

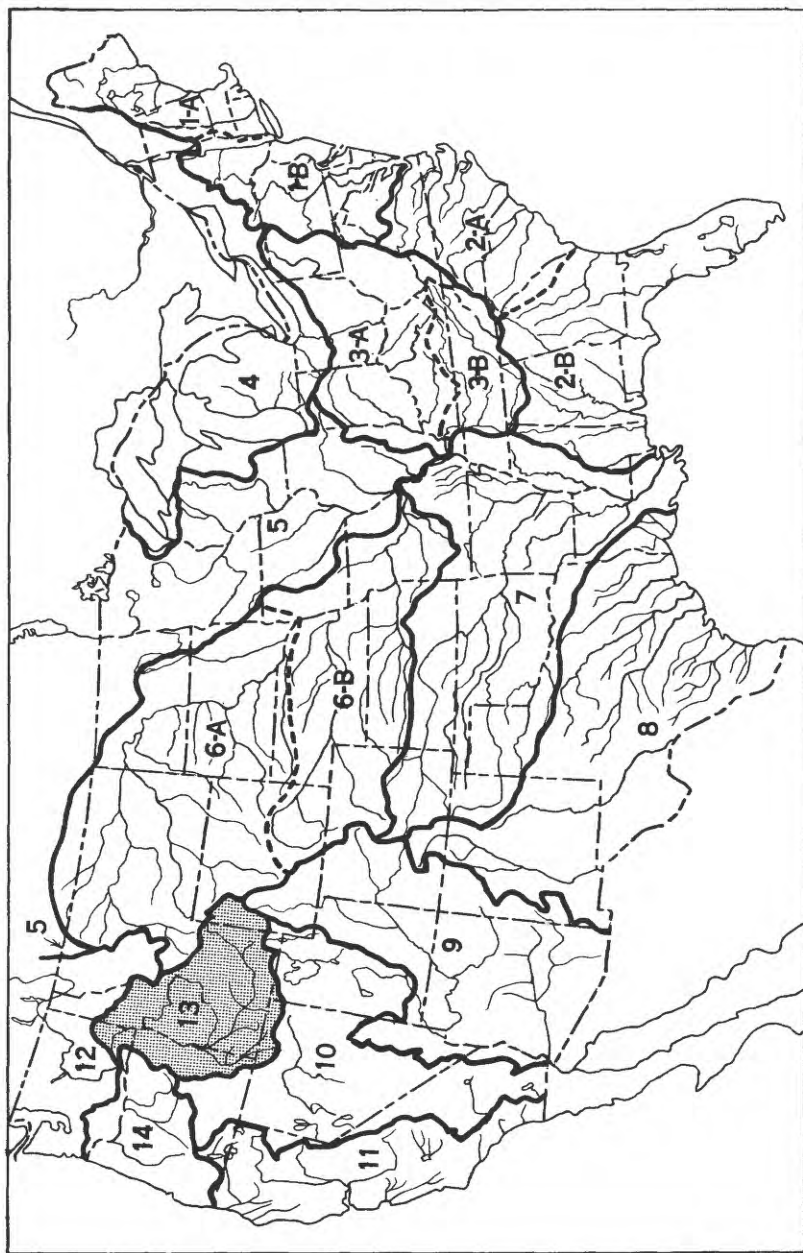


Figure 1.--Map of the United States showing areas covered by the 18 annual volumes on surface-water supply. The area covered by this report is shaded.

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams.

Streamflow data for the years 1844-1901, in reports of the Geological Survey

(A = Annual Report; B = Bulletin)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only.	
11th A, pt. 2	Monthly discharge and descriptive information.....	1884 to September 1890.
12th A, pt. 2	do.....	1884 to June 30, 1891.
13th A, pt. 3	do.....	1884-92.
14th A, pt. 2	Monthly discharge.....	1888-95.
B 131.....	Descriptions, measurements, gage heights, and ratings.....	1893-94.
16th A, pt. 2	Descriptive information only.	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge.	1895.
WSP 11.....	Gage heights.....	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge..	1895-96.
WSP 15.....	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
WSP 16.....	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge.	1897.
WSP 27.....	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
WSP 28.....	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge.....	1898.
WSP 35 to 39.	Descriptions, measurements, gage heights, and ratings.....	1899.
21st A, pt. 4	Monthly discharge.....	1899.
WSP 47 to 52.	Descriptions, measurements, gage heights, and ratings.....	1900.
22d A, pt. 4.	Monthly discharge.....	1901.
WSP 65, 66..	Descriptions, measurements, gage heights, and ratings.....	1901.
WSP 75.....	Monthly discharge.....	1901.

Note.--Records for all stations in Oregon are contained in WSP 370, superseding all reports in this table for these stations.

Reports on surface-water supply containing records from 1899 to date for drainage basins in this report are listed below. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained.

Numbers of water-supply papers containing results of stream measurements in Snake River basin, 1899-1956

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1899	38	1912	332-B	1925	613	1937	833	1949	1153
1900	51	1913	342-B	1926	633	1938	863	1950	1183
1901	66, 75	1914	393	1927	653	1939	883	1951	1217
1902	85	1915	413	1928	673	1940	903	1952	1247
1903	100	1916	443	1929	693	1941	933	1953	1287
1904	135	1917	463	1930	708	1942	963	1954	1347
1905	178	1918	483	1931	723	1943	983	1955	1397
1906	214	1919-20	513	1932	738	1944	1013	1956	1447
1907-8	252	1921	533	1933	753	1945	1043	1957	1517
1909	272	1922	553	1934	768	1946	1063	1958	1567
1910	292	1923	573	1935	793	1947	1093		
1911	312	1924	593	1936	813	1948	1123		

Note.--Records for all stations in Oregon through September 1910 are contained in WSP 370, superseding all earlier reports for these stations.

A compilation of records for the area covered by this report through September 1950 has been published as Water-Supply Paper 1317. That report contains a summary of monthly and annual discharges for all previously published records as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical.

The reports listed in the foregoing tables contain the customary records of discharge collected during the systematic operation of gaging stations. Detailed information on the stage and discharge of many streams during major floods has been included in special reports on these floods published by the Geological Survey. The more recent of these

special reports also contain other pertinent hydrologic information and analyses and compilations of data relating to earlier notable floods. The following list gives the numbers and titles of these reports:

Report

WSP 771: Floods in the United States, magnitude and frequency.
 WSP 847: Maximum discharges at stream-measurement stations through September 1938.
 WSP 1080: Floods of May-June 1948 in Columbia River basin.
 WSP 1260-F: Summary of floods in the United States during 1952.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The table below contains a list of gaging stations for the area covered by this report, at which records of discharge were collected during the water year October 1957 to September 1958 by agencies other than the Geological Survey. The records of these stations are not contained in publications of the Geological Survey.

Records of discharge collected by agencies other than the Geological Survey			
Stream	Location	Period	Collected by
American Falls Reservoir, inflow to.	Near American Falls, Idaho.....	1927-28, 1932-58	Idaho Water District 36.
Malheur River.....	SW $\frac{1}{4}$ sec. 32, T.20 S., R.41 E., near Namorf, Oreg.	1931-58†	Oregon State engineer.
Snake River tributaries...	Near Irwin, Idaho.....	1940-58‡	Idaho Water District 36.
Teton basin tributaries...	Near Driggs, Idaho.....	1934-58‡	Do.
Wolf Creek.....	SE $\frac{1}{4}$ sec. 11, T.6 S., R.38 E., 5 miles northwest of North Powder, Oreg. and 6 $\frac{1}{2}$ miles up- stream from mouth.	1953-58†	Soil Conservation Service.

† Records for some earlier years published in water-supply papers of the Geological Survey.

‡ Fragmentary.

Note.—Of the records for the stations operated by the Oregon State engineer, those for 1931-36 (including some to December 1936) are published in Bulletin 9 of the State engineer and those for 1937-41 in Bulletin 10; those for 1942-58 have not been published. Records for some canals, not listed above, have been collected by the Oregon State engineer and the Bureau of Reclamation in connection with the water supply for irrigation and other projects.

HYDROLOGIC CONDITIONS

Runoff was above median during the water year in most of the area covered by this report except during April when runoff was generally below median. Flooding occurred in the Weiser River basin, Idaho, in February, where several streams approached maximum known stages, and Pine Creek near Cambridge reached a new peak of record. Below average temperatures in April delayed melting from the higher elevation snowfields in central Idaho. May temperature was far above average and runoff accelerated to produce mean monthly flows higher than any other month of record in upper Big Wood River basin and in Boise River basin above Arrowrock Reservoir. Peak flows, highest of record or near the maximum of record, occurred in some tributaries in the upper Big Lost, Big Wood, and South Fork of Boise River drainages during May. Runoff was below median in upper Snake River basin during July, August, and September. However, as a result of return flow from ample irrigation supplies in southern Idaho, mean monthly flow at Snake River at Weiser during August and September reached within 2 percent of the maximum of record for these months. For two key gaging stations in the area covered by this report, a comparison of the monthly and annual mean discharge during the 1958 water year with the median discharge for the 25-year period (1921-45) is shown in figure 2 on the following page.

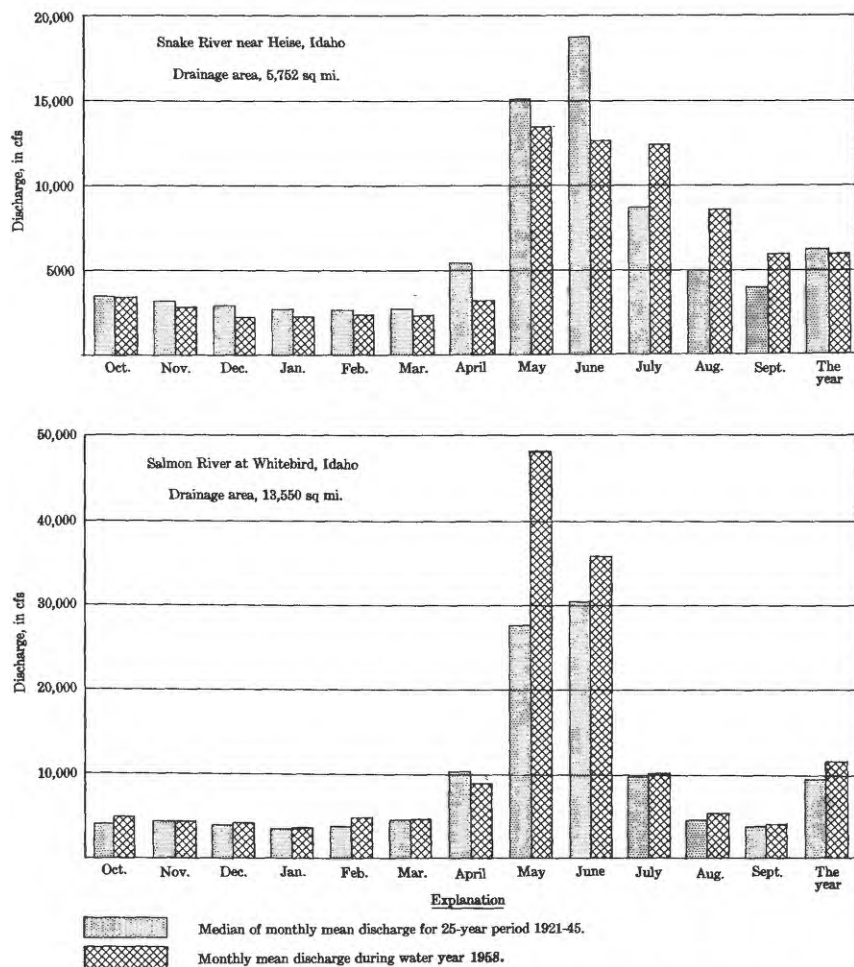


Figure 2. Comparison of discharge at two key gaging stations during 1958 water year with median discharge for 25-year period.

