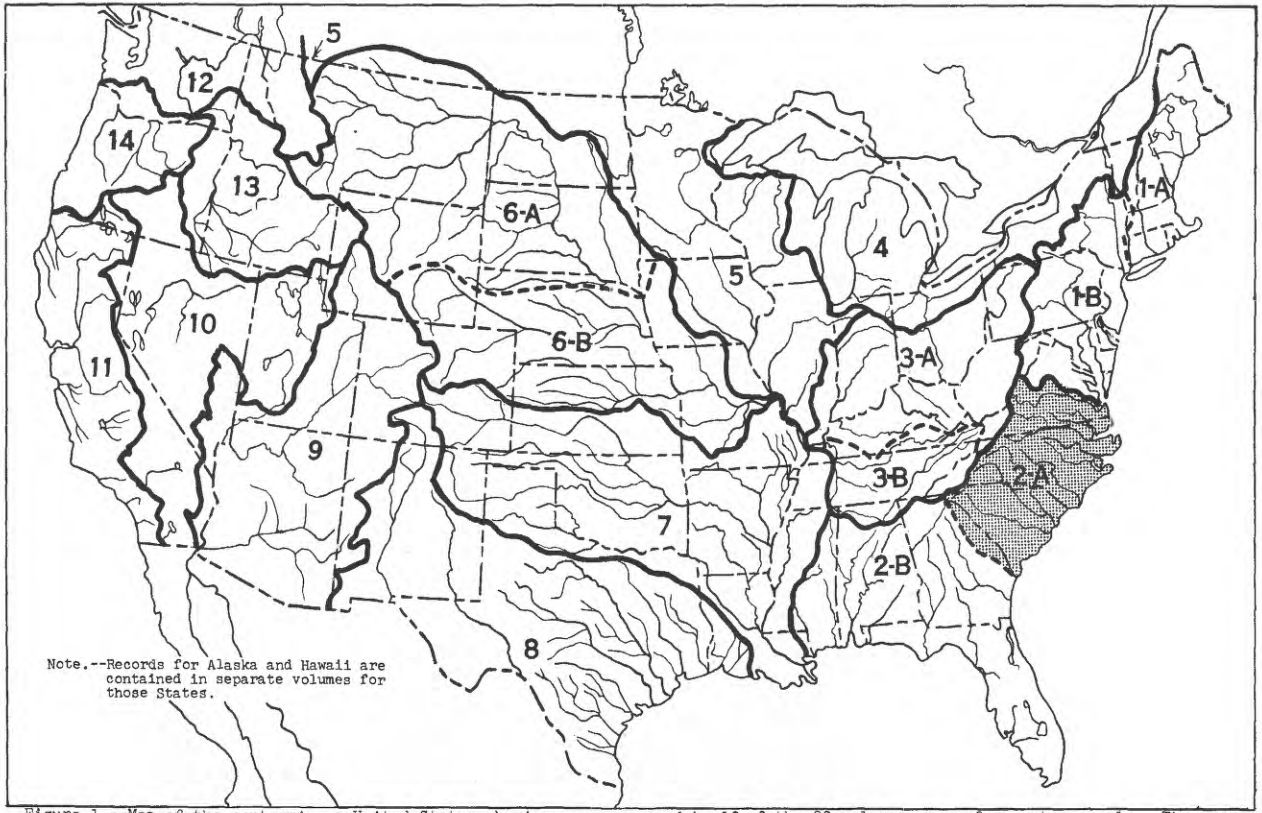

Figure 1.--Map of the conterminous United States showing areas covered by 18 of the 20 volumes on surface water supply. The area covered by this report is shaded.

Streamflow data for the years 1884-1901, 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.....	1888-93.
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.....	1900.
WSP 65, 66....	Descriptions, measurements, gage heights, and ratings.....	1901.
WSP 75.....	Monthly discharge.....	1901.

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. Before 1951, records for the South Atlantic slope basins, James River to Savannah River, were included with those for the South Atlantic slope and eastern Gulf of Mexico basins.

Numbers of water-supply papers containing results of stream measurements in the South Atlantic slope basins, James River to Savannah River, 1899-1960

Year	WSP	Year	WSP	Year	WSP	Year	WSP	Year	WSP
1899	a35, 36	1912	322	1925	602	1937	822	1949	1142
1900	48	1913	352	1926	622	1938	852	1950	1172
1901	65, 75	1914	382	1927	642	1939	872	1951	1203
1902	a82, 83	1915	402	1928	662	1940	892	1952	1233
1903	a97, 98	1916	432	1929	682	1941	922	1953	1273
1904	b126, 127	1917	452	1930	697	1942	952	1954	1333
1905	b167, 168	1918	472	1931	712	1943	972	1955	1383
1906	b203, 204	1919-20	502	1932	727	1944	1002	1956	1433
1907-8	242	1921	522	1933	742	1945	1032	1957	1503
1909	262	1922	542	1934	757	1946	1052	1958	1553
1910	282	1923	562	1935	782	1947	1082	1959	1623
1911	302	1924	582	1936	802	1948	1112	1960	1703

a James River to Yadkin River.
b Susquehanna River to Yadkin River.

A compilation of records for the area covered by this report through September 1950 has been published as Water-Supply Paper 1303. 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 96: Destructive floods in the United States in 1903.
WSP 771: Floods in the United States, magnitude and frequency.
WSP 800: The floods of March 1936, Part 3, Potomac, James, and upper Ohio Rivers.
WSP 846: Maximum discharges at stream-measurement stations through September 1938.

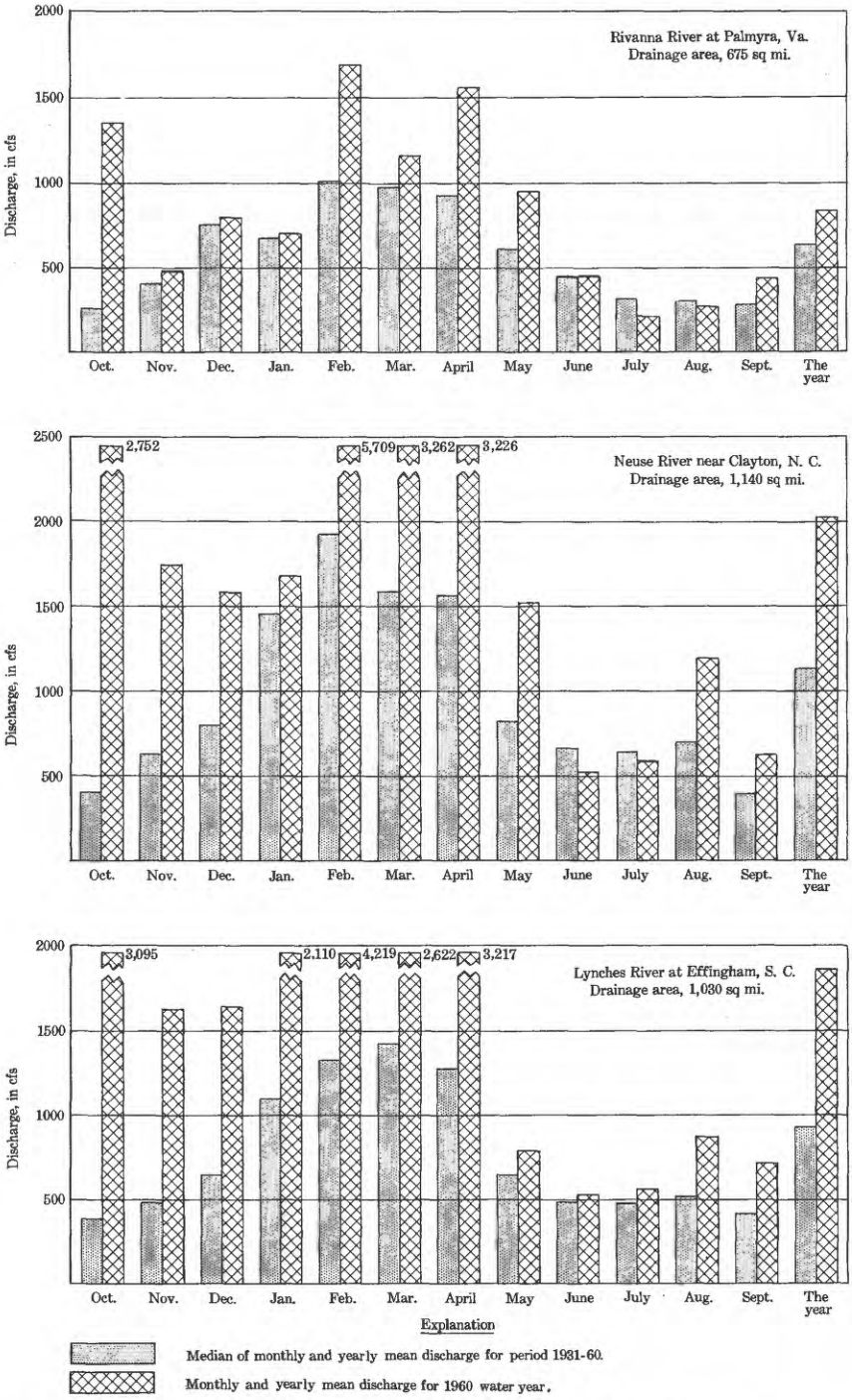

Figure 2. Comparison of discharge at three long-term representative gaging stations during 1960 water year with median discharge for period 1931–60.

JAMES RIVER BASIN

125. Jackson River at Falling Spring, Va.

Location.--Lat 37°52'36", long 79°58'39", on right bank 20 ft upstream from Smith Bridge, 0.8 mile south of town of Falling Spring, Alleghany County, 1.6 miles downstream from Falling Springs Creek, and 5.5 miles north of Covington.

Drainage area.--409 sq mi.

Records available.--April 1925 to September 1960. Prior to October 1934, published as "at Barber."

Gage.--Water-stage recorder. Datum of gage is 1,333.49 ft above mean sea level (levels by Corps of Engineers). Prior to Oct. 26, 1934, chain gage at same site and datum.

Average discharge.--35 years, 482 cfs.

Extremes.--Maximum discharge during year, 12,100 cfs Mar. 30 (gage height, 11.63 ft); minimum, 93 cfs Sept. 10 (gage height, 3.14 ft).
1925-60: Maximum discharge, 24,700 cfs Mar. 17, 1936 (gage height, 14.74 ft), from rating curve extended above 13,000 cfs on basis of records for other stations in James River basin; minimum, 36 cfs Oct. 12, 1946; minimum daily, 58 cfs Sept. 28-30, Oct. 1, 3, 5, 1930.

Remarks.--Records good.

Revisions (water years).--WSP 952: 1927, 1928(M), 1929-30, 1932-40. WSP 1303: 1926(M), 1930-34(M).

Rating tables, water year 1959-60 (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to Nov. 25		Nov. 26 to Sept. 30			
3.3	145	3.1	85	7.0	2,170
4.0	355	3.5	185	8.0	3,120
5.0	755	4.0	345	9.0	5,000
6.0	1,350	4.5	520	11.0	10,000
7.0	2,160	5.0	770		

Discharge, in cubic feet per second, water year October 1959 to September 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*1,670	299	640	560	362	394	3,920	266	928	203	122	152
2	637	273	524	485	348	362	2,620	266	800	236	128	135
3	397	*252	460	918	324	376	2,130	254	895	215	108	125
4	292	243	404	1,560	*296	373	6,200	242	710	176	101	120
5	234	237	356	1,120	506	338	5,360	236	596	155	103	110
6	195	270	328	830	1,750	320	2,970	233	650	*140	110	105
7	175	334	334	688	1,380	275	2,090	233	*528	130	110	103
8	165	338	300	582	1,020	260	1,560	2,760	454	122	122	*99
9	240	327	266	499	830	248	1,220	3,220	401	118	125	97
10	243	296	248	440	770	275	992	1,640	352	118	110	110
11	201	273	236	412	3,100	260	800	1,160	317	128	118	587
12	172	249	1,100	380	2,170	269	682	895	300	122	105	485
13	155	231	2,000	366	1,460	230	592	928	300	118	328	300
14	298	216	1,400	426	1,190	239	528	830	292	112	306	218
15	481	207	*1,000	764	862	269	488	710	331	108	289	167
16	390	195	740	1,460	677	331	460	610	282	103	*233	142
17	310	192	592	1,060	630	352	436	544	245	99	179	130
18	261	188	625	830	850	502	408	496	224	101	150	251
19	225	175	1,090	770	1,190	520	380	443	203	125	138	440
20	198	168	960	620	740	520	348	404	191	140	130	338
21	180	162	740	532	645	474	331	387	182	135	122	289
22	168	160	610	471	587	440	328	352	182	115	132	236
23	162	180	506	426	520	412	310	331	185	105	132	206
24	395	1,370	450	394	496	*408	289	320	182	99	122	176
25	925	2,070	415	356	496	520	*275	292	185	99	118	155
26	642	1,220	390	342	478	532	269	314	173	97	110	140
27	507	800	380	328	436	800	317	1,980	152	118	110	132
28	456	800	370	331	412	2,020	314	4,660	142	138	110	125
29	400	1,090	720	334	418	5,000	282	2,430	152	118	108	122
30	352	862	895	348	-------	9,480	263	2,130	164	108	110	128
31	320	-------	694	362	-------	8,440	-------	1,250	-------	103	140	-------
Total	11,446	13,677	19,773	18,994	24,943	35,239	37,162	30,816	10,698	4,004	4,429	5,923
Mean	369	456	638	613	860	1,137	1,239	994	357	129	143	197
Cfsm	0.902	1.11	1.56	1.50	2.10	2.78	3.03	2.43	0.873	0.315	0.350	0.482
In.	1.04	1.24	1.80	1.73	2.27	3.20	3.38	2.80	0.97	0.36	0.40	0.54

Calendar year 1959: Max 4,330 Min 85 Mean 433 Cfsm 1.06 In. 14.36
Water year 1959-60: Max 9,480 Min 97 Mean 593 Cfsm 1.45 In. 19.73

Peak discharge (base, 4,000 cfs).--Feb. 11 (1:30 p.m.) 4,340 cfs (8.70 ft); Mar. 30 (6 p.m.) 12,100 cfs (11.63 ft); Apr. 4 (10 a.m.) 7,400 cfs (10.04 ft); May 8 (10:30 a.m.) 5,720 cfs (9.32 ft); May 28 (10:30 a.m.) 6,680 cfs (9.74 ft).

* Discharge measurement made on this day.