42	0.90	0.84	0.28	1.33	1.16	2.57	2.31	1.34	5.72	0.69	19.42	42
1984	2.77	1.57	0.57	0.54	0.31	1.25	3.62	1.72	3.46	2.43	1.07	0.84	20.15	37
1985	1.09	1.15	0.31	0.38	0.53	1.19	1.07	1.42	1.76	2.37	1.38	1.58	14.23	63
1986	0.68	1.47	1.02	0.60	1.68	0.63	3.40	1.94	5.41	2.03	1.15	4.48	24.49	18
1987	1.96	1.41	0.08	0.51	1.43	0.88	0.28	3.58	0.89	1.57	1.63	1.31	15.53	58
1988	0.85	0.50	0.27	0.57	0.88	0.95	0.82	3.50	1.56	1.51	2.17	1.90	15.48	60
1989	0.40	1.50	1.00	0.20	0.80	1.00	2.90	1.90	1.50	1.00	2.40	2.30	16.90	53
1990	0.70	1.40	1.70	0.80	1.10	1.90	1.20	2.60	0.70	2.30	1.40	0.70	16.50	55
1991	0.90	0.50	1.10	1.20	1.00	1.10	3.60	6.20	2.95	1.50	1.40	0.00	21.45	28
1992	1.00	1.40	0.20	1.00	0.60	1.90	2.30	3.50	2.50	2.90	1.40	1.30	20.00	39
1993	1.00	1.00	1.00	1.00	0.90	0.60	2.10	5.70	7.00	3.80	1.60	1.20	26.90	9
1994	0.90	0.90	1.50	2.20	1.30	0.40	3.90	2.50	1.10	2.10	1.40	0.80	19.00	46
1995	5.10	1.20	0.30	0.20	0.90	1.60	2.00	6.51	3.60	2.10	1.00	2.60	27.11	8
1996	3.41	1.37	0.00	2.00	0.60	4.00	2.10	5.40	2.70	2.20	3.60	1.70	29.08	4
1997	3.60	1.10	1.70	0.90	0.70	0.90	2.70	3.60	2.90	6.30	3.40	1.30	29.10	3
1998	1.20	0.90	1.10	0.70	0.90	2.60	0.90	2.00	6.70	2.70	6.20	2.50	28.40	7
Mean 1961-90	1.04	0.92	0.92	0.87	1.06	1.20	2.33	3.43	3.63	2.84	2.23	1.73	22.19	

Measured (shaded) and estimated precipitation, in inches, for site 85, Johnson Siding near Rapid City (440501103262300)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.96	0.73	0.31	0.42	0.28	1.37	0.77	1.28	1.73	1.47	1.28	0.27	12.87	62
1932	0.96	0.80	0.49	0.96	0.21	0.76	4.61	4.69	2.51	2.90	3.20	0.49	22.58	17
1933	1.81	0.22	0.44	0.42	0.52	1.38	3.32	5.99	1.53	1.93	2.86	0.28	20.70	26
1934	0.17	0.26	0.34	0.40	0.39	0.78	1.13	0.47	4.02	0.55	0.86	0.80	10.17	67
1935	1.47	0.48	0.57	0.15	0.60	1.26	2.31	5.74	2.72	2.28	0.55	0.40	18.53	37
1936	0.34	0.49	0.38	0.64	0.54	0.93	1.30	0.24	1.59	0.71	1.07	0.49	8.72	68
1937	0.80	0.71	0.09	0.34	0.33	1.36	0.47	2.56	3.32	3.74	0.67	0.93	15.32	54
1938	0.21	0.33	0.93	0.89	0.25	0.85	2.90	3.61	2.76	1.78	0.55	1.14	16.20	51
1939	0.24	0.73	0.47	0.71	0.42	0.92	1.45	1.39	2.37	1.72	2.42	0.84	13.68	57
1940	1.28	0.00	0.42	0.27	0.37	1.09	2.94	0.65	2.08	1.00	1.53	1.44	13.07	61
1941	0.92	0.30	0.38	0.10	0.10	0.81	5.91	1.79	5.48	1.99	2.17	1.23	21.18	22
1942	2.07	0.19	0.54	0.13	0.46	0.94	3.75	4.54	3.43	1.80	0.95	1.91	20.71	24
1943	1.95	0.72	0.53	0.87	0.55	0.95	2.06	2.45	4.68	2.32	0.57	0.33	17.98	39
1944	1.20	0.58	0.17	1.92	0.48	1.16	1.49	3.21	4.53	3.61	0.39	0.47	19.21	33
1945	0.93	2.13	0.39	0.70	0.51	2.45	0.91	2.96	3.95	1.37	4.00	2.27	22.57	18
1946	0.19	0.10	0.40	0.28	0.42	1.72	2.36	8.36	4.89	2.91	1.30	4.13	27.06	5
1947	3.03	0.28	0.47	0.86	0.49	0.68	1.88	1.30	6.41	1.16	0.75	0.45	17.76	41
1948	1.33	0.90	0.13	0.69	0.52	0.15	2.10	1.74	5.24	3.32	2.87	0.67	19.66	29
1949	1.18	0.90	0.38	2.63	0.23	0.49	2.12	2.77	3.60	2.33	1.75	0.97	19.35	31
1950	1.28	0.22	0.51	0.33	0.21	2.61	2.01	2.10	1.43	2.60	1.89	2.43	17.62	43
1951	0.40	0.45	0.10	0.18	0.24	0.84	0.87	2.59	3.59	2.14	3.14	2.23	16.77	47
1952	1.34	0.20	0.59	0.12	0.49	0.75	0.36	9.26	2.83	1.69	1.49	0.51	19.63	30
1953	0.23	0.31	0.14	0.99	1.50	1.12	2.96	1.98	4.29	1.67	2.26	0.22	17.67	42
1954	0.20	0.69	0.36	0.19	0.49	1.74	0.19	2.55	2.76	1.44	2.48	0.24	13.33	59
1955	1.72	0.74	0.16	0.37	0.90	0.84	1.67	2.07	3.36	3.71	2.44	2.34	20.32	28
1956	0.35	0.74	0.84	0.46	0.38	0.66	1.53	3.51	1.23	2.31	3.10	0.25	15.36	53
1957	0.24	1.96	0.31	0.26	0.18	0.30	3.05	7.86	3.91	3.75	2.34	0.60	24.76	12
1958	0.84	0.38	0.18	0.29	0.40	0.75	3.53	1.71	4.31	3.23	1.19	0.24	17.05	46
1959	0.24	0.74	0.35	0.38	0.60	0.90	2.05	3.17	3.24	2.60	0.53	2.45	17.25	44
1960	0.17	0.97	0.05	0.29	0.62	0.37	1.79	1.93	2.50	1.41	2.16	1.11	13.37	58
1961	0.01	0.46	0.63	0.06	0.34	0.73	1.44	1.48	1.47	2.71	0.51	1.24	11.08	65
1962	1.45	0.21	0.20	0.26	0.76	0.66	0.76	10.10	8.33	5.96	1.73	1.10	31.52	1
1963	1.47	0.10	0.04	0.47	0.62	1.31	4.98	2.17	7.02	3.25	0.94	3.24	25.61	8
1964	0.96	0.09	0.22	0.32	0.54	0.66	1.51	4.21	5.89	1.86	1.83	1.23	19.32	32
1965	0.04	0.37	0.91	0.48	0.18	0.38	1.40	9.27	5.14	2.86	2.81	1.40	25.24	11
1966	0.18	0.13	0.27	0.12	0.53	1.55	2.83	0.27	1.44	3.81	3.66	3.06	17.85	40
1967	0.95	0.47	0.61	0.16	0.51	0.51	3.02	3.76	7.70	1.75	1.32	1.32	22.08	20
1968	0.36	0.25	0.45	0.58	0.27	0.16	1.06	2.29	5.72	1.65	2.44	1.04	16.27	50
1969	0.18	0.41	0.44	0.18	0.87	0.61	1.88	2.75	3.23	4.32	0.56	0.47	15.90	52
1970	1.62	0.40	0.20	0.33	0.38	1.46	3.56	4.38	4.02	2.12	3.60	1.26	23.33	15
1971	0.88	0.73	0.65	0.79	0.78	1.50	6.55	4.56	2.44	1.58	0.86	2.30	23.62	14
1972	2.06	0.98	0.08	0.23	0.32	0.65	2.24	2.93	12.40	3.56	2.78	0.40	28.63	2
1973	0.71	0.31	0.31	0.10	0.20	2.38	3.75	2.25	1.69	3.99	0.99	1.89	18.57	36
1974	1.17	0.71	0.60	0.30	0.11	0.26	0.93	1.78	1.02	4.11	1.14	1.07	13.20	60
1975	2.24	0.31	0.12	0.76	0.34	1.00	2.97	2.34	5.61	1.38	1.24	0.04	18.35	38
1976	0.49	0.49	0.96	0.46	0.74	0.32	4.54	3.90	6.95	3.28	2.13	1.11	25.37	10
1977	0.26	0.46	0.31	0.56	0.28	2.27	1.84	1.73	2.22	2.51	2.05	2.17	16.66	49
1978	1.26	0.70	0.49	0.25	0.84	0.30	2.74	5.50	1.87	4.36	2.15	0.52	20.98	23
1979	0.58	0.87	0.58	0.39	0.40	0.30	1.12	1.39	5.42	7.96	2.61	0.20	21.82	21
1980	0.72	0.25	0.17	0.24	0.46	0.97	1.84	1.97	2.97	1.49	2.17	0.59	13.84	56
1981	2.15	0.41	0.65	0.07	0.11	0.25	0.70	7.13	1.91	5.18	1.28	0.50	20.34	27
1982	2.29	0.08	0.52	0.41	0.41	1.38	0.87	6.19	4.28	4.04	3.21	2.73	26.41	7
1983	2.95	0.29	0.51	0.46	0.15	1.70	0.94	2.67	4.15	1.98	2.71	0.51	19.02	35
1984	1.76	1.05	0.55	0.14	0.13	0.69	4.25	1.82	4.83	5.18	1.53	1.06	22.99	16
1985	0.74	0.95	0.35	0.24	0.08	0.94	1.09	1.40	1.44	1.92	1.93	1.57	12.65	63
1986	0.66	1.77	0.78	0.15	1.13	0.76	3.72	1.99	4.02	2.30	2.60	5.70	25.58	9
1987	1.90	1.15	0.05	0.04	1.57	1.18	0.19	3.96	0.48	1.02	2.24	0.61	14.39	55
1988	0.58	0.27	0.20	0.16	0.25	0.87	0.64	2.72	1.90	0.40	2.14	0.20	10.33	66
1989	0.85	1.10	0.30	0.07	0.33	1.26	1.74	2.28	1.48	2.21	3.57	3.91	19.10	34
1990	0.59	0.31	0.69	0.03	0.57	1.30	1.42	2.78	0.63	4.66	3.43	0.80	17.21	45
1991	0.56	0.17	0.53	0.57	0.91	0.56	3.94	7.89	7.12	2.93	0.78	1.11	27.07	4
1992	1.10	0.91	0.02	0.10	0.15	2.02	1.40	2.43	3.48	3.70	0.80	0.59	16.70	48
1993	0.65	0.51	0.81	0.65	0.65	0.51	3.27	4.74	4.84	2.80	1.34	1.43	22.20	19
1994	1.70	0.34	0.47	0.33	0.53	0.47	1.75	2.07	0.88	1.54	1.02	0.73	11.83	64
1995	4.27	0.50	0.21	0.00	0.52	0.78	2.03	8.09	4.43	5.08	1.03	1.23	28.17	3
1996	3.49	0.54	0.07	0.85	0.10	1.27	1.81	8.06	1.46	2.76	1.80	1.87	24.08	13
1997	4.37	0.31	0.96	0.38	0.64	0.09	2.19	6.87	3.42	4.01	3.11	0.62	26.97	6
1998	1.37	0.04	0.35	0.32	0.46	2.10	0.57	1.79	5.76	1.23	2.75	3.97	20.71	25
Mean 1961-90	1.07	0.54	0.43	0.29	0.47	0.94	2.22	3.40	3.92	3.11	2.07	1.44	19.91	

Measured (shaded) and estimated precipitation, in inches, for site 86, O'Neil Pass near Lead (441207104012700)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	0.82	0.57	1.65	1.04	0.59	2.24	1.96	1.44	1.38	1.11	0.75	0.29	13.84	67
1932	0.55	0.57	0.77	1.75	0.41	1.36	6.26	4.37	3.26	2.56	2.01	0.55	24.42	28
1933	3.01	0.87	1.36	1.81	1.17	1.94	3.72	5.08	1.69	0.67	2.22	0.93	24.47	27
1934	0.44	0.73	0.76	1.19	0.53	1.23	1.32	0.50	4.50	0.72	2.51	0.95	15.38	66
1935	1.07	0.75	0.87	0.27	0.96	1.89	1.96	3.63	3.12	2.43	0.81	0.63	18.39	59
1936	0.44	0.89	1.07	0.93	0.95	1.31	1.40	0.40	1.07	1.21	0.88	0.65	11.20	68
1937	0.65	0.68	0.53	0.86	0.70	1.09	0.59	2.21	4.20	3.36	1.15	1.47	17.49	61
1938	0.39	0.79	1.44	2.23	0.80	1.04	2.34	4.56	2.36	1.78	0.47	0.68	18.88	56
1939	0.21	0.99	1.09	1.49	1.33	1.00	2.82	1.66	3.11	0.87	3.83	0.87	19.27	54
1940	1.07	0.10	0.88	0.59	1.04	1.37	3.39	1.53	2.50	1.38	1.10	1.62	16.57	63
1941	1.48	0.50	0.53	0.17	0.23	1.11	5.32	2.39	7.54	3.09	2.36	2.37	27.09	17
1942	2.24	0.72	0.64	0.30	0.61	1.60	2.92	4.10	4.38	1.80	1.68	2.38	23.37	33
1943	2.12	1.49	1.29	1.12	1.01	1.19	2.70	2.32	4.33	2.39	1.95	0.56	22.47	38
1944	1.89	1.52	0.16	1.92	0.30	0.98	1.77	3.00	4.57	2.52	0.47	0.57	19.67	52
1945	0.95	1.72	0.79	1.25	0.91	2.09	1.38	3.78	4.26	1.42	5.88	3.11	27.54	15
1946	0.31	0.43	1.26	0.82	0.66	2.16	2.09	9.91	4.41	2.65	0.87	4.69	30.26	8
1947	2.92	0.32	1.11	1.34	0.98	1.65	2.31	1.13	7.09	2.18	0.89	0.54	22.46	39
1948	1.59	2.22	0.30	1.75	0.76	0.48	2.67	1.23	5.32	3.42	1.58	1.45	22.77	36
1949	0.59	2.21	0.18	1.68	0.23	0.44	2.46	1.98	3.62	1.28	0.98	0.95	16.60	62
1950	1.39	0.94	0.63	0.27	0.25	3.55	2.00	1.76	2.03	3.42	2.21	3.25	21.70	43
1951	0.54	0.87	0.36	0.32	0.17	1.08	1.17	2.60	3.99	3.50	2.84	2.73	20.17	49
1952	1.42	1.19	2.49	0.17	0.64	1.48	0.64	8.91	1.77	2.51	1.48	0.44	23.14	35
1953	0.22	0.77	0.45	1.88	2.10	1.14	3.78	3.72	3.87	2.37	3.44	0.50	24.24	29
1954	0.37	1.09	1.25	0.33	1.42	2.93	0.69	3.93	2.30	1.77	2.78	0.81	19.67	53
1955	1.86	0.86	1.14	1.54	1.06	1.46	3.76	3.13	4.62	2.84	1.71	2.78	26.76	18
1956	1.19	1.19	1.20	0.60	0.44	1.53	1.74	4.12	2.19	2.45	3.24	0.72	20.61	47
1957	0.79	3.15	0.67	0.66	0.28	1.64	2.04	5.47	4.32	3.31	2.42	1.03	25.78	22
1958	0.99	1.26	0.72	0.71	1.34	0.72	3.63	1.71	3.83	5.68	1.82	0.35	22.76	37
1959	1.30	1.40	0.79	1.00	1.61	1.51	1.79	2.98	4.53	0.87	0.24	2.05	20.07	50
1960	0.85	2.43	0.73	0.40	1.38	1.32	2.13	1.40	4.99	1.01	2.86	1.09	20.59	48
1961	0.27	0.80	1.58	0.18	0.75	0.69	2.34	1.16	1.58	3.06	0.85	2.64	15.90	65
1962	0.91	0.68	1.22	1.29	0.99	0.79	1.86	10.09	5.99	3.81	1.14	2.16	30.93	5
1963	1.23	0.65	0.93	1.60	2.96	1.74	5.35	3.35	6.63	2.72	0.37	2.29	29.82	9
1964	0.91	0.25	1.21	0.97	2.93	1.32	2.42	5.17	9.21	0.64	6.45	0.80	32.28	2
1965	0.46	0.91	1.62	1.96	0.85	0.95	2.31	9.89	4.77	3.19	1.89	2.53	31.33	4
1966	0.00	0.60	0.39	0.41	1.04	2.20	3.76	0.47	1.60	3.37	3.01	2.25	19.10	55
1967	1.75	0.75	0.94	1.08	1.82	0.75	3.28	3.00	5.83	1.78	1.32	3.92	26.22	20
1968	1.22	0.79	1.71	0.58	0.80	0.49	1.61	2.95	5.58	3.67	3.34	2.33	25.07	25
1969	0.48	1.55	1.19	0.90	0.82	1.16	4.16	2.61	4.16	4.15	1.13	0.91	23.22	34
1970	1.39	1.31	1.57	1.43	0.75	2.24	3.57	4.56	3.88	2.12	1.57	1.42	25.81	21
1971	1.76	2.17	0.88	1.75	1.58	2.15	3.72	4.92	2.60	1.06	1.89	3.48	27.96	13
1972	3.09	1.19	0.50	1.02	0.70	1.36	2.65	5.69	5.07	3.14	3.67	0.61	28.69	11
1973	1.08	0.58	0.98	0.25	0.50	3.81	4.62	3.03	3.96	2.11	1.77	2.54	25.23	24
1974	1.02	0.71	1.50	0.61	0.85	0.71	2.55	1.80	1.45	3.63	4.13	1.07	20.03	51
1975	1.34	0.92	1.20	1.81	0.85	2.68	3.54	2.36	5.21	0.92	0.75	0.31	21.89	42
1976	1.07	0.88	1.59	1.06	1.47	0.95	2.98	3.72	8.39	2.65	1.02	1.42	27.20	16
1977	0.62	1.52	1.05	2.13	2.01	3.57	2.37	2.04	2.65	2.00	3.03	2.07	25.06	26
1978	1.64	1.33	1.09	0.43	1.44	0.57	4.30	6.42	2.48	4.36	1.73	0.59	26.38	19
1979	1.03	1.18	1.51	0.87	1.12	0.82	1.44	2.27	4.15	4.79	3.74	0.49	23.41	32
1980	1.14	1.07	0.63	0.70	0.55	1.14	1.75	3.79	2.13	1.31	3.06	1.22	18.49	58
1981	1.76	0.87	1.13	0.32	0.28	0.19	0.51	5.27	2.82	5.01	1.14	1.61	20.91	45
1982	1.33	0.73	0.69	1.21	1.89	4.23	2.67	7.55	3.59	3.37	1.76	1.63	30.65	7
1983	4.42	0.56	1.01	1.19	0.28	1.47	1.57	2.79	1.41	1.81	4.23	0.55	21.29	44
1984	2.57	1.92	0.71	1.06	0.64	1.71	4.54	1.57	4.11	2.05	1.83	0.85	23.56	31
1985	1.04	1.41	0.54	0.72	0.90	1.73	1.24	1.59	2.02	1.55	1.45	2.04	16.23	64
1986	0.74	1.56	1.87	1.16	1.63	0.99	4.09	1.94	4.63	1.73	1.03	4.11	25.48	23
1987	2.35	1.64	0.13	0.90	1.31	2.01	0.61	3.49	1.12	1.22	2.58	1.16	18.52	57
1988	0.75	0.63	0.59	0.98	1.35	2.43	0.80	4.13	2.20	0.93	1.79	1.10	17.68	60
1989	0.90	1.30	1.20	0.60	2.00	1.10	2.60	2.46	2.05	1.62	2.38	2.51	20.72	46
1990	1.73	2.16	3.00	0.88	0.95	1.63	2.53	2.52	1.11	2.98	1.80	0.68	21.97	41
1991	1.37	0.78	1.69	1.20	1.76	1.17	5.17	4.85	2.57	4.59	1.79	0.85	27.79	14
1992	1.55	1.92	0.22	0.67	0.96	1.84	3.18	2.71	3.74	2.33	1.83	1.06	22.01	40
1993	0.87	2.47	1.24	1.04	0.90	0.94	3.64	4.36	7.64	3.69	1.45	1.14	29.38	10
1994	2.67	1.42	3.54	3.44	1.07	1.41	3.35	1.24	2.25	1.61	0.86	1.10	23.96	30
1995	5.28	2.36	0.41	0.50	1.28	2.37	3.27	7.11	3.58	3.70	1.25	2.00	33.11	1
1996	3.97	1.41	0.63	2.62	0.88	2.89	2.69	4.77	1.90	4.87	2.70	2.02	31.35	3
1997	4.25	1.27	2.70	1.31	1.79	1.25	3.65	3.04	2.84	4.84	2.71	1.27	30.92	6
1998	1.80	1.61	1.86	1.24	1.75	1.54	1.17	1.31	6.29	4.58	3.69	1.53	28.37	12
Mean 1961-90	1.33	1.09	1.14	1.00	1.20	1.59	2.72	3.75	3.75	2.56	2.20	1.71	24.03	

Measured (shaded) and estimated precipitation, in inches, for site 87, Englewood near Lead (441632103482400)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.07	0.78	1.46	0.95	0.52	2.75	1.50	1.25	1.16	1.28	1.53	0.19	14.44	66
1932	0.82	1.11	0.35	2.01	0.12	1.46	5.02	4.79	3.41	2.21	1.25	0.38	22.93	43
1933	2.47	0.64	0.78	1.44	0.80	1.60	3.87	5.19	1.20	0.69	1.60	0.35	20.63	54
1934	0.32	0.49	0.79	1.21	0.46	1.27	1.19	0.50	4.03	0.35	1.38	1.44	13.43	67
1935	0.80	0.70	0.87	0.06	1.15	1.96	2.00	2.96	2.50	3.99	0.79	0.51	18.29	62
1936	0.37	1.04	0.80	1.08	0.50	1.27	1.24	0.37	1.24	1.27	1.39	0.49	11.06	68
1937	0.87	0.52	0.25	0.43	0.53	0.94	0.34	2.63	4.01	4.84	1.11	1.30	17.77	63
1938	0.37	0.96	1.62	2.92	0.44	0.91	3.20	4.36	2.13	1.84	0.56	0.99	20.30	57
1939	0.12	1.30	1.42	1.73	1.06	0.99	3.81	1.94	3.04	0.97	3.22	0.79	20.39	55
1940	1.49	0.02	0.88	0.55	1.14	1.56	3.86	1.54	2.67	1.93	2.95	1.56	20.15	59
1941	1.02	0.69	0.60	0.13	0.16	1.67	6.15	3.05	7.76	2.61	1.79	1.67	27.30	20
1942	2.05	0.66	0.85	0.54	0.78	1.93	3.15	5.23	4.61	1.97	1.89	2.37	26.03	28
1943	2.60	1.76	1.31	1.65	1.30	1.38	3.24	2.98	5.26	1.80	1.07	0.69	25.04	31
1944	1.78	2.17	0.46	3.25	0.82	1.99	1.94	2.62	4.73	2.26	0.64	0.65	23.31	42
1945	1.04	3.11	0.92	1.35	1.06	2.55	1.85	3.99	4.96	1.30	2.83	3.56	28.52	17
1946	0.44	0.40	1.00	0.91	1.18	2.57	2.67	12.45	4.90	2.36	0.96	5.22	35.06	2
1947	3.22	0.38	1.17	1.39	1.42	1.72	3.00	1.34	8.51	2.52	0.91	0.60	26.18	27
1948	1.66	1.76	0.19	2.20	1.00	0.32	2.86	1.76	5.96	4.22	2.18	0.62	24.73	34
1949	0.86	3.69	0.57	3.54	0.42	0.67	2.60	3.31	2.74	1.53	0.79	0.96	21.68	48
1950	1.24	0.92	1.04	0.54	0.53	4.54	2.56	2.13	2.13	3.12	2.68	3.56	24.99	32
1951	0.66	1.26	0.49	0.48	0.37	1.49	1.58	2.96	4.85	2.97	3.09	2.47	22.67	45
1952	1.65	1.56	3.19	0.21	0.69	1.58	0.69	9.00	1.70	2.60	1.39	0.58	24.84	33
1953	0.18	1.09	0.60	2.19	2.48	1.34	3.91	4.21	3.81	2.27	4.15	0.46	26.69	25
1954	0.41	1.17	1.47	0.35	1.52	3.08	0.67	3.93	2.25	1.61	2.57	1.14	20.17	58
1955	1.85	1.01	1.50	1.96	1.15	1.53	4.11	3.22	4.45	2.78	1.52	2.81	27.89	19
1956	1.35	1.24	1.13	0.64	0.41	1.69	1.71	4.07	2.11	2.52	3.79	0.76	21.42	49
1957	0.87	3.56	0.70	0.75	0.26	1.63	1.99	5.84	4.33	3.69	2.19	0.95	26.76	23
1958	0.85	1.43	0.68	0.88	1.47	0.55	3.75	1.89	3.77	4.95	2.01	0.31	22.54	46
1959	1.57	1.46	0.87	1.20	1.71	1.61	1.87	3.02	4.12	0.70	0.15	2.03	20.31	56
1960	0.89	2.85	0.98	0.45	1.54	1.56	2.12	1.62	6.23	1.39	3.70	1.33	24.66	37
1961	0.30	0.83	1.93	0.25	0.93	0.63	2.55	1.03	1.65	2.93	0.63	2.70	16.36	65
1962	0.93	0.65	1.48	1.43	0.95	0.88	2.15	10.66	6.96	4.25	1.02	2.11	33.47	4
1963	1.55	0.65	1.08	1.90	3.25	2.02	5.38	3.02	6.47	1.85	0.22	2.09	29.48	11
1964	0.88	0.24	1.43	1.13	3.36	1.54	2.72	5.18	9.24	0.68	6.21	0.76	33.37	5
1965	0.53	1.00	1.79	2.18	0.88	0.96	2.65	10.04	4.78	2.30	1.70	2.79	31.60	7
1966	0.00	0.59	0.41	0.44	1.05	2.44	3.87	0.50	1.40	3.41	2.76	2.04	18.91	60
1967	1.78	0.83	0.99	1.33	2.38	0.75	3.80	3.23	6.43	1.97	0.91	3.88	28.28	18
1968	1.35	0.92	2.00	0.66	0.95	0.58	1.93	3.35	5.75	3.42	3.56	2.67	27.14	21
1969	0.52	1.82	1.34	1.12	0.73	1.34	4.59	2.71	4.04	3.94	1.55	0.30	24.00	39
1970	1.68	1.31	1.91	1.31	0.91	2.31	3.75	5.25	3.97	2.94	1.54	1.72	28.60	16
1971	1.85	2.22	0.87	1.73	1.70	2.38	3.49	6.01	2.55	0.94	1.69	3.85	29.28	12
1972	3.08	1.33	0.43	0.98	0.76	1.42	2.96	7.66	5.35	2.76	4.27	0.34	31.34	8
1973	1.06	0.63	1.16	0.25	0.53	3.88	4.89	3.18	3.62	1.94	1.62	2.38	25.14	30
1974	1.49	0.77	1.97	0.42	0.91	0.82	3.14	1.75	2.19	3.81	2.87	1.25	21.39	51
1975	1.41	1.14	1.62	2.41	1.07	2.90	4.05	2.48	5.35	1.11	0.82	0.35	24.71	35
1976	1.19	0.96	1.59	1.19	1.51	1.05	3.36	3.77	8.50	3.28	0.94	1.55	28.89	14
1977	0.64	1.28	1.16	1.85	2.05	4.21	2.37	1.86	2.53	1.72	2.78	1.96	24.41	38
1978	1.74	1.40	1.09	0.40	1.35	0.53	4.49	5.86	2.64	4.59	2.00	0.45	26.54	26
1979	0.96	1.22	1.34	0.76	1.03	0.84	1.52	2.49	4.02	4.60	3.68	0.44	22.90	44
1980	1.37	0.95	0.49	0.65	0.51	1.13	2.01	3.42	1.99	1.43	3.31	1.16	18.42	61
1981	1.81	0.89	1.05	0.30	0.28	0.18	0.53	5.70	2.62	5.07	1.08	1.80	21.31	52
1982	1.33	0.89	0.72	1.11	0.85	2.43	2.08	8.86	3.70	3.61	2.43	2.23	30.24	10
1983	6.50	0.79	1.41	1.33	0.30	2.27	2.40	3.43	1.35	1.84	4.42	0.68	26.72	24
1984	2.24	2.06	0.87	0.86	0.88	2.14	5.53	1.90	5.35	2.03	2.27	0.90	27.03	22
1985	0.96	1.51	0.84	0.82	0.56	2.00	1.39	2.12	2.34	0.86	0.80	2.36	16.56	64
1986	0.90	1.61	2.55	1.36	1.47	1.09	5.35	2.18	4.54	2.36	0.80	4.45	28.66	15
1987	2.76	1.79	0.13	0.95	1.45	3.34	0.84	3.93	0.98	1.14	3.78	1.28	22.37	47
1988	0.82	0.80	0.85	1.06	1.49	3.68	0.88	4.46	2.73	0.75	1.56	2.07	21.15	53
1989	1.45	1.44	1.33	0.32	0.94	1.27	4.28	2.86	2.82	2.29	3.00	1.94	23.94	40
1990	0.76	1.63	2.36	0.80	0.92	1.70	2.59	2.18	0.90	3.77	2.49	1.31	21.41	50
1991	0.92	0.65	1.18	1.22	2.01	1.28	3.80	5.99	2.32	2.35	0.57	1.18	23.47	41
1992	1.78	1.69	0.25	0.70	0.78	2.21	3.42	3.28	4.39	1.79	3.67	1.52	25.48	29
1993	0.86	2.35	1.31	1.11	0.96	1.05	3.50	3.82	6.39	4.15	2.10	1.42	29.02	13
1994	2.21	2.14	2.69	2.83	1.29	1.64	3.78	2.10	1.34	3.19	0.92	0.58	24.71	36
1995	7.79	2.01	0.23	0.64	1.00	1.63	3.15	8.38	4.07	3.50	0.97	1.52	34.89	3
1996	4.34	1.41	0.61	1.98	0.58	3.54	2.72	5.43	1.61	1.90	3.48	3.00	30.60	9
1997	5.15	0.99	2.26	1.22	1.95	1.30	4.83	4.00	2.69	7.66	4.57	0.87	37.49	1
1998	1.58	1.17	1.65	0.78	2.79	2.08	1.45	1.64	8.39	4.68	4.72	2.36	33.29	6
Mean 1961-90	1.46	1.14	1.27	1.04	1.20	1.76	3.05	4.04	3.89	2.59	2.22	1.79	25.45	

Measured (shaded) and estimated precipitation, in inches, for site 88, Bethlehem Cave near Tilford (441716103300800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.27	0.75	0.77	0.73	0.46	1.91	1.31	1.56	1.28	1.52	1.75	0.30	14.61	65
1932	1.13	1.07	0.41	1.45	0.18	1.17	5.58	4.92	3.08	2.67	2.20	0.54	24.40	24
1933	2.56	0.47	0.72	0.85	0.77	1.71	3.94	6.08	1.62	1.37	2.63	0.40	23.12	29
1934	0.29	0.48	0.56	0.88	0.43	1.12	1.25	0.48	4.25	0.53	1.07	1.20	12.54	67
1935	1.35	0.69	0.71	0.10	0.81	1.61	2.15	4.54	3.27	3.57	0.77	0.56	20.13	45
1936	0.39	0.76	0.73	0.88	0.52	1.24	1.69	0.48	1.49	1.04	1.13	0.65	11.00	68
1937	0.94	0.72	0.19	0.41	0.51	1.15	0.48	2.77	4.14	4.54	0.94	1.24	18.03	55
1938	0.31	0.62	1.31	1.85	0.38	0.84	3.01	4.14	2.39	2.03	0.54	1.40	18.82	52
1939	0.19	1.01	1.01	1.29	0.77	0.92	2.91	1.61	2.83	1.15	3.04	0.86	17.59	57
1940	1.35	0.02	0.70	0.42	0.81	1.44	3.64	1.35	2.54	1.37	2.18	1.63	17.45	60
1941	0.97	0.54	0.52	0.14	0.17	1.28	5.94	2.31	7.10	2.32	1.74	1.61	24.64	22
1942	1.95	0.49	0.75	0.36	0.63	1.43	3.39	5.32	4.03	1.71	1.54	2.17	23.77	26
1943	2.30	1.18	0.99	1.23	0.83	1.28	2.55	2.32	4.92	1.60	0.75	0.44	20.39	43
1944	1.52	1.39	0.53	2.45	0.69	1.56	1.81	2.64	4.74	2.61	0.70	0.50	21.14	37
1945	1.14	3.47	0.93	1.17	0.82	2.48	1.60	3.37	5.25	1.47	2.83	3.30	27.83	13
1946	0.44	0.35	0.72	0.67	0.97	2.55	2.69	12.78	5.50	2.09	1.07	4.97	34.80	2
1947	3.60	0.38	0.85	1.23	0.96	1.26	2.34	1.27	8.16	1.70	0.93	0.62	23.30	28
1948	1.76	1.49	0.16	1.54	0.88	0.32	2.95	1.82	5.86	3.68	2.15	0.74	23.35	27
1949	1.05	3.17	0.52	3.66	0.46	0.77	2.38	3.25	2.61	1.49	0.54	0.72	20.62	42
1950	1.55	0.46	0.78	0.44	0.34	3.39	2.75	2.20	1.64	2.41	2.37	3.46	21.79	34
1951	0.65	0.89	0.35	0.25	0.26	0.99	0.93	2.83	4.69	2.48	4.68	2.12	21.12	38
1952	1.79	0.84	1.99	0.24	0.58	1.06	0.35	7.50	1.79	2.94	1.55	0.30	20.93	39
1953	0.14	0.67	0.30	1.48	2.21	0.89	3.64	3.54	4.23	1.76	2.98	0.25	22.09	33
1954	0.25	1.06	0.68	0.28	1.13	2.84	0.66	3.80	3.04	1.34	1.96	0.53	17.57	58
1955	1.43	0.74	0.73	0.94	1.00	1.10	3.21	2.71	3.80	2.80	1.68	2.97	23.11	30
1956	0.94	0.82	1.33	0.59	0.31	1.11	1.62	4.06	1.63	2.86	2.85	1.06	19.18	49
1957	0.72	3.22	0.49	0.51	0.23	1.17	2.30	6.55	4.42	3.38	1.65	1.00	25.64	19
1958	1.01	0.95	0.29	0.43	1.41	0.53	4.46	1.69	3.42	5.19	1.42	0.10	20.90	40
1959	1.09	1.13	0.68	0.84	1.19	1.09	1.94	2.77	2.89	1.14	0.27	2.05	17.08	62
1960	0.74	2.11	0.61	0.39	1.12	1.14	1.78	1.39	3.82	1.18	2.38	1.05	17.71	56
1961	0.31	0.60	1.66	0.17	0.76	0.56	2.27	1.13	1.84	2.52	0.89	2.34	15.05	64
1962	1.48	0.65	0.92	0.98	0.68	1.00	1.86	11.47	7.28	5.11	1.17	1.81	34.41	3
1963	1.86	0.64	0.66	1.40	2.60	1.71	5.15	1.98	5.66	2.61	0.46	2.45	27.18	15
1964	0.89	0.13	0.94	0.74	2.04	1.19	2.10	4.59	8.71	0.89	5.27	0.62	28.11	12
1965	0.41	1.12	1.17	1.37	0.83	0.86	2.20	9.85	5.10	1.60	2.38	2.23	29.12	6
1966	0.02	0.33	0.38	0.31	0.90	3.06	3.87	0.71	1.06	2.91	3.38	2.89	19.82	48
1967	2.22	0.75	0.88	0.87	1.62	0.81	3.93	3.27	5.91	1.96	0.66	3.39	26.27	17
1968	0.88	0.62	1.39	0.58	0.76	0.52	1.64	2.36	5.99	3.28	2.61	2.10	22.73	31
1969	0.42	1.23	1.19	0.59	0.73	1.12	4.24	2.79	3.30	2.72	0.66	0.14	19.13	50
1970	1.31	0.81	1.31	1.03	0.68	2.08	4.93	4.67	3.24	1.98	1.64	1.54	25.22	20
1971	1.42	2.11	0.83	1.53	1.43	1.89	4.59	6.64	2.88	0.59	1.10	3.75	28.76	8
1972	3.36	1.37	0.36	0.81	0.62	1.14	3.01	4.95	7.84	2.36	2.58	0.31	28.71	9
1973	1.16	0.40	0.97	0.24	0.53	4.80	5.05	3.70	2.74	1.99	1.14	1.75	24.47	23
1974	1.69	0.74	1.38	0.39	0.84	0.83	3.33	1.93	1.72	2.57	2.10	1.12	18.64	53
1975	1.56	0.82	0.92	1.80	0.94	2.17	3.61	2.45	4.57	1.80	0.86	0.10	21.60	36
1976	0.93	0.89	1.36	0.82	1.30	0.91	4.13	3.20	10.60	1.93	1.27	1.24	28.58	10
1977	0.66	1.07	0.92	1.30	1.31	4.09	1.88	2.17	2.12	1.86	2.27	1.97	21.62	35
1978	2.38	1.25	0.76	0.34	1.22	0.40	4.43	5.38	1.83	4.55	2.16	0.44	25.14	21
1979	0.59	1.46	0.93	0.62	0.82	0.62	1.28	1.86	5.04	4.24	2.84	0.34	20.64	41
1980	1.17	0.55	0.32	0.55	0.57	1.17	2.13	2.42	2.49	1.36	2.24	0.48	15.45	63
1981	2.41	0.75	0.95	0.29	0.18	0.09	0.39	6.75	2.43	5.52	0.80	1.78	22.34	32
1982	1.65	0.53	0.44	0.69	0.61	2.23	1.54	9.80	2.82	3.14	2.54	2.50	28.49	11
1983	4.98	0.38	0.81	0.71	0.18	1.85	1.83	2.83	1.78	1.87	2.74	0.40	20.36	44
1984	1.53	1.36	0.68	0.32	0.34	1.29	5.23	1.71	5.77	2.55	2.72	0.78	24.28	25
1985	0.71	1.31	0.47	0.51	0.20	1.40	0.98	1.52	1.97	0.78	2.16	1.65	13.66	66
1986	0.75	1.81	1.83	0.92	1.21	0.90	4.54	2.00	4.79	2.54	0.59	5.26	27.14	16
1987	2.36	1.48	0.16	0.40	1.43	2.22	0.39	3.62	0.62	1.06	2.89	0.84	17.47	59
1988	0.58	0.60	0.43	0.60	0.78	2.19	0.68	4.58	2.72	0.64	1.94	1.41	17.15	61
1989	1.00	1.03	0.49	0.17	0.46	1.46	3.59	3.25	2.08	2.15	1.64	2.64	19.96	46
1990	1.90	1.48	2.28	0.66	0.68	1.48	2.44	3.26	0.77	3.14	1.38	0.41	19.88	47
1991	0.57	1.07	0.69	0.75	1.77	1.69	3.76	8.20	4.23	0.92	1.04	1.41	26.10	18
1992	1.83	1.40	0.19	0.44	0.67	2.15	2.16	1.89	3.03	2.24	1.26	0.95	18.21	54
1993	0.64	1.93	1.24	1.07	0.94	1.42	3.63	4.74	6.69	3.53	1.43	1.72	28.98	7
1994	1.58	1.51	2.00	1.92	0.91	1.50	3.12	1.27	1.41	2.12	0.87	0.78	18.99	51
1995	7.63	1.52	0.32	0.38	0.85	1.47	3.04	11.23	4.82	3.88	0.64	1.58	37.36	1
1996	4.81	1.33	0.37	1.88	0.50	2.66	2.70	7.52	2.23	1.30	2.33	2.58	30.21	5
1997	6.14	1.04	2.21	1.48	1.36	1.33	3.02	5.04	2.32	5.43	3.33	0.77	33.47	4
1998	1.11	1.30	0.96	0.66	2.10	1.76	1.57	1.27	7.27	3.31	3.71	2.36	27.38	14
Mean 1961-90	1.42	0.94	0.93	0.72	0.91	1.53	2.91	3.89	3.86	2.41	1.90	1.62	23.05	

Measured (shaded) and estimated precipitation, in inches, for site 89, Wagon Canyon near Sundance, Wyo. (441810104062300)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.93	0.71	1.14	1.03	0.52	2.24	1.62	1.63	1.82	1.15	1.22	0.49	15.50	64
1932	1.11	0.78	0.50	1.62	0.29	1.46	5.60	4.39	3.38	2.33	1.48	0.51	23.45	26
1933	2.72	0.74	1.21	1.35	0.97	1.70	3.67	5.84	1.84	0.71	1.93	0.91	23.59	25
1934	0.48	0.63	0.64	1.08	0.41	1.31	1.23	0.48	4.19	0.64	1.72	1.31	14.12	67
1935	0.97	0.78	1.05	0.18	0.90	1.66	1.94	4.13	3.11	3.44	0.85	0.68	19.69	48
1936	0.44	0.90	1.01	1.02	0.80	1.34	1.66	0.40	1.39	1.37	0.80	0.69	11.82	68
1937	0.77	0.75	0.42	0.70	0.73	0.92	0.68	2.57	4.34	3.94	1.12	1.21	18.15	60
1938	0.36	0.78	1.46	2.17	0.64	1.08	2.41	4.34	2.08	2.00	0.66	1.13	19.11	52
1939	0.14	0.94	1.28	1.41	1.30	0.98	3.18	1.53	3.06	1.13	3.53	0.88	19.36	50
1940	1.23	0.07	0.85	0.56	1.04	1.54	3.91	1.52	3.29	1.24	1.31	1.90	18.46	57
1941	1.30	0.65	0.63	0.17	0.23	1.31	5.70	2.49	7.59	2.82	1.87	2.24	27.00	12
1942	1.87	0.75	0.73	0.40	0.62	1.51	2.97	5.08	4.67	1.84	1.86	2.24	24.54	20
1943	2.09	1.62	1.18	1.20	1.06	1.43	2.62	2.42	4.66	1.75	1.41	0.49	21.93	35
1944	1.80	1.62	0.38	2.33	0.62	1.58	1.87	2.80	5.47	2.18	0.78	0.71	22.14	34
1945	0.74	2.17	0.88	1.06	1.05	2.11	1.39	3.96	4.81	1.41	4.03	3.51	27.12	11
1946	0.39	0.45	1.11	0.84	0.86	2.26	2.50	11.12	4.47	2.16	1.01	4.72	31.89	3
1947	3.13	0.32	0.98	1.17	1.14	1.54	2.49	0.98	6.98	2.35	0.71	0.85	22.64	32
1948	1.53	1.63	0.32	1.74	0.76	0.39	2.26	1.35	4.90	2.98	1.53	1.15	20.54	40
1949	0.75	2.60	0.46	2.55	0.38	0.68	2.34	2.54	3.09	1.24	0.94	0.89	18.46	57
1950	1.33	0.83	0.79	0.36	0.38	3.61	2.14	1.97	1.72	2.68	2.12	3.04	20.97	38
1951	0.49	1.08	0.39	0.34	0.22	1.09	1.20	2.44	4.10	2.96	3.06	2.79	20.16	44
1952	1.75	1.07	2.03	0.24	0.53	1.24	0.43	6.79	1.70	2.80	1.24	0.33	20.15	45
1953	0.17	0.77	0.39	1.67	1.85	0.84	3.35	3.29	3.54	1.52	3.04	0.38	20.81	39
1954	0.37	1.16	0.91	0.32	1.13	2.31	0.67	3.42	2.19	1.85	1.93	0.57	16.83	63
1955	1.46	0.73	0.89	1.22	0.96	1.27	3.20	3.33	4.30	2.73	1.47	2.42	23.98	23
1956	1.21	1.07	1.05	0.42	0.35	1.25	1.45	3.45	2.14	2.30	2.89	1.01	18.59	55
1957	0.64	2.70	0.50	0.55	0.22	1.25	1.82	4.78	4.28	2.93	2.23	0.95	22.85	30
1958	0.93	1.30	0.46	0.63	1.16	0.59	3.53	1.18	3.88	4.87	1.27	0.27	20.07	47
1959	1.19	1.24	0.80	0.87	1.27	1.11	1.53	2.81	3.25	0.64	0.15	2.00	16.86	62
1960	0.77	2.13	0.62	0.48	1.17	1.14	1.87	1.65	4.25	0.87	3.28	0.93	19.16	51
1961	0.43	0.89	1.53	0.13	0.77	0.60	2.05	1.19	1.66	2.44	0.76	2.22	14.67	66
1962	0.91	0.64	1.12	1.05	0.74	0.82	1.96	10.53	6.26	3.72	1.04	1.92	30.71	4
1963	1.44	0.61	0.73	1.40	2.47	1.49	4.63	2.99	5.89	1.93	0.54	1.95	26.07	16
1964	0.97	0.18	1.03	0.84	2.33	1.30	2.01	4.70	8.85	0.71	5.86	0.55	29.33	5
1965	0.39	0.92	1.25	1.69	0.85	1.12	2.16	9.65	4.74	1.79	1.96	2.57	29.09	6
1966	0.00	0.45	0.35	0.37	0.94	2.43	3.71	0.61	1.37	2.68	2.91	2.65	18.47	56
1967	1.78	0.71	0.81	1.07	1.77	0.76	3.88	2.50	5.54	1.38	1.03	3.94	25.17	19
1968	1.24	0.63	1.37	0.52	0.71	0.55	1.48	2.74	5.51	3.08	2.95	2.36	23.14	28
1969	0.45	1.24	1.16	0.78	0.58	1.26	3.96	2.29	3.85	2.67	0.90	0.38	19.52	49
1970	1.38	1.13	1.54	1.17	0.82	2.09	3.51	5.00	3.73	1.92	1.83	1.40	25.52	18
1971	1.63	2.18	0.90	1.72	1.49	1.89	3.21	4.80	2.80	0.71	1.36	3.34	26.03	17
1972	3.27	1.18	0.42	0.85	0.58	1.28	2.58	5.52	5.64	2.52	3.69	0.46	27.99	9
1973	1.26	0.45	0.96	0.29	0.48	3.72	4.31	2.81	3.27	1.99	1.58	2.31	23.43	27
1974	1.39	0.75	1.30	0.38	0.80	0.73	2.71	1.76	1.55	3.22	3.16	0.91	18.66	53
1975	1.23	0.92	1.03	1.75	0.81	2.13	3.37	2.60	4.55	0.84	0.58	0.29	20.10	46
1976	1.12	0.79	1.42	0.89	1.34	0.88	3.21	3.33	9.10	2.48	0.95	1.09	26.60	13
1977	0.63	1.30	0.93	1.57	1.61	3.55	2.15	1.86	2.39	1.86	2.70	1.95	22.50	33
1978	2.19	1.20	1.06	0.37	1.30	0.48	3.76	5.62	2.45	3.99	1.63	0.42	24.47	21
1979	0.77	1.19	1.25	0.81	1.02	0.78	1.34	1.93	3.58	4.06	3.77	0.49	20.99	37
1980	1.19	0.84	0.50	0.64	0.53	1.18	1.74	2.99	2.37	1.16	2.67	1.29	17.10	61
1981	1.75	0.85	1.22	0.36	0.28	0.18	0.49	4.77	3.02	4.82	1.21	1.40	20.35	41
1982	1.40	0.63	0.65	1.14	1.20	3.06	2.25	7.98	3.34	2.75	2.41	1.98	28.79	7
1983	4.56	0.50	1.04	0.96	0.19	1.62	1.82	2.62	1.30	1.90	3.27	0.52	20.30	42
1984	2.40	1.85	0.95	0.71	0.56	1.60	4.65	1.58	5.53	1.64	2.03	0.82	24.32	22
1985	0.99	1.37	0.73	0.66	0.50	1.63	1.19	1.96	2.41	1.07	0.74	2.01	15.26	65
1986	0.73	1.53	2.01	1.08	1.29	0.99	4.83	2.14	4.11	2.45	0.81	4.57	26.54	15
1987	2.42	1.63	0.16	0.74	1.48	2.37	0.61	4.28	0.83	1.42	3.07	1.21	20.22	43
1988	0.77	0.70	0.69	1.01	1.16	2.69	0.88	3.83	2.31	1.02	1.42	1.97	18.45	59
1989	1.30	1.17	0.87	0.50	0.94	1.15	3.61	2.61	2.61	1.24	0.40	2.23	18.63	54
1990	1.95	2.00	2.30	0.80	1.10	1.10	2.80	2.60	2.00	2.30	1.90	0.40	21.25	36
1991	1.20	0.70	1.30	1.30	1.90	1.10	4.40	4.70	3.00	2.05	1.00	0.40	23.05	29
1992	1.60	2.30	0.30	0.81	1.30	1.70	3.40	1.70	3.40	2.54	1.70	2.00	22.75	31
1993	0.90	2.30	1.20	1.20	0.80	1.50	3.30	3.20	6.80	2.90	2.20	1.38	27.68	10
1994	1.25	2.20	2.80	3.00	1.20	1.80	2.90	1.98	1.16	3.26	0.97	1.30	23.82	24
1995	8.40	1.70	0.90	0.60	0.80	3.10	2.50	8.10	3.65	3.35	1.10	1.26	35.46	1
1996	5.46	1.71	0.60	2.20	0.50	3.10	2.00	4.30	4.20	3.30	2.10	2.50	31.97	2
1997	4.20	1.05	2.58	1.18	1.75	1.14	4.06	2.50	2.20	4.10	2.10	1.30	28.16	8
1998	1.80	1.50	1.40	1.45	2.48	1.75	0.77	2.11	5.01	2.88	3.27	2.17	26.59	14
Mean 1961-90	1.40	1.01	1.04	0.88	1.02	1.51	2.70	3.66	3.75	2.19	1.97	1.65	22.79	

Measured (shaded) and estimated precipitation, in inches, for site 90, Little Spearfish Creek near Lead (441852103594800)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	1.79	0.70	1.20	0.87	0.55	2.24	1.69	1.62	1.15	1.23	1.41	0.33	14.78	66
1932	1.09	0.90	0.52	1.64	0.28	1.40	6.23	4.94	3.70	3.08	1.66	0.53	25.97	26
1933	2.68	0.69	1.07	1.21	0.96	2.34	4.17	6.00	1.75	0.95	1.98	0.77	24.57	33
1934	0.40	0.59	0.69	1.17	0.46	1.33	1.39	0.48	4.57	0.61	1.56	1.46	14.71	67
1935	1.15	0.80	0.74	0.14	0.84	1.89	2.05	3.79	3.39	3.40	0.86	0.68	19.73	57
1936	0.42	0.84	1.00	0.95	0.65	1.33	1.89	0.51	1.25	1.32	0.88	0.69	11.73	68
1937	0.93	0.69	0.33	0.57	0.65	1.07	0.53	2.69	4.46	4.96	1.14	1.49	19.51	58
1938	0.34	0.84	1.43	2.15	0.60	0.92	2.70	4.70	2.54	1.84	0.58	1.38	20.02	56
1939	0.14	1.08	1.20	1.52	1.20	0.91	3.32	1.68	3.03	1.17	3.36	0.89	19.50	59
1940	1.26	0.07	0.87	0.56	1.13	1.71	4.02	1.72	2.95	1.34	1.72	1.81	19.16	60
1941	1.05	0.69	0.59	0.20	0.23	1.36	5.94	2.62	8.35	2.57	1.79	2.55	27.94	18
1942	1.99	0.69	0.85	0.37	0.67	1.49	3.42	5.68	4.51	1.62	1.76	2.31	25.36	28
1943	2.38	1.67	1.24	1.34	1.17	1.34	2.93	2.50	4.97	1.84	1.27	0.54	23.19	41
1944	1.80	1.76	0.53	2.82	0.67	1.71	2.06	2.86	5.47	2.24	0.92	0.57	23.41	39
1945	1.04	3.07	1.06	1.25	1.05	2.55	1.66	4.29	5.29	1.62	3.64	3.68	30.20	11
1946	0.50	0.45	1.14	0.91	1.06	2.69	2.60	13.11	5.18	2.15	0.89	4.99	35.67	2
1947	3.17	0.37	1.03	1.27	1.20	1.71	2.82	1.17	8.51	2.30	0.87	0.62	25.04	29
1948	1.80	1.94	0.26	1.83	0.96	0.42	2.88	1.60	5.74	3.63	1.70	1.04	23.80	35
1949	0.90	3.40	0.43	3.41	0.43	0.75	2.62	2.91	2.91	1.29	0.87	0.97	20.89	52
1950	1.47	0.87	0.96	0.46	0.40	4.13	2.45	2.16	1.89	2.90	2.50	3.75	23.94	34
1951	0.67	1.11	0.43	0.45	0.31	1.31	1.30	2.60	4.57	3.07	3.37	2.59	21.78	48
1952	1.84	1.36	2.75	0.27	0.74	1.51	0.57	8.22	1.50	2.95	1.34	0.38	23.43	38
1953	0.19	0.93	0.49	1.95	2.32	0.97	3.90	4.15	4.16	1.90	3.25	0.50	24.71	31
1954	0.37	1.25	1.13	0.38	1.43	3.19	0.87	4.43	2.78	1.70	2.38	0.68	20.59	53
1955	1.79	0.87	1.10	1.47	1.12	1.40	4.37	3.36	4.66	2.38	1.57	2.73	26.82	22
1956	1.36	1.16	1.31	0.59	0.41	1.54	1.88	4.39	2.26	2.60	3.26	1.06	21.82	47
1957	0.83	3.79	0.64	0.65	0.27	1.66	2.16	5.68	4.20	3.72	2.18	1.14	26.92	20
1958	1.02	1.40	0.49	0.65	1.60	0.49	4.25	1.78	3.63	6.50	1.59	0.26	23.66	36
1959	1.34	1.43	0.87	1.03	1.52	1.37	1.71	2.93	3.46	0.74	0.18	1.85	18.43	62
1960	0.84	2.84	1.03	0.54	1.42	1.72	2.11	1.35	4.70	1.09	3.18	1.07	21.89	45
1961	0.55	0.88	2.00	0.20	0.87	0.57	2.60	0.93	1.81	2.29	0.64	2.83	16.17	64
1962	1.09	0.81	1.27	1.34	0.86	1.00	2.19	11.21	6.67	4.26	1.14	2.23	34.07	3
1963	1.95	0.80	0.95	1.81	3.27	2.03	5.25	2.99	6.50	2.31	0.42	1.99	30.27	10
1964	1.03	0.20	1.24	1.00	2.81	1.51	2.48	5.10	9.36	0.76	6.63	0.65	32.77	4
1965	0.48	1.19	1.42	1.88	1.16	1.17	2.66	11.11	4.61	1.84	2.00	2.84	32.36	6
1966	0.00	0.45	0.41	0.42	1.04	3.26	4.02	0.70	1.38	2.54	3.14	2.82	20.18	55
1967	2.33	0.79	0.84	1.13	1.97	0.79	4.07	2.84	5.71	1.47	0.74	4.23	26.91	21
1968	1.29	0.80	1.74	0.61	0.86	0.74	1.92	2.90	5.91	3.59	2.97	2.80	26.13	24
1969	0.61	1.56	1.46	0.88	0.68	1.36	4.54	2.72	3.80	2.86	1.02	0.35	21.84	46
1970	1.62	1.22	1.95	1.39	0.91	2.40	4.46	5.41	4.03	2.31	2.12	1.55	29.37	15
1971	1.84	2.50	0.96	1.82	1.81	2.42	3.38	5.83	2.83	0.77	1.51	4.02	29.69	14
1972	3.50	1.41	0.51	0.98	0.70	1.47	3.14	6.36	6.03	2.87	3.88	0.38	31.23	8
1973	1.27	0.52	1.18	0.30	0.56	4.74	5.08	3.64	3.12	1.97	1.42	2.10	25.90	27
1974	1.60	0.76	1.65	0.48	0.95	0.92	3.37	2.01	1.73	3.49	3.52	1.02	21.50	49
1975	1.30	1.06	1.31	1.98	1.03	2.60	3.77	2.52	4.90	1.12	0.69	0.30	22.58	42
1976	1.20	1.00	1.62	1.16	1.48	1.16	3.73	3.44	10.32	2.57	0.87	1.58	30.13	12
1977	0.79	1.39	1.16	1.76	1.92	4.69	2.30	1.83	2.48	1.90	2.91	1.90	25.03	30
1978	2.26	1.48	1.15	0.43	1.40	0.52	4.61	5.87	2.29	4.52	2.05	0.43	27.01	19
1979	0.89	1.38	1.34	0.82	1.11	0.87	1.47	2.17	3.68	4.10	3.92	0.51	22.26	44
1980	1.51	0.93	0.53	0.73	0.49	1.24	2.08	3.24	2.37	1.20	2.79	1.14	18.25	63
1981	1.87	0.94	1.28	0.38	0.30	0.18	0.50	5.21	2.99	4.77	1.20	1.56	21.18	51
1982	1.48	0.76	0.66	1.14	1.18	3.20	2.50	10.64	3.36	3.29	2.16	2.15	32.52	5
1983	5.28	0.56	1.12	1.04	0.23	1.74	2.14	2.96	1.32	1.84	3.56	0.59	22.38	43
1984	2.33	1.98	1.00	0.76	0.70	1.78	5.19	1.73	5.77	1.72	2.21	0.88	26.05	25
1985	1.00	1.46	0.85	0.74	0.55	1.87	1.32	1.91	2.38	0.95	0.81	2.24	16.08	65
1986	0.87	1.57	2.31	1.33	1.42	1.01	5.22	2.13	4.46	2.41	0.77	4.45	27.95	17
1987	2.66	1.73	0.17	0.82	1.46	2.95	0.74	3.96	0.94	1.28	3.58	1.19	21.48	50
1988	0.72	0.79	0.80	1.07	1.29	3.33	0.89	4.28	2.54	0.77	1.48	2.48	20.44	54
1989	1.20	1.20	0.75	0.55	0.60	1.10	4.00	2.70	3.00	0.90	0.65	2.05	18.70	61
1990	1.70	2.80	2.60	0.90	0.80	2.20	2.30	3.20	1.50	2.90	2.00	0.65	23.55	37
1991	1.00	0.70	1.85	1.20	2.20	1.20	4.40	5.30	3.10	2.10	2.80	0.80	26.65	23
1992	1.10	2.10	0.30	1.35	2.10	2.90	3.40	3.70	2.10	1.95	1.45	0.83	23.28	40
1993	1.57	2.80	1.35	0.95	1.00	1.30	3.20	3.30	7.40	2.05	2.50	1.55	28.97	16
1994	1.65	2.05	3.40	3.20	1.10	2.30	3.20	1.70	1.00	2.80	1.30	0.90	24.60	32
1995	7.50	2.20	1.40	0.80	1.20	2.10	3.50	7.70	3.60	3.80	0.70	1.50	36.00	1
1996	4.70	1.40	0.90	2.50	0.90	3.20	2.00	4.60	2.40	3.04	2.34	1.77	29.75	13
1997	4.54	1.13	2.66	1.39	1.79	1.35	4.31	3.02	2.42	5.22	2.64	1.22	31.69	7
1998	1.74	1.52	1.48	0.89	2.56	2.01	1.16	2.62	7.40	3.61	3.76	2.09	30.84	9
Mean 1961-90	1.54	1.16	1.21	1.00	1.15	1.83	3.06	4.05	3.93	2.32	2.09	1.80	25.13	

Measured (shaded) and estimated precipitation, in inches, for site 91, Adams Ranch near Lead (441859103385600)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.00	0.76	1.13	0.78	0.51	2.13	1.42	1.64	1.10	1.51	2.04	0.31	15.33	65
1932	1.26	1.05	0.38	1.54	0.16	1.29	6.05	5.09	3.42	2.71	1.54	0.50	24.99	33
1933	2.81	0.57	0.80	0.93	0.88	1.98	4.16	6.19	1.73	1.26	2.38	0.49	24.18	37
1934	0.37	0.53	0.66	1.16	0.43	1.30	1.28	0.47	4.23	0.55	1.16	1.37	13.51	67
1935	1.34	0.76	0.71	0.09	0.86	1.72	1.96	3.76	3.18	3.75	0.85	0.58	19.56	59
1936	0.42	0.77	0.88	0.95	0.51	1.34	1.97	0.59	1.40	1.18	1.03	0.78	11.82	68
1937	1.02	0.68	0.22	0.44	0.56	1.03	0.51	3.08	4.42	5.17	1.12	1.37	19.62	58
1938	0.30	0.78	1.48	2.10	0.41	0.85	2.99	4.46	2.40	2.11	0.59	1.80	20.27	56
1939	0.16	1.12	1.16	1.45	0.99	0.80	3.48	1.61	3.16	1.01	3.23	0.92	19.09	62
1940	1.37	0.05	0.79	0.48	1.04	1.68	4.17	1.84	3.02	1.49	2.47	1.78	20.18	57
1941	0.93	0.70	0.58	0.20	0.21	1.43	5.85	2.50	8.15	2.50	1.44	2.17	26.66	26
1942	1.82	0.66	0.85	0.46	0.69	1.49	3.41	6.02	4.35	1.55	1.71	2.26	25.27	31
1943	2.45	1.51	1.18	1.38	1.06	1.41	2.86	2.34	5.14	1.42	0.84	0.47	22.06	49
1944	1.69	1.72	0.72	2.91	0.82	1.87	2.00	2.58	5.11	2.35	0.85	0.51	23.13	41
1945	1.17	3.94	1.21	1.31	1.03	2.66	1.86	4.04	5.87	1.69	2.39	3.88	31.05	15
1946	0.57	0.46	0.95	0.89	1.24	2.97	2.81	14.90	5.80	1.74	0.94	5.24	38.51	2
1947	3.54	0.41	0.97	1.29	1.21	1.61	2.75	1.23	9.13	2.07	0.94	0.69	25.84	28
1948	1.96	1.85	0.20	1.85	1.05	0.39	3.15	1.82	6.00	3.70	1.81	0.82	24.60	36
1949	1.08	3.96	0.56	4.28	0.55	0.91	2.57	3.43	2.41	1.24	0.78	0.91	22.68	43
1950	1.56	0.72	1.07	0.54	0.48	4.28	2.79	2.50	1.77	2.57	2.61	4.04	24.93	34
1951	0.75	1.17	0.43	0.46	0.36	1.34	1.21	2.76	4.87	2.70	4.09	2.42	22.56	44
1952	2.00	1.36	2.97	0.25	0.78	1.61	0.51	8.73	1.45	3.23	1.41	0.31	24.61	35
1953	0.21	1.03	0.52	2.11	2.59	1.06	4.23	4.44	4.11	1.88	3.06	0.43	25.67	29
1954	0.38	1.31	1.18	0.39	1.61	3.56	0.95	4.51	3.13	1.81	2.24	0.66	21.73	51
1955	1.83	0.97	1.17	1.59	1.23	1.53	4.78	3.33	4.98	2.38	1.50	3.02	28.31	19
1956	1.44	1.18	1.42	0.72	0.42	1.75	1.97	4.48	2.28	2.34	3.33	1.17	22.50	45
1957	0.90	4.44	0.70	0.71	0.27	1.73	2.38	6.33	4.40	3.45	1.68	1.22	28.21	20
1958	1.21	1.59	0.48	0.60	1.80	0.52	4.77	1.98	3.41	7.23	1.57	0.15	25.31	30
1959	1.51	1.50	0.85	1.12	1.64	1.44	1.84	2.91	3.64	0.71	0.20	1.78	19.14	61
1960	0.87	3.03	1.02	0.51	1.48	1.76	2.18	1.33	4.48	1.33	2.76	1.06	21.81	50
1961	0.53	0.85	2.20	0.20	1.03	0.66	2.77	0.95	1.76	2.56	0.54	2.89	16.94	64
1962	1.30	0.87	1.36	1.46	0.92	1.10	2.26	11.89	7.31	4.39	1.14	2.41	36.41	4
1963	2.00	0.92	1.04	2.03	3.83	2.27	5.74	2.66	5.75	2.69	0.39	1.98	31.30	14
1964	1.01	0.19	1.37	1.09	3.20	1.66	2.68	5.30	9.64	0.82	7.53	0.67	35.16	5
1965	0.49	1.45	1.57	2.02	1.40	1.34	3.05	12.09	4.60	1.86	2.09	2.86	34.82	6
1966	0.00	0.44	0.41	0.42	1.06	3.67	4.43	0.78	1.17	2.49	3.25	3.10	21.22	54
1967	2.49	0.80	0.92	1.19	2.15	0.90	4.03	3.11	5.82	1.48	0.56	4.34	27.79	23
1968	1.29	0.87	1.99	0.70	0.94	0.76	2.02	2.91	6.17	3.71	3.08	2.92	27.36	24
1969	0.60	1.60	1.58	0.90	0.70	1.41	4.75	2.69	3.57	2.68	0.92	0.23	21.63	52
1970	1.71	1.17	2.30	1.63	0.90	2.58	5.48	5.78	4.09	2.20	2.01	1.64	31.49	13
1971	2.01	2.95	1.02	1.98	2.13	2.85	3.72	6.41	3.10	0.66	1.27	4.80	32.90	9
1972	3.80	1.61	0.62	1.12	0.78	1.56	3.49	6.41	6.49	2.76	3.21	0.36	32.21	11
1973	1.38	0.54	1.32	0.30	0.63	5.61	5.69	4.19	3.05	1.85	1.25	2.03	27.84	22
1974	1.68	0.83	1.85	0.59	1.06	1.07	3.82	2.03	1.61	3.38	3.16	1.13	22.21	48
1975	1.43	1.12	1.45	2.20	1.22	2.79	4.24	2.53	4.75	1.45	0.72	0.25	24.15	38
1976	1.29	1.25	1.87	1.43	1.63	1.46	4.38	3.34	11.49	2.01	0.89	2.02	33.06	8
1977	0.97	1.55	1.43	1.92	2.15	5.62	2.41	1.77	2.53	1.87	2.78	1.93	26.93	25
1978	2.29	1.73	1.17	0.50	1.42	0.51	5.50	5.92	2.09	4.88	2.31	0.46	28.78	18
1979	0.89	1.65	1.49	0.82	1.19	0.97	1.60	2.11	3.95	3.92	3.77	0.49	22.85	42
1980	1.79	1.03	0.58	0.85	0.54	1.27	2.46	3.15	2.47	1.24	2.65	0.84	18.87	63
1981	2.04	1.08	1.27	0.39	0.27	0.12	0.43	6.08	2.85	4.90	1.16	1.63	22.22	47
1982	1.53	0.88	0.59	0.99	0.85	2.66	2.33	12.16	3.23	3.44	2.38	2.37	33.41	7
1983	6.38	0.70	1.29	1.18	0.26	2.39	2.53	3.39	1.42	2.01	4.00	0.63	26.18	27
1984	1.92	1.90	0.86	0.54	0.69	2.02	4.61	1.89	5.41	1.14	3.31	0.88	25.17	32
1985	1.09	1.35	0.45	0.38	0.25	1.76	1.48	1.43	1.95	0.48	1.10	2.06	13.78	66
1986	0.81	1.58	2.03	1.02	1.37	1.37	4.83	2.21	4.37	2.50	1.25	4.60	27.94	21
1987	2.35	1.67	0.13	0.72	1.22	2.89	0.61	3.09	0.92	0.97	3.45	1.34	19.36	60
1988	0.76	0.75	0.74	0.75	1.28	2.39	0.82	5.00	3.14	0.85	2.31	1.83	20.62	55
1989	1.46	1.39	1.04	0.31	0.79	1.54	4.85	2.92	2.59	2.43	1.75	2.19	23.26	40
1990	2.08	1.93	2.80	0.76	1.07	2.03	2.85	2.69	0.84	3.26	1.60	1.47	23.38	39
1991	0.90	0.97	1.05	1.08	2.38	2.06	3.93	7.29	4.57	2.45	1.52	0.84	29.04	17
1992	1.92	2.11	0.20	0.70	0.74	2.04	3.92	2.76	3.05	2.12	1.50	0.52	21.58	53
1993	1.11	2.42	1.57	1.18	1.11	1.76	4.04	4.20	6.75	3.08	0.99	1.30	29.51	16
1994	2.42	2.08	2.48	2.51	0.86	2.14	3.73	1.33	2.25	1.02	0.83	0.63	22.28	46
1995	8.87	2.14	0.32	0.57	1.05	1.75	3.80	10.76	4.38	3.42	0.56	1.69	39.31	1
1996	5.78	1.24	0.47	2.34	0.79	3.16	3.06	7.28	1.55	1.37	2.44	3.22	32.70	10
1997	6.06	1.27	2.68	1.53	2.08	1.84	3.49	5.15	1.80	6.55	3.52	0.72	36.69	3
1998	1.40	1.96	1.56	0.65	3.02	1.13	2.72	1.11	7.10	3.41	5.18	2.91	32.15	12
Mean 1961-90	1.65	1.22	1.29	1.01	1.23	1.97	3.33	4.23	3.94	2.36	2.19	1.88	26.31	

Measured (shaded) and estimated precipitation, in inches, for site 92, Two Bit Gulch near Deadwood (442104103414400)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.40	0.77	1.07	0.69	0.50	1.94	1.35	1.78	1.09	1.59	2.34	0.34	15.86	65
1932	1.40	0.93	0.39	1.33	0.17	1.23	6.52	5.33	3.49	2.74	1.48	0.51	25.52	35
1933	2.97	0.56	0.83	0.74	0.94	2.09	4.25	6.68	1.91	1.47	2.65	0.54	25.63	33
1934	0.42	0.56	0.64	1.22	0.42	1.36	1.32	0.46	4.15	0.63	1.10	1.29	13.57	67
1935	1.59	0.79	0.63	0.09	0.78	1.67	1.95	3.89	3.21	3.59	0.83	0.56	19.58	61
1936	0.44	0.64	0.94	0.91	0.52	1.40	2.26	0.69	1.39	1.12	0.83	0.95	12.09	68
1937	1.10	0.72	0.22	0.47	0.59	1.04	0.59	3.43	4.55	5.36	1.17	1.35	20.59	59
1938	0.26	0.74	1.49	1.85	0.40	0.84	2.97	4.54	2.62	2.24	0.63	2.28	20.86	57
1939	0.16	1.09	1.07	1.37	1.03	0.69	3.50	1.45	3.34	0.94	3.16	0.98	18.78	63
1940	1.35	0.06	0.77	0.47	1.07	1.78	4.47	2.11	3.24	1.34	2.39	1.86	20.91	56
1941	0.88	0.73	0.58	0.24	0.25	1.34	5.74	2.25	8.50	2.48	1.20	2.43	26.62	29
1942	1.71	0.70	0.86	0.47	0.69	1.32	3.50	6.48	4.34	1.35	1.57	2.23	25.22	36
1943	2.41	1.49	1.20	1.38	1.01	1.45	2.61	1.98	5.21	1.24	0.71	0.43	21.12	55
1944	1.67	1.63	0.87	2.93	0.88	1.97	2.10	2.53	5.61	2.27	1.06	0.48	24.00	40
1945	1.24	4.63	1.48	1.37	1.09	2.91	1.95	4.16	6.40	1.90	2.05	4.30	33.48	12
1946	0.70	0.54	0.95	0.95	1.36	3.26	2.93	16.50	6.53	1.30	0.89	5.45	41.36	2
1947	3.47	0.45	0.95	1.21	1.24	1.69	2.68	1.18	9.76	1.78	0.96	0.74	26.11	31
1948	2.19	1.96	0.21	1.86	1.22	0.47	3.32	1.87	6.04	3.54	1.48	0.89	25.05	37
1949	1.21	4.36	0.59	4.57	0.63	1.05	2.52	3.59	2.28	1.05	0.84	0.92	23.61	42
1950	1.70	0.70	1.17	0.56	0.48	4.45	2.89	2.77	1.67	2.53	2.57	4.33	25.82	32
1951	0.81	1.22	0.42	0.50	0.38	1.37	1.12	2.68	4.95	2.67	4.24	2.50	22.86	48
1952	2.19	1.43	3.06	0.28	0.87	1.76	0.50	9.02	1.33	3.52	1.41	0.25	25.62	34
1953	0.24	1.13	0.55	2.30	2.80	1.03	4.58	4.81	4.25	1.71	2.66	0.47	26.53	30
1954	0.42	1.45	1.20	0.43	1.75	4.00	1.09	4.88	3.53	2.01	2.08	0.53	23.37	46
1955	1.92	1.02	1.16	1.57	1.32	1.57	5.30	3.51	5.39	2.19	1.50	3.09	29.54	18
1956	1.57	1.24	1.51	0.79	0.44	1.89	2.11	4.73	2.47	2.15	3.23	1.33	23.46	45
1957	0.97	4.92	0.74	0.72	0.29	1.84	2.58	6.61	4.38	3.40	1.48	1.35	29.28	21
1958	1.44	1.89	0.42	0.50	2.00	0.51	5.20	2.15	3.23	8.47	1.46	0.09	27.36	27
1959	1.54	1.56	0.82	1.13	1.68	1.41	1.73	2.93	3.68	0.68	0.20	1.60	18.96	62
1960	0.85	3.26	1.08	0.54	1.52	1.96	2.23	1.23	3.99	1.40	2.50	0.99	21.55	53
1961	0.66	0.90	2.42	0.19	1.14	0.74	3.00	0.93	1.74	2.55	0.36	3.08	17.71	64
1962	1.38	0.98	1.35	1.50	0.99	1.19	2.30	12.29	7.46	4.34	1.15	2.58	37.51	4
1963	2.22	1.08	1.09	2.18	4.32	2.44	5.98	2.67	5.53	3.06	0.45	1.86	32.88	14
1964	1.09	0.17	1.38	1.12	3.32	1.77	2.82	5.54	9.94	0.90	8.55	0.66	37.26	5
1965	0.48	1.72	1.57	2.05	1.70	1.59	3.37	13.31	4.45	1.76	2.18	3.00	37.18	6
1966	0.00	0.43	0.41	0.46	1.10	4.40	4.66	0.88	1.11	2.10	3.31	3.52	22.38	51
1967	2.89	0.81	0.92	1.21	2.22	1.00	3.97	3.13	5.57	1.12	0.43	4.70	27.97	26
1968	1.38	0.92	2.18	0.79	0.98	0.90	2.12	2.93	6.45	3.80	2.94	3.24	28.63	23
1969	0.71	1.62	1.78	0.90	0.69	1.49	4.84	2.74	3.42	2.21	0.73	0.20	21.33	54
1970	1.86	1.18	2.50	1.83	0.85	2.68	6.00	6.21	4.25	2.17	2.36	1.65	33.54	11
1971	2.12	3.11	1.06	2.09	2.32	3.18	3.80	6.73	3.33	0.61	1.10	5.17	34.62	9
1972	3.88	1.66	0.73	1.19	0.82	1.71	3.81	6.50	6.71	2.81	3.08	0.35	33.25	13
1973	1.53	0.55	1.43	0.32	0.66	6.17	6.04	4.65	2.95	1.88	1.14	2.04	29.36	20
1974	1.75	0.88	2.00	0.70	1.13	1.18	4.13	2.19	1.50	3.48	3.25	1.13	23.32	47
1975	1.47	1.18	1.59	2.28	1.33	2.83	4.50	2.53	4.83	1.51	0.72	0.24	25.01	38
1976	1.35	1.39	2.04	1.64	1.73	1.68	4.66	3.40	11.96	1.82	0.90	2.45	35.02	8
1977	1.09	1.67	1.61	2.10	2.29	6.05	2.55	1.66	2.67	1.87	2.87	1.95	28.38	25
1978	2.24	1.88	1.27	0.56	1.47	0.53	5.96	6.01	2.11	5.06	2.43	0.50	30.02	17
1979	0.96	1.76	1.68	0.84	1.32	1.06	1.65	2.04	3.81	3.88	3.95	0.55	23.50	43
1980	2.01	1.12	0.66	0.92	0.54	1.28	2.68	3.28	2.50	1.19	2.62	0.81	19.61	60
1981	1.90	1.17	1.34	0.38	0.24	0.10	0.39	6.07	2.96	4.67	1.29	1.50	22.01	52
1982	1.57	0.96	0.57	0.94	0.67	2.39	2.42	13.86	3.27	3.60	2.56	2.39	35.20	7
1983	6.98	0.83	1.50	1.33	0.29	2.67	2.77	3.55	1.27	2.17	4.33	0.71	28.40	24
1984	2.00	1.96	0.90	0.61	0.80	2.13	5.30	1.96	5.69	1.56	2.87	0.94	26.72	28
1985	1.00	1.46	0.70	0.74	0.36	1.90	1.36	1.96	2.42	0.58	0.74	2.37	15.59	66
1986	0.98	1.63	2.58	1.23	1.41	1.13	5.13	2.28	4.41	2.66	0.83	4.79	29.06	22
1987	2.91	1.74	0.09	0.86	1.39	3.55	0.82	3.65	0.84	1.12	4.05	1.38	22.40	50
1988	0.77	0.92	0.90	0.96	1.37	3.53	0.90	4.86	3.03	0.71	2.00	2.58	22.53	49
1989	1.52	1.44	0.95	0.36	0.95	2.02	5.17	2.77	3.06	1.93	0.88	2.42	23.47	44
1990	1.31	2.21	2.76	0.90	0.91	1.92	3.14	1.83	1.47	2.59	0.78	0.96	20.78	58
1991	0.96	1.08	1.11	1.18	2.17	1.85	3.59	6.65	5.10	2.17	1.85	1.75	29.46	19
1992	1.79	2.00	0.22	0.77	0.92	2.19	3.96	2.92	4.32	2.51	1.34	0.85	23.79	41
1993	1.01	2.32	1.62	1.21	1.18	1.67	4.07	4.59	6.93	4.43	1.94	1.83	32.80	15
1994	2.03	2.27	2.71	2.79	1.11	2.18	3.85	0.82	1.69	3.26	0.69	0.93	24.33	39
1995	9.43	2.13	0.39	0.61	0.98	2.03	3.71	13.43	4.86	4.66	0.57	2.12	44.92	1
1996	6.00	1.51	0.63	2.33	0.76	3.42	2.92	6.39	1.86	1.63	3.53	2.82	33.80	10
1997	6.13	1.22	2.73	1.77	2.00	1.94	4.28	4.66	2.59	6.71	2.87	0.95	37.85	3
1998	1.50	2.01	1.47	0.90	2.51	1.80	2.03	1.40	7.63	2.99	6.02	1.95	32.21	16
Mean 1961-90	1.73	1.31	1.40	1.11	1.31	2.17	3.54	4.41	4.02	2.32	2.16	1.99	27.49	

Measured (shaded) and estimated precipitation, in inches, for site 93, Boulder Park near Sturgis (442343103363900)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.23	0.73	0.91	0.73	0.51	2.03	1.39	1.70	1.06	1.50	2.01	0.33	15.13	65
1932	1.38	1.04	0.40	1.44	0.17	1.25	6.18	5.09	3.47	3.01	1.60	0.52	25.55	25
1933	2.78	0.54	0.80	0.80	0.87	2.22	4.20	6.35	1.84	1.36	2.37	0.56	24.69	32
1934	0.38	0.52	0.62	1.12	0.41	1.31	1.31	0.44	4.34	0.61	1.10	1.42	13.58	67
1935	1.42	0.77	0.66	0.10	0.77	1.68	1.92	3.90	3.32	3.55	0.87	0.59	19.55	59
1936	0.42	0.69	0.89	0.92	0.51	1.32	2.16	0.61	1.38	1.20	0.91	0.79	11.80	68
1937	1.05	0.70	0.20	0.43	0.55	1.06	0.54	3.11	4.50	5.43	1.11	1.46	20.14	54
1938	0.28	0.76	1.40	1.86	0.40	0.82	2.86	4.53	2.48	2.07	0.60	1.92	19.98	56
1939	0.16	1.07	1.08	1.34	1.00	0.74	3.31	1.53	3.13	1.12	3.18	0.95	18.61	61
1940	1.32	0.05	0.75	0.46	1.02	1.74	4.22	1.86	3.16	1.37	2.26	1.86	20.07	55
1941	0.87	0.73	0.57	0.21	0.21	1.34	5.82	2.45	8.37	2.41	1.41	2.46	26.85	20
1942	1.75	0.65	0.88	0.42	0.65	1.33	3.58	6.26	4.34	1.45	1.69	2.22	25.22	27
1943	2.39	1.55	1.18	1.39	1.03	1.43	2.60	2.07	5.19	1.30	0.76	0.47	21.36	48
1944	1.66	1.68	0.84	2.96	0.86	2.01	2.10	2.60	5.65	2.19	1.07	0.51	24.13	33
1945	1.19	4.63	1.44	1.35	1.08	2.91	1.89	4.18	6.16	1.80	2.11	4.31	33.05	6
1946	0.71	0.52	0.94	0.95	1.32	3.18	2.99	15.98	6.45	1.39	0.92	5.44	40.79	1
1947	3.46	0.44	0.99	1.20	1.25	1.68	2.71	1.17	9.72	1.72	0.95	0.73	26.02	24
1948	2.13	1.84	0.21	1.83	1.23	0.49	3.28	1.87	6.04	3.67	1.47	0.88	24.94	30
1949	1.13	4.26	0.57	4.43	0.59	0.99	2.50	3.54	2.39	1.09	0.66	0.82	22.97	37
1950	1.70	0.55	1.02	0.53	0.36	3.86	2.89	2.52	1.60	2.18	2.50	3.89	23.60	35
1951	0.74	1.05	0.40	0.35	0.31	1.09	0.97	2.70	4.92	2.51	4.73	2.27	22.04	45
1952	2.00	1.09	2.46	0.28	0.69	1.34	0.39	7.78	1.54	3.31	1.50	0.23	22.61	40
1953	0.17	0.84	0.38	1.76	2.47	0.84	4.00	4.15	4.29	1.62	2.75	0.34	23.61	34
1954	0.31	1.25	0.82	0.34	1.36	3.35	0.87	4.40	3.30	1.55	1.82	0.49	19.86	58
1955	1.57	0.79	0.84	1.07	1.10	1.22	4.03	3.08	4.31	2.41	1.58	3.01	25.01	29
1956	1.20	0.95	1.45	0.66	0.35	1.34	1.80	4.41	1.95	2.74	2.80	1.25	20.90	52
1957	0.86	3.85	0.59	0.59	0.26	1.46	2.31	6.36	4.40	3.37	1.52	1.18	26.75	22
1958	1.22	1.25	0.29	0.42	1.72	0.49	4.86	1.81	3.21	6.66	1.38	0.07	23.38	36
1959	1.24	1.27	0.74	0.93	1.36	1.14	1.76	2.79	2.95	0.84	0.23	1.82	17.07	63
1960	0.80	2.59	0.83	0.46	1.28	1.53	1.87	1.24	3.75	1.17	2.38	1.00	18.90	60
1961	0.51	0.72	2.03	0.18	0.92	0.59	2.62	1.03	1.86	2.41	0.74	2.73	16.34	64
1962	1.46	0.82	1.09	1.19	0.71	1.12	2.09	11.82	7.08	4.79	1.09	2.10	35.36	4
1963	2.13	0.86	0.82	1.71	3.33	1.96	5.35	2.16	5.52	2.71	0.48	2.12	29.15	14
1964	0.99	0.13	1.09	0.87	2.43	1.40	2.34	4.92	9.41	0.82	6.67	0.53	31.60	10
1965	0.45	1.42	1.25	1.58	1.19	1.18	2.62	11.07	4.85	1.39	2.32	2.60	31.92	8
1966	0.00	0.37	0.40	0.40	0.99	3.89	4.19	0.84	1.05	2.44	3.33	3.18	21.08	51
1967	2.75	0.81	0.90	1.02	1.87	0.85	4.07	3.12	5.40	1.54	0.51	4.12	26.96	19
1968	1.10	0.74	1.72	0.65	0.88	0.73	1.87	2.49	6.25	3.57	2.57	2.65	25.22	28
1969	0.58	1.42	1.51	0.70	0.70	1.30	4.65	2.82	3.31	2.18	0.58	0.13	19.88	57
1970	1.51	1.03	1.90	1.39	0.77	2.39	5.42	5.46	3.60	2.00	1.84	1.59	28.90	15
1971	1.77	2.68	0.94	1.83	1.84	2.44	3.94	6.95	3.15	0.46	1.05	4.47	31.52	12
1972	3.75	1.53	0.55	1.03	0.70	1.40	3.40	5.55	6.95	2.35	2.80	0.32	30.33	13
1973	1.38	0.44	1.19	0.28	0.61	5.55	5.46	4.24	2.96	1.79	1.12	1.82	26.84	21
1974	1.80	0.77	1.64	0.51	1.00	1.01	3.90	2.12	1.72	2.64	2.67	1.09	20.87	53
1975	1.41	0.98	1.21	2.08	1.12	2.43	3.89	2.51	4.46	1.72	0.67	0.18	22.66	39
1976	1.17	1.11	1.62	1.20	1.57	1.32	4.20	3.16	11.73	1.88	0.97	1.81	31.74	9
1977	0.88	1.32	1.19	1.60	1.82	4.96	2.07	2.04	2.38	1.97	2.61	1.91	24.75	31
1978	2.50	1.52	0.99	0.44	1.31	0.45	5.10	5.62	1.87	4.80	2.21	0.46	27.27	18
1979	0.76	1.68	1.30	0.75	1.10	0.85	1.47	2.05	4.43	3.68	3.39	0.46	21.92	46
1980	1.57	0.80	0.48	0.74	0.56	1.26	2.42	2.90	2.52	1.26	2.40	0.62	17.53	62
1981	2.17	0.98	1.19	0.35	0.22	0.10	0.37	6.27	2.86	5.35	0.96	1.79	22.61	41
1982	1.56	0.78	0.50	0.87	0.68	2.43	2.02	12.14	2.90	3.06	2.28	2.38	31.60	11
1983	5.78	0.47	1.05	0.84	0.19	2.07	2.34	3.04	1.43	1.95	3.28	0.47	22.91	38
1984	1.69	1.64	0.90	0.43	0.56	1.67	5.69	1.79	6.30	1.66	2.88	0.94	26.15	23
1985	0.88	1.46	0.67	0.63	0.29	1.80	1.19	1.75	2.26	0.69	1.33	2.10	15.05	66
1986	0.86	1.82	2.30	1.10	1.36	1.04	4.99	2.24	4.65	2.71	0.72	5.06	28.85	16
1987	2.75	1.70	0.10	0.67	1.36	3.13	0.70	3.75	0.78	1.22	3.86	1.23	21.25	49
1988	0.65	0.80	0.72	0.89	1.10	3.51	0.83	4.66	3.00	0.69	2.08	2.22	21.15	50
1989	1.30	1.40	0.40	0.20	0.80	2.20	5.00	2.70	2.30	1.80	1.50	2.00	21.60	47
1990	2.30	2.20	3.10	1.36	0.50	1.90	2.20	3.10	1.30	2.60	1.30	0.40	22.26	44
1991	0.09	2.10	0.30	0.90	2.20	2.50	3.60	6.70	3.00	1.90	1.00	1.00	25.29	26
1992	1.80	2.20	0.30	0.40	1.10	2.60	4.10	2.80	3.20	2.70	1.10	0.05	22.35	43
1993	0.80	2.40	1.50	1.40	0.90	2.20	3.40	5.30	7.40	4.30	1.30	2.57	33.47	5
1994	1.60	1.90	3.10	2.00	1.10	1.91	3.80	1.60	1.20	2.80	0.50	1.00	22.51	42
1995	8.45	2.10	0.40	0.60	1.00	1.81	3.20	12.10	4.10	4.60	0.90	1.20	40.46	2
1996	6.10	2.00	0.40	2.40	0.60	3.60	3.10	7.10	2.60	1.40	1.60	1.90	32.80	7
1997	7.00	1.60	2.40	2.30	1.80	2.40	3.00	4.90	3.30	6.30	1.80	0.70	37.50	3
1998	1.00	2.00	1.10	0.60	2.80	2.80	1.40	1.20	7.70	3.00	3.00	1.80	28.40	17
Mean 1961-90	1.61	1.15	1.16	0.92	1.08	1.90	3.21	4.14	3.94	2.27	2.01	1.78	25.18	

Measured (shaded) and estimated precipitation, in inches, for site 94, Elkhorn Peak near Whitewood (442745103434500)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	RANK
1931	2.18	0.64	0.69	0.61	0.47	1.82	1.18	1.53	0.95	1.36	1.45	0.39	13.27	66
1932	1.75	0.96	0.44	1.22	0.17	1.07	5.86	4.51	3.05	3.72	1.40	0.41	24.56	30
1933	2.27	0.43	0.57	0.44	0.69	2.86	4.01	5.54	1.88	1.40	1.63	0.78	22.50	37
1934	0.38	0.36	0.50	0.98	0.33	1.21	1.27	0.27	4.28	0.75	0.77	1.67	12.77	67
1935	1.14	0.69	0.54	0.13	0.52	1.44	1.51	3.68	3.04	1.86	0.96	0.47	15.98	64
1936	0.39	0.40	0.82	0.77	0.49	0.98	2.53	0.62	1.12	1.42	0.65	0.73	10.92	68
1937	1.11	0.61	0.12	0.34	0.39	1.08	0.54	3.03	4.44	5.99	1.03	1.89	20.57	49
1938	0.18	0.79	1.10	0.95	0.28	0.72	2.07	4.67	2.58	1.72	0.77	2.00	17.83	55
1939	0.14	0.89	0.71	0.75	1.00	0.39	2.28	1.19	3.02	1.66	2.92	1.06	16.01	63
1940	1.11	0.08	0.54	0.38	0.88	1.89	4.34	1.77	3.87	1.15	1.74	2.18	19.93	51
1941	0.56	0.90	0.54	0.26	0.16	0.98	5.87	2.58	9.08	1.78	1.42	3.76	27.89	16
1942	1.38	0.58	0.95	0.23	0.43	0.66	4.36	6.91	4.32	1.07	1.62	2.07	24.58	29
1943	2.02	1.43	0.98	1.22	0.83	1.36	2.01	1.66	5.02	1.20	0.72	0.48	18.93	53
1944	1.47	1.52	0.88	2.64	0.82	2.06	2.08	2.59	6.11	1.86	1.32	0.52	23.87	33
1945	1.08	5.21	1.52	1.24	1.01	2.87	1.65	3.80	5.89	1.66	1.62	4.62	32.17	8
1946	0.84	0.53	0.79	0.90	1.15	3.11	3.31	15.27	6.81	1.02	0.99	5.51	40.23	1
1947	3.46	0.45	1.00	0.97	1.14	1.49	2.39	1.05	9.89	1.12	0.91	0.85	24.72	28
1948	2.20	1.84	0.24	1.50	1.34	0.63	3.26	1.81	5.75	3.55	1.16	0.90	24.18	31
1949	0.97	4.16	0.48	4.17	0.55	1.03	2.42	3.44	2.15	0.92	0.79	1.03	22.11	41
1950	1.81	0.60	1.47	0.63	0.35	4.70	2.72	2.69	1.59	2.19	2.29	3.80	24.84	27
1951	0.84	1.25	0.38	0.45	0.37	1.13	1.10	2.31	4.92	2.35	4.21	2.51	21.82	43
1952	2.12	1.29	2.67	0.34	0.76	1.60	0.45	8.19	1.36	3.38	1.39	0.22	23.77	34
1953	0.16	0.89	0.42	1.87	2.51	0.76	4.04	4.42	4.47	1.24	2.51	0.45	23.74	35
1954	0.36	1.40	0.84	0.41	1.36	3.49	0.99	4.86	3.43	1.66	1.64	0.39	20.83	48
1955	1.69	0.78	0.80	1.02	1.13	1.18	4.47	3.45	4.52	2.02	1.61	2.68	25.35	25
1956	1.38	1.04	1.44	0.62	0.38	1.34	1.88	4.67	2.18	2.67	2.60	1.38	21.58	46
1957	0.95	4.45	0.65	0.64	0.27	1.58	2.33	5.82	4.18	3.68	1.69	1.27	27.51	18
1958	1.30	1.38	0.26	0.39	1.79	0.43	4.87	1.75	3.25	7.35	1.31	0.07	24.15	32
1959	1.15	1.31	0.78	0.89	1.37	1.08	1.41	2.91	2.89	0.80	0.22	1.65	16.46	62
1960	0.75	2.81	1.02	0.59	1.32	1.86	1.87	1.22	3.34	1.06	2.60	0.99	19.43	52
1961	0.74	0.87	2.16	0.17	1.04	0.59	2.78	0.95	1.90	2.09	0.55	2.94	16.78	61
1962	1.31	0.92	1.17	1.31	0.77	1.12	2.15	11.58	6.78	4.42	1.11	2.17	34.81	3
1963	2.46	0.93	0.82	1.74	3.41	2.01	5.23	2.34	6.07	3.05	0.64	1.91	30.61	12
1964	1.15	0.14	1.05	0.97	2.32	1.60	2.37	5.26	9.62	0.86	6.82	0.51	32.67	7
1965	0.41	1.66	1.20	1.57	1.55	1.49	2.72	12.62	4.43	1.31	2.28	2.90	34.14	5
1966	0.00	0.40	0.41	0.46	1.05	4.43	4.19	0.90	1.25	1.94	3.28	3.47	21.78	44
1967	3.08	0.81	0.82	1.06	1.88	0.84	4.26	2.81	5.00	0.89	0.53	4.61	26.59	22
1968	1.24	0.76	1.76	0.69	0.94	0.94	2.00	2.57	6.25	3.44	2.33	3.06	25.98	23
1969	0.76	1.49	1.72	0.72	0.66	1.43	4.74	2.97	3.51	1.75	0.46	0.15	20.36	50
1970	1.66	1.05	2.00	1.45	0.82	2.49	5.62	6.04	4.04	2.17	2.74	1.58	31.66	10
1971	1.89	2.85	1.02	1.88	1.94	2.58	3.47	6.67	3.26	0.51	0.93	4.45	31.45	11
1972	3.94	1.53	0.61	0.98	0.68	1.59	3.56	5.77	6.75	2.47	3.54	0.32	31.74	9
1973	1.56	0.44	1.27	0.33	0.62	5.67	5.40	4.40	2.66	2.02	1.08	1.97	27.42	19
1974	1.93	0.76	1.70	0.56	1.02	1.06	4.04	2.39	1.72	2.97	3.19	0.94	22.28	40
1975	1.30	1.05	1.35	1.92	1.12	2.32	3.90	2.49	4.59	1.45	0.61	0.22	22.32	39
1976	1.19	1.09	1.68	1.26	1.51	1.41	4.25	3.14	12.50	1.95	0.81	1.96	32.75	6
1977	0.98	1.34	1.18	1.57	1.77	5.33	2.11	1.85	2.43	2.04	2.96	1.80	25.36	24
1978	2.79	1.59	1.16	0.47	1.38	0.47	5.00	5.65	1.88	4.71	2.25	0.41	27.76	17
1979	0.82	1.66	1.31	0.80	1.23	0.95	1.50	2.00	3.58	3.53	3.94	0.56	21.88	42
1980	1.74	0.79	0.52	0.78	0.46	1.29	2.36	3.03	2.70	1.04	2.36	0.83	17.90	54
1981	1.93	1.02	1.44	0.39	0.26	0.15	0.40	5.32	3.40	4.53	1.25	1.63	21.72	45
1982	1.72	0.85	0.55	0.96	0.65	2.46	2.31	13.92	3.03	3.03	2.34	2.51	34.33	4
1983	5.58	0.42	0.91	0.66	0.18	1.72	2.62	3.05	1.14	1.91	3.52	0.65	22.36	38
1984	1.89	1.82	1.22	0.41	0.59	1.55	5.69	1.79	7.11	1.44	2.56	1.00	27.07	20
1985	0.86	1.48	1.01	0.74	0.33	1.93	1.23	1.93	2.61	0.72	0.61	2.30	15.75	65
1986	0.98	1.75	2.46	1.30	1.42	0.92	5.36	2.26	4.43	2.88	0.60	4.86	29.22	14
1987	2.94	1.75	0.16	0.70	1.48	3.32	0.76	4.03	0.75	1.39	4.08	1.24	22.60	36
1988	0.63	0.96	0.93	1.02	1.11	3.97	0.93	4.50	2.91	0.67	1.58	2.20	21.41	47
1989	1.20	1.10	0.30	0.00	0.20	2.00	4.70	1.80	2.50	1.00	1.00	1.80	17.60	57
1990	2.20	2.00	2.30	0.30	0.60	1.10	2.30	3.00	0.70	2.50	0.40	0.00	17.40	59
1991	1.00	0.72	0.50	1.10	1.50	1.50	2.50	5.50	2.00	0.80	0.50	0.20	17.82	56
1992	1.10	1.80	0.00	0.30	0.80	1.50	3.00	2.10	3.70	2.00	0.60	0.60	17.50	58
1993	0.70	0.30	1.90	0.70	0.40	2.00	3.00	4.10	7.40	3.40	1.60	1.50	27.00	21
1994	0.90	1.40	1.90	1.60	1.30	0.70	3.00	1.10	0.80	2.40	1.20	0.90	17.20	60
1995	9.60	1.40	1.15	0.55	0.55	1.55	2.15	9.70	5.30	4.50	1.40	1.20	39.05	2
1996	5.50	1.40	0.10	2.20	0.50	2.90	2.40	5.70	2.10	1.60	1.40	2.15	27.95	15
1997	5.00	0.70	2.60	1.80	1.40	1.70	2.20	3.40	3.10	6.20	1.20	1.00	30.30	13
1998	0.90	1.30	0.90	0.60	2.30	2.20	1.30	0.90	8.00	3.10	2.50	1.20	25.20	26
Mean 1961-90	1.70	1.18	1.21	0.91	1.10	1.96	3.27	4.23	3.98	2.16	2.01	1.83	25.52	

Section C - Monthly and annual precipitation values
for the study area and counties within the
study area, water years 1931-98

Table C1. Monthly and annual precipitation values, in inches, for the Black Hills study area

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	2.74	0.67	0.31	0.39	0.36	1.16	0.80	1.60	1.42	1.39	1.67	0.48	12.97
1932	1.33	0.70	0.58	0.92	0.43	1.41	4.16	3.75	2.96	2.63	2.40	0.37	21.64
1933	1.67	0.20	0.43	0.39	0.53	1.51	3.63	5.66	1.23	1.62	3.65	0.50	21.05
1934	0.19	0.29	0.33	0.47	0.38	1.17	1.00	0.35	3.41	1.26	1.24	1.03	11.12
1935	1.49	0.40	0.49	0.15	0.52	1.40	2.09	5.87	2.58	1.48	0.78	0.72	17.96
1936	0.38	0.45	0.40	0.61	0.70	0.82	1.52	0.51	2.06	0.78	1.26	0.72	10.22
1937	0.77	0.82	0.27	0.43	0.38	1.39	0.53	2.20	3.98	3.64	0.65	1.03	16.08
1938	0.41	0.41	0.74	0.66	0.20	1.06	2.08	4.08	2.06	2.02	0.79	1.68	16.21
1939	0.26	0.72	0.38	0.48	0.53	0.76	1.14	1.73	2.46	1.24	3.02	0.99	13.69
1940	1.09	0.02	0.37	0.37	0.48	1.08	3.63	0.86	2.11	1.52	1.33	1.63	14.50
1941	0.87	0.44	0.36	0.16	0.12	0.86	5.37	1.72	5.48	2.23	2.76	1.80	22.19
1942	1.68	0.30	0.57	0.12	0.43	0.95	3.75	4.36	4.00	2.09	1.35	1.81	21.41
1943	1.67	0.70	0.43	0.68	0.46	0.97	2.66	2.92	4.49	1.89	0.72	0.34	17.92
1944	1.23	0.46	0.29	1.57	0.52	0.98	1.76	3.03	4.23	3.25	0.98	0.33	18.64
1945	0.72	1.82	0.61	0.63	0.58	1.92	0.87	2.58	3.85	1.51	2.69	2.33	20.10
1946	0.22	0.19	0.46	0.33	0.44	1.54	1.78	8.56	4.10	1.90	1.44	3.79	24.74
1947	2.31	0.22	0.54	0.66	0.35	0.72	1.84	1.97	7.97	1.73	1.29	0.53	20.14
1948	1.28	1.19	0.17	0.53	0.65	0.36	2.21	1.66	4.40	2.91	1.95	0.60	17.90
1949	0.95	1.19	0.40	1.99	0.17	0.51	1.83	3.16	2.73	1.79	1.27	0.97	16.96
1950	1.12	0.19	0.55	0.33	0.19	2.17	1.87	1.85	1.36	2.08	1.94	2.54	16.19
1951	0.48	0.42	0.18	0.20	0.22	0.69	0.89	1.99	4.37	2.60	2.55	2.13	16.72
1952	1.22	0.38	0.86	0.10	0.53	0.92	0.29	5.52	2.58	1.95	1.38	0.24	15.97
1953	0.19	0.51	0.17	1.02	1.46	0.84	2.76	1.96	3.16	1.48	2.24	0.47	16.28
1954	0.24	0.71	0.32	0.21	0.62	1.71	0.45	3.03	2.50	1.35	1.66	0.49	13.29
1955	1.74	0.48	0.31	0.45	0.91	1.04	1.57	2.56	2.76	2.51	2.20	2.59	19.15
1956	0.50	0.68	0.84	0.43	0.35	0.67	1.44	3.60	1.61	2.28	2.51	0.55	15.46
1957	0.48	1.65	0.44	0.42	0.19	0.97	2.12	5.85	3.93	2.31	1.52	0.95	20.83
1958	1.24	0.57	0.21	0.27	0.87	0.80	3.13	1.37	3.52	4.94	0.80	0.12	17.85
1959	0.40	0.62	0.43	0.48	0.68	0.86	1.44	2.78	3.62	1.48	0.36	2.47	15.63
1960	0.40	1.18	0.28	0.34	0.74	0.60	1.30	1.48	2.80	0.85	1.69	0.75	12.41
1961	0.12	0.63	0.86	0.08	0.39	0.80	1.47	1.79	1.49	2.73	0.67	1.67	12.71
1962	0.95	0.38	0.45	0.52	0.85	0.76	0.84	8.15	5.29	4.73	0.84	1.10	24.85
1963	1.64	0.31	0.30	0.79	0.99	1.40	3.97	2.18	5.79	2.74	1.08	2.43	23.61
1964	0.92	0.10	0.48	0.41	0.94	0.87	1.67	3.56	6.01	1.37	2.30	0.54	19.16
1965	0.39	0.53	1.03	0.80	0.43	0.70	1.53	7.54	4.34	2.58	1.71	1.99	23.57
1966	0.18	0.28	0.31	0.27	0.80	1.31	3.12	0.35	1.34	3.56	3.05	2.18	16.75
1967	1.43	0.67	0.71	0.51	0.69	0.77	3.00	3.08	6.36	1.40	1.05	2.00	21.68
1968	0.56	0.40	0.88	0.47	0.39	0.57	1.28	2.43	5.68	2.81	2.64	1.44	19.53
1969	0.29	0.66	0.78	0.39	0.84	0.61	2.19	2.24	3.23	4.24	0.66	0.58	16.71
1970	1.21	0.50	0.60	0.54	0.44	1.48	3.37	3.36	2.84	1.93	1.49	1.56	19.30
1971	1.19	1.08	0.60	1.07	0.98	1.27	3.83	4.73	2.63	1.09	0.76	2.83	22.06
1972	2.28	0.91	0.32	0.60	0.34	0.78	2.05	3.41	5.94	2.34	2.60	0.53	22.09
1973	1.08	0.30	0.53	0.18	0.38	2.76	3.57	2.20	1.93	2.80	1.77	2.27	19.76
1974	1.24	0.76	0.81	0.44	0.35	0.40	2.09	1.57	1.30	2.50	2.01	0.99	14.44
1975	1.74	0.39	0.36	1.10	0.58	1.65	2.37	2.29	4.72	1.10	0.69	0.13	17.11
1976	0.65	0.53	1.04	0.57	1.02	0.65	3.30	2.94	6.42	2.94	1.39	0.87	22.31

Table C1. Monthly and annual precipitation values, in inches, for the Black Hills study area—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1977	0.45	0.62	0.42	0.81	0.61	2.36	1.90	2.11	2.31	2.95	2.82	1.97	19.33
1978	1.49	1.00	0.72	0.37	0.96	0.32	2.64	5.45	1.68	3.78	2.14	0.44	20.97
1979	0.52	0.86	0.71	0.54	0.62	0.45	1.01	1.66	3.46	4.66	3.10	0.28	17.88
1980	0.88	0.38	0.20	0.40	0.46	1.16	1.47	2.49	2.61	1.69	2.39	0.66	14.80
1981	1.84	0.53	0.80	0.17	0.19	0.28	0.57	5.13	1.92	4.46	1.23	0.84	17.96
1982	1.80	0.26	0.61	0.67	0.57	1.79	1.30	7.11	3.83	2.68	2.43	2.44	25.48
1983	2.78	0.55	0.62	0.43	0.14	1.43	1.18	2.56	2.27	1.67	2.88	0.52	17.01
1984	1.92	1.29	0.75	0.27	0.27	0.90	3.75	1.88	4.57	2.72	1.68	0.75	20.74
1985	0.74	0.87	0.48	0.37	0.21	1.14	1.12	1.22	1.58	1.70	1.09	1.98	12.50
1986	0.75	1.71	0.92	0.47	1.03	0.76	3.91	1.74	4.87	1.91	1.25	4.36	23.68
1987	2.13	1.17	0.10	0.21	1.60	1.75	0.34	4.09	0.86	1.33	2.23	0.85	16.66
1988	0.52	0.53	0.52	0.38	0.43	1.24	0.78	3.18	2.24	1.14	2.01	1.07	14.04
1989	0.62	0.91	0.42	0.11	0.54	1.16	2.30	1.93	1.76	1.93	1.72	3.23	16.61
1990	1.46	0.81	1.04	0.23	0.61	1.29	2.09	3.95	1.38	3.25	1.22	1.18	18.50
1991	0.82	0.68	0.65	0.46	1.03	0.83	3.20	5.69	3.70	1.58	1.27	0.75	20.66
1992	1.16	1.18	0.09	0.29	0.47	1.84	1.47	2.79	3.22	3.37	1.32	0.52	17.72
1993	0.63	0.86	1.05	0.80	0.97	1.06	2.62	3.54	5.80	3.87	2.14	1.34	24.68
1994	1.42	0.82	1.00	0.96	0.75	0.77	2.03	1.57	1.48	1.81	1.21	0.64	14.45
1995	4.62	0.83	0.56	0.33	0.73	1.04	2.21	6.89	4.64	2.82	1.03	1.70	27.39
1996	2.79	0.82	0.27	1.19	0.26	1.60	2.37	5.80	1.83	1.62	3.05	2.10	23.69
1997	3.56	0.65	1.36	0.79	0.86	0.60	2.94	4.08	2.76	5.27	1.99	1.27	26.12
1998	1.05	0.44	0.47	0.56	1.24	1.88	0.78	2.78	5.84	3.22	3.28	2.17	23.71
Average	1.16	0.66	0.54	0.52	0.59	1.09	2.08	3.21	3.35	2.37	1.74	1.31	18.61
Maximum	4.62	1.82	1.36	1.99	1.60	2.76	5.37	8.56	7.97	5.27	3.65	4.36	27.39
Minimum	0.12	0.02	0.09	0.08	0.12	0.28	0.29	0.35	0.86	0.78	0.36	0.12	10.22

Table C2. Monthly and annual precipitation values, in inches, for Butte County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	1.52	0.52	0.37	0.27	0.30	0.99	0.60	1.41	0.84	1.21	0.53	0.51	9.07
1932	1.32	0.65	0.40	0.59	0.13	0.73	4.35	3.75	3.82	1.51	1.50	0.63	19.36
1933	1.57	0.12	0.23	0.16	0.21	1.51	3.98	5.41	1.21	1.04	1.49	0.93	17.86
1934	0.27	0.18	0.22	0.46	0.11	1.06	1.48	0.15	3.44	0.85	0.63	1.34	10.19
1935	1.02	0.53	0.45	0.08	0.43	1.14	1.02	3.85	2.62	0.80	0.86	0.26	13.06
1936	0.28	0.30	0.54	0.79	0.51	0.39	2.10	0.42	0.59	1.34	1.26	0.55	9.06
1937	0.85	0.52	0.09	0.35	0.22	1.03	0.64	2.17	4.03	6.02	0.80	2.33	19.04
1938	0.11	0.29	0.58	0.16	0.10	0.55	1.33	3.38	1.75	1.42	0.86	1.13	11.65
1939	0.10	0.52	0.28	0.15	0.50	0.21	0.72	0.76	3.04	1.57	1.96	0.77	10.57
1940	0.82	0.07	0.22	0.24	0.32	1.37	3.05	1.02	3.82	1.57	1.13	1.31	14.94
1941	0.42	0.81	0.33	0.11	0.06	0.47	5.64	2.02	7.90	0.92	2.87	3.06	24.62
1942	0.71	0.25	0.50	0.07	0.23	0.32	3.68	4.99	4.89	1.15	0.94	1.44	19.17
1943	0.70	1.04	0.21	0.63	0.24	0.74	0.62	1.03	4.57	2.24	0.62	0.28	12.92
1944	1.13	0.48	0.34	1.39	0.41	1.09	1.71	2.05	6.36	1.52	1.54	0.39	18.39
1945	0.64	2.47	0.49	0.54	0.63	1.10	0.65	2.92	3.59	0.56	0.77	2.82	17.19
1946	0.36	0.36	0.15	0.26	0.17	1.52	2.46	8.51	4.78	1.41	0.83	4.04	24.86
1947	2.91	0.14	0.59	0.30	0.40	0.71	1.68	0.62	7.12	0.48	0.63	0.90	16.49
1948	1.44	0.92	0.09	0.34	0.61	0.20	2.72	1.29	4.17	2.99	1.25	0.56	16.56
1949	0.30	1.61	0.16	1.18	0.20	0.74	1.75	1.67	1.67	1.43	0.59	0.98	12.29
1950	1.72	0.14	0.41	0.31	0.29	2.00	1.72	2.03	1.24	1.13	1.70	2.00	14.68
1951	0.62	0.63	0.10	0.09	0.29	0.73	0.98	1.65	3.76	1.73	2.68	1.80	15.06
1952	2.09	0.27	0.44	0.19	0.52	0.55	0.14	2.88	1.33	2.96	0.90	0.14	12.42
1953	0.02	0.12	0.09	0.71	0.87	0.28	2.64	2.69	3.73	1.25	2.62	0.31	15.33
1954	0.27	0.79	0.10	0.29	0.28	1.93	0.44	3.10	3.08	0.48	0.82	0.25	11.83
1955	1.15	0.37	0.19	0.09	0.57	0.45	1.69	2.36	1.33	2.60	1.38	2.07	14.25
1956	0.82	0.34	0.78	0.27	0.11	0.19	0.89	2.36	2.04	1.72	1.39	1.31	12.21
1957	0.73	1.30	0.17	0.24	0.14	0.37	0.99	3.28	3.95	2.05	2.09	1.28	16.58
1958	1.00	0.72	0.02	0.27	0.78	0.29	2.62	0.78	4.29	2.98	0.94	0.16	14.86
1959	0.31	0.51	0.43	0.31	0.47	0.21	1.01	2.33	2.28	0.94	0.12	1.88	10.80
1960	0.63	0.83	0.19	0.19	0.38	0.49	0.49	1.53	1.89	0.27	3.08	0.77	10.72
1961	0.09	0.22	0.51	0.13	0.18	0.23	1.48	0.95	1.77	2.17	0.53	1.92	10.16
1962	1.07	0.41	0.38	0.40	0.37	0.47	1.08	8.59	4.83	3.47	0.93	0.79	22.80
1963	1.93	0.41	0.13	0.52	0.87	0.65	3.46	1.30	4.90	2.34	0.96	2.20	19.66
1964	1.09	0.14	0.36	0.24	0.41	0.42	1.17	3.04	6.34	1.25	2.08	0.14	16.65
1965	0.25	0.57	0.33	0.53	0.11	0.30	1.26	6.54	3.91	1.63	1.35	1.63	18.41
1966	0.01	0.30	0.36	0.14	0.55	1.62	2.20	0.71	2.03	2.29	2.23	2.14	14.58
1967	1.57	0.73	0.52	0.49	0.61	0.42	3.27	1.89	3.87	1.03	0.60	2.75	17.74
1968	0.59	0.39	0.43	0.39	0.41	0.62	0.79	1.65	4.78	2.59	1.29	1.67	15.60
1969	0.17	0.68	0.97	0.15	0.42	0.62	2.78	2.78	3.78	1.63	0.29	0.12	14.38
1970	0.75	0.34	0.53	0.33	0.49	1.19	3.26	5.28	1.89	1.59	1.34	1.38	18.39
1971	0.64	1.66	0.61	1.13	0.79	0.66	2.58	3.66	2.53	0.25	0.61	2.79	17.90
1972	3.81	0.93	0.28	0.44	0.25	0.88	1.84	3.57	5.36	1.67	3.10	0.31	22.45
1973	1.24	0.11	0.80	0.25	0.33	1.89	2.67	2.96	1.53	1.34	3.52	1.65	18.29
1974	1.74	0.57	0.65	0.14	0.46	0.52	3.01	1.96	1.72	1.65	1.58	0.60	14.61
1975	0.99	0.34	0.31	1.25	0.45	1.56	2.20	2.60	4.07	0.82	0.44	0.11	15.13
1976	0.60	0.49	0.89	0.78	0.93	0.61	2.38	2.11	8.12	2.16	0.87	0.55	20.48

Table C2. Monthly and annual precipitation values, in inches, for Butte County (within the Black Hills study area)—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1977	0.56	0.44	0.30	0.62	0.69	2.87	0.88	1.82	1.68	1.77	2.92	1.62	16.18
1978	3.10	0.97	0.73	0.26	0.96	0.18	2.65	4.48	1.52	2.96	1.22	0.30	19.34
1979	0.35	1.15	0.37	0.49	0.98	0.50	1.08	1.48	3.19	3.47	2.03	0.30	15.39
1980	0.73	0.15	0.14	0.38	0.45	0.77	1.03	1.75	3.21	0.81	2.30	1.22	12.92
1981	1.70	0.45	0.98	0.31	0.22	0.14	0.18	3.30	3.80	4.18	1.19	1.87	18.32
1982	1.64	0.32	0.36	0.80	0.38	2.48	1.33	10.33	2.94	1.65	1.75	2.02	26.01
1983	4.38	0.21	0.88	0.35	0.16	2.04	1.50	1.87	0.57	1.77	3.21	0.94	17.89
1984	1.60	0.95	1.02	0.24	0.17	0.92	3.58	1.18	5.89	1.14	2.25	0.90	19.83
1985	0.64	1.13	0.90	0.18	0.07	1.38	0.65	1.49	2.02	0.92	0.74	1.49	11.63
1986	0.62	1.71	1.54	0.94	0.92	0.81	4.74	2.42	3.84	2.33	0.63	5.35	25.85
1987	1.76	1.34	0.12	0.16	1.61	1.97	0.39	4.22	0.58	2.02	3.77	1.03	18.96
1988	0.20	0.26	0.37	0.46	0.37	1.86	0.81	2.97	2.11	0.42	0.76	1.66	12.24
1989	0.61	0.79	0.22	0.13	0.32	1.64	3.52	1.54	1.93	1.91	0.46	1.95	15.02
1990	2.65	1.19	1.22	0.14	0.45	0.50	2.16	2.76	1.10	3.05	0.26	0.75	16.24
1991	1.05	0.33	0.63	0.39	1.01	0.88	2.97	4.25	2.12	0.53	0.67	0.28	15.12
1992	0.92	1.32	0.07	0.14	0.32	1.09	1.58	1.93	2.67	2.92	0.98	0.49	14.43
1993	0.63	1.00	1.14	0.81	0.70	1.94	2.63	3.69	5.48	4.56	0.90	1.25	24.71
1994	0.30	0.62	1.23	1.23	0.68	0.65	2.21	0.97	1.54	2.98	0.86	0.63	13.91
1995	5.48	0.95	0.17	0.17	0.54	0.86	2.35	7.35	4.49	2.55	1.06	1.29	27.26
1996	3.34	0.86	0.30	1.64	0.25	1.86	2.05	5.80	1.14	1.12	1.29	2.05	21.71
1997	3.29	0.86	1.81	0.99	0.68	0.54	2.84	3.47	2.16	3.22	0.74	0.83	21.44
1998	0.81	0.43	0.46	0.64	1.38	1.39	0.67	1.25	6.36	2.52	2.46	1.72	20.10
Average	1.16	0.64	0.47	0.44	0.46	0.93	1.93	2.83	3.25	1.84	1.37	1.28	16.58
Maximum	5.48	2.47	1.81	1.64	1.61	2.87	5.64	10.33	8.12	6.02	3.77	5.35	27.26
Minimum	0.01	0.07	0.02	0.07	0.06	0.14	0.14	0.15	0.57	0.25	0.12	0.11	9.06

Table C3. Monthly and annual precipitation values, in inches, for Lawrence County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	1.88	0.67	0.90	0.74	0.49	1.88	1.38	1.55	1.10	1.37	1.40	0.38	13.74
1932	1.40	1.00	0.46	1.44	0.22	1.20	5.79	4.57	3.33	3.06	1.69	0.52	24.69
1933	2.47	0.51	0.79	0.81	0.76	2.27	4.11	5.67	1.74	1.16	1.96	0.72	22.96
1934	0.35	0.47	0.56	0.97	0.38	1.19	1.31	0.39	4.41	0.64	1.14	1.50	13.32
1935	1.14	0.72	0.66	0.13	0.69	1.59	1.80	3.95	3.29	2.80	0.92	0.56	18.26
1936	0.40	0.65	0.86	0.86	0.56	1.10	2.05	0.52	1.29	1.41	0.89	0.67	11.26
1937	0.99	0.66	0.22	0.43	0.51	1.07	0.52	2.74	4.40	5.25	1.02	1.64	19.44
1938	0.27	0.72	1.21	1.51	0.41	0.81	2.38	4.47	2.35	1.82	0.64	1.52	18.11
1939	0.15	0.95	0.93	1.09	0.97	0.69	2.63	1.48	2.95	1.40	3.16	0.93	17.34
1940	1.19	0.06	0.66	0.44	0.90	1.68	3.94	1.54	3.22	1.27	1.75	1.90	18.54
1941	0.83	0.74	0.54	0.19	0.18	1.15	5.86	2.58	8.26	2.16	1.76	2.79	27.02
1942	1.69	0.56	0.84	0.29	0.53	1.11	3.78	5.91	4.34	1.43	1.67	2.14	24.28
1943	2.02	1.45	0.93	1.15	0.90	1.26	2.31	2.11	4.85	1.56	0.98	0.50	20.02
1944	1.50	1.49	0.62	2.50	0.67	1.72	1.94	2.73	5.51	2.07	1.01	0.55	22.31
1945	0.95	3.76	1.08	1.11	0.93	2.42	1.47	3.77	5.06	1.45	2.58	3.85	28.43
1946	0.58	0.43	0.84	0.79	0.92	2.56	2.94	12.64	5.60	1.76	1.06	5.03	35.15
1947	3.46	0.37	0.96	1.04	1.02	1.40	2.48	1.08	8.65	1.54	0.83	0.74	23.57
1948	1.82	1.63	0.20	1.39	1.02	0.47	2.89	1.66	5.44	3.76	1.61	0.92	22.80
1949	0.78	3.16	0.37	3.35	0.42	0.78	2.41	2.89	2.52	1.21	0.79	0.97	19.66
1950	1.55	0.60	1.07	0.50	0.36	4.00	2.38	2.30	1.72	2.50	2.25	3.26	22.48
1951	0.69	1.09	0.32	0.35	0.33	1.09	1.24	2.36	4.66	2.51	3.61	2.45	20.70
1952	1.82	1.11	2.25	0.25	0.64	1.31	0.48	7.45	1.58	2.94	1.31	0.33	21.50
1953	0.17	0.74	0.38	1.66	2.07	0.85	3.59	3.81	4.03	1.60	3.01	0.41	22.31
1954	0.32	1.17	0.86	0.35	1.15	2.85	0.74	4.16	2.82	1.49	2.02	0.55	18.48
1955	1.64	0.75	0.81	1.07	1.00	1.13	3.65	3.17	4.03	2.48	1.71	2.55	23.98
1956	1.18	0.97	1.20	0.53	0.36	1.19	1.66	4.16	2.05	2.54	2.85	1.06	19.75
1957	0.78	3.31	0.55	0.56	0.25	1.34	2.03	5.35	4.21	3.48	2.20	1.12	25.18
1958	1.00	1.24	0.37	0.53	1.39	0.49	4.01	1.54	3.60	5.77	1.46	0.20	21.59
1959	1.08	1.25	0.76	0.85	1.29	1.12	1.53	2.86	3.20	0.88	0.21	1.85	16.89
1960	0.75	2.37	0.81	0.50	1.20	1.45	1.81	1.46	3.97	0.95	2.93	1.02	19.21
1961	0.46	0.75	1.70	0.17	0.77	0.53	2.38	1.01	1.74	2.35	0.67	2.61	15.15
1962	1.14	0.74	1.07	1.13	0.81	0.92	1.95	10.74	6.48	4.26	1.11	1.93	32.28
1963	1.95	0.70	0.75	1.48	2.71	1.75	4.92	2.58	6.26	2.50	0.58	2.08	28.25
1964	1.05	0.18	1.01	0.84	2.21	1.32	2.18	4.82	8.89	0.82	5.75	0.59	29.67
1965	0.42	1.15	1.23	1.57	1.03	1.06	2.34	10.63	4.53	1.80	2.07	2.63	30.47
1966	0.01	0.43	0.40	0.39	0.99	3.18	3.77	0.70	1.45	2.56	3.10	2.84	19.81
1967	2.33	0.77	0.81	0.99	1.72	0.76	3.98	2.78	5.42	1.35	0.79	3.99	25.69
1968	1.14	0.71	1.51	0.59	0.81	0.71	1.76	2.63	5.83	3.33	2.63	2.57	24.23
1969	0.57	1.40	1.39	0.73	0.69	1.25	4.30	2.80	3.76	2.68	0.78	0.34	20.68
1970	1.52	1.07	1.69	1.23	0.83	2.27	4.55	5.37	3.86	2.13	2.22	1.50	28.25
1971	1.72	2.41	0.92	1.70	1.66	2.20	3.54	5.67	2.85	0.70	1.29	3.84	28.49
1972	3.53	1.37	0.47	0.89	0.62	1.36	2.97	5.53	6.34	2.67	3.64	0.39	29.79
1973	1.30	0.44	1.07	0.29	0.52	4.43	4.74	3.57	2.93	2.05	1.51	2.05	24.92
1974	1.61	0.75	1.45	0.45	0.86	0.84	3.27	2.09	1.66	3.11	3.26	0.94	20.30
1975	1.34	0.91	1.10	1.83	0.91	2.29	3.48	2.47	4.83	1.23	0.69	0.25	21.34

Table C3. Monthly and annual precipitation values, in inches, for Lawrence County (within the Black Hills study area)–Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1976	1.09	0.92	1.52	1.06	1.40	1.09	3.73	3.31	10.56	2.48	0.91	1.49	29.55
1977	0.76	1.25	1.02	1.55	1.67	4.52	2.09	1.91	2.37	1.97	2.90	1.86	23.87
1978	2.44	1.41	1.07	0.41	1.34	0.47	4.42	5.72	2.09	4.46	2.04	0.42	26.30
1979	0.82	1.40	1.18	0.76	1.07	0.82	1.44	2.09	3.83	4.13	3.70	0.48	21.72
1980	1.41	0.77	0.46	0.67	0.48	1.21	2.03	3.05	2.49	1.18	2.64	0.98	17.38
1981	1.95	0.88	1.25	0.35	0.28	0.18	0.47	5.37	3.06	4.77	1.15	1.66	21.38
1982	1.61	0.73	0.61	1.03	0.93	2.79	2.22	10.96	3.25	3.08	2.24	2.29	31.72
1983	5.24	0.50	1.00	0.88	0.22	1.77	2.18	2.90	1.35	1.78	3.52	0.62	21.96
1984	2.05	1.79	0.99	0.59	0.58	1.58	5.19	1.72	5.99	1.80	2.30	0.90	25.47
1985	0.89	1.40	0.81	0.61	0.42	1.75	1.19	1.73	2.27	0.95	1.08	2.04	15.13
1986	0.82	1.68	2.06	1.19	1.39	0.95	5.00	2.10	4.49	2.49	0.78	4.66	27.62
1987	2.49	1.66	0.18	0.63	1.46	2.59	0.61	3.89	0.83	1.31	3.37	1.10	20.13
1988	0.63	0.71	0.72	0.90	1.05	3.05	0.85	4.14	2.54	0.71	1.53	2.24	19.06
1989	1.18	1.22	0.71	0.26	0.77	1.60	4.01	2.54	2.49	1.97	1.56	2.09	20.40
1990	1.89	1.81	2.18	0.62	0.78	1.49	2.53	2.86	1.13	3.00	1.25	0.89	20.45
1991	1.02	0.78	1.08	1.04	1.79	1.27	3.43	6.01	3.16	1.97	1.11	0.79	23.47
1992	1.45	1.75	0.19	0.63	0.83	2.02	2.93	2.68	3.43	2.44	1.47	0.84	20.65
1993	0.93	1.85	1.43	0.99	0.87	1.32	3.30	4.23	6.71	3.73	1.73	1.45	28.54
1994	1.53	1.54	2.28	2.20	0.96	1.43	3.17	1.43	1.21	2.58	0.97	0.85	20.16
1995	7.29	1.65	0.41	0.46	0.89	1.63	2.93	9.35	4.53	3.62	0.94	1.55	35.22
1996	4.71	1.34	0.49	2.07	0.59	2.84	2.43	5.59	1.94	2.11	2.40	2.51	29.00
1997	4.90	0.99	2.31	1.37	1.56	1.36	3.43	3.92	2.60	5.57	2.58	1.03	31.62
1998	1.32	1.33	1.18	0.73	2.15	1.76	1.22	2.30	6.97	3.78	3.70	2.27	28.70
Average	1.52	1.14	0.95	0.92	0.93	1.58	2.74	3.74	3.83	2.35	1.86	1.56	23.11
Maximum	7.29	3.76	2.31	3.35	2.71	4.52	5.86	12.64	10.56	5.77	5.75	5.03	35.22
Minimum	0.01	0.06	0.18	0.13	0.18	0.18	0.47	0.39	0.83	0.64	0.21	0.20	11.26

Table C4. Monthly and annual precipitation values, in inches, for Meade County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	2.63	0.69	0.46	0.33	0.26	1.39	0.64	1.28	1.26	1.44	1.22	0.32	11.92
1932	1.05	0.68	0.55	0.80	0.18	0.73	4.35	4.62	3.34	2.44	2.74	0.43	21.90
1933	1.91	0.20	0.45	0.33	0.44	1.61	3.43	6.63	1.27	1.78	2.52	0.37	20.94
1934	0.25	0.25	0.39	0.54	0.33	1.00	1.30	0.38	3.96	0.71	0.86	0.83	10.79
1935	1.77	0.53	0.53	0.13	0.62	1.36	1.96	5.19	2.43	1.87	0.55	0.27	17.20
1936	0.40	0.42	0.50	0.78	0.55	0.88	1.77	0.25	1.09	0.83	0.85	0.56	8.88
1937	0.86	0.66	0.09	0.38	0.31	1.35	0.55	2.73	3.68	5.38	0.72	1.35	18.07
1938	0.18	0.40	0.91	0.78	0.22	0.72	2.60	3.61	2.61	1.68	0.53	1.40	15.64
1939	0.21	0.75	0.43	0.62	0.59	0.63	1.50	1.10	2.61	1.46	2.03	0.82	12.75
1940	1.20	0.04	0.40	0.27	0.48	1.31	3.22	0.95	2.61	1.30	1.54	1.31	14.63
1941	0.77	0.49	0.40	0.12	0.10	0.70	5.84	1.89	6.97	1.66	2.23	1.86	23.02
1942	1.58	0.28	0.60	0.20	0.44	0.75	3.89	5.05	4.09	1.60	0.93	1.80	21.22
1943	1.68	0.95	0.60	0.94	0.52	1.01	1.53	1.92	4.92	1.96	0.48	0.38	16.89
1944	1.34	0.71	0.38	1.93	0.58	1.30	1.71	2.67	5.54	3.11	0.72	0.45	20.44
1945	1.03	2.94	0.66	0.82	0.64	2.43	1.01	3.16	4.54	1.18	2.72	2.76	23.88
1946	0.37	0.21	0.39	0.41	0.54	2.04	2.48	10.41	5.21	2.22	0.97	4.48	29.74
1947	2.83	0.28	0.55	0.74	0.64	0.90	1.91	1.02	7.53	0.96	0.69	0.56	18.62
1948	1.52	1.17	0.14	0.83	0.75	0.23	2.46	1.59	4.82	3.23	2.29	0.54	19.57
1949	1.09	1.70	0.43	2.77	0.37	0.75	2.20	2.71	2.89	1.79	1.07	0.78	18.55
1950	1.56	0.23	0.49	0.36	0.22	2.45	2.33	2.11	1.35	1.74	2.15	2.90	17.90
1951	0.49	0.55	0.20	0.14	0.21	0.78	0.69	2.76	4.09	2.08	4.38	1.90	18.26
1952	1.60	0.37	0.96	0.16	0.56	0.70	0.28	5.27	2.24	2.45	1.19	0.26	16.04
1953	0.08	0.28	0.10	0.93	1.91	0.75	3.12	2.55	4.48	1.70	2.48	0.20	18.57
1954	0.19	0.89	0.27	0.23	0.61	2.35	0.40	3.05	3.16	0.98	1.81	0.32	14.26
1955	1.37	0.58	0.33	0.37	0.83	0.74	1.88	2.01	2.47	2.86	1.83	2.80	18.08
1956	0.53	0.47	1.00	0.49	0.27	0.63	1.41	3.34	1.32	2.62	2.69	0.90	15.67
1957	0.60	2.02	0.36	0.38	0.21	0.65	2.13	6.54	3.96	2.60	1.62	0.82	21.89
1958	1.04	0.59	0.09	0.33	0.93	0.63	3.95	1.30	3.57	4.05	0.98	0.11	17.58
1959	0.52	0.73	0.48	0.50	0.74	0.67	2.02	2.72	2.33	1.14	0.37	2.36	14.58
1960	0.51	1.42	0.25	0.29	0.82	0.71	1.33	1.49	2.93	0.78	2.14	0.90	13.58
1961	0.12	0.36	1.06	0.14	0.41	0.55	1.74	1.26	1.59	2.30	0.85	1.64	12.01
1962	1.39	0.44	0.52	0.57	0.63	0.96	1.21	10.20	6.46	5.18	1.05	1.08	29.69
1963	1.69	0.35	0.29	0.89	1.43	1.37	4.49	1.66	5.23	2.24	0.92	2.25	22.81
1964	0.85	0.10	0.51	0.43	1.02	0.73	1.40	3.62	7.02	1.24	2.90	0.59	20.41
1965	0.36	0.68	0.80	0.77	0.33	0.47	1.61	7.78	4.77	1.32	2.10	1.68	22.66
1966	0.16	0.24	0.31	0.23	0.82	2.40	3.09	0.59	1.27	3.78	3.13	2.56	18.58
1967	1.84	0.77	0.78	0.57	0.95	0.72	3.97	3.35	5.87	1.74	0.83	2.47	23.86
1968	0.48	0.40	0.87	0.47	0.52	0.38	1.47	1.86	6.25	2.64	2.26	1.47	19.07
1969	0.20	0.78	0.81	0.31	0.74	0.81	3.06	2.38	3.02	3.36	0.37	0.26	16.09
1970	1.06	0.56	0.78	0.73	0.59	1.65	4.47	3.91	2.57	1.49	1.13	1.43	20.38
1971	1.11	1.54	0.69	1.26	1.04	1.29	4.20	5.45	2.71	0.71	0.79	3.00	23.77
1972	2.94	1.11	0.23	0.55	0.44	0.70	2.53	3.61	7.07	2.18	2.20	0.30	23.87
1973	0.98	0.28	0.61	0.17	0.43	3.43	3.89	3.02	1.57	2.22	1.60	1.56	19.78
1974	1.46	0.69	0.84	0.23	0.51	0.53	2.46	1.85	1.66	1.99	1.77	0.96	14.93
1975	1.43	0.42	0.34	1.40	0.57	1.92	2.61	2.31	4.86	1.63	0.87	0.07	18.43

Table C4. Monthly and annual precipitation values, in inches, for Meade County (within the Black Hills study area)—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1976	0.69	0.69	1.11	0.53	1.01	0.61	3.52	2.98	8.58	2.06	1.34	0.69	23.82
1977	0.47	0.70	0.54	0.84	0.79	3.22	1.54	2.12	1.74	1.94	2.28	2.12	18.30
1978	2.31	0.96	0.55	0.31	1.05	0.30	3.34	4.84	1.63	4.06	2.03	0.36	21.74
1979	0.43	1.21	0.60	0.52	0.65	0.47	1.02	1.62	4.94	4.04	2.51	0.28	18.28
1980	0.88	0.30	0.18	0.36	0.52	1.03	1.74	2.06	2.61	1.41	2.26	0.43	13.78
1981	2.40	0.57	0.82	0.23	0.14	0.08	0.32	6.01	2.34	5.32	0.84	1.45	20.50
1982	1.65	0.37	0.39	0.54	0.52	2.07	1.22	8.36	2.70	3.00	3.00	2.48	26.30
1983	4.34	0.29	0.61	0.43	0.15	1.53	1.55	2.56	1.68	1.81	2.34	0.37	17.68
1984	1.47	1.12	0.70	0.19	0.15	0.78	5.19	1.59	6.10	2.15	2.35	0.85	22.64
1985	0.57	1.11	0.50	0.37	0.09	1.36	0.66	1.36	1.84	1.18	2.29	1.48	12.80
1986	0.69	1.94	1.43	0.64	0.99	0.81	4.41	2.05	4.59	2.64	1.20	5.14	26.53
1987	2.16	1.36	0.10	0.17	1.40	1.73	0.30	4.07	0.78	1.27	3.11	0.78	17.22
1988	0.39	0.43	0.27	0.41	0.41	2.22	0.65	3.66	2.27	0.49	1.93	0.93	14.06
1989	0.95	0.90	0.37	0.12	0.39	1.43	2.93	2.23	1.70	1.83	1.46	2.42	16.74
1990	1.95	1.03	1.47	0.27	0.50	1.08	1.94	3.05	1.19	2.77	1.68	0.73	17.65
1991	0.59	0.62	0.47	0.45	1.17	1.13	3.79	6.80	3.86	1.71	0.97	0.87	22.44
1992	1.21	1.23	0.10	0.21	0.37	1.95	1.92	2.36	3.02	2.93	1.10	0.56	16.97
1993	0.66	1.04	0.93	0.80	0.70	0.98	3.10	4.56	5.38	3.85	1.78	1.61	25.38
1994	1.19	0.79	1.07	1.07	0.71	0.75	2.32	1.52	1.07	1.89	0.88	0.65	13.90
1995	5.29	0.87	0.29	0.16	0.62	0.95	2.28	8.12	4.61	4.10	0.67	1.14	29.09
1996	3.14	0.93	0.18	1.30	0.23	1.75	2.07	7.84	2.02	1.34	1.84	2.11	24.75
1997	5.16	0.59	1.42	0.86	0.73	0.66	2.88	5.09	2.92	4.60	2.45	0.83	28.20
1998	0.80	0.60	0.40	0.44	1.19	1.82	0.81	1.47	6.48	2.95	2.55	2.41	21.93
Average	1.27	0.73	0.55	0.56	0.60	1.16	2.29	3.37	3.52	2.25	1.66	1.28	19.24
Maxi- mum	5.29	2.94	1.47	2.77	1.91	3.43	5.84	10.41	8.58	5.38	4.38	5.14	29.74
Mini- mum	0.08	0.04	0.09	0.12	0.09	0.08	0.28	0.25	0.78	0.49	0.37	0.07	8.88

Table C5. Monthly and annual precipitation values, in inches, for Pennington County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	2.65	0.64	0.35	0.40	0.31	1.18	0.85	1.41	1.76	1.35	1.56	0.29	12.76
1932	1.08	0.74	0.48	0.96	0.22	0.73	4.52	4.14	2.92	2.97	3.11	0.53	22.42
1933	1.90	0.25	0.46	0.55	0.58	1.20	3.34	5.65	1.62	2.14	3.06	0.46	21.21
1934	0.15	0.28	0.32	0.41	0.37	0.86	0.98	0.44	3.91	0.75	1.33	0.87	10.67
1935	1.63	0.42	0.58	0.18	0.56	1.06	1.91	5.37	2.74	2.05	0.63	0.63	17.76
1936	0.32	0.45	0.33	0.59	0.58	0.89	1.35	0.30	2.25	0.84	1.41	0.47	9.78
1937	0.76	0.78	0.15	0.40	0.35	1.20	0.45	2.38	3.14	3.38	0.79	0.89	14.68
1938	0.22	0.32	0.91	0.74	0.27	0.94	2.47	4.03	2.34	1.94	0.65	1.10	15.93
1939	0.31	0.71	0.42	0.61	0.42	0.92	1.22	1.64	2.43	1.77	3.29	0.98	14.71
1940	1.18	0.01	0.39	0.32	0.35	0.98	2.78	0.69	2.01	1.20	1.50	1.58	13.00
1941	1.11	0.30	0.38	0.11	0.11	0.82	5.21	1.82	5.03	2.50	2.53	1.53	21.45
1942	2.20	0.22	0.45	0.10	0.40	0.99	3.65	3.75	3.58	1.85	1.44	1.84	20.47
1943	1.76	0.61	0.47	0.77	0.50	0.98	2.76	2.75	4.48	2.15	0.79	0.26	18.29
1944	1.14	0.45	0.14	1.59	0.41	0.97	1.34	3.04	4.03	3.33	0.42	0.38	17.24
1945	0.83	1.51	0.38	0.66	0.46	1.99	0.93	2.78	3.55	1.49	3.84	2.06	20.49
1946	0.11	0.13	0.43	0.24	0.39	1.54	1.85	7.71	4.23	2.54	1.62	3.77	24.56
1947	2.72	0.22	0.46	0.84	0.31	0.77	1.90	1.79	7.03	1.28	1.36	0.48	19.17
1948	1.28	1.10	0.14	0.63	0.48	0.24	2.03	1.65	4.75	3.08	2.19	0.72	18.29
1949	0.94	0.84	0.39	1.89	0.14	0.48	1.79	3.16	3.63	2.13	1.62	0.99	18.00
1950	1.14	0.22	0.51	0.32	0.24	2.40	1.86	2.00	1.43	2.71	2.05	2.54	17.41
1951	0.46	0.40	0.15	0.18	0.22	0.73	0.97	2.11	4.06	2.40	2.90	2.35	16.93
1952	1.09	0.39	0.82	0.08	0.50	0.86	0.41	6.94	2.63	1.88	1.43	0.30	17.34
1953	0.27	0.37	0.13	0.94	1.44	1.10	2.87	1.77	3.55	1.57	2.39	0.30	16.71
1954	0.23	0.68	0.40	0.17	0.54	1.59	0.24	2.62	2.27	1.57	2.44	0.35	13.10
1955	1.85	0.63	0.23	0.47	0.85	1.00	1.45	2.13	3.24	2.96	2.43	2.33	19.58
1956	0.34	0.73	0.82	0.51	0.41	0.84	1.61	3.59	1.31	2.54	3.03	0.28	16.02
1957	0.35	1.76	0.42	0.39	0.23	0.75	2.37	6.32	4.07	2.72	1.76	0.77	21.90
1958	1.01	0.53	0.34	0.39	0.66	0.88	3.16	1.48	3.89	4.15	1.07	0.18	17.74
1959	0.42	0.77	0.44	0.47	0.87	1.15	1.88	3.05	4.03	1.64	0.46	2.42	17.59
1960	0.36	1.28	0.20	0.28	0.83	0.57	1.71	1.74	3.03	1.13	1.74	0.99	13.86
1961	0.04	0.57	0.76	0.08	0.38	0.85	1.51	1.60	1.30	3.01	0.82	1.57	12.48
1962	1.02	0.33	0.43	0.58	0.99	0.75	0.84	8.75	5.86	5.00	1.10	1.24	26.89
1963	1.29	0.23	0.27	0.76	0.99	1.41	4.80	2.26	6.27	2.77	1.12	2.48	24.64
1964	0.86	0.16	0.50	0.49	1.07	0.74	1.54	3.72	6.31	1.67	2.47	0.96	20.48
1965	0.24	0.38	1.43	0.92	0.28	0.56	1.55	8.42	4.80	3.47	2.02	1.78	25.87
1966	0.20	0.32	0.28	0.24	0.85	1.17	3.08	0.21	1.43	4.37	3.38	2.29	17.82
1967	1.18	0.65	0.82	0.44	0.77	0.69	3.07	3.30	6.73	1.64	1.56	2.08	22.91
1968	0.51	0.40	0.83	0.54	0.37	0.30	1.30	2.27	5.84	2.38	2.98	1.30	19.02
1969	0.19	0.66	0.65	0.36	1.02	0.66	2.26	2.42	3.74	5.47	0.81	0.83	19.06
1970	1.16	0.60	0.47	0.70	0.44	1.64	3.53	3.48	3.12	1.84	1.71	1.42	20.10
1971	1.20	0.83	0.65	1.11	0.92	1.44	4.78	4.33	2.81	1.46	1.08	2.52	23.11
1972	2.10	0.92	0.27	0.51	0.41	0.70	2.12	3.31	7.22	2.90	2.98	0.59	24.03
1973	0.82	0.38	0.45	0.12	0.29	2.79	3.51	1.95	2.66	3.12	1.40	2.22	19.71
1974	0.78	0.76	0.77	0.45	0.34	0.31	1.31	1.66	1.09	3.19	2.35	0.95	13.98
1975	1.84	0.34	0.40	1.03	0.47	1.72	2.64	2.13	5.21	1.15	0.91	0.11	17.95

Table C5. Monthly and annual precipitation values, in inches, for Pennington County (within the Black Hills study area)—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1976	0.61	0.53	1.10	0.39	1.01	0.45	3.37	3.55	6.45	2.67	1.61	0.86	22.60
1977	0.29	0.83	0.41	1.05	0.71	2.17	1.89	2.01	2.60	3.13	2.73	2.11	19.92
1978	1.11	0.87	0.72	0.33	1.02	0.39	2.83	6.24	1.88	4.01	1.78	0.53	21.68
1979	0.62	0.81	0.80	0.56	0.60	0.42	1.01	1.64	4.34	6.35	2.96	0.27	20.38
1980	0.74	0.49	0.30	0.36	0.45	0.97	1.40	2.73	2.67	1.97	2.67	0.74	15.50
1981	1.97	0.47	0.63	0.10	0.14	0.22	0.56	5.70	1.61	5.04	1.36	0.65	18.46
1982	1.79	0.17	0.66	0.66	0.97	1.97	1.25	5.80	3.74	3.24	2.82	2.42	25.50
1983	2.49	0.37	0.60	0.49	0.19	1.33	1.01	2.67	2.53	1.45	3.62	0.53	17.27
1984	2.20	1.26	0.56	0.28	0.21	0.71	3.50	1.77	4.38	3.13	1.34	0.87	20.21
1985	0.76	0.84	0.34	0.33	0.23	1.18	0.85	1.19	1.49	2.02	1.48	1.79	12.49
1986	0.73	1.72	0.83	0.35	1.15	0.73	3.72	1.78	4.83	1.80	1.67	4.72	24.04
1987	1.83	1.19	0.06	0.21	1.56	1.23	0.19	4.15	0.84	1.27	2.21	0.85	15.58
1988	0.64	0.36	0.29	0.32	0.48	0.73	0.77	2.97	2.12	1.16	2.18	0.52	12.55
1989	0.62	1.03	0.47	0.13	0.53	0.95	2.01	2.03	1.90	1.50	2.58	3.54	17.28
1990	1.32	0.68	0.92	0.26	0.69	1.47	1.61	4.06	1.21	3.69	1.80	1.25	18.97
1991	0.77	0.52	0.65	0.46	0.87	0.76	3.83	6.37	4.16	2.26	1.39	0.97	23.00
1992	1.06	1.11	0.09	0.32	0.32	1.99	1.39	2.61	3.14	3.48	1.30	0.63	17.45
1993	0.68	0.74	0.90	0.71	0.77	0.67	2.75	4.68	5.19	3.83	2.00	1.30	24.22
1994	1.51	0.57	0.91	0.80	0.70	0.59	2.20	1.97	1.33	1.54	1.28	0.73	14.15
1995	3.89	0.83	0.35	0.11	0.69	1.14	2.36	6.66	4.32	3.28	0.98	1.44	26.04
1996	2.69	0.67	0.20	1.15	0.26	1.80	2.15	6.64	2.06	2.24	3.48	2.14	25.47
1997	4.24	0.56	1.19	0.54	0.72	0.46	2.95	4.56	2.85	5.13	2.54	1.47	27.21
1998	1.05	0.35	0.54	0.44	1.10	1.90	0.79	2.56	5.97	3.13	3.06	2.53	23.44
Average	1.13	0.62	0.51	0.51	0.57	1.04	2.09	3.27	3.45	2.57	1.92	1.29	18.98
Maximum	4.24	1.76	1.43	1.89	1.56	2.79	5.21	8.75	7.22	6.35	3.84	4.72	27.21
Minimum	0.04	0.01	0.06	0.08	0.11	0.22	0.19	0.21	0.84	0.75	0.42	0.11	9.78

Table C6. Monthly and annual precipitation values, in inches, for Custer County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	3.24	0.69	0.05	0.29	0.33	0.81	0.77	1.86	1.58	1.33	2.34	0.51	13.81
1932	1.51	0.65	0.65	0.84	0.62	1.72	3.38	3.20	3.12	2.69	2.77	0.21	21.35
1933	1.36	0.10	0.34	0.35	0.50	1.22	3.41	5.72	0.89	1.95	4.89	0.46	21.19
1934	0.10	0.26	0.23	0.27	0.42	1.33	0.68	0.27	2.61	1.61	1.35	0.92	10.05
1935	1.86	0.22	0.48	0.16	0.49	1.20	1.99	6.86	2.44	0.79	0.65	1.11	18.25
1936	0.39	0.42	0.19	0.45	0.73	0.76	1.48	0.55	3.29	0.47	1.70	0.76	11.19
1937	0.76	1.02	0.37	0.48	0.39	1.47	0.47	1.88	3.73	2.61	0.52	0.58	14.28
1938	0.49	0.36	0.64	0.40	0.16	1.17	1.81	4.66	1.83	2.46	1.04	1.83	16.84
1939	0.39	0.69	0.18	0.21	0.37	0.94	0.65	2.09	2.22	1.08	3.70	1.22	13.74
1940	1.11	0.00	0.32	0.42	0.38	0.81	3.67	0.67	1.31	1.92	1.42	1.74	13.76
1941	1.05	0.30	0.35	0.16	0.12	0.89	5.12	1.53	3.77	2.15	3.45	1.47	20.35
1942	2.13	0.23	0.47	0.07	0.43	1.05	3.81	3.18	3.96	2.30	1.84	1.77	21.24
1943	1.64	0.35	0.26	0.49	0.38	1.00	3.78	3.36	4.59	1.70	0.66	0.30	18.51
1944	1.07	0.08	0.23	1.40	0.50	0.78	1.66	3.30	3.40	3.77	0.87	0.21	17.29
1945	0.63	0.90	0.51	0.47	0.47	1.80	0.72	2.13	3.51	1.73	2.79	1.65	17.31
1946	0.06	0.12	0.31	0.17	0.32	1.15	1.04	7.24	3.20	1.97	2.13	2.98	20.69
1947	1.76	0.17	0.39	0.56	0.05	0.56	1.86	2.73	8.21	2.17	2.16	0.26	20.87
1948	1.04	1.06	0.17	0.26	0.55	0.41	1.87	1.65	3.82	2.39	1.86	0.39	15.46
1949	1.01	0.46	0.54	1.40	0.05	0.41	1.55	3.80	2.98	2.05	1.69	1.07	17.02
1950	0.72	0.05	0.49	0.29	0.12	1.53	1.56	1.58	1.38	2.02	1.80	2.38	13.92
1951	0.39	0.12	0.15	0.19	0.23	0.49	0.88	1.77	5.02	2.77	1.64	2.20	15.84
1952	0.77	0.16	0.49	0.05	0.47	0.93	0.20	5.45	3.27	1.63	1.71	0.20	15.32
1953	0.18	0.56	0.12	0.97	1.31	1.06	2.54	1.13	2.39	1.43	2.37	0.58	14.63
1954	0.27	0.67	0.12	0.16	0.53	1.12	0.41	2.44	2.18	1.46	1.68	0.60	11.63
1955	1.98	0.38	0.23	0.36	0.92	1.24	0.73	2.49	2.68	2.34	2.88	2.43	18.66
1956	0.25	0.67	0.73	0.46	0.43	0.62	1.49	3.81	1.36	2.67	2.75	0.28	15.53
1957	0.32	1.12	0.46	0.44	0.17	0.95	2.39	6.30	4.21	1.78	1.16	0.75	20.04
1958	1.48	0.30	0.19	0.16	0.78	0.98	2.82	1.61	3.42	5.36	0.42	0.06	17.57
1959	0.17	0.41	0.31	0.34	0.49	0.90	1.43	2.70	4.53	1.87	0.45	2.71	16.30
1960	0.21	0.82	0.13	0.31	0.59	0.33	1.12	1.64	2.69	0.90	0.98	0.67	10.40
1961	0.06	0.66	0.59	0.02	0.36	1.10	1.08	2.20	1.58	2.73	0.72	1.44	12.54
1962	0.85	0.24	0.20	0.36	0.99	0.70	0.38	6.99	4.39	5.21	0.59	1.00	21.90
1963	1.57	0.17	0.16	0.57	0.33	1.25	3.61	2.46	5.87	2.83	1.39	2.65	22.87
1964	0.87	0.07	0.34	0.32	0.43	0.86	1.45	3.30	4.73	2.06	1.11	0.50	16.03
1965	0.45	0.31	1.23	0.54	0.31	0.72	1.34	6.81	4.49	3.21	1.51	1.79	22.71
1966	0.25	0.23	0.27	0.22	0.75	0.44	3.55	0.11	1.28	3.74	3.16	1.83	15.83
1967	0.92	0.64	0.79	0.33	0.34	0.88	2.34	3.18	7.00	1.47	1.54	1.25	20.67
1968	0.35	0.31	0.73	0.50	0.23	0.66	1.04	2.54	5.77	3.19	2.94	1.20	19.47
1969	0.20	0.42	0.62	0.33	1.01	0.37	1.20	2.19	3.20	5.17	0.98	0.81	16.52
1970	1.28	0.28	0.29	0.25	0.27	1.24	2.88	2.50	2.74	2.02	1.50	1.74	17.00
1971	1.03	0.56	0.58	0.99	0.80	1.34	4.04	4.07	2.61	1.30	0.58	2.65	20.55
1972	1.53	0.78	0.35	0.75	0.22	0.59	1.70	2.77	5.77	2.48	2.48	0.63	20.04
1973	1.01	0.28	0.38	0.10	0.33	2.11	3.38	1.45	1.59	3.47	2.01	2.47	18.57
1974	1.03	0.91	0.62	0.53	0.12	0.21	1.33	1.44	1.09	2.45	1.40	0.99	12.13
1975	2.07	0.26	0.14	0.87	0.54	1.41	2.12	2.40	4.68	1.00	0.69	0.11	16.29

Table C6. Monthly and annual precipitation values, in inches, for Custer County (within the Black Hills study area)—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1976	0.54	0.40	0.80	0.41	1.12	0.60	3.45	2.81	4.92	3.35	1.69	0.67	20.76
1977	0.31	0.40	0.24	0.51	0.22	1.46	1.93	2.27	2.61	4.11	3.07	1.96	19.10
1978	0.88	0.81	0.75	0.37	0.85	0.27	1.87	6.09	1.56	3.69	2.38	0.52	20.03
1979	0.43	0.64	0.62	0.45	0.44	0.32	0.87	1.57	2.94	5.52	3.15	0.19	17.14
1980	0.74	0.29	0.15	0.32	0.44	1.12	1.24	2.40	2.60	2.36	2.34	0.55	14.55
1981	1.84	0.41	0.73	0.08	0.15	0.38	0.74	5.54	1.08	4.31	1.44	0.33	17.03
1982	1.79	0.13	0.82	0.59	0.42	1.16	1.04	5.44	4.49	2.81	2.18	2.61	23.48
1983	1.44	0.62	0.51	0.25	0.09	1.26	0.77	2.65	2.57	1.72	2.53	0.52	14.94
1984	2.20	1.01	0.68	0.16	0.18	0.67	2.89	1.85	4.13	3.93	1.44	0.61	19.75
1985	0.66	0.64	0.38	0.33	0.12	0.95	1.04	0.96	1.14	2.31	0.78	2.26	11.56
1986	0.78	1.67	0.36	0.13	0.85	0.74	3.33	1.54	5.61	1.39	1.55	4.06	22.00
1987	1.94	1.00	0.07	0.08	1.80	1.57	0.27	4.07	1.01	1.26	1.47	0.74	15.27
1988	0.58	0.50	0.46	0.23	0.27	0.48	0.92	2.79	2.29	1.50	2.35	0.58	12.95
1989	0.40	0.88	0.37	0.07	0.59	0.89	1.43	1.88	1.60	2.05	1.89	4.21	16.24
1990	1.18	0.52	0.64	0.11	0.68	1.44	2.17	4.80	1.58	3.50	1.13	1.25	18.99
1991	0.79	0.75	0.60	0.30	0.83	0.67	3.28	5.63	4.10	1.55	1.58	0.81	20.89
1992	1.18	1.06	0.05	0.16	0.37	1.99	1.00	3.13	3.49	3.84	1.40	0.44	18.11
1993	0.51	0.47	1.00	0.84	1.22	0.97	2.36	3.03	6.18	3.89	2.42	1.28	24.17
1994	1.65	0.70	0.59	0.51	0.91	0.65	1.60	1.62	1.61	1.43	1.70	0.59	13.55
1995	4.22	0.66	0.77	0.49	0.86	0.96	2.04	6.51	5.17	2.31	1.43	1.91	27.33
1996	2.17	0.78	0.31	0.92	0.20	1.14	2.52	5.42	2.00	1.75	3.90	2.17	23.28
1997	2.93	0.58	1.13	0.55	0.78	0.46	2.85	4.06	2.27	5.35	1.90	1.85	24.72
1998	1.08	0.11	0.25	0.61	1.05	2.07	0.68	3.76	5.56	3.31	3.43	2.00	23.91
Average	1.06	0.51	0.44	0.41	0.51	0.97	1.87	3.12	3.25	2.51	1.84	1.26	17.73
Maximum	4.22	1.67	1.23	1.40	1.80	2.11	5.12	7.24	8.21	5.52	4.89	4.21	27.33
Minimum	0.06	0.00	0.05	0.02	0.05	0.21	0.20	0.11	0.89	0.47	0.42	0.06	10.05

Table C7. Monthly and annual precipitation values, in inches, for Fall River County (within the Black Hills study area)

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1931	3.44	0.72	0.04	0.33	0.42	0.97	0.48	1.74	1.43	1.57	1.86	0.83	13.82
1932	1.44	0.54	0.81	0.81	0.84	2.59	3.37	2.95	1.85	2.45	1.90	0.13	19.66
1933	1.12	0.08	0.35	0.09	0.52	1.59	3.81	5.14	0.89	1.18	5.59	0.31	20.68
1934	0.13	0.30	0.29	0.35	0.50	1.39	0.83	0.41	2.83	2.35	1.61	0.97	11.95
1935	1.16	0.23	0.24	0.15	0.38	2.01	3.24	7.88	2.10	0.86	1.12	0.85	20.24
1936	0.47	0.41	0.30	0.45	1.05	0.76	0.93	0.88	2.02	0.35	1.02	1.15	9.80
1937	0.55	0.92	0.48	0.47	0.38	1.94	0.66	1.71	5.03	1.92	0.25	0.53	14.85
1938	0.89	0.40	0.27	0.43	0.08	1.65	1.85	3.61	1.68	2.15	0.85	2.65	16.51
1939	0.23	0.65	0.17	0.30	0.49	0.73	0.50	2.33	2.06	0.49	2.71	0.92	11.58
1940	0.96	0.00	0.23	0.43	0.49	0.81	4.75	0.63	1.36	1.61	0.67	1.64	13.57
1941	0.69	0.35	0.20	0.24	0.13	0.89	5.07	0.95	4.12	3.06	3.13	1.15	20.01
1942	1.00	0.29	0.64	0.04	0.44	1.03	3.68	4.73	3.79	3.31	0.76	1.76	21.47
1943	1.79	0.40	0.20	0.32	0.23	0.73	2.84	4.58	3.78	1.96	0.71	0.36	17.92
1944	1.33	0.03	0.19	0.92	0.57	0.45	2.23	3.53	2.84	4.28	1.58	0.19	18.13
1945	0.40	0.90	0.63	0.39	0.51	1.67	0.52	1.52	3.38	1.92	2.30	1.86	16.00
1946	0.09	0.04	0.60	0.25	0.33	0.97	1.11	6.96	3.07	1.26	1.14	3.40	19.22
1947	1.15	0.16	0.49	0.41	0.07	0.26	1.28	3.01	8.72	2.77	1.04	0.61	19.95
1948	0.94	1.23	0.23	0.04	0.62	0.46	1.95	1.91	3.83	2.55	2.19	0.55	16.51
1949	1.22	0.51	0.33	1.76	0.02	0.23	1.64	3.41	1.97	1.71	1.13	0.91	14.84
1950	0.78	0.05	0.34	0.26	0.04	1.26	1.72	1.46	1.04	1.81	1.74	2.19	12.66
1951	0.38	0.17	0.19	0.22	0.09	0.55	0.61	1.56	4.02	3.33	1.45	1.84	14.39
1952	0.90	0.13	0.40	0.01	0.54	0.94	0.20	3.88	3.15	0.90	1.27	0.18	12.50
1953	0.25	0.75	0.19	0.85	1.19	0.58	2.15	1.17	2.10	1.36	0.98	0.76	12.34
1954	0.18	0.31	0.22	0.17	0.56	1.24	0.53	3.32	2.26	1.44	0.81	0.66	11.71
1955	1.89	0.24	0.17	0.28	1.09	1.20	0.96	3.02	2.18	2.05	1.99	3.24	18.31
1956	0.29	0.68	0.66	0.26	0.30	0.40	1.30	3.56	1.88	1.29	1.75	0.26	12.64
1957	0.39	0.90	0.51	0.42	0.17	1.41	2.04	5.90	3.13	1.65	0.91	1.21	18.62
1958	1.59	0.37	0.15	0.07	0.81	1.06	2.60	1.06	2.83	5.95	0.33	0.06	16.88
1959	0.12	0.25	0.28	0.47	0.31	0.69	0.79	2.79	3.61	1.71	0.35	3.00	14.37
1960	0.26	0.62	0.22	0.38	0.60	0.33	1.07	0.95	2.07	0.70	0.74	0.28	8.24
1961	0.05	0.88	0.73	0.06	0.22	0.94	1.10	2.75	1.17	3.24	0.42	1.25	12.81
1962	0.57	0.29	0.31	0.20	0.87	0.76	0.27	5.62	4.51	4.45	0.52	0.55	18.91
1963	1.70	0.18	0.27	0.61	0.32	1.66	2.75	2.06	5.53	3.23	1.17	2.57	22.05
1964	0.92	0.02	0.25	0.20	0.68	0.92	2.09	2.92	4.39	0.65	0.75	0.27	14.05
1965	0.50	0.40	0.64	0.54	0.47	0.83	1.21	5.45	3.41	2.56	1.29	2.30	19.61
1966	0.28	0.21	0.32	0.34	0.75	0.41	2.48	0.26	0.94	3.69	2.86	1.80	14.35
1967	1.37	0.59	0.46	0.41	0.14	0.91	2.36	3.32	7.27	1.09	0.37	0.76	19.05
1968	0.45	0.26	0.81	0.31	0.20	0.71	1.32	2.99	5.33	2.49	2.69	0.86	18.41
1969	0.39	0.34	0.52	0.37	0.81	0.27	0.99	1.33	2.18	4.60	0.30	0.57	12.67
1970	1.19	0.26	0.23	0.21	0.24	1.01	2.31	1.58	2.44	2.12	0.95	1.68	14.22
1971	1.26	0.45	0.29	0.49	0.80	0.51	3.15	5.37	2.31	1.30	0.30	2.52	18.75
1972	1.41	0.61	0.25	0.34	0.16	0.67	1.52	2.49	4.10	1.70	1.55	0.65	15.45
1973	1.26	0.23	0.20	0.23	0.41	2.30	3.19	1.60	1.21	3.14	1.31	2.90	17.96
1974	1.36	0.68	0.65	0.57	0.13	0.25	2.40	0.86	1.10	2.00	1.80	1.26	13.05
1975	2.00	0.23	0.06	0.65	0.53	1.24	1.48	2.02	4.39	0.92	0.46	0.11	14.07

Table C7. Monthly and annual precipitation values, in inches, for Fall River County (within the Black Hills study area)—Continued

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Annual
1976	0.50	0.32	0.94	0.52	0.61	0.61	2.97	2.55	3.09	3.88	1.38	0.92	18.28
1977	0.48	0.22	0.16	0.42	0.08	1.36	2.41	2.30	2.13	3.06	2.79	2.01	17.41
1978	0.79	1.10	0.51	0.47	0.67	0.25	1.65	4.27	1.39	3.32	2.73	0.37	17.53
1979	0.45	0.47	0.60	0.48	0.36	0.30	0.84	1.58	2.22	2.99	3.51	0.25	14.04
1980	0.84	0.24	0.01	0.39	0.43	1.61	1.47	2.50	2.41	1.41	2.10	0.36	13.78
1981	1.38	0.51	0.63	0.11	0.22	0.48	0.72	4.09	1.40	3.44	1.08	0.24	14.29
1982	2.12	0.09	0.48	0.49	0.19	1.17	1.01	5.50	4.54	1.88	2.49	2.49	22.45
1983	1.30	0.99	0.36	0.26	0.05	1.16	0.75	2.34	3.45	1.61	2.24	0.34	14.85
1984	1.55	1.56	0.78	0.24	0.33	0.96	3.27	2.66	2.72	2.37	1.21	0.55	18.19
1985	0.85	0.52	0.30	0.38	0.29	0.61	1.94	1.02	1.37	1.75	0.59	2.29	11.92
1986	0.79	1.62	0.29	0.18	0.93	0.61	3.35	1.20	4.80	1.68	1.06	3.26	19.78
1987	2.60	0.78	0.11	0.08	1.60	1.77	0.37	4.14	0.87	1.25	1.19	0.77	15.55
1988	0.43	0.77	0.89	0.20	0.17	0.53	0.60	2.96	2.12	1.67	2.33	1.21	13.88
1989	0.28	0.63	0.32	0.00	0.45	1.01	1.51	1.40	1.22	2.24	1.41	3.52	13.98
1990	0.82	0.25	0.46	0.05	0.41	1.19	2.19	4.59	1.72	3.01	0.86	1.71	17.26
1991	0.80	0.85	0.45	0.27	0.77	0.57	2.00	4.78	3.71	0.99	1.31	0.55	17.06
1992	1.06	0.86	0.06	0.29	0.61	1.63	0.71	3.26	3.12	3.80	1.41	0.22	17.03
1993	0.50	0.56	1.00	0.68	1.22	1.01	2.00	1.81	5.57	3.70	3.01	1.28	22.32
1994	1.57	0.76	0.50	0.55	0.46	0.65	1.29	1.50	1.89	1.40	0.99	0.42	11.99
1995	3.00	0.33	0.97	0.40	0.62	0.67	1.59	4.73	4.40	1.78	0.81	2.32	21.61
1996	1.76	0.56	0.17	0.61	0.08	0.83	2.69	4.39	1.46	0.78	3.42	1.63	18.38
1997	1.80	0.48	0.84	0.76	0.70	0.33	2.75	3.40	3.67	6.42	1.34	0.89	23.39
1998	1.07	0.17	0.15	0.52	0.88	1.93	0.57	3.51	4.54	3.21	3.76	2.03	22.34
Average	0.99	0.48	0.40	0.37	0.48	0.96	1.79	2.91	2.93	2.28	1.52	1.24	16.35
Maxi- mum	3.44	1.62	1.00	1.76	1.60	2.59	5.07	7.88	8.72	6.42	5.59	3.52	23.39
Mini- mum	0.05	0.00	0.01	0.00	0.02	0.23	0.20	0.26	0.87	0.35	0.25	0.06	8.24

Section D - Moving average precipitation values
and ranks for the study area and counties
within the study area, water years 1931-98

Table D1. Moving average precipitation values, in inches, and ranks for the Black Hills study area

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	12.97	63	--	--	--	--	--	--	--	--
1932	21.64	17	--	--	--	--	--	--	--	--
1933	21.05	19	18.56	34	--	--	--	--	--	--
1934	11.12	67	17.94	42	--	--	--	--	--	--
1935	17.96	34	16.71	50	16.95	49	--	--	--	--
1936	10.22	68	13.10	66	16.40	56	--	--	--	--
1937	16.08	52	14.75	63	15.29	61	--	--	--	--
1938	16.21	50	14.17	64	14.32	63	--	--	--	--
1939	13.69	61	15.33	59	14.83	62	--	--	--	--
1940	14.50	57	14.80	62	14.14	64	15.55	59	--	--
1941	22.19	13	16.79	48	16.53	53	16.47	54	--	--
1942	21.41	18	19.37	23	17.60	42	16.44	55	--	--
1943	17.92	36	20.51	16	17.94	38	16.13	57	--	--
1944	18.64	32	19.33	25	18.93	29	16.88	48	--	--
1945	20.10	25	18.89	31	20.05	12	17.10	47	--	--
1946	24.74	5	21.16	9	20.57	8	18.55	35	--	--
1947	20.14	24	21.66	7	20.31	9	18.96	24	--	--
1948	17.90	37	20.93	13	20.31	10	19.12	17	--	--
1949	16.96	43	18.33	37	19.97	14	19.45	11	--	--
1950	16.19	51	17.02	46	19.19	25	19.62	7	--	--
1951	16.72	45	16.63	52	17.58	43	19.07	20	--	--
1952	15.97	53	16.29	55	16.75	50	18.53	36	--	--
1953	16.28	49	16.32	54	16.42	55	18.37	37	--	--
1954	13.29	62	15.18	61	15.69	60	17.83	43	--	--
1955	19.15	31	16.24	56	16.28	57	17.73	45	--	--
1956	15.46	55	15.96	57	16.03	58	16.81	52	--	--
1957	20.83	21	18.48	36	17.00	48	16.87	49	--	--
1958	17.85	39	18.05	40	17.32	46	16.87	50	--	--
1959	15.63	54	18.10	39	17.78	41	16.74	53	--	--
1960	12.41	66	15.30	60	16.44	54	16.36	56	17.17	38
1961	12.71	64	13.58	65	15.89	59	15.96	58	17.17	39
1962	24.85	4	16.66	51	16.69	52	16.85	51	17.27	37
1963	23.61	10	20.39	17	17.84	40	17.58	46	17.36	36
1964	19.16	30	22.54	3	18.55	35	18.17	39	17.63	35
1965	23.57	11	22.11	5	20.78	7	18.61	32	17.81	34
1966	16.75	44	19.83	19	21.59	3	18.74	29	18.03	33
1967	21.68	16	20.67	15	20.95	6	18.82	27	18.22	32

Table D1. Moving average precipitation values, in inches, and ranks for the Black Hills study area—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1968	19.53	27	19.32	26	20.14	11	18.99	23	18.33	30
1969	16.71	46	19.30	27	19.65	18	19.10	18	18.43	25
1970	19.30	29	18.51	35	18.79	31	19.79	6	18.59	20
1971	22.06	15	19.36	24	19.86	17	20.72	2	18.58	21
1972	22.09	14	21.15	10	19.94	15	20.45	3	18.61	19
1973	19.76	26	21.30	8	19.98	13	20.06	5	18.67	18
1974	14.44	59	18.76	32	19.53	20	19.59	8	18.53	22
1975	17.11	41	17.10	45	19.09	27	18.94	25	18.43	26
1976	22.31	12	17.96	41	19.14	26	19.50	10	18.35	29
1977	19.33	28	19.59	20	18.59	34	19.26	16	18.32	31
1978	20.97	20	20.87	14	18.83	30	19.41	14	18.42	27
1979	17.88	38	19.40	22	19.52	21	19.53	9	18.45	23
1980	14.80	56	17.88	43	19.06	28	19.08	19	18.41	28
1981	17.96	35	16.88	47	18.19	36	18.67	31	18.45	24
1982	25.48	3	19.41	21	19.42	22	19.00	22	18.77	17
1983	17.01	42	20.15	18	18.63	33	18.73	30	18.79	16
1984	20.74	22	21.08	11	19.20	24	19.36	15	19.04	10
1985	12.50	65	16.75	49	18.74	32	18.90	26	18.82	15
1986	23.68	9	18.97	28	19.88	16	19.04	21	19.09	7
1987	16.66	47	17.61	44	18.12	37	18.77	28	18.95	12
1988	14.04	60	18.13	38	17.52	44	18.07	40	18.82	14
1989	16.61	48	15.77	58	16.70	51	17.95	42	18.86	13
1990	18.50	33	16.38	53	17.90	39	18.32	38	19.06	9
1991	20.66	23	18.59	33	17.29	47	18.59	33	19.33	3
1992	17.72	40	18.96	29	17.50	45	17.81	44	19.09	8
1993	24.68	6	21.02	12	19.63	19	18.58	34	19.12	5
1994	14.45	58	18.95	30	19.20	23	17.95	41	18.97	11
1995	27.39	1	22.17	4	20.98	5	19.44	13	19.09	6
1996	23.69	8	21.84	6	21.59	4	19.44	12	19.32	4
1997	26.12	2	25.73	1	23.27	1	20.39	4	19.47	2
1998	23.71	7	24.51	2	23.07	2	21.35	1	19.61	1
Count	68		66		64		59		39	
Maximum	27.39		25.73		23.27		21.35		19.61	
Minimum	10.22		13.10		14.14		15.55		17.17	
Mean	18.61		--		--		--		--	

Table D2. Moving average precipitation values, in inches, and ranks for Butte County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	9.07	67	--	--	--	--	--	--	--	--
1932	19.36	15	--	--	--	--	--	--	--	--
1933	17.86	27	15.43	43	--	--	--	--	--	--
1934	10.19	65	15.80	40	--	--	--	--	--	--
1935	13.06	52	13.70	59	13.91	52	--	--	--	--
1936	9.06	68	10.77	65	13.91	53	--	--	--	--
1937	19.04	18	13.72	58	13.84	56	--	--	--	--
1938	11.65	60	13.25	60	12.60	64	--	--	--	--
1939	10.57	64	13.75	57	12.68	62	--	--	--	--
1940	14.94	43	12.39	63	13.05	60	13.48	57	--	--
1941	24.62	6	16.71	31	16.16	40	15.04	47	--	--
1942	19.17	17	19.58	10	16.19	39	15.02	48	--	--
1943	12.92	54	18.90	17	16.44	37	14.52	50	--	--
1944	18.39	21	16.83	29	18.01	18	15.34	45	--	--
1945	17.19	29	16.17	34	18.46	11	15.76	39	--	--
1946	24.86	4	20.15	7	18.50	10	17.33	26	--	--
1947	16.49	33	19.51	12	17.97	19	17.08	30	--	--
1948	16.56	32	19.30	13	18.70	9	17.57	21	--	--
1949	12.29	56	15.11	46	17.48	25	17.74	14	--	--
1950	14.68	45	14.51	49	16.97	30	17.72	15	--	--
1951	15.06	41	14.01	55	15.02	45	16.76	34	--	--
1952	12.42	55	14.05	54	14.20	48	16.09	37	--	--
1953	15.33	38	14.27	52	13.96	50	16.33	36	--	--
1954	11.83	59	13.19	61	13.86	55	15.67	41	--	--
1955	14.25	50	13.80	56	13.78	57	15.38	44	--	--
1956	12.21	58	12.76	62	13.21	59	14.11	53	--	--
1957	16.58	31	14.35	51	14.04	49	14.12	52	--	--
1958	14.86	44	14.55	48	13.95	51	13.95	55	--	--
1959	10.80	62	14.08	53	13.74	58	13.80	56	--	--
1960	10.72	63	12.13	64	13.03	61	13.41	58	14.87	39
1961	10.16	66	10.56	66	12.62	63	12.92	59	14.90	38
1962	22.80	7	14.56	47	13.87	54	13.95	54	15.02	37
1963	19.66	14	17.54	24	14.83	46	14.39	51	15.08	36
1964	16.65	30	19.70	8	16.00	43	14.87	49	15.29	35
1965	18.41	20	18.24	21	17.54	24	15.29	46	15.47	34
1966	14.58	47	16.55	32	18.42	12	15.52	43	15.66	32

Table D2. Moving average precipitation values, in inches, and ranks for Butte County (within the Black Hills study area)–Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	17.74	28	16.91	27	17.41	26	15.64	42	15.61	33
1968	15.60	36	15.97	37	16.60	36	15.71	40	15.74	29
1969	14.38	49	15.91	38	16.14	41	16.07	38	15.87	24
1970	18.39	22	16.12	35	16.14	42	16.84	32	15.99	19
1971	17.90	25	16.89	28	16.80	34	17.61	19	15.76	28
1972	22.45	8	19.58	9	17.74	20	17.58	20	15.87	23
1973	18.29	24	19.55	11	18.28	15	17.44	23	16.05	18
1974	14.61	46	18.45	20	18.33	14	17.24	29	15.93	21
1975	15.13	39	16.01	36	17.68	22	16.91	31	15.86	25
1976	20.48	11	16.74	30	18.19	16	17.50	22	15.71	30
1977	16.18	35	17.26	25	16.94	31	17.34	25	15.70	31
1978	19.34	16	18.67	19	17.15	28	17.72	16	15.79	27
1979	15.39	37	16.97	26	17.30	27	17.82	12	15.90	22
1980	12.92	53	15.88	39	16.86	33	17.27	28	15.84	26
1981	18.32	23	15.54	41	16.43	38	17.31	27	15.95	20
1982	26.01	2	19.08	15	18.40	13	17.67	17	16.40	17
1983	17.89	26	20.74	6	18.11	17	17.63	18	16.48	16
1984	19.83	13	21.24	3	18.99	6	18.15	7	16.75	14
1985	11.63	61	16.45	33	18.73	8	17.80	13	16.66	15
1986	25.85	3	19.10	14	20.24	4	18.34	4	17.12	12
1987	18.96	19	18.81	18	18.83	7	18.61	2	17.20	11
1988	12.24	57	19.02	16	17.70	21	17.90	9	17.11	13
1989	15.02	42	15.41	44	16.74	35	17.87	11	17.25	10
1990	16.24	34	14.50	50	17.66	23	18.20	6	17.44	7
1991	15.12	40	15.46	42	15.52	44	17.88	10	17.60	5
1992	14.43	48	15.26	45	14.61	47	16.72	35	17.32	9
1993	24.71	5	18.09	22	17.11	29	17.40	24	17.49	6
1994	13.91	51	17.69	23	16.88	32	16.81	33	17.40	8
1995	27.26	1	21.96	2	19.09	5	18.37	3	17.69	4
1996	21.71	9	20.96	5	20.40	3	17.96	8	17.93	3
1997	21.44	10	23.47	1	21.81	1	18.21	5	18.05	2
1998	20.10	12	21.08	4	20.88	2	18.99	1	18.20	1
Count	68		66		64		59		39	
Maximum	27.3		23.5		21.8		19.0		18.2	
Minimum	9.1		10.6		12.6		12.9		14.9	
Mean	16.6		--		--		--		--	

Table D3. Moving average precipitation values, in inches, and ranks for Lawrence County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	13.74	66	--	--	--	--	--	--	--	--
1932	24.69	24	--	--	--	--	--	--	--	--
1933	22.96	31	20.46	54	--	--	--	--	--	--
1934	13.32	67	20.32	55	--	--	--	--	--	--
1935	18.26	59	18.18	61	18.59	59	--	--	--	--
1936	11.26	68	14.28	66	18.10	60	--	--	--	--
1937	19.44	54	16.32	64	17.05	61	--	--	--	--
1938	18.11	60	16.27	65	16.08	64	--	--	--	--
1939	17.34	62	18.30	60	16.88	63	--	--	--	--
1940	18.54	57	18.00	62	16.94	62	17.77	59	--	--
1941	27.02	18	20.97	48	20.09	57	19.09	56	--	--
1942	24.28	25	23.28	29	21.06	51	19.05	57	--	--
1943	20.02	50	23.77	24	21.44	45	18.76	58	--	--
1944	22.31	35	22.20	36	22.43	35	19.66	55	--	--
1945	28.43	14	23.59	26	24.41	22	20.68	53	--	--
1946	35.15	2	28.63	7	26.04	11	23.07	36	--	--
1947	23.57	29	29.05	5	25.90	14	23.48	32	--	--
1948	22.80	32	27.18	11	26.45	7	23.95	19	--	--
1949	19.66	53	22.01	39	25.92	13	24.18	16	--	--
1950	22.48	33	21.65	41	24.73	20	24.57	12	--	--
1951	20.70	42	20.95	50	21.84	40	23.94	20	--	--
1952	21.50	39	21.56	43	21.43	46	23.66	27	--	--
1953	22.31	34	21.50	45	21.33	48	23.89	22	--	--
1954	18.48	58	20.76	52	21.09	50	23.51	31	--	--
1955	23.98	27	21.59	42	21.39	47	23.06	37	--	--
1956	19.75	52	20.73	53	21.20	49	21.52	48	--	--
1957	25.18	22	22.97	32	21.94	39	21.68	45	--	--
1958	21.59	38	22.17	38	21.79	41	21.56	46	--	--
1959	16.89	63	21.22	47	21.48	44	21.29	51	--	--
1960	19.21	55	19.23	59	20.52	55	20.96	52	21.10	39
1961	15.15	64	17.08	63	19.60	58	20.40	54	21.15	38
1962	32.28	3	22.21	35	21.02	52	21.48	49	21.40	37
1963	28.25	15	25.23	17	22.36	36	22.07	43	21.58	36
1964	29.67	8	30.07	2	24.91	19	23.19	35	22.12	35
1965	30.47	6	29.46	4	27.16	4	23.84	25	22.53	34
1966	19.81	51	26.65	12	28.10	3	23.85	23	22.81	33

Table D3. Moving average precipitation values, in inches, and ranks for Lawrence County (within the Black Hills study area)—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	25.69	20	25.33	16	26.78	5	23.90	21	23.02	32
1968	24.23	26	23.24	30	25.98	12	24.17	17	23.22	31
1969	20.68	43	23.53	27	24.18	25	24.54	13	23.34	30
1970	28.25	16	24.38	21	23.73	28	25.45	6	23.66	24
1971	28.49	13	25.81	15	25.47	16	26.78	1	23.71	22
1972	29.79	7	28.84	6	26.29	10	26.53	2	23.89	16
1973	24.92	23	27.73	10	26.43	8	26.20	3	24.06	7
1974	20.30	47	25.00	19	26.35	9	25.26	9	23.99	10
1975	21.34	41	22.18	37	24.97	18	24.35	15	23.75	21
1976	29.55	9	23.73	25	25.18	17	25.32	8	23.57	29
1977	23.87	28	24.92	20	24.00	26	25.14	10	23.58	28
1978	26.30	19	26.58	13	24.27	24	25.35	7	23.69	23
1979	21.72	37	23.97	23	24.56	21	25.45	5	23.76	20
1980	17.38	61	21.80	40	23.77	27	24.37	14	23.59	27
1981	21.38	40	20.16	56	22.13	37	23.66	28	23.61	26
1982	31.72	4	23.50	28	23.70	29	23.85	24	23.95	12
1983	21.96	36	25.02	18	22.83	32	23.55	30	23.94	14
1984	25.47	21	26.38	14	23.58	30	24.07	18	24.18	4
1985	15.13	65	20.85	51	23.13	31	23.45	33	23.88	18
1986	27.62	17	22.74	33	24.38	23	23.26	34	24.14	5
1987	20.13	49	20.96	49	22.06	38	22.88	38	23.97	11
1988	19.06	56	22.27	34	21.48	43	22.16	41	23.89	17
1989	20.40	46	19.86	58	20.46	56	22.02	44	24.01	9
1990	20.45	45	19.97	57	21.53	42	22.33	40	24.05	8
1991	23.47	30	21.44	46	20.70	54	22.54	39	24.33	2
1992	20.65	44	21.52	44	20.80	53	21.43	50	23.94	15
1993	28.54	12	24.22	22	22.70	33	22.09	42	23.95	13
1994	20.16	48	23.12	31	22.65	34	21.56	47	23.63	25
1995	35.22	1	27.98	9	25.61	15	23.57	29	23.79	19
1996	29.00	10	28.13	8	26.72	6	23.71	26	24.10	6
1997	31.62	5	31.95	1	28.91	2	24.86	11	24.29	3
1998	28.70	11	29.78	3	28.94	1	25.82	4	24.44	1
Count	68		66		64		59		39	
Maximum	35.22		31.95		28.94		26.78		24.44	
Minimum	11.26		14.28		16.08		17.77		21.10	
Mean	23.11		--		--		--		--	

Table D4. Moving average precipitation values, in inches, and ranks for Meade County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	11.92	66	--	--	--	--	--	--	--	--
1932	21.90	20	--	--	--	--	--	--	--	--
1933	20.94	24	18.26	43	--	--	--	--	--	--
1934	10.79	67	17.88	47	--	--	--	--	--	--
1935	17.20	47	16.31	55	16.55	57	--	--	--	--
1936	8.88	68	12.29	66	15.94	59	--	--	--	--
1937	18.07	41	14.72	62	15.18	61	--	--	--	--
1938	15.64	54	14.20	64	14.12	63	--	--	--	--
1939	12.75	64	15.49	60	14.51	62	--	--	--	--
1940	14.63	56	14.34	63	13.99	64	15.27	59	--	--
1941	23.02	14	16.80	54	16.82	55	16.38	55	--	--
1942	21.22	23	19.62	27	17.45	52	16.31	56	--	--
1943	16.89	49	20.38	22	17.70	44	15.91	58	--	--
1944	20.44	26	19.52	29	19.24	34	16.87	53	--	--
1945	23.88	9	20.40	21	21.09	13	17.54	51	--	--
1946	29.74	1	24.69	3	22.43	5	19.63	28	--	--
1947	18.62	32	24.08	5	21.91	8	19.68	26	--	--
1948	19.57	30	22.64	8	22.45	4	20.08	16	--	--
1949	18.55	35	18.91	35	22.07	6	20.66	7	--	--
1950	17.90	42	18.67	38	20.88	15	20.98	4	--	--
1951	18.26	39	18.24	44	18.58	38	20.51	9	--	--
1952	16.04	52	17.40	52	18.06	42	19.99	18	--	--
1953	18.57	34	17.62	50	17.86	43	20.16	13	--	--
1954	14.26	58	16.29	56	17.01	54	19.54	32	--	--
1955	18.08	40	16.97	53	17.04	53	18.96	41	--	--
1956	15.67	53	16.00	58	16.52	58	17.55	50	--	--
1957	21.89	21	18.55	39	17.69	45	17.88	47	--	--
1958	17.58	45	18.38	42	17.50	49	17.68	48	--	--
1959	14.58	57	18.02	45	17.56	48	17.28	52	--	--
1960	13.58	62	15.25	61	16.66	56	16.85	54	17.70	39
1961	12.01	65	13.39	65	15.93	60	16.22	57	17.71	38
1962	29.69	2	18.42	41	17.49	50	17.59	49	17.96	37
1963	22.81	15	21.50	15	18.53	39	18.01	46	18.03	36
1964	20.41	27	24.31	4	19.70	28	18.63	43	18.35	35
1965	22.66	16	21.96	12	21.52	11	19.09	39	18.53	34
1966	18.58	33	20.55	19	22.83	3	19.38	34	18.85	33

Table D4. Moving average precipitation values, in inches, and ranks for Meade County (within the Black Hills study area)—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	23.86	11	21.70	13	21.67	9	19.58	31	19.05	31
1968	19.07	31	20.50	20	20.92	14	19.72	25	19.16	27
1969	16.09	51	19.67	26	20.05	25	19.88	19	19.27	24
1970	20.38	28	18.51	40	19.59	29	20.56	8	19.46	20
1971	23.77	13	20.08	25	20.63	18	21.73	1	19.49	19
1972	23.87	10	22.67	7	20.63	17	21.15	3	19.58	16
1973	19.78	29	22.47	10	20.78	16	20.85	6	19.67	13
1974	14.93	55	19.53	28	20.55	19	20.30	12	19.49	18
1975	18.43	36	17.71	48	20.16	22	19.87	20	19.31	23
1976	23.82	12	19.06	32	20.17	21	20.40	10	19.11	28
1977	18.30	37	20.18	24	19.05	36	19.84	22	19.10	30
1978	21.74	22	21.28	17	19.44	30	20.11	15	19.17	25
1979	18.28	38	19.44	30	20.11	24	20.33	11	19.16	26
1980	13.78	61	17.93	46	19.18	35	19.67	27	19.03	32
1981	20.50	25	17.52	51	18.52	40	19.34	36	19.10	29
1982	26.30	6	20.19	23	20.12	23	19.59	29	19.44	21
1983	17.68	43	21.49	16	19.31	32	19.38	35	19.41	22
1984	22.64	17	22.20	11	20.18	20	20.15	14	19.69	11
1985	12.80	63	17.70	49	19.98	26	19.58	30	19.52	17
1986	26.53	5	20.65	18	21.19	12	19.85	21	19.88	5
1987	17.22	46	18.85	36	19.37	31	19.75	24	19.72	10
1988	14.06	59	19.27	31	18.65	37	18.98	40	19.60	15
1989	16.74	50	16.00	59	17.47	51	18.82	42	19.68	12
1990	17.65	44	16.15	57	18.44	41	19.21	38	19.81	8
1991	22.44	18	18.94	34	17.62	46	19.40	33	20.16	3
1992	16.97	48	19.02	33	17.57	47	18.47	44	19.74	9
1993	25.38	7	21.60	14	19.84	27	19.24	37	19.82	6
1994	13.90	60	18.75	37	19.27	33	18.37	45	19.60	14
1995	29.09	3	22.79	6	21.56	10	20.00	17	19.82	7
1996	24.75	8	22.58	9	22.02	7	19.82	23	20.02	4
1997	28.20	4	27.35	1	24.26	1	20.92	5	20.17	2
1998	21.93	19	24.96	2	23.57	2	21.70	2	20.26	1
Count	68		66		64		59		39	
Maximum	29.74		27.35		24.26		21.73		20.26	
Minimum	8.88		12.29		13.99		15.27		17.70	
Mean	19.24		--		--		--		--	

Table D5. Moving average precipitation values, in inches, and ranks for Pennington County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	12.76	63	--	--	--	--	--	--	--	--
1932	22.42	17	--	--	--	--	--	--	--	--
1933	21.21	21	18.79	34	--	--	--	--	--	--
1934	10.67	67	18.10	43	--	--	--	--	--	--
1935	17.76	41	16.54	53	16.96	53	--	--	--	--
1936	9.78	68	12.74	66	16.37	58	--	--	--	--
1937	14.68	57	14.07	64	14.82	61	--	--	--	--
1938	15.93	53	13.46	65	13.76	63	--	--	--	--
1939	14.71	56	15.11	61	14.57	62	--	--	--	--
1940	13.00	62	14.55	63	13.62	64	15.29	59	--	--
1941	21.45	20	16.39	56	15.95	60	16.16	56	--	--
1942	20.47	24	18.31	40	17.11	51	15.97	57	--	--
1943	18.29	37	20.07	23	17.58	46	15.67	58	--	--
1944	17.24	49	18.67	36	18.09	38	16.33	55	--	--
1945	20.49	22	18.67	35	19.59	27	16.60	54	--	--
1946	24.56	8	20.76	16	20.21	15	18.08	43	--	--
1947	19.17	31	21.41	11	19.95	21	18.53	37	--	--
1948	18.29	36	20.67	18	19.95	20	18.77	33	--	--
1949	18.00	38	18.48	39	20.10	18	19.10	30	--	--
1950	17.41	45	17.90	44	19.48	29	19.54	22	--	--
1951	16.93	50	17.44	46	17.96	39	19.08	31	--	--
1952	17.34	46	17.22	49	17.59	45	18.77	32	--	--
1953	16.71	51	16.99	51	17.28	49	18.61	35	--	--
1954	13.10	61	15.72	59	16.30	59	18.20	40	--	--
1955	19.58	30	16.47	54	16.73	54	18.11	42	--	--
1956	16.02	52	16.24	58	16.55	56	17.25	51	--	--
1957	21.90	18	19.17	31	17.46	48	17.53	48	--	--
1958	17.74	42	18.55	38	17.67	43	17.47	49	--	--
1959	17.59	43	19.08	32	18.57	37	17.43	50	--	--
1960	13.86	60	16.40	55	17.42	49	17.08	52	17.30	38
1961	12.48	66	14.65	62	16.72	55	16.63	53	17.29	39
1962	26.89	2	17.75	45	17.71	42	17.59	47	17.44	37
1963	24.64	7	21.34	14	19.09	34	18.38	38	17.56	36
1964	20.48	23	24.00	3	19.67	25	19.12	28	17.88	35
1965	25.87	4	23.67	4	22.07	5	19.75	19	18.15	34
1966	17.82	40	21.39	13	23.14	3	19.93	16	18.42	33

Table D5. Moving average precipitation values, in inches, and ranks for Pennington County (within the Black Hills study area)—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	22.91	15	22.20	7	22.35	4	20.03	13	18.70	32
1968	19.02	33	19.92	24	21.22	7	20.16	12	18.80	31
1969	19.06	32	20.33	21	20.94	11	20.31	9	18.94	30
1970	20.10	27	19.40	28	19.78	23	20.93	5	19.18	27
1971	23.11	13	20.76	17	20.84	12	21.99	1	19.24	25
1972	24.03	11	22.41	5	21.07	9	21.71	3	19.36	20
1973	19.71	29	22.28	6	21.20	8	21.21	4	19.40	18
1974	13.98	59	19.24	29	20.18	16	20.56	7	19.29	23
1975	17.95	39	17.21	50	19.76	24	19.77	18	19.21	26
1976	22.60	16	18.18	41	19.65	26	20.25	10	19.14	29
1977	19.92	28	20.16	22	18.83	35	19.95	14	19.17	28
1978	21.68	19	21.40	12	19.23	32	20.21	11	19.28	24
1979	20.38	25	20.66	19	20.51	13	20.35	8	19.36	19
1980	15.50	55	19.19	30	20.02	19	19.89	17	19.30	22
1981	18.46	35	18.11	42	19.19	33	19.42	24	19.35	21
1982	25.50	5	19.82	25	20.30	14	19.57	20	19.62	13
1983	17.27	48	20.41	20	19.42	30	19.32	27	19.64	12
1984	20.21	26	20.99	15	19.39	31	19.95	15	19.88	5
1985	12.49	65	16.66	52	18.79	36	19.40	25	19.64	11
1986	24.04	10	18.91	33	19.90	22	19.55	21	19.91	3
1987	15.58	54	17.37	48	17.92	40	19.11	29	19.70	9
1988	12.55	64	17.39	47	16.97	52	18.20	41	19.52	14
1989	17.28	47	15.13	60	16.39	57	17.89	45	19.51	15
1990	18.97	34	16.26	57	17.68	43	18.23	39	19.68	10
1991	23.00	14	19.75	27	17.47	47	18.69	34	20.03	2
1992	17.45	44	19.81	26	17.85	41	17.88	46	19.72	7
1993	24.22	9	21.56	9	20.18	17	18.58	36	19.70	8
1994	14.15	58	18.60	37	19.56	28	17.97	44	19.49	17
1995	26.04	3	21.47	10	20.97	10	19.33	26	19.50	16
1996	25.47	6	21.88	8	21.46	6	19.47	23	19.75	6
1997	27.21	1	26.24	1	23.41	1	20.63	6	19.90	4
1998	23.44	12	25.37	2	23.26	2	21.72	2	20.04	1
Count	68		66		64		59		39	
Maximum	27.21		26.24		23.41		21.99		20.04	
Minimum	9.78		12.74		13.62		15.29		17.29	
Mean	18.98		--		--		--		--	

Table D6. Moving average precipitation values, in inches, and ranks for Custer County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	13.81	57	--	--	--	--	--	--	--	--
1932	21.35	11	--	--	--	--	--	--	--	--
1933	21.19	13	18.78	20	--	--	--	--	--	--
1934	10.05	68	17.53	39	--	--	--	--	--	--
1935	18.25	31	16.50	43	16.93	41	--	--	--	--
1936	11.19	66	13.16	65	16.41	48	--	--	--	--
1937	14.28	55	14.57	61	14.99	60	--	--	--	--
1938	16.84	40	14.10	63	14.12	63	--	--	--	--
1939	13.74	59	14.95	57	14.86	61	--	--	--	--
1940	13.76	58	14.78	60	13.96	64	15.45	58	--	--
1941	20.35	20	15.95	47	15.79	52	16.10	49	--	--
1942	21.24	12	18.45	27	17.19	39	16.09	50	--	--
1943	18.51	30	20.03	8	17.52	33	15.82	55	--	--
1944	17.29	35	19.01	17	18.23	24	16.54	45	--	--
1945	17.31	34	17.70	37	18.94	13	16.45	46	--	--
1946	20.69	17	18.43	28	19.01	11	17.40	35	--	--
1947	20.87	15	19.62	12	18.93	14	18.06	16	--	--
1948	15.46	49	19.01	18	18.32	21	17.92	20	--	--
1949	17.02	38	17.78	34	18.27	23	18.25	12	--	--
1950	13.92	56	15.47	51	17.59	30	18.27	11	--	--
1951	15.84	46	15.59	50	16.62	47	17.81	26	--	--
1952	15.32	50	15.03	55	15.51	55	17.22	37	--	--
1953	14.63	53	15.26	54	15.35	57	16.83	42	--	--
1954	11.63	64	13.86	64	14.27	62	16.27	48	--	--
1955	18.66	28	14.97	56	15.22	58	16.40	47	--	--
1956	15.53	48	15.28	53	15.16	59	15.89	54	--	--
1957	20.04	22	18.08	31	16.10	50	15.81	56	--	--
1958	17.57	33	17.71	36	16.69	46	16.02	51	--	--
1959	16.30	42	17.97	33	17.62	29	15.95	52	--	--
1960	10.40	67	14.76	61	15.97	51	15.59	57	16.43	37
1961	12.54	62	13.08	66	15.37	56	15.26	59	16.39	39
1962	21.90	10	14.95	58	15.74	53	15.92	53	16.41	38
1963	22.87	7	19.10	16	16.80	43	16.75	44	16.47	36
1964	16.03	45	20.27	7	16.75	44	17.18	39	16.67	35
1965	22.71	8	20.54	6	19.21	8	17.59	31	16.81	34
1966	15.83	47	18.19	30	19.87	5	17.62	29	16.97	33

Table D6. Moving average precipitation values, in inches, and ranks for Custer County (within the Black Hills study area)—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	20.67	18	19.74	10	19.62	7	17.68	28	17.18	31
1968	19.47	25	18.66	24	18.94	12	17.87	24	17.27	27
1969	16.52	41	18.89	19	19.04	10	17.89	23	17.36	23
1970	17.00	39	17.67	38	17.90	26	18.55	8	17.47	19
1971	20.55	19	18.02	32	18.84	15	19.36	3	17.48	18
1972	20.04	21	19.20	15	18.72	16	19.17	4	17.44	21
1973	18.57	29	19.72	11	18.54	18	18.74	7	17.44	20
1974	12.13	63	16.91	41	17.66	28	18.35	9	17.27	28
1975	16.29	43	15.66	49	17.52	34	17.71	27	17.23	30
1976	20.76	16	16.39	44	17.56	32	18.20	13	17.24	29
1977	19.10	26	18.72	22	17.37	37	18.04	17	17.18	32
1978	20.03	23	19.96	9	17.66	27	18.10	15	17.33	26
1979	17.14	36	18.75	21	18.66	17	18.16	14	17.33	25
1980	14.55	54	17.24	40	18.31	22	17.92	21	17.35	24
1981	17.03	37	16.24	46	17.57	31	17.56	33	17.39	22
1982	23.48	5	18.35	29	18.45	19	17.91	22	17.67	15
1983	14.94	52	18.48	26	17.43	36	17.54	34	17.68	14
1984	19.75	24	19.39	13	17.95	25	18.31	10	17.95	9
1985	11.56	65	15.42	52	17.35	38	17.83	25	17.71	13
1986	22.00	9	17.77	35	18.35	20	17.96	19	17.93	10
1987	15.27	51	16.28	45	16.71	45	17.58	32	17.77	12
1988	12.95	61	16.74	42	16.31	49	16.87	41	17.61	16
1989	16.24	44	14.82	59	15.60	54	16.78	43	17.61	17
1990	18.99	27	16.06	48	17.09	40	17.22	38	17.90	11
1991	20.89	14	18.71	23	16.87	42	17.61	30	18.18	4
1992	18.11	32	19.33	14	17.44	35	17.07	40	18.05	7
1993	24.17	3	21.06	5	19.68	6	17.99	18	18.09	6
1994	13.55	60	18.61	25	19.14	9	17.37	36	18.01	8
1995	27.33	1	21.68	3	20.81	4	18.95	6	18.16	5
1996	23.28	6	21.38	4	21.29	3	19.08	5	18.41	3
1997	24.72	2	25.11	1	22.61	1	20.02	2	18.55	2
1998	23.91	4	23.97	2	22.56	2	21.12	1	18.69	1
Count	68		66		64		59		39	
Maximum	27.33		25.11		22.61		21.12		18.69	
Minimum	10.05		13.08		13.96		15.26		16.39	
Mean	17.73		--		--		--		--	

Table D7. Moving average precipitation values, in inches, and ranks for Fall River County (within the Black Hills study area)

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1931	13.82	52	--	--	--	--	--	--	--	--
1932	19.66	13	--	--	--	--	--	--	--	--
1933	20.68	8	18.05	13	--	--	--	--	--	--
1934	11.95	63	17.43	19	--	--	--	--	--	--
1935	20.24	9	17.62	18	17.27	16	--	--	--	--
1936	9.80	67	14.00	57	16.47	25	--	--	--	--
1937	14.85	39	14.96	50	15.50	47	--	--	--	--
1938	16.51	34	13.72	60	14.67	54	--	--	--	--
1939	11.58	66	14.31	53	14.60	55	--	--	--	--
1940	13.57	54	13.89	59	13.26	63	15.27	50	--	--
1941	20.01	10	15.05	46	15.30	49	15.88	40	--	--
1942	21.47	7	18.35	11	16.63	23	16.07	30	--	--
1943	17.92	27	19.80	3	16.91	19	15.79	45	--	--
1944	18.13	25	19.17	4	18.22	7	16.41	19	--	--
1945	16.00	36	17.35	21	18.70	3	15.98	36	--	--
1946	19.22	15	17.78	15	18.55	4	16.93	10	--	--
1947	19.95	11	18.39	10	18.24	6	17.44	5	--	--
1948	16.51	35	18.56	8	17.96	9	17.43	6	--	--
1949	14.84	41	17.10	27	17.30	15	17.76	2	--	--
1950	12.66	58	14.67	51	16.64	22	17.67	4	--	--
1951	14.39	42	13.97	58	15.67	44	17.11	8	--	--
1952	12.50	60	13.19	62	14.18	58	16.21	25	--	--
1953	12.34	61	13.08	64	13.35	62	15.65	47	--	--
1954	11.71	65	12.18	65	12.72	64	15.01	52	--	--
1955	18.31	22	14.12	55	13.85	60	15.24	51	--	--
1956	12.64	59	14.22	54	13.50	61	14.59	53	--	--
1957	18.62	19	16.53	33	14.73	53	14.45	56	--	--
1958	16.88	33	16.05	38	15.63	45	14.49	54	--	--
1959	14.37	43	16.63	31	16.17	30	14.44	57	--	--
1960	8.24	68	13.16	63	14.15	59	14.00	58	15.65	29
1961	12.81	56	11.81	66	14.18	57	13.84	59	15.61	32
1962	18.91	17	13.32	61	14.24	56	14.48	55	15.59	34
1963	22.05	5	17.93	14	15.28	50	15.45	49	15.63	30
1964	14.05	48	18.34	12	15.21	51	15.69	46	15.70	26
1965	19.61	14	18.57	7	17.49	13	15.82	43	15.68	28
1966	14.35	44	16.01	39	17.80	11	15.99	35	15.83	25

Table D7. Moving average precipitation values, in inches, and ranks for Fall River County (within the Black Hills study area)—Continued

[--, not applicable]

Water year	1-year		3-year		5-year		10-year		30-year	
	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank	Precipitation average	Rank
1967	19.05	16	17.67	17	17.82	10	16.03	31	15.97	19
1968	18.41	20	17.27	23	17.09	18	16.19	27	16.04	16
1969	12.67	57	16.71	29	16.82	20	16.02	34	16.07	14
1970	14.22	46	15.10	45	15.74	43	16.61	14	16.10	13
1971	18.75	18	15.21	42	16.62	24	17.21	7	16.05	15
1972	15.45	38	16.14	36	15.90	35	16.86	12	15.85	24
1973	17.96	26	17.38	20	15.81	41	16.45	17	15.85	23
1974	13.05	55	15.49	41	15.89	36	16.35	20	15.68	27
1975	14.07	47	15.03	48	15.86	39	15.80	44	15.62	31
1976	18.28	23	15.13	43	15.76	42	16.19	26	15.59	33
1977	17.41	29	16.59	32	16.15	31	16.03	33	15.50	39
1978	17.53	28	17.74	16	16.07	33	15.94	39	15.54	37
1979	14.04	49	16.33	35	16.27	28	16.08	29	15.51	38
1980	13.78	53	15.12	44	16.21	29	16.03	32	15.55	35
1981	14.29	45	14.04	56	15.41	48	15.59	48	15.55	36
1982	22.45	2	16.84	28	16.42	26	16.29	21	15.88	22
1983	14.85	40	17.20	24	15.88	37	15.98	37	15.96	21
1984	18.19	24	18.49	9	16.71	21	16.49	16	16.18	11
1985	11.92	64	14.98	49	16.34	27	16.27	22	15.96	20
1986	19.78	12	16.63	30	17.44	14	16.42	18	16.20	10
1987	15.55	37	15.75	40	16.06	34	16.24	23	16.10	12
1988	13.88	51	16.40	34	15.86	38	15.88	41	16.00	17
1989	13.98	50	14.47	52	15.02	52	15.87	42	15.99	18
1990	17.26	30	15.04	47	16.09	32	16.22	24	16.29	9
1991	17.06	31	16.10	37	15.55	46	16.50	15	16.43	4
1992	17.03	32	17.12	25	15.84	40	15.95	38	16.37	7
1993	22.32	4	18.81	5	17.53	12	16.70	13	16.38	5
1994	11.99	62	17.11	26	17.13	17	16.08	28	16.31	8
1995	21.61	6	18.64	6	18.00	8	17.05	9	16.37	6
1996	18.38	21	17.32	22	18.27	5	16.91	11	16.51	3
1997	23.39	1	21.12	2	19.54	2	17.69	3	16.65	2
1998	22.34	3	21.37	1	19.54	1	18.54	1	16.78	1
Count	68		66		64		59		39	
Maximum	23.39		21.37		19.54		18.54		16.78	
Minimum	8.24		11.81		12.72		13.84		15.50	
Mean	16.35		--		--		--		--	