
Appendix D

Water-year peak-flow and stage data at gaging stations in South Carolina on regulated streams and on streams draining more than one physiographic province through 1999

The following tables contain flood data for streamflow gaging stations in South Carolina that are regulated and (or) drain more than one physiographic province. The tables contain a brief description of the gage location, type of gage, gage datum (if known), drainage area in square miles, period of record, extreme flows of record, a description of how the stage-discharge relation was obtained, historical data, hydrologic unit number¹, and explanatory remarks.

The log-Pearson Type III flood-frequency data are given for unregulated sites that drain more than one physiographic province using either a weighted or station skew coefficient, and adjusted for historic peaks, high and low outliers, and truncated or incomplete record, are given for most stations with 10 or more years of record.

The tables of peak stages and discharges show only the annual maximums. Underlined data in these tables signify the following:

1. An underlined entry in the “Water Year” column indicates discontinuous record.
2. An underlined entry in the “Gage Height” column indicates a change in gage datum and means that the gage heights above and below the line are not comparable.
3. Underlined entries in the “Date” and “Discharge” columns indicate a change in the site location that significantly affects the stage-discharge relation.

[Lat, latitude; long, longitude; ft, feet; mi, mile; mi², square miles; ft³/s, cubic feet per second; ---, data not available; a, peak stage occurred at a different time than peak discharge; b, historic peak; WSP, Water-Supply Paper]

Water year is the 12-month period beginning October 1 and ending on September 30 of any given year, and designated by the calendar year in which the water year ends.

¹ The hydrologic unit number is determined from a set of maps developed by the U.S. Geological Survey that depict the approved boundaries of river-basin units of the United States and documented in U.S. Geological Survey Water-Supply Paper 2294 by P.R. Seaber, F.P. Kapinos, and G.L. Knapp (1987). These maps and associated codes provide a standardized base for use by water-resources organizations in locating, storing, retrieving, and exchanging hydrologic data; indexing and inventorying of hydrologic data and information; cataloging of water-data acquisition activities; and a variety of other applications.

PEE DEE RIVER BASIN

02130500 JUNIPER CREEK NEAR CHERAW, S.C.

LOCATION.--Lat 34°39'00", long 79°54'00", Chesterfield County, Hydrologic Unit 03040201, at left end of Eureka Lake Dam, 1.5 mi upstream from mouth and 3.5 mi south of Cheraw.

DRAINAGE AREA.--64 mi², approximately.

PERIOD OF RECORD.--May 1940 to September 1958.

GAGE.--Water-stage recorder and concrete spillway. Altitude of gage is 90 ft (from U.S. Army Corps of Engineers maps.)

REMARKS.--Regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,910 ft³/s on Sept. 18, 1945, gage height, 5.71 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 810 ft³/s and graphically extended on logarithmic plotting paper and using a computation of flow over dam at 3,190 ft³/s.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1941	July 15	1.33	395	1947	Oct. 10	1.32	369	1953	June 9	2.30	880
1942	Aug. 20	1.22	332	1948	Feb. 15	1.41	430	1954	Dec. 15	1.20	316
1943	Jan. 20	1.12	295	1949	May 2	1.50	459	1955	Oct. 17	1.01	235
1944	Mar. 22	1.10	286	1950	Nov. 3	1.00	224	1956	Sept. 15	---	360
1945	Sept. 18	5.71	3,910	1951	Sept. 8	1.34	392	1957	Sept. 12	1.20	316
1946	May 5	1.30	410	1952	Sept. 1	2.05	778	1958	July 22	1.92	712

PEE DEE RIVER BASIN

02130800 BACK SWAMP NEAR DARLINGTON, S.C.

LOCATION.-- Lat 34°18'11", long 79°46'07", Darlington County, Hydrologic Unit 03040201, near a culvert on State Secondary Road 35, 0.8 mi northeast of State Secondary Road 173, 4.9 mi southeast of S.C. Highway 34, and 6.0 mi southeast of Darlington.

DRAINAGE AREA.--6.22 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Crest-stage partial-record station. Approximate elevation of gage is 100 ft (from topographic map).

REMARKS.-- Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD -- Maximum discharge, 800 ft³/s, Dec. 24, 1994, gage height, 12.21 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 150 ft³/s and extended based on indirect-discharge computations.

<u>FLOOD-FREQUENCY DATA (ft³/s)</u>	<u>LOG-PEARSON TYPE III STATISTICS (LOG UNITS)</u>		
<u>22 YEARS OF RECORD</u>	Mean	=	2.060
<u>LOG-PEARSON TYPE III</u>	Standard Deviation	=	0.344
	Station Skew	=	0.384
Q ₂ =	109		
Q ₅ =	219		
Q ₁₀ =	325		
Q ₂₅ =	507		
Q ₅₀ =	683		
Q ₁₀₀ =	902		
Q ₂₀₀ =	1,170		
Q ₅₀₀ =	1,620		

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1976	June 23	5.30	87.0	1984	April 5	5.85	82.0	1992	Aug. 23	6.81	136
1977	Aug. 2	5.71	103	1985	Aug. 18	5.45	62.0	1993	Jan. 15	7.98	220
1978	Jan. 26	5.52	96.0	1986	Mar. 20	8.82	281	1994	Sept. 18	6.45	117
1979	Feb. 24	6.48	139	1987	Feb. 28	6.96	146	1995	Dec. 24	12.21	800
1980	Nov. 26	8.04	228	1988	May 6	5.04	41.0	1996	Mar. 9	6.09	106
1981	Aug. 11	4.68	66.0	1989	July 26	4.78	23.5	1997	Jan. 9	9.92	1...
1982	June 5	5.35	89.0	1990	Feb. 28	5.21	51.0	1998	Nov. 22	9.67	1...
1983	April 10	8.59	267	1991	Oct. 11	5.23	52.0	1999	May 3	9.29	312

¹Affected by backwater.

PEE DEE RIVER BASIN

02130910 BLACK CREEK NEAR HARTSVILLE, S.C.

LOCATION.--Lat 34°23'50", long 80°09'00", Darlington County, Hydrologic Unit 03040201, at downstream side of bridge on State Road 23, 1,000 ft downstream from dam at H. B. Robinson Steam Electric Plant, 2.1 mi upstream from Beaverdam Creek, 4.6 mi west of Hartsville, and at mile 49.9.

DRAINAGE AREA.--173 mi².

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Data collection platform. Datum of gage is 177.48 ft above sea level.

REMARKS.--Some regulation by storage in Lake Robinson above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,450 ft³/s, Oct. 13, 1990, gage height, 12.35 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 1,080 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1961	Feb. 25	8.82	1,060	1974	Aug. 9	7.40	624	1987	Mar. 3	8.56	1,160
1962	Mar. 14	7.93	860	1975	July 17	9.52	1,740	1988	Jan. 25	6.24	347
1963	Jan. 22	8.10	950	1976	June 27	6.97	541	1989	Mar. 28	7.20	605
1964	Mar. 18	8.17	896	1977	Mar. 25	7.67	770	1990	Oct. 5	8.44	661
1965	Oct. 19	8.23	924	1978	Jan. 26	7.69	776	1991	Oct. 13	12.35	4,450
1966	Mar. 7	7.60	668	1979	Feb. 27	8.59	1,170	1992	Aug. 22	6.63	370
1967	Aug. 26	7.67	692	1980	Mar. 31	8.57	1,160	1993	Jan. 9	8.46	1,020
1968	Jan. 12	7.85	760	1981	Aug. 6	6.99	510	1994	Mar. 2	7.34	570
1969	June 24	7.93	792	1982	Jan. 7	8.94	1,360	1995	Feb. 17	8.43	1,030
1970	Mar. 23	7.21	505	1983	Mar. 20	8.47	984	1996	Mar. 12	6.65	442
1971	Aug. 18	10.08	2,010	1984	Dec. 7	7.86	741	1997	July 26	8.17	929
1972	Jan. 14	8.21	915	1985	Feb. 11	7.72	686	1998	Jan. 9	9.13	1,470
1973	June 22	8.34	988	1986	Nov. 22	7.11	481	1999	Jan. 24	7.97	887

PEE DEE RIVER BASIN

02131000 PEE DEE RIVER AT PEEDEE, S.C.

LOCATION.--Lat 34°12'15", long 79°32'55", Marion County, Hydrologic Unit 03040201, at downstream side of downstream bridge on U.S. Highway 76 at Pee Dee, 0.2 mi downstream from Seaboard Coast Line Railroad bridge, 8.2 mi downstream from Black Creek, and at mile 100.2.

DRAINAGE AREA.--8,830 mi², approximately.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1303. Prior to October 1947, published as "near Mars Bluff". Gage-height records collected at practically same site since 1923 are contained in reports of National Weather Service.

GAGE.--Data collection platform. Datum of gage is 24.73 ft above sea level. Prior to Oct. 1, 1947, at site 1.6 mi downstream at datum 1.27 ft lower.

REMARKS.--Flow regulated by six powerplants above station. Combined usable capacity of reservoirs, 3.08 x 10¹⁰ ft³.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 220,000 ft³/s, Sept. 22, 1945, gage height, 33.30 ft (site and datum then in use).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 89,800 ft³/s and extended on basis of discharge measurement of 221,000 ft³/s at a station at Cheraw, S.C., together with study of rainfall records, channel storage, and records for stations on nearby streams.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1939	Mar. 6	25.61	66,700	1960	Apr. 10	26.28	70,400	1980	Apr. 2	24.11	42,600
1940	Aug. 22	22.35	35,300	1961	Mar. 3	23.86	46,300	1981	July 3	18.72	19,000
1941	Apr. 9	19.32	17,400	1962	Jan. 14	22.98	39,300	1982	Jan. 9	22.75	34,100
1942	Mar. 15	22.26	34,400	1963	Mar. 20	24.54	53,400	1983	Mar. 25	24.59	46,000
1943	Feb. 3	22.31	34,400	1964	Apr. 14	23.95	47,600	1984	Apr. 4	26.55	65,200
1944	Mar. 26	24.32	51,800	1965	Oct. 23	26.01	62,100	1985	Aug. 29	21.74	29,600
1945	Sept. 22	33.30	220,000	1966	Mar. 10	25.28	57,000	1986	Nov. 28	21.99	30,900
1946	Jan. 4	23.76	45,400	1967	Aug. 29	20.84	26,300	1987	Mar. 7	29.06	96,500
1947	<u>Jan. 26</u>	<u>22.16</u>	<u>30,900</u>	1968	Jan. 19	23.01	36,900	1988	Jan. 20	19.48	20,100
1948	Feb. 19	26.23	69,300	1969	Feb. 27	21.78	32,500	1989	Mar. 30	24.45	47,500
1949	Dec. 5	24.12	47,800	1970	Aug. 19	21.69	31,800	1990	Oct. 9	26.53	50,300
1950	Nov. 7	21.22	25,600	1971	Mar. 10	23.98	47,900	1991	Oct. 30	26.73	51,600
1951	Apr. 14	20.36	21,600	1972	June 29	24.09	47,200	1992	Apr. 29	23.88	36,100
1952	Mar. 10	25.95	62,600	1973	Apr. 6	26.97	74,600	1993	Apr. 1	25.98	47,000
1953	Feb. 28	23.54	39,700	1974	Apr. 12	22.45	35,800	1994	Mar. 9	22.97	32,100
1954	Jan. 29	25.76	60,500	1975	Mar. 20	27.81	85,300	1995	Feb. 23	25.49	37,500
1955	Apr. 21	22.44	32,200	1976	June 26	20.49	23,100	1996	Feb. 7	22.80	29,200
1956	Mar. 22	20.46	22,000	1977	Dec. 20	22.56	36,500	1997	May 6	24.03	32,900
1957	Apr. 13	21.58	30,000	1978	Feb. 1	26.58	70,000	1998	Mar. 25	25.52	43,600
1958	Dec. 1	24.58	52,600	1979	Mar. 2	29.03	103,000	1999	Jan. 29	21.50	22,600
1959	Apr. 26	21.44	28,800								

PEE DEE RIVER BASIN

02131500 LYNCHES RIVER NEAR BISHOPVILLE, S.C.

LOCATION.--Lat 34°15'00", long 80°12'50", Lee County, Hydrologic Unit 03040202, near center of span on downstream side of bridge on U.S. Highway 15, 1.0 mi upstream from Seaboard Coast Line Railroad bridge, 2.9 mi northeast of Bishopville, 3.0 mi downstream from Bells Branch, and at mile 89.5.

DRAINAGE AREA.--675 mi².

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Water-stage recorder from May 1942 to September 1971. Partial-record crest gage from October 1971 to current year. Datum of gage is 155.59 ft above sea level.

REMARKS.-- Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, Sept. 19, 1945, gage height, 22.35 ft (from floodmark).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 11,300 ft³/s and extended by velocity-area studies.

FLOOD-FREQUENCY DATA (ft³/s)

52 YEARS OF RECORD

LOG-PEARSON TYPE III

Q₂ = 7,710
 Q₅ = 11,900
 Q₁₀ = 14,900
 Q₂₅ = 18,700
 Q₅₀ = 21,600
 Q₁₀₀ = 24,500
 Q₂₀₀ = 27,500
 Q₅₀₀ = 31,500

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

¹Mean = 3.881
¹Standard Deviation = 0.231
 Station Skew = -0.230

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1943	Jan. 21	15.66	7,210	1962	Mar. 14	16.25	10,200	1981	Feb. 23	13.60	4,250
1944	Mar. 22	17.43	12,400	1963	Jan. 23	14.89	6,680	1982	Jan. 5	15.69	8,380
1945	Sept. 19	22.35	29,400	1964	Mar. 18	16.86	12,200	1983	---	18.36	16,000
1946	Dec. 29	14.06	3,980	1965	Oct. 19	16.33	10,600	1984	Mar. 31	15.12	7,010
1947	Apr. 18	14.36	4,460	1966	Mar. 7	14.92	6,700	1985	Sept. 19	12.17	2,230
1948	Mar. 10	15.47	7,480	1967	Sept. 12	---	27,400	1986	Nov. 30	14.04	5,080
1949	Dec. 1	16.85	10,900	1968	Jan. 13	15.63	8,260	1987	Mar. 1	12.16	2,210
1950	Dec. 18	11.91	1,790	1969	Apr. 22	14.35	5,700	1988	Oct. 29	12.38	2,450
1951	Apr. 12	13.02	2,970	1970	Mar. 25	14.12	5,240	1989	July 26	13.09	3,410
1952	Sept. 3	18.06	15,000	1971	Mar. 6	16.28	9,700	1990	Oct. 10	15.84	8,560
1953	Feb. 19	13.86	4,350	1972	Apr. 4	11.79	1,860	1991	May 14	14.72	6,240
1954	Apr. 4	14.73	5,800	1973	Apr. 4	17.40	12,400	1992	Mar. 7	12.59	2,720
1955	Apr. 17	15.40	7,720	1974	Apr. 10	13.80	4,600	1993	Dec. 4	14.80	6,390
1956	Mar. 20	14.40	5,230	1975	July 16	15.99	8,980	1994	---	---	---
1957	May 15	13.97	4,520	1976	June 27	15.36	7,720	1995	Feb. 24	14.74	6,280
1958	Jan. 27	15.41	7,260	1977	Mar. 22	16.11	9,280	1996	---	---	---
1959	Apr. 15	14.75	6,400	1978	---	---	---	1997	---	---	---
1960	Apr. 7	15.68	7,960	1979	Feb. 25	18.26	15,600	1998	Mar. 24	17.03	11,600
1961	Feb. 27	15.90	9,320	1980	Nov. 12	15.86	8,720	1999	Feb. 2	13.22	3,610

¹Mean and standard deviation was adjusted according to Appendix 7 of Water Resources Council Bulletin 17B to adjust the record at Lynchess River near Bishopville, S.C. (Station 02131500) to the longer period of record at Lynchess River near Effingham, S.C. (Station 02132000).

²Estimated by hydrographic comparison with Station 02132000, Lynchess River at Effingham.

PEE DEE RIVER BASIN

02132000 LYNCHES RIVER NEAR EFFINGHAM, S.C.

LOCATION.--Lat 34°03'05", long 79°45'15", Florence County, Hydrologic Unit 03040202, on left bank at downstream side of bridge on U.S. Highway 52, 75 ft upstream from Seaboard Coast Line Railroad Bridge, 1.0 mi south of Effingham, and at mile 43.4.

DRAINAGE AREA.--1,030 mi², approximately.

PERIOD OF RECORD.--October 1929 to current year. Gage-height records collected at same site since 1891 are contained in reports of National Weather Service.

GAGE.--Data collection platform. Datum of gage is 58.49 ft above sea level. Prior to Sept. 7, 1934, nonrecording gage at same site and datum.

REMARKS.-- Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Sept. 22, 1945, gage height, 21.21 ft (from floodmark).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 16,900 ft³/s and graphically on logarithmic plotting paper.

FLOOD-FREQUENCY DATA (ft³/s)

72 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 5,630
- Q₅ = 9,160
- Q₁₀ = 11,900
- Q₂₅ = 15,700
- Q₅₀ = 18,800
- Q₁₀₀ = 22,200
- Q₂₀₀ = 25,800
- Q₅₀₀ = 31,100

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

- Mean = 3.754
- Standard Deviation = 0.248
- Station Skew = 0.079

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1892	Jan. 24	17.50	---	1928	Sept. 24	19.50	16,100	1964	Mar. 22	15.75	7,800
1893	Sept. 4	16.00	---	1929	Mar. 10	17.50	10,800	1965	Oct. 22	15.87	7,940
1894	Aug. 11	16.20	---	1930	Oct. 7	19.25	15,200	1966	Mar. 7	15.38	7,020
1895	Oct. 15	16.50	---	1931	Aug. 31	10.40	2,330	1967	Sept. 16	14.08	5,570
1896	July 15	16.00	---	1932	Jan. 15	13.70	4,780	1968	Jan. 18	14.26	5,420
1897	Feb. 13	14.40	---	1933	Oct. 24	15.30	6,830	1969	Apr. 26	12.52	3,790
1898	Aug. 30	13.70	---	1934	June 13	10.30	2,300	1970	Mar. 31	12.76	3,980
1899	Feb. 12	17.20	---	1935	Sept. 14	12.58	3,750	1971	Mar. 5	17.46	11,700
1900	Apr. 25	16.60	---	1936	Apr. 12	18.66	14,400	1972	Jan. 18	14.21	5,360
1901	June 22	17.20	---	1937	May 2	14.09	5,200	1973	Feb. 5	16.68	9,710
1902	Feb. 8	15.00	---	1938	Aug. 2	13.72	4,880	1974	Aug. 15	12.18	3,550
1903	Feb. 14	16.90	---	1939	Mar. 4	17.39	11,200	1975	July 20	16.69	9,740
1904	Aug. 14	12.80	---	1940	Aug. 18	9.43	1,980	1976	June 28	13.37	4,500
1905	Feb. 22	13.50	---	1941	July 18	12.22	3,420	1977	Mar. 20	13.81	4,920
1906	June 17	14.60	---	1942	May 28	14.39	5,640	1978	Jan. 26	16.09	8,380

1907	July 5	10.00	---	1943	Jan. 26	13.48	4,600	1979	Mar. 2	17.45	11,100
1908	Aug. 30	20.00	18,000b	1944	Mar. 26	16.42	9,050	1980	Apr. 3	16.69	9,380
1909	June 12	12.90	---	1945	Sept. 22	21.21	25,000	1981	Feb. 21	10.23	2,430
1910	June 18	13.10	---	1946	Jan. 2	13.10	4,200	1982	Jan. 10	15.28	6,850
1911	Mar. 16	9.50	---	1947	Apr. 16	13.57	4,700	1983	Mar. 24	17.19	10,400
1912	Feb. 21	16.50	---	1948	Feb. 16	14.67	6,180	1984	Apr. 5	13.54	4,670
1913	Mar. 21	15.70	---	1949	Dec. 5	15.92	8,320	1985	Feb. 11	11.92	3,550
1914	Mar. 6	12.80	---	1950	Dec. 24	8.43	1,630	1986	Nov. 30	12.57	3,950
1915	Jan. 25	13.60	---	1951	Apr. 17	9.81	2,120	1987	Mar. 7	17.07	10,200
1916	July 20	18.70	---	1952	Sept. 6	16.76	10,900	1988	Jan. 28	10.02	2,410
1917	June 18	12.00	---	1953	Feb. 23	12.35	3,920	1989	Mar. 31	14.39	5,820
1918	May 18	12.00	---	1954	Apr. 8	12.35	3,720	1990	Oct. 10	15.46	6,520
1919	July 29	16.00	---	1955	Apr. 22	12.80	3,920	1991	Oct. 18	18.87	13,900
1920	Mar. 22	11.90	---	1956	Mar. 25	11.41	2,840	1992	Aug. 24	12.57	3,830
1921	Feb. 16	16.50	---	1957	May 21	10.09	2,260	1993	Jan. 15	16.44	8,130
1922	Mar. 12	17.30	---	1958	Feb. 1	13.53	5,290	1994	Mar. 5	12.63	3,890
1923	Mar. 24	12.60	---	1959	Feb. 12	12.74	3,840	1995	Dec. 25	18.35	12,300
1924	Apr. 13	13.40	---	1960	Apr. 10	16.31	8,840	1996	Mar. 16	11.20	2,850
1925	Jan. 21	17.30	---	1961	Mar. 3	15.74	7,600	1997	Feb. 23	13.63	4,700
1926	Apr. 18	14.30	---	1962	Mar. 18	15.83	7,800	1998	Mar. 25	16.76	8,670
1927	Mar. 12	8.80	---	1963	Jan. 27	15.01	6,400	1999	May 3	12.18	3,530

PEE DEE RIVER BASIN

02135000 LITTLE PEE DEE RIVER AT GALIVANTS FERRY, S.C.

LOCATION.--Lat 34°03'25", long 79°14'50", Horry-Marion County, Hydrologic Unit 03040204, near left bank on downstream side of bridge on U.S. Highway 501, at Galivants Ferry, 1.0 mi downstream from Lake Swamp, and at mile 41.7.

DRAINAGE AREA.--2,790 mi², approximately.

PERIOD OF RECORD.--January 1942 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is 23.95 ft above sea level. Prior to July 26, 1967, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.-- Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,600 ft³/s, Oct. 9, 10, 1964, gage height, 13.01 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Stage of 16.0 ft, in September 1928, from floodmark set by local resident.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 26,100 ft³/s and graphically on logarithmic plotting paper.

<u>FLOOD-FREQUENCY DATA (ft³/s)</u>	<u>LOG-PEARSON TYPE III STATISTICS (LOG UNITS)</u>		
<u>58 YEARS OF RECORD</u>	Mean	=	4.088
<u>LOG-PEARSON TYPE III</u>	Standard Deviation	=	0.198
	Station Skew	=	-0.274
Q ₂ =	12,500		
Q ₅ =	18,000		
Q ₁₀ =	21,600		
Q ₂₅ =	25,900		
Q ₅₀ =	29,100		
Q ₁₀₀ =	32,100		
Q ₂₀₀ =	35,100		
Q ₅₀₀ =	39,000		

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1928	Sept. --	16.00	---	1961	Apr. 18	10.09	12,500	1981	Aug. 23	10.67	11,400
1942	Mar. 14	9.87	11,000	1962	Mar. 18	9.95	11,100	1982	Feb. 20	10.87	11,400
1943	July 18	9.76	10,500	1963	Jan. 27	10.57	15,200	1983	Mar. 22	12.72	24,400
1944	Feb. 24	9.95	11,500	1964	Sept. 17	10.30	13,400	1984	Apr. 5	10.44	10,500
1945	Sept. 23	13.23	26,800	1965	Oct. 9	13.01	27,600	1985	Feb. 15	9.45	6,750
1946	Jan. 2	10.74	15,200	1966	Mar. 11	10.68	15,300	1986	Dec. 13	8.75	5,010
1947	Apr. 20	9.69	10,600	1967	Feb. 20	8.66	6,090	1987	Mar. 6	11.94	18,200
1948	Feb. 18	11.24	17,600	1968	Jan. 19	9.64	10,300	1988	Jan. 28	8.77	6,110
1949	Dec. 4	10.62	14,800	1969	Aug. 10	11.07	17,200	1989	Apr. 17	10.19	8,920
1950	July 18	8.08	4,310	1970	Mar. 27	9.71	10,600	1990	Dec. 17	9.43	6,690
1951	Apr. 16	8.32	4,890	1971	Mar. 8	12.29	25,000	1991	Feb. 4	9.32	6,500
1952	Apr. 2	8.82	6,690	1972	Feb. 8	10.02	12,000	1992	Aug. 23	11.58	17,500
1953	Mar. 19	9.47	9,730	1973	Apr. 10	11.86	22,100	1993	Jan. 14	12.47	22,800
1954	Apr. 15	9.10	7,930	1974	Aug. 12	11.79	21,600	1994	Aug. 23	9.62	7,930
1955	Sept. 11	10.36	13,900	1975	Feb. 26	11.13	13,000	1995	Feb. 24	11.62	17,700
1956	Feb. 14	9.48	9,270	1976	Feb. 4	9.91	8,030	1996	Sept. 14	11.46	17,600
1957	Mar. 13	8.98	7,510	1977	Mar. 28	10.69	10,900	1997	Oct. 13	10.94	13,800
1958	Apr. 7	10.00	12,000	1978	May 15	11.27	12,200	1998	Feb. 8	12.33	22,000
1959	Mar. 10	11.21	17,600	1979	Sept. 11	12.51	20,200	1999	Sept. 22	12.11	20,600
1960	Aug. 2	10.66	14,800	1980	Apr. 1	11.60	14,800				

SANTEE RIVER BASIN

02146000 CATAWBA RIVER NEAR ROCK HILL, S.C.

LOCATION.--Lat 34°59'05", long 80°58'27", York County, Hydrologic Unit 03050103, on right bank, at downstream side of bridge on U.S. Highway 21, 3.5 mi downstream from Lake Wylie Dam, 5.0 mi northeast of Rock Hill, 7.5 mi upstream from Sugar Creek, and at mile 137.6.

DRAINAGE AREA.--3,050 mi², approximately.

PERIOD OF RECORD.--October 1895 to September 1903, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1895-1903; WSP 1333: 1942-43(m), 1953(m). WSP 1623: 1942-51 (yearly runoff).

GAGE.--Data collection platform. Datum of gage is 485.82 ft above sea level. Sept. 23, 1895 to July 31, 1903, nonrecording gage at Southern Railway bridge, 2.0 mi downstream, at different datum.

REMARKS.-- Flow regulated by Lake Wylie, usable capacity, 2.52 x 10⁹ ft³ and other power plants above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft³/s, May 23, 1901, gage height, 24.15 ft, site and datum then in use.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 77,900 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1896	July 10	15.20	71,500	1956	Apr. 16	7.77	14,600	1978	Nov. 7	13.44	39,000
1897	Feb. 7	14.80	68,500	1957	Apr. 7	12.93	36,100	1979	Feb. 25	13.86	43,300
1898	---	9.00	30,600	1958	Apr. 28	15.28	50,000	1980	Apr. 17	9.40	21,100
1899	Mar. 20	18.00	95,000	1959	Dec. 30	10.39	25,100	1981	Jan. 5	7.47	13,300
1900	---	12.30	50,800	1960	Feb. 6	15.80	50,000	1982	Jan. 4	11.31	30,400
1901	May 23	24.15	151,000	1961	Feb. 25	9.49	21,300	1983	Apr. 10	10.86	28,100
1902	Dec. 30	19.70	108,000	1962	Jan. 7	15.70	49,500	1984	Apr. 10	11.79	32,900
1903	<u>Mar. 24</u>	<u>18.00</u>	<u>93,800</u>	1963	Mar. 6	10.73	26,300	1985	Feb. 2	7.55	13,600
1942	Sept. 8	10.61	25,900	1964	Apr. 8	13.25	37,500	1986	Nov. 22	10.72	27,500
1943	July 10	16.99	56,100	1965	Oct. 17	14.64	44,700	1987	Mar. 1	12.06	34,300
1944	Sept. 30	11.55	30,200	1966	Mar. 5	7.66	15,000	1988	Feb. 17	7.52	13,500
1945	Sept. 19	20.84	76,800	1967	Aug. 23	13.53	39,200	1989	Mar. 24	7.84	14,800
1946	Feb. 11	15.05	46,000	1968	Jan. 11	7.74	15,000	1990	Oct. 1	16.41	57,400
1947	Jan. 20	13.57	39,300	1969	Feb. 3	7.72	14,900	1991	---	---	---
1948	Mar. 31	13.63	39,300	1970	Aug. 13	7.84	15,400	1992	June 16	10.64	27,100
1949	Nov. 28	17.79	60,200	1971	May 16	11.75	31,000	1993	Mar. 24	13.58	41,800
1950	Nov. 1	10.03	23,600	1972	June 23	10.01	24,000	1994	Aug. 19	12.03	34,100
1951	Jan. 23	7.49	13,600	1973	May 30	12.44	33,800	1995	Feb. 17	9.62	22,300
1952	Mar. 4	16.96	56,100	1974	Apr. 6	10.31	25,200	1996	Feb. 3	10.42	26,000
1953	Mar. 24	13.49	38,900	1975	Mar. 15	17.57	62,400	1997	Apr. 29	9.95	23,800
1954	Jan. 23	16.01	51,000	1976	Mar. 8	7.47	13,400	1998	Mar. 12	8.24	16,400
1955	Apr. 15	7.69	14,200	1977	Oct. 9	16.57	55,400	1999	Feb. 11	7.51	13,500

SANTEE RIVER BASIN

02147000 CATAWBA RIVER NEAR CATAWBA, S.C.

LOCATION.--Lat 34°51'09", long 80°52'06", York County, Hydrologic Unit 03050103, on right bank, 60 ft downstream from Seaboard Coast Line Railroad bridge, 200 ft downstream from Twelvemile Creek, 2.5 mi east of Catawba, and at mile 122.8.

DRAINAGE AREA.--3,530 mi², approximately.

PERIOD OF RECORD.--October 1967 to September 1991. Annual peak stages from June 1906 to December 1948 and gage height records since May 1958 are available in the USGS S.C. District office.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is 446.18 ft above sea level (levels by Bowaters Carolina Corporation). June 1906 to Dec. 21, 1948, nonrecording gage at site 2.1 mi downstream at different datum.

REMARKS.--Flow regulated by Lake Wylie, usable capacity, 2.52 x 10⁹ ft³.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,600 ft³/s, Oct. 9, 1976, gage height, 23.81 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since June 1906, 40.4 ft, July 16, 1916 at site and datum then in use, from records furnished by the National Weather Service.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 63,300 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1968	Jan. 11	11.92	23,000	1976	Dec. 31	8.48	15,700	1985	Feb. 2	11.74	25,400
1969	Feb. 3	9.79	18,100	1977	Oct. 9	23.81	73,600	1986	Nov. 22	15.80	39,000
1970	Aug. 13	10.22	19,200	1978	Jan. 26	18.12	47,500	1987	Mar. 1	21.10	59,200
1971	May 16	14.01	28,500	1979	Feb. 25	19.16	51,700	1988	Dec. 28	9.23	17,900
1972	Oct. 17	12.15	23,900	1980	Mar. 29	14.00	32,300	1989	Mar. 24	14.36	33,900
1973	Apr. 1	17.16	37,500	<u>1981</u>	Feb. 19	8.08	14,400	1990	Oct. 2	24.33	72,700
1974	Apr. 6	13.43	27,100	1983	Apr. 10	13.40	30,700	1991	Oct. 23	20.13	55,300
1975	Mar. 15	21.76	63,400	1984	Dec. 12	15.05	36,300				

SANTEE RIVER BASIN

02148000 WATEREE RIVER NEAR CAMDEN, S.C.

LOCATION.--Lat 34°14'40", long 80°39'15", Kershaw County, Hydrologic Unit 03050104, in pier of downstream bridge on U.S. Highway 1, 1,500 ft downstream from Five and Twenty Creek, 4,000 ft upstream from Seaboard Coast Line Railroad bridge, 2.2 mi west of Camden, 7.4 mi downstream from Wateree Dam, and at mile 68.8.

DRAINAGE AREA.--5,070 mi², approximately.

PERIOD OF RECORD.--January to December 1903 (gage heights only), October 1904 to September 1910, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site 1.5 mi downstream 1891-1934, at site 830 ft upstream January 1935 to September 1942, and at present site since October 1942, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 802: 1930. WSP 952: Drainage area. WSP 1082: 1934 (M). WSP 1433: 1905-10. WSP 1623: 1930-51 (monthly and yearly runoff).

GAGE.--Data collection platform. Datum of gage is 118.36 ft above sea level. January 1903 to September 1910, nonrecording gage at site 1.5 mi downstream at datum 117.71 ft above sea level. Oct. 1, 1929 to Sept. 1, 1942, recording gage at site 830 ft upstream at datum 119.36 ft above sea level. October 1942 to Sept. 30, 1997, recording gage at present site at datum 119.36 ft above sea level.

REMARKS.--Flow regulated by power plant at Wateree Reservoir (usable capacity, 2.79 x 10⁹ ft³) and by other power plants above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366,000 ft³/s, Aug. 26, 1908, gage height, 39.7 ft, site and datum then in use, from records of National Weather Service, from rating curve extended above 122,000 ft³/s on basis of computation, by Duke Power Co., of peak flow 382,000 ft³/s over dam at Rocky Creek Reservoir.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of July 18, 1916 reached a stage of 40.4 ft, datum 117.71 ft above sea level, at site 1.5 mi downstream, from records of National Weather Service, discharge, 400,000 ft³/s, from rating curve extended about 122,000 ft³/s, as explained above.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 102,000 ft³/s at current site and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1886	Sept. --	31.50	---	1928	Aug. 18	35.00	---	1965	Oct. 18	29.07	64,500
1892	Jan. 20	30.10	---	1929	Mar. 1	31.80	---	1966	Mar. 6	18.99	21,100
1893	Aug. 30	29.60	---	1930	Oct. 3	36.20	163,000	1967	Aug. 25	32.22	88,300
1894	Oct. 24	30.50	---	1931	Dec. 23	14.31	11,600	1968	Jan. 12	20.91	24,900
1895	Oct. 10	30.20	---	1932	Jan. 9	28.31	50,700	1969	Apr. 20	21.41	26,000
1896	July 11	28.80	---	1933	Dec. 28	25.37	32,000	1970	Mar. 23	16.83	17,800
1897	Feb. 8	29.70	---	1934	June 9	20.65	20,200	1971	Mar. 5	23.46	31,300
1898	Sept. 25	28.00	---	1935	Mar. 14	24.03	30,000	1972	Jan. 14	19.70	22,400
1899	Feb. 8	31.00	---	1936	Apr. 7	36.63	168,000	1973	Apr. 2	28.53	56,100
1900	Apr. 23	28.40	---	1937	Jan. 4	27.26	52,500	1974	Apr. 7	16.00	16,700
1901	May 24	32.50	---	1938	Apr. 9	14.92	13,300	1975	Mar. 16	30.55	70,200
1902	Dec. 31	31.20	---	1939	Mar. 2	29.01	70,500	1976	Mar. 17	16.44	17,300
1903	Mar. 25	30.40	---	1940	Aug. 16	30.50	89,000	1977	Oct. 11	28.36	55,100
1904	Aug. 9	25.20	---	1941	July 9	28.10	60,600	1978	Jan. 27	26.22	42,300

1905	July 15	29.60	66,800	1942	<u>Mar. 10</u>	24.85	<u>35,400</u>	1979	Feb. 26	29.17	60,200
1906	Dec. 22	28.60	54,100	1943	Jan. 20	24.76	35,400	1980	Mar. 30	25.80	40,200
1907	Oct. 21	28.70	55,000	1944	Mar. 21	29.08	71,700	1981	Feb. 13	15.41	16,500
1908	Aug. 26	39.70	366,000	1945	Sept. 19	33.84	132,000	1982	Jan. 5	25.99	41,200
1909	June 5	31.70	103,000	1946	Jan. 9	24.28	33,800	1983	Mar. 19	23.16	30,500
1910	<u>Mar. 2</u>	<u>26.90</u>	<u>39,700</u>	1947	Jan. 21	27.87	58,500	1984	Feb. 16	21.62	26,500
1911	Oct. 10	26.90	---	1948	Apr. 2	27.96	59,500	1985	Feb. 7	15.68	16,800
1912	Mar. 17	35.40	---	1949	Nov. 30	31.44	101,000	1986	Nov. 24	16.13	17,400
1913	Mar. 17	34.00	---	1950	Nov. 3	19.21	20,500	1987	Mar. 2	30.44	69,600
1914	Jan. 4	27.60	---	1951	Apr. 11	15.11	15,200	1988	Jan. 21	12.69	13,700
1915	Dec. 27	30.50	---	1952	Mar. 5	31.35	82,900	1989	Mar. 25	25.82	40,300
1916	July 18	40.40	400,000	1953	Feb. 24	20.82	24,500	1990	Oct. 31	33.24	110,000
1917	Mar. 6	30.30	---	1954	Jan. 24	29.36	67,000	1991	Oct. 24	28.74	57,300
1918	Apr. 21	28.20	---	1955	Apr. 16	22.66	30,800	1992	Feb. 28	15.00	16,000
1919	July 21	33.00	---	1956	Mar. 18	15.93	16,800	1993	Mar. 28	26.44	43,700
1920	Aug. 29	28.60	---	1957	Apr. 10	19.63	22,200	1994	Aug. 22	20.74	24,500
1921	Feb. 11	31.00	---	1958	Nov. 26	25.20	36,800	1995	Feb. 19	22.35	28,300
1922	Feb. 16	30.20	---	1959	July 11	17.45	18,300	1996	Feb. 4	21.35	25,800
1923	Mar. 18	30.00	---	1960	Apr. 6	28.54	58,800	1997	July 25	24.27	33,700
1924	July 9	24.50	---	1961	Feb. 26	27.00	46,800	1998	Feb. 5	26.29	37,500
1925	Jan. 20	31.00	---	1962	Jan. 8	22.87	30,000	1999	Jan. 25	16.51	17,000
1926	Apr. 2	19.40	---	1963	Mar. 15	---	20,100				
1927	July 23	12.70	---	1964	Apr. 9	26.50	43,900				

SANTEE RIVER BASIN

02153500 BROAD RIVER NEAR GAFFNEY, S.C.

LOCATION.--Lat 35°05'20", long 81°34'20", Cherokee County, Hydrologic Unit 03050105, on right bank at downstream side of bridge on U.S. Highway 29, 0.3 mi upstream from Cherokee Creek, 4.4 mi downstream from Gaston Shoals Dam, 4.5 mi east of Gaffney, and at mile 270.3.

DRAINAGE AREA.--1,490 mi², approximately.

PERIOD OF RECORD.--July 1896 to December 1899 (gage heights and discharge measurements only), October 1938 to September 1971, October 1971 to May 1986 (Crest-stage partial-record station), June 1986 to September 1990. Monthly discharge only for some periods, published in WSP 1303. Discharge for July 12, 1896 to December 31, 1899, published in the 18th, 19th, and 21st Annual Reports, Part 4, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 539.10 ft above sea level. July 12, 1896 to December 31, 1899, nonrecording gages at sites 1.1 mi upstream at different datum.

REMARKS.--Peaks prior to Jan. 1, 1900 are from graphs based on gage readings. Some regulation at medium and low flow by powerplants above station. Capacity of reservoirs insufficient to affect monthly figures of runoff.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119,000 ft³/s, Aug. 14, 1940, gage height, 19.78 ft, by computation of flow over Gaston Shoals Dam.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 64,200 ft³/s and extended by computation of peak flow over Gaston Shoals Dam.

FLOOD-FREQUENCY DATA (ft³/s)

51 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 31,500
- Q₅ = 47,900
- Q₁₀ = 59,000
- Q₂₅ = 73,300
- Q₅₀ = 84,100
- Q₁₀₀ = 94,800
- Q₂₀₀ = 106,000
- Q₅₀₀ = 120,000

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

Mean = 4.492
 Standard Deviation = 0.222
 Station Skew = -0.184

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1897	Apr. 5	9.25	---	1954	Jan. 23	13.24	41,000	1972	Oct. 16	13.43	46,900
1898	Sept. 23	12.18	---	1955	Feb. 7	8.55	14,700	1973	Mar. 17	12.99	42,900
1899	Mar. 19	12.70	---	1956	Apr. 16	10.23	22,400	1974	Apr. 5	11.91	34,400
1939	Aug. 18	10.51	21,000	1957	Apr. 6	10.40	23,400	1975	Mar. 15	14.37	55,300
1940	Aug. 14	19.78	119,000	1958	Apr. 28	12.72	37,900	1976	Oct. 18	11.58	32,100
1941	July 17	11.43	26,000	1959	Sept. 30	12.77	38,600	1977	Oct. 10	17.24	84,900
1942	Feb. 17	10.70	21,800	1960	Feb. 6	12.63	37,200	1978	Nov. 7	12.39	38,100
1943	Jan. 28	12.39	38,400	1961	June 22	11.00	26,600	1980	July 21	12.33	37,600
1944	Mar. 20	9.82	21,700	1962	Dec. 13	11.31	28,400	1981	Oct. 1	7.56	10,500
1945	Sept. 18	15.35	61,600	1963	Mar. 13	13.03	41,800	1982	Jan. 4	11.84	33,900
1946	Jan. 7	13.38	43,400	1964	Apr. 8	11.44	31,100	1983	Feb. 3	9.98	21,900
1947	June 15	11.09	27,800	1965	Oct. 6	15.61	67,100	1984	Feb. 14	12.67	39,900
1948	Aug. 4	10.80	25,600	1966	Mar. 4	11.65	32,600	1985	Aug. 18	10.78	26,600
1949	Nov. 29	12.47	35,700	1967	Aug. 24	11.83	33,800	1986	Aug. 18	7.67	10,900
1950	Oct. 7	11.70	31,000	1968	Mar. 13	10.65	25,900	1987	Mar. 1	15.49	65,800
1951	Dec. 8	10.47	23,900	1969	Apr. 19	10.57	25,400	1988	Jan. 20	7.04	8,770
1952	Mar. 4	13.52	44,200	1970	Aug. 10	13.50	47,500	1989	Feb. 28	8.10	12,500
1953	Feb. 21	10.13	21,900	1971	Oct. 31	8.55	14,300	1990	Oct. 2	12.52	38,800

SANTEE RIVER BASIN

02155500 PACOLET RIVER NEAR FINGERVILLE, S.C.

LOCATION.--Lat 35°06'35", long 81°57'35", Spartanburg County, Hydrologic Unit 03050105, on right bank, 100 ft upstream from bridge on State Road 55, 0.2 mi downstream from confluence of North Pacolet and South Pacolet Rivers, 2.8 mi southeast of Fingerville, and at mile 46.5.

DRAINAGE AREA.--212 mi².

PERIOD OF RECORD.--December 1929 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Basic data recorder. Datum of gage is 706.33 ft above sea level.

REMARKS.--Some regulation by South Pacolet River Reservoir and Lake William C. Bowen (02154950). Some diurnal fluctuation caused by mill on North Pacolet River. Some water diverted from South Pacolet River above station for City of Spartanburg water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s, Aug. 14, 1940, gage height, 22.43 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1903 reached a stage of 46 ft, from floodmark (discharge not determined).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 9,510 ft³/s and extended by velocity-area studies.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1903	June --	46.00	---	1955	Feb. 7	5.10	2,810	1980	May 24	---	6,500
1931	Dec. 6	2.68	1,020	1956	Apr. 17	5.55	3,160	1981	Oct. 1	3.43	1,580
1932	Dec. 15	6.45	3,810	1957	Apr. 6	7.33	4,570	1982	Feb. 4	7.45	4,920
1933	Oct. 17	13.31	11,000	1958	Apr. 29	8.20	5,450	1983	Apr. 10	5.44	3,140
1934	Mar. 4	6.39	3,810	1959	May 26	13.82	11,600	1984	Feb. 14	6.51	4,060
1935	Oct. 11	4.76	2,510	1960	Mar. 30	8.78	6,050	1985	Aug. 18	7.31	4,790
1936	Apr. 7	12.53	10,100	1961	June 22	8.65	5,850	1986	Aug. 18	5.43	3,130
1937	Oct. 17	13.63	11,300	1962	Apr. 11	6.31	3,710	1987	Mar. 1	11.71	9,250
1938	Oct. 19	12.73	10,300	1963	Mar. 13	10.46	7,860	1988	Feb. 9	3.94	1,960
1939	Aug. 19	7.09	4,390	1964	Aug. 10	7.05	4,560	1989	Mar. 24	4.58	2,460
1940	Aug. 14	22.43	22,800	1965	Oct. 5	17.65	16,300	1990	Mar. 18	8.09	5,520
1941	July 17	3.63	1,760	1966	Mar. 4	7.21	4,610	1991	Mar. 30	7.23	4,720
1942	Feb. 17	9.54	6,760	1967	Aug. 24	---	6,500	1992	Feb. 26	5.71	3,360
1943	Jan. 28	6.84	4,120	1968	Mar. 13	5.83	3,470	1993	May 6	7.08	4,420
1944	Mar. 20	6.50	3,870	1969	Apr. 19	7.71	5,210	1994	Aug. 17	10.63	8,090
1945	Sept. 17	8.56	5,850	1970	Nov. 2	3.50	1,640	1995	Aug. 27	15.58	13,700
1946	Jan. 7	11.90	9,400	1971	Feb. 22	6.23	3,820	1996	Jan. 27	6.71	4,090
1947	June 15	7.99	5,250	1972	June 21	10.15	7,650	1997	Dec. 2	5.37	2,880
1948	Aug. 5	5.62	3,160	1973	Feb. 3	8.58	6,080	1998	Feb. 4	7.15	4,480
1949	Nov. 29	9.66	6,980	1974	Apr. 5	7.16	4,660	1999	Apr. 1	3.28	13,200
1950	Oct. 7	9.05	6,250	1975	Mar. 14	9.88	7,380				
1951	Dec. 8	6.85	4,120	1976	Oct. 17	9.69	7,190				
1952	Mar. 24	9.46	6,760	1977	Oct. 9	14.89	12,900				
1953	Feb. 21	6.27	3,710	1978	Jan. 26	7.58	5,080				
1954	Jan. 23	10.38	7,750	1979	Feb. 26	7.81	5,260				

SANTEE RIVER BASIN

02156000 PACOLET RIVER NEAR CLIFTON, S.C.

LOCATION.--Lat 34°58'10", long 81°48'05", Spartanburg County, Hydrologic Unit 03050105, on left bank, 1.0 mi downstream from dam at Clifton Mill, 1.3 mi southeast of Clifton, 2.7 mi upstream from Lawsons Fork Creek, 2.7 mi northeast of Glendale, and at mile 28.2.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--October 1939 to September 1978.

GAGE.--Water-stage recorder from October 1939 to September 1971. Crest-stage, partial-record station, October 1971 to September 1978. Datum of gage is 540 ft (from topographical map).

REMARKS.--Some regulation by powerplants above station, South Pacolet River Reservoir, and Lake William C. Bowen. City of Spartanburg diverts water above station from South Pacolet River Reservoir for municipal supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,700 ft³/s, Oct. 9, 1976, gage height, 21.70 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 12,100 ft³/s and extended on the basis of peak flow over dam computation.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1940	Aug. 14	21.19	26,800	1953	Feb. 21	6.12	4,800	1966	Mar. 4	10.85	10,200
1941	July 11	7.74	5,620	1954	Jan. 22	9.14	8,520	1967	July 7	9.95	8,940
1942	Aug. 18	9.76	8,640	1955	Feb. 6	5.35	4,020	1968	July 21	9.24	8,010
1943	Jan. 28	11.10	9,300	1956	Apr. 16	9.63	9,170	1969	Apr. 18	9.43	8,260
1944	Mar. 20	8.08	7,220	1957	Aug. 14	7.51	6,480	1970	July 27	6.16	4,560
1945	Aug. 17	14.16	12,000	1958	Nov. 19	12.06	12,600	1971	Feb. 22	7.17	5,590
1946	Jan. 7	12.69	12,900	1959	May 26	12.11	12,600	1972	June 21	13.39	14,000
1947	Jan. 20	6.95	5,860	1960	Feb. 5	10.16	9,840	1973	Feb. 3	11.24	10,800
1948	Aug. 4	6.05	4,690	1961	Feb. 21	9.98	9,050	1974	Apr. 5	8.75	7,400
1949	Nov. 28	9.62	9,170	1962	Apr. 11	9.82	8,770	1975	Mar. 15	12.39	12,500
1950	Oct. 7	14.64	16,300	1963	Mar. 6	14.80	16,100	1976	Oct. 18	11.79	11,600
1951	Dec. 7	7.11	6,100	1964	Aug. 10	14.97	16,400	1977	Oct. 9	21.70	27,700
1952	Mar. 24	11.16	11,400	1965	Oct. 5	17.31	20,100	1978	Jan. 26	11.27	10,800

SANTEE RIVER BASIN

02156500 BROAD RIVER NEAR CARLISLE, S.C.

LOCATION.--Lat 34°35'46", long 81°25'20", Union County, Hydrologic Unit 03050106, on right bank at downstream side of bridge on State Highway 72, 1.3 mi upstream from Sandy River, 2.0 mi downstream from Seaboard Coast Line Railroad bridge, 2.5 mi east of Carlisle, 5.0 mi downstream from Neal Shoals Dam, and at mile 226.0.

DRAINAGE AREA.--2,790 mi², approximately.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 892: 1939 (M), drainage area.

GAGE.--Data collection platform. Datum of gage is 290.79 ft above sea level.

REMARKS.--Some regulation at low and medium flow by powerplants above station. Capacity of reservoirs insufficient to affect monthly figures of runoff.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s, Oct. 10, 1976, gage height, 31.51 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 65,800 ft³/s and extended on the basis of peak flow over Neal Shoals Dam.

FLOOD-FREQUENCY DATA (ft³/s)

61 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 42,000
- Q₅ = 63,400
- Q₁₀ = 79,300
- Q₂₅ = 101,000
- Q₅₀ = 119,000
- Q₁₀₀ = 137,000
- Q₂₀₀ = 157,000
- Q₅₀₀ = 186,000

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

- Mean = 4.629
- Standard Deviation = 0.208
- Station Skew = -0.245

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1939	Mar. 1	16.27	34,900	1960	Feb. 7	18.71	42,100	1980	Mar. 29	17.28	37,600
1940	Aug. 15	29.41	103,000	1961	Feb. 22	15.82	33,200	1981	Oct. 2	10.09	15,600
1941	July 18	17.06	37,600	1962	Apr. 12	17.25	37,400	1982	Jan. 5	17.89	39,700
1942	Feb. 18	18.42	42,200	1963	Mar. 14	21.78	57,200	1983	Mar. 18	14.21	27,600
1943	Jan. 29	18.96	44,500	1964	Apr. 8	23.90	69,500	1984	Feb. 15	18.40	41,500
1944	Mar. 20	19.58	46,900	1965	Oct. 18	25.82	79,900	1985	Aug. 19	16.72	35,100
1945	Sept. 19	25.72	78,500	1966	Mar. 5	18.89	45,600	1986	Aug. 20	17.33	37,300
1946	Jan. 8	20.11	49,200	1967	Aug. 24	20.23	51,200	1987	Mar. 2	25.77	72,100
1947	Jan. 21	17.21	37,900	1968	Mar. 14	14.57	29,700	1988	Jan. 21	9.15	13,400
1948	Feb. 14	16.20	34,600	1969	Apr. 20	15.01	31,000	1989	Mar. 24	12.35	22,000
1949	Nov. 29	22.81	62,200	1970	Aug. 12	17.48	39,900	1990	Oct. 2	21.66	54,600
1950	Oct. 8	19.32	44,200	1971	Mar. 3	15.05	31,200	1991	Oct. 14	26.60	78,200
1951	Dec. 9	13.65	27,000	1972	Oct. 17	19.31	47,200	1992	Apr. 22	13.52	25,500
1952	Mar. 5	22.43	57,700	1973	Feb. 3	21.54	57,700	1993	Mar. 25	19.12	44,500
1953	Feb. 22	15.77	33,200	1974	Apr. 6	17.61	40,400	1994	Aug. 19	18.94	43,700
1954	Jan. 24	20.63	49,200	1975	Mar. 15	23.75	63,100	1995	Jan. 16	24.44	65,800
1955	Apr. 15	13.79	27,500	1976	Oct. 19	14.95	31,000	1996	Feb. 4	17.20	36,800
1956	Apr. 17	14.99	30,900	1977	Oct. 10	31.51	123,000	1997	Mar. 1	13.75	26,200
1957	Apr. 7	13.24	25,900	1978	Jan. 27	19.72	46,900	1998	Mar. 10	18.30	41,100
1958	Apr. 29	20.12	48,000	1979	Feb. 26	20.00	47,800	1999	Jan. 24	8.56	12,100
1959	Dec. 30	14.21	28,700								

SANTEE RIVER BASIN

02161000 BROAD RIVER AT ALSTON, S.C.

LOCATION.--Lat 34°14'35", long 81°19'11", Fairfield County, Hydrologic Unit 03050106, on left bank at Southern Railway Alston-Peak trestle, 1.2 mi downstream from Parr Shoals Dam, and at mile 200.2.

DRAINAGE AREA.--4,790 mi².

PERIOD OF RECORD.--October 1896 to December 1907, October 1980 to current year.

REVISED RECORDS.--WRD SC-82-1: 1982 (M).

GAGE.--Data collection platform. Datum of gage is 211.91 ft above sea level. Oct. 1, 1896 to Dec. 31, 1907, nonrecording gage at same site at different datum.

REMARKS.--Records for the 1897-1908 water years are poor. Regulation at low and medium flow by power plant above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140,000 ft³/s, June 7, 1903, gage height, 29.02 ft (at datum then in use and from rating curve extended graphically above 72, 000 ft³/s).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 72,000 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1897	Feb. 7	22.13	85,800	<u>1907</u>	June 2	12.50	30,900	1990	Oct. 3	22.71	79,500
1898	Sept. 24	14.80	40,500	1981	Feb. 12	16.70	44,500	1991	Oct. 14	26.94	119,000
1899	Feb. 28	18.30	60,800	1982	Jan. 5	19.95	59,400	1992	Apr. 23	15.58	39,800
1900	Apr. 22	23.40	95,100	1983	Mar. 18	16.78	44,900	1993	Mar. 26	18.42	52,100
1901	May 23	24.80	106,000	1984	Feb. 16	18.85	54,100	1994	Aug. 19	18.42	52,100
1902	Dec. 31	24.70	105,000	1985	Aug. 19	17.39	47,500	1995	Aug. 30	24.91	99,100
1903	June 7	29.02	140,000	1986	Nov. 23	17.28	47,000	1996	Feb. 4	19.17	55,600
1904	Aug. 29	14.00	36,800	1987	Mar. 3	25.90	108,000	1997	Apr. 28	15.27	38,500
1905	Feb. 21	16.60	50,000	1988	Jan. 22	12.36	27,100	1998	Feb. 5	20.36	61,900
1906	Dec. 21	19.40	67,900	1989	Mar. 24	16.25	42,600	1999	Jan. 25	13.08	29,800

SANTEE RIVER BASIN

02161500 BROAD RIVER AT RICHTEX, S.C.

LOCATION.--Lat 34°11'05", long 81°11'48", Richland County, Hydrologic Unit 03050106, on right bank 0.8 mi west of Richtex, 1.2 mi upstream from Little River, 10.2 mi downstream from Parr Shoals Dam, and at mile 191.2.

DRAINAGE AREA.--4,850 mi², approximately.

PERIOD OF RECORD.--October 1925 to September 1983. Monthly discharges only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 757: 1930 (M). WSP 972: Drainage area. WSP 1383: 1929 (M), 1933.

GAGE.--Water-stage recorder. Datum of gage is 184.84 ft above sea level.

REMARKS.--Regulation at low and medium flow by power plant above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s, Oct. 3, 1929, gage height, 30.7 ft (from flood marks).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 82,800 ft³/s and extended on basis of computation of peak flow over Parr Shoals Dam.

FLOOD-FREQUENCY DATA (ft³/s)

58 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 58,800
- Q₅ = 88,700
- Q₁₀ = 112,000
- Q₂₅ = 147,000
- Q₅₀ = 177,000
- Q₁₀₀ = 210,000
- Q₂₀₀ = 247,000
- Q₅₀₀ = 304,000

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

- Mean = 4.786
- Standard Deviation = 0.200
- Station Skew = 0.495

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1926	Jan. 20	12.01	40,300	1946	Jan. 9	13.86	59,200	1966	Mar. 6	14.79	65,300
1927	Feb. 25	9.14	28,400	1947	Jan. 21	13.72	57,800	1967	Aug. 25	16.09	74,500
1928	Aug. 17	30.10	222,000	1948	Feb. 14	12.40	49,400	1968	Jan. 12	11.90	46,200
1929	Sept. 28	18.32	88,200	1949	Nov. 30	18.59	95,700	1969	Apr. 19	12.91	52,700
1930	Oct. 3	30.70	228,000	1950	Oct. 9	12.75	52,000	1970	Aug. 12	10.97	40,600
1931	Dec. 7	7.81	23,000	1951	Dec. 9	9.18	30,600	1971	Mar. 4	13.73	58,000
1932	Jan. 9	14.18	51,200	1952	Mar. 6	17.39	84,700	1972	June 23	14.18	61,600
1933	Oct. 18	19.72	101,000	1953	Feb. 23	11.15	42,000	1973	Feb. 4	16.04	74,100
1934	Mar. 29	10.48	34,400	1954	Jan. 24	14.68	64,700	1974	Apr. 6	12.11	47,500
1935	Oct. 12	17.86	84,600	1955	Apr. 15	11.36	43,200	1975	Mar. 16	18.52	94,900
1936	Apr. 8	24.96	157,000	1956	Mar. 18	11.24	42,000	1976	Oct. 20	10.03	35,200
1937	Oct. 18	16.12	72,400	1957	Apr. 7	9.35	31,800	1977	Oct. 11	23.67	146,000
1938	Oct. 21	13.53	55,800	1958	Nov. 21	13.35	55,900	1978	Jan. 27	14.79	64,500
1939	Mar. 2	13.12	53,400	1959	Dec. 30	9.31	31,200	1979	Feb. 26	15.80	72,300
1940	Aug. 16	21.08	120,000	1960	Oct. 1	----a	55,900	1980	Mar. 30	14.74	64,200
1941	July 7	12.41	49,400	1961	Feb. 25	13.50	56,600	1981	Oct. 1	12.07	46,700
1942	Feb. 18	12.99	53,300	1962	Jan. 7	13.42	55,900	1982	Jan. 5	14.43	62,100
1943	Jan. 30	13.63	57,200	1963	Mar. 8	16.18	75,300	1983	Mar. 19	12.41	48,400
1944	Mar. 21	17.40	84,700	1964	Apr. 9	19.00	99,500				
1945	Sept. 19	18.68	96,600	1965	Oct. 18	19.25	102,000				

SANTEE RIVER BASIN

02167000 SALUDA RIVER AT CHAPPELLS, S.C.

LOCATION.--Lat 34°10'40", long 81°51'40", Newberry County, Hydrologic Unit 03050109, on left bank on downstream side of bridge on State Highway 39 at Chappells, 6.7 mi downstream from dam at Lake Greenwood, 9.8 mi upstream from Little River, and at mile 52.3.

DRAINAGE AREA.--1,360 mi².

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected since 1905 are contained in reports of National Weather Service.

GAGE.--Data collection platform. Datum of gage is 362.89 ft above sea level. Oct. 1, 1926 to Sept. 30, 1939, nonrecording or recording gage at site 300 ft downstream at datum 363.79 ft above sea level. Oct. 1, 1939 to Oct. 7, 1964, recording gage at present site and at datum 363.89 ft above sea level.

REMARKS.--Peaks are from graphs based on gage readings by the U.S. Weather Bureau prior to June 27, 1927. Peak discharges since May 1940 affected by storage in Lake Greenwood.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63,700 ft³/s, Oct. 2, 1929, gage height, 32.5 ft., present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 26, 1908 reached a stage of 36.7 ft (present site and datum), from reports of National Weather Service.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 28,100 ft³/s and extended on basis of velocity-area studies.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1888	Sept.--	30.60	---	1937	Jan. 5	22.03	21,400	1969	Apr. 19	24.32	26,200
1906	Dec. 22	18.60	---	1938	Oct. 22	20.91	18,000	1970	Mar. 22	13.02	5,510
1907	Oct. 5	13.30	---	1939	Mar. 1	<u>19.07</u>	13,200	1971	Mar. 4	22.51	19,800
1908	Aug. 26	34.70	---	1940	Aug. 14	28.66	49,700	1972	June 22	21.69	17,400
1909	June 5	20.50	---	1941	July 17	14.96	7,400	1973	Apr. 2	22.75	20,600
1910	Mar. 3	17.60	---	1942	Mar. 22	22.82	24,300	1974	Apr. 5	14.74	6,800
1911	Oct. 9	12.20	---	1943	Jan. 29	22.21	22,100	1975	Mar. 15	24.84	28,300
1912	Mar. 16	25.00	---	1944	Mar. 21	24.84	32,300	1976	Mar. 17	19.03	10,800
1913	Mar. 16	22.00	---	1945	Sept. 18	13.52	6,080	1977	Oct. 9	26.47	35,200
1914	Dec. 31	16.70	---	1946	Jan. 8	22.30	22,500	1978	Jan. 27	15.48	7,740
1915	Jan. 8	16.50	---	1947	Jan. 21	15.68	8,100	1979	Feb. 26	21.74	17,500
1916	Feb. 4	20.30	---	1948	Apr. 1	19.52	14,200	1980	Mar. 29	24.24	25,800
1917	Mar. 6	19.00	---	1949	Nov. 29	24.59	31,400	1981	Oct. 1	18.06	9,870
1918	Aug. 4	17.00	---	1950	Mar. 7	12.46	5,310	1982	Jan. 4	23.05	21,600
1919	Oct. 28	22.60	---	1951	Apr. 3	12.39	5,430	1983	Apr. 9	15.72	7,900
1920	Dec. 12	19.50	---	1952	Mar. 25	24.68	31,900	1984	Dec. 7	22.60	20,200
1921	Feb. 11	22.50	---	1953	Feb. 25	13.70	6,380	1985	Feb. 7	---	6,000
1922	Feb. 17	20.00	---	1954	Jan. 24	13.57	6,320	1986	Dec. 1	14.66	7,140
1923	Mar. 18	18.80	---	1955	Apr. 15	13.78	6,460	1987	Mar. 3	20.11	13,300
1924	July 10	16.80	---	1956	Apr. 18	18.79	12,400	1988	Feb. 4	10.31	4,380
1925	Jan. 20	20.50	---	1957	Apr. 5	12.48	5,590	1989	July 18	15.81	7,960
1926	Jan. 20	<u>15.50</u>	---	1958	Nov. 20	19.14	13,200	1990	Feb. 19	23.08	21,700
1927	Dec. 30	15.30	7,700	1959	June 3	12.28	5,390	1991	Oct. 13	17.28	9,150
1928	Aug. 17	29.97	56,200	1960	Feb. 14	21.00	18,300	1992	Mar. 7	13.57	6,380
1929	Sept. 28	30.90	60,700	1961	Feb. 26	20.71	17,400	1993	Mar. 28	20.04	13,100
1930	Oct. 2	31.50	63,700	1962	Jan. 7	17.64	10,200	1994	Aug. 19	20.06	14,700
1931	Apr. 1	12.49	5,310	1963	Mar. 13	22.78	24,300	1995	Aug. 28	27.22	38,000
1932	Jan. 9	20.51	16,800	1964	Apr. 8	24.98	33,200	1996	Feb. 3	22.17	19,500
1933	Oct. 19	21.28	19,200	1965	June 16	21.35	16,400	1997	Mar. 2	17.20	10,600
1934	June 7	20.94	18,000	1966	Mar. 5	21.41	16,600	1998	Feb. 5	22.96	21,700
1935	Oct. 12	17.22	9,700	1967	Aug. 26	19.01	10,800	1999	Feb. 1	11.60	5,850
1936	Apr. 8	28.60	49,400	1968	Jan. 11	16.90	8,300				

SANTEE RIVER BASIN

02167500 SALUDA RIVER NEAR SILVERSTREET, S.C.

LOCATION.--Lat 34°10'58", long 81°43'37", Newberry County, Hydrologic Unit 03050109, on left bank 200 ft upstream from Higgins Perry Bridge on State Highway 19, 1.0 mi downstream from Little River, and 2.5 mi south of Silverstreet.

DRAINAGE AREA.--1,620 mi², approximately.

PERIOD OF RECORD.--October 1926 to June 1966. Monthly discharges only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 345.13 ft above sea level, unadjusted. Prior to Oct 15, 1929, staff gage at same site and datum. From March 1939 to June 1966, water-stage recorder for station on Lake Murray near Columbia has been used as an auxiliary gage for this station.

REMARKS.--Flow regulated by Lake Greenwood.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,800 ft³/s, Oct. 3, 1929, gage height, 33.97 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 28,000 ft³/s and extended on basis of discharge measurements made at Chappells and near Chapin.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1928	Aug. 18	30.60	60,400	1941	July 18	15.08	8,610	1954	Apr. 2	14.96	7,760
1929	Sept. 28	32.05	69,800	1942	Mar. 23	22.96	23,700	1955	Apr. 15	16.88	10,400
1930	Oct. 3	33.97	83,800	1943	Jan. 30	21.66	20,100	1956	Apr. 18	18.62	13,200
1931	Apr. 2	12.87	6,180	1944	Mar. 21	26.93	39,100	1957	Apr. 6	14.21	6,620
1932	Jan. 10	21.12	18,600	1945	Apr. 27	15.46	9,130	1958	Nov. 21	---a	15,400
1933	Sept. 8	21.52	19,600	1946	Jan. 9	---	22,800	1959	Sept. 30	---a	6,860
1934	June 7	20.84	18,000	1947	Jan. 21	18.12	13,000	1960	Feb. 14	22.54	21,100
1935	Oct. 11	17.22	11,500	1948	Apr. 2	20.40	14,600	1961	Feb. 26	22.30	20,600
1936	Apr. 8	31.89	63,000	1949	Nov. 30	25.80	32,200	1962	Jan. 7	20.39	15,800
1937	Jan. 6	21.98	20,900	1950	Mar. 8	14.43	6,860	1963	Mar. 14	24.12	26,300
1938	Oct. 23	19.73	15,800	1951	Apr. 4	14.07	6,970	1964	Apr. 9	27.10	39,500
1939	Mar. 2	20.00	16,300	1952	Mar. 25	25.34	28,400	1965	June 17	22.15	20,200
1940	Aug. 15	30.29	58,300	1953	Feb. 25	14.20	6,860				

SANTEE RIVER BASIN

02169000 SALUDA RIVER NEAR COLUMBIA, S.C.

LOCATION.--Lat 34°00'50", long 81°05'17", Richland County, Hydrologic Unit 03050109, on left bank 0.4 mi upstream from site of Old Saluda Mill, 1.6 mi upstream from confluence with Broad River and 3.3 mi west of State Capital in Columbia, and at mile 1.7.

DRAINAGE AREA.--2,520 mi².

PERIOD OF RECORD.--August 1925 to current year.

GAGE.--Data collection platform. Datum of gage is 149.46 ft above sea level. Prior to Sept. 1, 1929, at same site at datum 150.46 ft above sea level.

REMARKS.--Flow regulated by Lake Murray and Lake Greenwood.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,000 ft³/s, Oct. 2, 1929, gage height, 15.22 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 36,000 ft³/s and extended on basis of discharge measurements made at Wise Ferry bridge near Chapin.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1926	Mar. 31	8.75	23,300	1951	Aug. 10	6.29	10,300	1976	July 7	7.99	18,400
1927	July 20	6.62	12,300	1952	June 12	6.39	10,700	1977	Mar. 22	7.95	18,200
1928	Aug. 18	14.04	58,200	1953	Sept. 3	6.13	9,600	1978	Jan. 26	7.80	17,400
1929	Mar. 6	13.43	53,600	1954	Nov. 9	6.10	9,600	1979	Feb. 26	9.53	27,200
1930	Oct. 2	15.22	67,000	1955	Aug. 19	6.03	9,250	1980	Mar. 30	---	² 31,000
1931	Sept. 11	5.86	9,590	1956	Aug. 15	5.65	8,080	1981	July 11	7.68	16,300
1932	Sept. 13	6.12	10,300	1957	Sept. 3	6.07	10,300	1982	Jan. 4	8.30	19,600
1933	Feb. 20	9.04	24,500	1958	Jan. 24	6.77	13,100	1983	Apr. 8	8.54	21,000
1934	Nov. 2	6.44	11,500	1959	Sept. 30	6.26	10,300	1984	Aug. 9	8.03	18,100
1935	Sept. 5	7.17	14,800	1960	Feb. 13	7.02	13,200	1985	Feb. 5	7.99	18,400
1936	Apr. 7	14.53	61,600	1961	Apr. 12	7.33	15,200	1986	Sept. 26	7.75	17,100
1937	Apr. 9	8.74	23,000	1962	Mar. 13	6.83	13,100	1987	Aug. 26	7.69	16,700
1938	Nov. 15	6.28	11,600	1963	Mar. 13	6.83	13,100	1988	Oct. 29	7.21	14,200
1939	Sept. 8	6.04	9,950	1964	Apr. 10	11.25	38,800	1989	Sept. 21	8.05	18,800
1940	Aug. 28	5.95	9,950	1965	June 16	13.32	53,200	1990	Feb. 22	8.52	21,600
1941	Dec. 13	6.15	10,700	1966	Mar. 4	7.16	14,300	1991	Oct. 12	8.81	23,300
1942	June 10	6.92	13,500	1967	Aug. 24	---	¹ 12,000	1992	Sept. 22	7.86	17,700
1943	July 22	6.09	10,300	1968	Jan. 10	7.44	15,700	1993	Apr. 5	8.18	19,500
1944	Mar. 24	9.15	25,700	1969	Apr. 19	10.82	35,700	1994	Aug. 16	8.12	19,200
1945	Sept. 17	6.13	10,300	1970	Aug. 31	6.48	11,400	1995	June 6	8.72	22,800
1946	Apr. 26	9.71	28,700	1971	Aug. 17	8.31	20,400	1996	Mar. 9	8.63	22,300
1947	Dec. 7	6.13	10,300	1972	Jan. 11	7.93	18,200	1997	May 8	7.64	16,500
1948	Apr. 8	8.31	20,400	1973	Apr. 7	8.63	22,300	1998	Feb. 4	8.53	21,700
1949	May 1	9.16	25,700	1974	Feb. 25	8.48	21,400	1999	July 23	7.71	16,800
1950	Nov. 22	6.83	10,700	1975	Feb. 19	8.22	19,800				

¹Discharge is a maximum daily value.

²Discharge is an estimate.

SANTEE RIVER BASIN

02169500 CONGAREE RIVER AT COLUMBIA, S.C.

LOCATION.--Lat 33°59'35", long 81°03'00", Lexington County, Hydrologic Unit 03050110, on right bank at Columbia, 1,000 ft downstream from Gervais Street Bridge, 1.4 mi downstream from confluence of Broad and Saluda Rivers, and at mile 174.8.

DRAINAGE AREA.--7,850 mi², approximately.

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 1,000 ft upstream October 1891 to December 1933 and at present site since January 1934 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is 113.02 ft above sea level.

REMARKS.--Flow regulated by Lake Murray and Lake Greenwood on the Saluda River and to some extent, at low and medium flow, by powerplants on the Broad River. City of Columbia diverts flow above station for municipal supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 155,000 ft³/s, Oct. 11, 1976, gage height, 29.74 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least October 1891, discharge 364,000 ft³/s, Aug. 27, 1908, gage height, 39.8 ft, present datum, based on flood marks from records of the U.S. Weather Bureau at site 1,000 ft upstream and at datum 4.0 ft higher.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 150,000 ft³/s and extended graphically on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1852	Sept. --	34.40	---	1928	Aug. 18	33.50	311,000	1965	Oct. 18	26.18	120,000
1892	Jan. 20	24.60	154,000	1929	Mar. 1	25.90	173,000	1966	Mar. 6	21.74	80,600
1893	Aug. 29	21.10	110,000	1930	Oct. 3	33.10	303,000	1967	Aug. 25	23.78	97,900
1894	Oct. 24	12.70	49,800	1931	Dec. 8	6.70	26,800	1968	Jan. 12	18.81	61,200
1895	Oct. 10	20.40	103,000	1932	Jan. 10	16.70	71,600	1969	Apr. 19	23.37	94,200
1896	Feb. 7	17.80	79,600	1933	<u>Oct. 19</u>	<u>21.50</u>	<u>115,000</u>	1970	Aug. 12	15.44	45,200
1897	Feb. 7	21.50	115,000	1934	Mar. 29	12.70	33,400	1971	Mar. 4	21.55	79,100
1898	Sept. 25	10.20	39,100	1935	Oct. 12	23.30	92,300	1972	Jan. 12	19.26	63,900
1899	Feb. 8	21.70	117,000	1936	Apr. 8	33.34	231,000	1973	Apr. 2	23.99	99,800
1900	Apr. 22	22.00	120,000	1937	Oct. 19	20.56	70,900	1974	Jan. 2	16.87	51,600
1901	Apr. 3	23.00	132,000	1938	Oct. 21	18.42	57,900	1975	Mar. 16	26.47	122,000
1902	Mar. 2	22.00	120,000	1939	Mar. 2	19.93	66,400	1976	Mar. 17	16.16	48,400
1903	June 9	27.20	194,000	1940	Aug. 16	26.14	121,000	1977	Oct. 11	29.74	155,000
1904	Aug. 10	12.20	47,500	1941	July 18	17.19	52,000	1978	Jan. 28	21.87	81,700
1905	Feb. 22	14.70	59,400	1942	Feb. 19	17.31	52,400	1979	Feb. 26	23.46	94,500
1906	Dec. 22	20.30	102,000	1943	Jan. 20	19.44	63,400	1980	Mar. 30	23.29	93,100
1907	June 3	9.00	34,500	1944	Mar. 21	24.57	105,000	1981	Oct. 2	16.81	51,300
1908	Aug. 27	39.80	364,000	1945	Sept. 20	24.30	102,000	1982	Jan. 6	22.20	84,200
1909	June 5	22.00	120,000	1946	Jan. 9	19.21	62,200	1983	Mar. 18	19.65	66,000
1910	Mar. 3	13.80	54,900	1947	Jan. 21	19.42	63,400	1984	Feb. 16	20.30	70,300
1911	Oct. 9	10.90	41,900	1948	Feb. 14	17.72	54,400	1985	Aug. 19	17.52	54,700
1912	Mar. 17	30.70	256,000	1949	Nov. 30	25.56	116,000	1986	Nov. 23	18.37	58,900
1913	Mar. 16	23.20	135,000	1950	Oct. 9	16.77	50,200	1987	Mar. 3	26.67	123,000
1914	Dec. 31	14.60	58,900	1951	Dec. 9	12.27	32,000	1988	Jan. 23	9.78	24,700
1915	Jan. 8	17.40	76,500	1952	Mar. 6	23.20	91,400	1989	Mar. 25	16.17	48,400

1916	July 17	31.50	272,000	1953	Feb. 23	15.28	43,500	1990	Oct. 3	23.37	93,700
1917	Mar. 6	17.80	79,600	1954	Jan. 25	19.66	65,200	1991	Oct. 15	27.94	135,000
1918	Jan. 31	12.20	47,500	1955	Apr. 15	16.06	47,000	1992	Apr. 23	16.78	51,200
1919	Oct. 28	20.70	106,000	1956	Apr. 18	15.22	43,100	1993	Mar. 26	19.49	65,200
1920	Aug. 28	19.50	94,100	1957	Apr. 7	12.00	31,000	1994	Aug. 20	20.59	72,300
1921	Feb. 11	24.30	149,000	1958	May 1	19.46	64,000	1995	Jan. 17	25.95	116,000
1922	Feb. 17	22.20	123,000	1959	Sept. 30	17.63	53,900	1996	Feb. 4	20.97	74,900
1923	Mar. 18	17.70	78,800	1960	Oct. 1	19.68	65,200	1997	Feb. 17	16.69	50,800
1924	Jan. 18	15.60	64,600	1961	Feb. 25	21.08	74,400	1998	Feb. 5	23.55	95,200
1925	Jan. 20	23.50	139,000	1962	Jan. 8	19.69	65,200	1999	Jan. 6	10.51	27,000
1926	Feb. 26	13.00	51,100	1963	Mar. 15	23.09	91,800				
1927	Feb. 25	10.20	39,100	1964	Apr. 10	28.60	142,000				

SANTEE RIVER BASIN

02170000 SANTEE RIVER AT FERGUSON, S.C.

LOCATION.--Lat 33°26'15", long 80°16'20", at Ferguson, Orangeburg County, Hydrologic Unit 03050111, 4 miles downstream from Eutaw Creek, inundated by Lake Marion since 1942.

DRAINAGE AREA.--14,600 mi².

PERIOD OF RECORD.--Sept. 21, 1907 to Nov. 22, 1921 (U.S. Weather Bureau), Nov. 23, 1921 to Sept. 30, 1941.

GAGE.--Nonrecording prior to Nov. 23, 1921, recording thereafter. Datum of gage is 42.30 ft above sea level, supplementary adjustment of 1936.

REMARKS.--Gage heights prior to Nov. 23, 1921, furnished by the U.S. Weather Bureau. Peaks affected since August 1929 by storage in Lake Murray and to a lesser degree since 1904 by storage in reservoirs on Catawba, Wateree, and Broad Rivers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 374,000 ft³/s, July 21, 1916, gage height, 24.74 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 260,000 ft³/s and extended on basis of velocity-area studies.

FLOOD-FREQUENCY DATA.--Flow records at this site were affected by regulation and were not used in this regionalization analyses. Site is currently inundated by Lake Marion; therefore frequency data were not computed.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1908	Aug. 31	23.70	344,000	1920	Apr. 3	14.00	53,000	1931	Jan. 19	12.88	26,000
1909	June 10	15.62	101,000	1921	Feb. 15	17.47	158,000	1932	Jan. 15	13.95	53,000
1910	Mar. 9	13.90	50,000	1922	Feb. 21	15.77	106,000	1933	Jan. 3	14.08	56,000
1911	Jan. 10	13.47	38,000	1923	Mar. 23	15.20	89,000	1934	June 12	13.80	47,000
1912	Mar. 20	19.44	215,000	1924	Jan. 23	13.87	50,000	1935	Oct. 17	13.81	47,000
1913	Mar. 21	15.56	101,000	1925	Jan. 23	17.13	146,000	1936	Apr. 11	20.42	245,000
1914	Jan. 6	14.02	53,000	1926	Mar. 3	13.43	35,900	1937	Jan. 11	14.19	59,000
1915	Jan. 24	14.65	71,000	1927	Mar. 2	13.30	32,500	1938	Oct. 27	13.54	38,000
1916	July 21	24.74	374,000	1928	Aug. 22	20.60	251,000	1939	Mar. 7	15.1	86,000
1917	Mar. 10	14.70	74,000	1929	Mar. 10	17.55	160,000	1940	Aug. 21	14.07	56,000
1918	Feb. 6	13.90	50,000	1930	Oct. 7	21.04	263,000	1941	July 24	¹ 15.98	² 48,000
1919	July 27	17.12	146,000								

¹Affected by backwater; annual maximum gage height occurred on July 25, 1941.

²Maximum daily discharge.

SANTEE RIVER BASIN

02171500 SANTEE RIVER NEAR PINEVILLE, S.C.

LOCATION.--Lat 33°27'15", long 80°09'25", Berkeley County, Hydrologic Unit 03050112, on right bank 2.4 mi downstream from Lake Marion Dam, 3.0 mi upstream from Dead River, 6.7 mi west of Pineville, and at mile 85.0.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Data collection platform. Datum of gage is 22.83 ft above sea level (from South Carolina Geodetic Survey benchmark). Prior to Feb. 25, 1943, nonrecording gage at site 2.2 mi upstream of temporary water-stage recorder operated by U.S. Army Corps of Engineers, at site 200 ft upstream, at different datum.

REMARKS.--Discharge records for 1987-99 water years are computed by utilization of a one-dimensional unsteady flow simulation model (BRANCH). Flow completely regulated by Lake Marion. Water is diverted above station from Lake Marion through Diversion Canal into Lake Moultrie for generation of power and for navigation, then discharged into Cooper River basin and lower Santee.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 155,000 ft³/s, Sept. 23, 1945, gage height, 31.1 ft (from flood marks).

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 14,600 ft³/s and extended by computation of peak flow over spillway at Lake Marion.

FLOOD-FREQUENCY DATA.--Frequency analysis not performed on Santee River near Pineville, S.C., because of regulation. The regulation pattern has been altered since redirection in 1986.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1943	Mar. 27	23.23	32,300	1963	Mar. 18	25.43	52,200	1983	Apr. 16	24.73	32,300
1944	Mar. 24	29.52	122,000	1964	Apr. 13	27.07	77,200	1984	Dec. 13	13.65	25,600
1945	Sept. 23	31.10	155,000	1965	Oct. 22	27.41	88,100	1985	Feb. 12	9.55	3,900
1946	Jan. 9	25.50	55,800	1966	Mar. 9	24.94	51,400	1986	Dec. 6	22.24	16,600
1947	Feb. 8	30.04	132,000	1967	Aug. 26	25.42	52,400	1987	---	---	---
1948	Feb. 17	26.35	73,800	1968	Jan. 17	22.77	23,000	1988	---	---	---
1949	Dec. 4	28.56	114,000	1969	Apr. 20	24.87	45,500	1991	Oct. 18	27.26	---
1950	Aug. 29	---a	782	1970	Mar. 24	24.03	36,400	1992	Mar. 11	8.28	---
1951	June 24	---a	617	1971	Mar. 8	25.51	53,600	1993	Jan. 13	26.69	---
1952	Mar. 11	27.77	89,900	1972	Jan. 21	21.64	19,800	1994	Aug. 24	23.96	---
1953	Mar. 25	7.15	2,830	1973	Apr. 7	25.24	50,100	1995	Jan. 20	26.29	---
1954	Apr. 17	3.53	1,140	1974	Feb. 16	21.94	21,300	1996	Feb. 10	20.10	---
1955	Oct. 15	2.34	653	1975	Mar. 19	27.91	91,700	1997	Mar. 7	19.44	---
1956	Apr. 7	2.51	744	1976	May 8	6.49	2,340	1998	Feb. 3	27.67	---
1957	Apr. 6	3.12	989	1977	Oct. 14	26.01	60,200	1999	Mar. 3	6.29	---
1958	Nov. 30	25.85	59,700	1978	Jan. 31	24.74	43,900				
1959	July 27	12.36	6,840	1979	Mar. 2	27.74	85,000				
1960	Feb. 18	26.57	69,300	1980	Mar. 30	26.58	67,900				
1961	Mar. 3	24.68	46,500	1981	Mar. 16	7.01	2,640				
1962	Mar. 17	24.03	36,100	1982	Jan. 10	26.88	72,000				

SANTEE RIVER BASIN

02171650 SANTEE RIVER BELOW ST. STEPHENS, S.C.

LOCATION.--Lat 33°24'05", long 79°51'20", Berkeley County, Hydrologic Unit 03050112, on right bank, on Tract 13P of Francis Marion National Forest, 3.9 mi east of St. Stephens, 600 ft downstream from Mattassee Lake, and at mile 52.0.

DRAINAGE AREA.--14,900 mi², approximately.

PERIOD OF RECORD.--October 1970 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 0.23 ft above sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 98,900 ft³/s, Mar. 21, 22, 1975, gage height, 29.67 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 83,700 ft³/s and extended graphically on logarithmic plotting paper.

FLOOD-FREQUENCY DATA.--Frequency analysis not performed for this station because of regulation.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1971	Mar. 10	25.77	66,200	1975	Mar. 21	29.67	98,900	1979	Mar. 4	28.98	89,600
1972	Jan. 23	21.29	22,700	1976	July 1	9.00	2,150	1980	Apr. 4	27.52	73,400
1973	Apr. 9	25.32	61,800	1977	Oct. 17	25.93	58,900	1981	Mar. 18	---	1,300
1974	Feb. 21	20.64	19,600	1978	Feb. 3	24.96	50,600				

EDISTO RIVER BASIN

02175000 EDISTO RIVER NEAR GIVHANS, S.C.

LOCATION.--Lat 33°01'40", long 80°23'30", Dorchester County, Hydrologic Unit 03050205, on left bank at downstream side of bridge on State Highway 61, 2.3 mi downstream from Four Hole Swamp, 2.8 mi west of Givhans, and at mile 59.9.

DRAINAGE AREA.--2,730 mi², approximately.

PERIOD OF RECORD.--January 1939 to current year.

REVISED RECORDS.--WSP 1032: Drainage area. WSP 1303: 1939 (monthly and yearly runoff).

GAGE.--Data collection platform. Datum of gage is 20.46 ft above sea level.

REMARKS.--Some flow diverted above station for municipal and industrial water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 24,500 ft³/s, June 14, 1973, gage height, 15.84 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1904, 17.5 ft in February 1925, from investigation by Charleston Commissioners of Public Works, discharge, 24,900 ft³/s.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 24,800 ft³/s.

<u>FLOOD-FREQUENCY DATA (ft³/s)</u>	<u>LOG-PEARSON TYPE III STATISTICS (LOG UNITS)</u>
<u>61 YEARS OF RECORD</u>	Mean = 3.980
<u>LOG-PEARSON TYPE III</u>	Standard Deviation = 0.229
	Station Skew = -0.339
Q ₂ = 9,830	
Q ₅ = 15,000	
Q ₁₀ = 18,400	
Q ₂₅ = 22,500	
Q ₅₀ = 25,600	
Q ₁₀₀ = 28,500	
Q ₂₀₀ = 31,400	
Q ₅₀₀ = 35,200	

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1904	Aug. --	17.00	---	1956	Feb. 14	9.54	5,440	1978	Feb. 2	12.80	10,400
1919	July 31	14.00	---	1957	May 21	7.89	3,610	1979	Sept. 9	15.51	22,400
1924	Sept. --	15.50	---	1958	Apr. 22	13.13	12,000	1980	Mar. 19	13.99	14,700
1925	Feb. --	17.50	24,900b	1959	Mar. 9	13.90	14,100	1981	Feb. 26	7.61	3,030
1928	Sept. 11	15.70	19,500b	1960	Apr. 11	14.29	14,600	1982	Jan. 9	11.46	7,490
1939	Mar. 6	14.68	16,900	1961	Apr. 20	14.05	14,100	1983	Mar. 22	13.84	14,000
1940	Aug. 15	13.03	12,600	1962	Mar. 6	12.41	10,200	1984	May 12	13.92	14,300
1941	July 5	12.64	10,800	1963	Jan. 29	11.80	8,060	1985	Feb. 17	9.94	5,200
1942	Dec. 30	13.48	13,100	1964	July 29	15.12	19,800	1986	Dec. 19	12.60	9,940
1943	Mar. 30	11.32	8,010	1965	Oct. 21	15.14	19,900	1987	Mar. 8	12.70	10,200
1944	Mar. 30	13.44	13,100	1966	Mar. 11	13.63	13,100	1988	Sept. 18	7.78	3,150
1945	Sept. 21	17.28	24,300	1967	Jan. 13	9.83	4,910	1989	Apr. 19	10.34	5,770
1946	Jan. 24	11.58	8,940	1968	June 20	10.07	5,250	1990	Oct. 10	11.11	6,830
1947	Apr. 22	11.38	8,540	1969	May 26	12.93	10,800	1991	Feb. 5	13.59	13,000
1948	Apr. 6	14.38	15,200	1970	Apr. 6	13.07	11,200	1992	Aug. 26	11.71	7,920
1949	Dec. 3	14.62	15,800	1971	Mar. 11	13.90	14,200	1993	Jan. 15	15.58	22,700
1950	Sept. 12	8.66	4,090	1972	Feb. 7	13.10	11,300	1994	Mar. 10	10.96	6,580
1951	Apr. 9	9.21	4,790	1973	June 14	15.84	24,500	1995	Feb. 25	13.70	13,400
1952	Apr. 2	11.27	7,950	1974	Feb. 22	12.56	9,800	1996	Mar. 21	10.66	6,150
1953	Mar. 7	12.26	10,400	1975	Feb. 26	12.52	9,690	1997	Feb. 26	9.99	5,250
1954	Jan. 6	7.91	3,610	1976	July 8	12.63	9,980	1998	Feb. 9	14.42	16,300
1955	Sept. 16	8.81	4,540	1977	Dec. 19	12.06	8,610	1999	Feb. 6	9.49	4,700

COMBAHEE RIVER BASIN

02175500 SALKEHATCHIE RIVER NEAR MILEY, S.C.

LOCATION.--Lat 32°59'20", long 81°03'10", Hampton County, Hydrologic Unit 03050207, on right bank 90 ft downstream from bridge on U.S. Highway 601, 2.4 mi downstream from Savannah Creek, 3.1 mi upstream from Hampton and Branchville Railroad bridge, 3.1 mi northwest of Miley, and at mile 68.0.

DRAINAGE AREA.--341 mi².

PERIOD OF RECORD.--February 1951 to current year.

GAGE.--Data collection platform. Datum of gage is 64.35 ft above sea level. Dec. 6, 1957 to Jan. 22, 1971, nonrecording gage at same site and datum. Prior to Dec. 6, 1957, nonrecording gage at bridge 90 ft upstream at same datum.

REMARKS.--Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 4,360 ft³/s, October 9, 1992, gage height, 5.79 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 2,700 ft³/s and graphically extended on logarithmic plotting paper.

FLOOD-FREQUENCY DATA (ft³/s)

48 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 1,500
- Q₅ = 2,220
- Q₁₀ = 2,770
- Q₂₅ = 3,540
- Q₅₀ = 4,160
- Q₁₀₀ = 4,840
- Q₂₀₀ = 5,570
- Q₅₀₀ = 6,630

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

- Mean = 3.184
- Standard Deviation = 0.198
- Station Skew = 0.281

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1952	Mar. 28	4.02	905	1968	June 13	4.32	1,340	1984	May 9	4.90	2,200
1953	Sept. 30	4.04	950	1969	May 20	4.90	2,200	1985	Feb. 9	4.07	985
1954	May 15	3.87	860	1970	Apr. 2	4.57	1,700	1986	Dec. 14	5.35	2,850
1955	Apr. 15	4.02	950	1971	Mar. 4	4.48	1,570	1987	Mar. 2	4.77	1,840
1956	May 6	---a	774	1972	Feb. 4	---	2,000	1988	Sept. 12	4.19	1,070
1957	Mar. 26	3.68	732	1973	June 20	4.93	2,240	1989	Apr. 14	3.98	869
1958	Apr. 17	4.21	1,140	1974	Feb. 18	4.53	1,650	1990	Oct. 6	4.32	1,110
1959	Mar. 7	4.61	1,600	1975	July 20	5.00	2,350	1991	Aug. 4	5.39	3,120
1960	Apr. 6	4.94	1,880	1976	July 7	4.83	2,100	1992	June 14	4.31	1,290
1961	Apr. 17	4.48	1,390	1977	Mar. 24	4.34	1,480	1993	Oct. 9	5.79	4,360
1962	Mar. 15	4.33	1,200	1978	Jan. 28	4.63	1,800	1994	July 1	4.21	1,090
1963	Jan. 23	4.24	1,100	1979	Sept. 6	5.34	3,050	1995	Aug. 27	5.33	2,970
1964	Sept. 2	4.99	2,340	1980	Mar. 13	5.44	3,300	1996	Mar. 20	4.09	973
1965	Oct. 17	5.06	2,230	1981	Oct. 2	3.88	771	1997	Jan. 31	4.23	1,090
1966	Mar. 6	5.00	2,200	1982	Jan. 5	4.17	1,110	1998	Mar. 11	5.29	2,870
1967	Mar. 13	4.60	1,740	1983	Feb. 17	4.19	1,140	1999	July 16	4.01	899

SAVANNAH RIVER BASIN

02187000 SENECA RIVER NEAR ANDERSON, S.C.

LOCATION.--Lat 34°29'10", long 82°49'45", Anderson County, Hydrologic Unit 03060101, on right bank, 0.25 mi downstream from bridge on State Highway 80, 1.9 mi downstream from Deep Creek, 4.2 mi upstream from confluence with Tugaloo River, and 10 mi west of Anderson.

DRAINAGE AREA.--1,030 mi².

PERIOD OF RECORD.--June 1928 to January 1960. Monthly discharge only for some periods published in WSP 1303.

GAGE.--Water-stage recorder. Elevation of gage is 520 ft (from U.S. Army Corps of Engineers profile). May 28, 1928, to January 23, 1929, staff gage and January 24, 1929 to October 12, 1933, water-stage recorder at site 15 ft downstream at same datum.

REMARKS.--During the period of record, there was some regulation at low flow by powerplants above station. The site was inundated by Hartwell Lake in 1960. Drainage area includes of more than one physiographic province.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 81,100 ft³/s, Aug. 17, 1928, gage height, 25.75 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--At least 90,200 ft³/s, Feb. 15, 1960, gage height, 25.72 ft, from current-meter measurement.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 18,000 ft³/s and graphically extended on logarithmic plotting paper.

FLOOD-FREQUENCY DATA (ft³/s)

50 YEARS OF RECORD

LOG-PEARSON TYPE III

- Q₂ = 22,900
- Q₅ = 35,600
- Q₁₀ = 45,200
- Q₂₅ = 58,700
- Q₅₀ = 69,800
- Q₁₀₀ = 81,800
- Q₂₀₀ = 94,700
- Q₅₀₀ = 114,000

LOG-PEARSON TYPE III STATISTICS (LOG UNITS)

- Mean = 4.368
- Standard Deviation = 0.221
- Station Skew = 0.190

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1928	Aug. 17	25.75	81,100	1939	Aug. 19	15.68	33,300	1950	Oct. 8	13.51	24,300
1929	Mar. 5	14.72	25,900	1940	Aug. 14	18.30	45,600	1951	Oct. 21	10.31	13,900
1930	Oct. 2	13.90	23,100	1941	July 7	10.13	13,300	1952	Mar. 12	15.37	32,000
1931	Nov. 17	8.20	7,800	1942	Feb. 17	15.25	31,100	1953	Feb. 22	13.21	23,200
1932	Dec. 15	12.14	17,500	1943	Dec. 30	12.54	20,800	1954	Jan. 23	13.26	23,600
1933	Oct. 18	17.73	37,600	1944	Mar. 20	13.05	22,600	1955	Feb. 7	11.74	18,400
1934	Mar. 5	12.16	19,800	1945	Mar. 27	8.30	8,850	1956	Apr. 17	11.69	18,000
1935	Jan. 10	12.24	19,800	1946	Jan. 7	17.26	40,600	1957	Apr. 6	12.89	22,200
1936	Apr. 7	19.04	49,200	1947	Jan. 21	11.76	18,400	1958	Nov. 20	9.88	12,800
1937	Oct. 1	20.07	55,200	1948	Aug. 5	10.84	15,300	1959	Apr. 13	11.00	15,300
1938	Oct. 20	14.42	27,900	1949	Nov. 29	15.11	30,700				

SAVANNAH RIVER BASIN

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, Hydrologic Unit 03060103, on left bank at downstream side of bridge on State Highway 184, 0.5 mi upstream from Little Generostee Creek, 5.8 mi southwest of Iva, and at mile 296.5.

DRAINAGE AREA.--2,230 mi².

PERIOD OF RECORD.--October 1949 to September 1981. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 432.26 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Flow regulated by powerplants above station, by Burton and Mathis Reservoirs, and by Hartwell Lake. Currently in backwater from Richard B. Russell Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 54,400 ft³/s, Mar. 12, 1952, gage height, 12.74 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 52,300 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1950	Oct. 10	---	27,500	1961	Mar. 7	5.79	10,400	1972	Jan. 7	8.43	31,000
1951	Oct. 21	8.98	27,200	1962	Dec. 18	7.89	21,200	1973	Dec. 15	8.57	32,000
1952	Mar. 12	12.74	54,400	1963	Apr. 30	7.86	21,400	1974	Aug. 9	8.01	28,100
1953	Feb. 22	10.44	36,800	1964	Apr. 8	11.25	44,300	1975	Mar. 13	8.82	33,700
1954	Jan. 16	11.28	44,200	1965	Oct. 5	8.87	29,500	1976	Mar. 31	8.23	29,600
1955	Feb. 7	10.04	34,000	1966	Mar. 4	9.79	35,000	1977	Mar. 30	8.12	28,800
1956	Apr. 16	9.65	31,200	1967	June 6	8.88	30,800	1978	Jan. 25	8.47	31,300
1957	Apr. 6	10.08	34,800	1968	Jan. 12	8.58	29,000	1979	Apr. 13	8.73	33,300
1958	Nov. 19	9.67	32,000	1969	May 2	8.44	28,100	1980	Mar. 28	8.36	30,500
1959	Apr. 13	8.22	22,000	1970	July 29	8.51	28,600	1981	July 24	7.99	27,800
1960	Apr. 6	6.16	12,300	1971	Mar. 3	8.96	31,300				

SAVANNAH RIVER BASIN

02188000 ROCKY RIVER NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°07'40", long 82°37'56", Abbeville County, Hydrologic Unit 03060103, on right bank, 2,000 ft upstream from Swanigan Mill bridge on county road, 3.2 mi northwest of Calhoun Falls, and 3.8 mi upstream from mouth.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--February 1950 to September 1966, crest-stage, partial-record station 1971-82

GAGE.--Digital water-stage recorder. Datum of gage is 403.04 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Aug. 13, 1964, graphic water-stage recorder at same site and datum.

REMARKS.--Flow regulated by Lake Secession (storage capacity, about 1.12 x 10⁹ cubic feet). City of Abbeville diverts a small amount of water during year for municipal supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 10,900 ft³/s, Mar. 26, 1964, gage height, 12.79 ft.

STAGE-DISCHARGE RELATION.--Defined by current-meter measurements below 8,450 ft³/s and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1951	Dec. 7	3.44	1,240	1961	Feb. 25	6.81	4,360	1975	Mar. 13	11.57	9,380
1952	Mar. 25	9.44	9,450	1962	Feb. 22	5.42	2,960	1976	Mar. 17	6.08	3,380
1953	Mar. 23	4.54	2,240	1963	Mar. 13	7.68	5,330	1977	Oct. 9	7.50	4,800
1954	Jan. 23	5.09	2,880	1964	Mar. 26	12.79	10,900	1978	Oct. 26	6.84	4,140
1955	Feb. 6	4.92	2,700	1965	Oct. 6	12.51	10,600	1979	Apr. 13	11.40	9,180
1956	Sept. 27	6.22	4,110	1966	Mar. 5	9.57	7,030	1980	---	---	---
1957	Apr. 5	3.60	1,260	1971	Mar. 3	10.65	8,280	1981	Oct. 1	9.24	6,660
1958	Nov. 20	7.45	5,000	1972	Jan. 11	7.21	4,510	1982	Jan. 4	9.56	2,020
1959	Sept. 7	6.23	3,860	1973	Apr. 1	5.86	3,160				
1960	Feb. 14	5.87	3,560	1974	Jan. 9	11.20	8,940				

SAVANNAH RIVER BASIN

02189000 SAVANNAH RIVER NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°04'15", long 82°38'30", Abbeville County, Hydrologic Unit 03060103, on left bank 150 ft upstream from bridge on State Highway 72, 1.0 mi downstream from Seaboard Coast Line Railway bridge, 1.5 mi downstream from Rocky River, 3.0 mi southwest of Calhoun Falls, and at mile 279.7.

DRAINAGE AREA.--2,880 mi².

PERIOD OF RECORD.--August 1896 to August 1898, March 1899 to December 1900, January to December 1903, March 1930 to July 1932, April 1938 to 1981. Published as "at Calhoun Falls" 1897-99. Records for January 1901 to December 1902, published in WSP 65, 75, and 83 have been found unreliable, and should not be used. Gage-height records collected at original site 1.0 mi upstream during 1899-1928 and at present site since 1928 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 363.53 ft above sea level. Prior to July 1, 1928, nonrecording gage at railroad bridge 1.0 mi upstream at altitude 369.0 ft.

REMARKS.--During the period of record, flow regulated by powerplants above station, by Burton and Mathis Reservoirs, and by Lake Hartwell. In 1984, the site was inundated by Richard B. Russell Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 96,500 ft³/s, Aug. 13, 1940, gage height, 11.52 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 25, 1908, reached a stage of 28.2 ft at original site and datum, from records of National Weather Service.

STAGE-DISCHARGE RELATION.--Defined by current meter measurements below 50,000 ft³/s. Extended above 50,000 ft³/s by velocity-area studies.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1897	Apr. 5	15.30	57,400	1927	Dec. 29	8.50	27,800	1955	Feb. 7	6.89	40,200
1900	Feb. 14	19.70	76,500	1928	Aug. 17	11.90	130,000	1956	Sept. 26	7.02	40,200
1901	Sept. 18	17.40	66,500	1929	Sept. 27	8.70	85,400	1957	Apr. 6	6.79	38,100
1902	Feb. 28	19.60	76,100	1930	Oct. 2	10.10	105,000	1958	Nov. 19	6.76	38,100
1903	June 7	15.40	57,800	1931	Apr. 23	4.22	15,800	1959	June 2	6.41	32,800
1904	Aug. 9	9.90	33,900	1932	Dec. 4	7.10	41,400	1960	Feb. 13	5.03	19,600
1905	July 2	13.00	47,400	1933	Oct. 17	11.60	97,600	1961	Mar. 8	4.79	17,400
1906	Mar. 20	11.80	42,200	1934	June 5	7.00	39,400	1962	Dec. 19	5.62	26,000
1907	Oct. 4	9.90	33,900	1935	Jan. 10	6.00	29,400	1963	Apr. 30	6.12	30,900
1908	Aug. 25	28.20	114,000	1936	Apr. 7	11.50	96,200	1964	Apr. 8	8.08	60,000
1909	June 4	12.20	43,900	1937	Oct. 1	9.00	63,000	1965	Oct. 6	6.91	44,800
1910	Mar. 1	12.50	45,200	1938	Oct. 20	8.20	53,100	1966	Mar. 4	7.50	52,500
1911	Jan. 4	7.50	23,500	1939	Aug. 19	7.88	49,600	1967	June 5	6.76	39,900
1912	Mar. 16	19.50	75,700	1940	Aug. 13	11.52	96,500	1968	Jan. 10	6.17	33,200
1913	Mar. 15	13.20	48,300	1941	July 7	6.70	36,300	1969	Jan. 20	7.04	43,400
1914	Dec. 30	7.20	22,200	1942	Feb. 18	7.73	47,200	1970	July 29	5.89	32,000
1915	July 1	10.90	38,300	1943	Jan. 18	8.21	53,100	1971	Mar. 4	6.97	45,600
1916	Dec. 30	12.40	44,800	1944	Mar. 20	7.91	49,500	1972	Jan. 10	6.20	35,700
1917	Mar. 25	11.30	40,000	1945	Apr. 25	6.40	33,300	1973	Dec. 16	6.80	43,400
1918	Aug. 3	8.10	26,100	1946	Jan. 8	9.41	68,400	1974	Apr. 5	5.84	31,400
1919	Dec. 23	15.70	59,100	1947	Jan. 20	7.47	44,800	1975	Mar. 14	7.32	47,100
1920	Dec. 10	16.60	63,100	1948	Mar. 7	6.11	29,800	1976	Mar. 16	6.72	39,400
1921	Feb. 9	14.00	51,800	1949	Nov. 29	8.94	61,800	1977	Mar. 30	6.35	35,200
1922	Mar. 11	10.10	34,800	1950	Oct. 8	5.98	29,400	1978	Jan. 26	7.16	45,000
1923	Dec. 19	10.30	35,700	1951	Oct. 21	5.98	28,800	1979	Apr. 13	7.78	52,900
1924	Sept. 21	11.30	40,000	1952	Mar. 24	8.65	58,000	1980	Mar. 28	10.30	91,400
1925	Jan. 19	9.40	31,700	1953	Feb. 22	6.94	38,400				
1926	Jan. 19	8.60	28,300	1954	Jan. 17	7.44	44,600				

SAVANNAH RIVER BASIN

02195000 SAVANNAH RIVER NEAR CLARKS HILL, S.C.

LOCATION.--Lat 33°38'40", long 82°12'05", McCormick County, Hydrologic Unit 03060107, on right bank 1.2 mi downstream of Thurmond Dam, 2.4 mi southwest of Clarks Hill, 2.5 miles upstream from Kiokee Creek, and at mile 221.1 upstream from Savannah, Ga.

DRAINAGE AREA.--6,150 mi² (approximately).

PERIOD OF RECORD.--May 1940 to June 1954.

GAGE.--Water-stage recorder. Datum of gage is 182.69 ft above sea level (levels by U.S. Army Corps of Engineers). Auxiliary water-stage recorder 6.3 miles downstream.

REMARKS.--Prior to December 1951 some regulation by Burton and Mathis Reservoirs and powerplants above station. From 1951 flow completely regulated by Thurmond Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 196,000 ft³/s, Aug. 14, 1940, gage height, 29.34 ft.

STAGE-DISCHARGE RELATION.--Defined by discharge measurements throughout entire range of flows.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
¹ 1940	Aug. 14	29.34	196,000	1945	Apr. 26	15.72	61,200	1950	Oct. 9	11.61	36,800
1941	July 8	14.12	54,900	1946	Jan. 8	22.11	110,000	1951	Oct. 22	14.54	48,700
1942	Mar. 23	20.77	99,300	1947	Jan. 21	19.99	87,000	² 1952	Mar. 7	11.56	35,400
1943	Jan. 20	22.16	111,000	1948	Feb. 10	16.61	63,600	1953	May 7	10.52	30,000
1944	Mar. 21	22.31	111,000	1949	Nov. 30	26.35	154,000	³ 1954	Mar. 30	10.67	30,000

¹Period May to September.

²March 25, 1952.

³Period October to June.

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah River Bluff lock and dam, 0.2 mi upstream from Butler Creek, 12.0 mi downstream from Augusta, and at mile 187.4.

DRAINAGE AREA.--7,510 mi², including that of Butler Creek.

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharges only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932 (M). WRD SC-77-1: 1975. WRD SC-94-1: Peaks outside period of record, 1796, 1840, 1852, 1864, 1865, 1908.

GAGE.--Data collection platform. Datum of gage is 96.58 ft above sea level (U.S. Army Corps of Engineers bench mark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft above sea level (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street bridge at datum 104.56 ft above sea level (levels by U.S. Army Corps of Engineers). Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi downstream from present site and at present datum.

REMARKS.--Flow regulated by Hartwell Lake, by Thurmond Lake, and by Richard B. Russell Lake, and by other powerplants above station. Minor regulation from Lake Burton and Mathis Reservoir. Peaks for periods of nonrecording gage are from graphs based on gage readings by the U.S. Weather Bureau (now National Weather Service) and the city of Augusta. Gage heights for June 11, 1927 to July 31, 1932, furnished by Savannah River Electric Co. Subsequent to Sept. 30, 1938, gage heights collected in cooperation with the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 350,000 ft³/s, Oct. 3, 1929; maximum gage height, 46.3 ft, Sept. 27, 1929 (at site and datum then in use).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 17, 1796, reached a stage of about 40 ft (at site and datum of Fifth Street gage), marked by local residents; discharge approximately 360,000 ft³/s, by slope conveyance study. Little information exists and the data are considered approximate. Data furnished by the U.S. Army Corps of Engineers.

STAGE-DISCHARGE RELATION.--Defined for period prior to levee construction (completed in 1914) by current-meter measurements below 127,000 ft³/s and by slope-conveyance study at 360,000 ft³/s. Defined for subsequent period by current-meter measurements below 300,000 ft³/s and by computation of flow over Stevens Creek Dam to 350,000 ft³/s. Bankfull stage and discharge, 21 ft and 36,000 ft³/s. At site used prior to Oct. 1, 1936, bankfull stage and discharge, 32 ft and approximately 110,000 ft³/s.

FLOOD FREQUENCY DATA.--The flood-frequency relation for this station was computed by routing pre-regulation hydrographs through the existing system of reservoirs using the methodology described by Sanders and others (1990). Interested individuals should consult this reference for further frequency information at this site.

SAVANNAH RIVER BASIN
02197000 SAVANNAH RIVER AT AUGUSTA, GA., Continued

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
¹ 1796	Jan. 17	40.00*	360,000*	1916	Feb. 3	31.00	82,400	⁴ 1961	Apr. 2	20.56	34,800
1840	May 28	37.50	270,000*	1917	Mar. 6	29.20	68,000	1962	Jan. 9	20.09	32,500
1852	Aug. 29	36.80	250,000*	1918	Jan. 30	25.50	45,500	1963	Mar. 23	19.52	31,300
² 1864	Jan. 1	34.00	185,000*	1919	Dec. 24	35.00	128,000	1964	Apr. 9	24.16	87,100
1865	Jan. 11	36.40	240,000*	1920	Dec. 11	35.40	133,000	1965	Dec. 27	20.62	34,600
1876	Dec. 30	28.60	86,400	1921	Feb. 11	35.10	129,000	1966	Mar. 6	21.50	39,300
1877	Apr. 14	31.40	119,000	1922	Feb. 16	32.00	92,000	1967	Aug. 25	18.10	26,500
1878	Nov. 23	23.50	51,500	1923	Feb. 28	28.00	59,700	1968	Jan. 12	20.94	35,900
1879	Aug. 3	22.00	44,000	1924	Sept. 22	28.00	59,700	1969	Apr. 21	22.24	45,600
1880	Dec. 16	30.10	102,000	1925	Jan. 20	36.50	150,000	1970	Apr. 1	17.68	25,200
1881	Mar. 18	32.20	130,000	1926	Jan. 20	27.30	55,300	1971	Mar. 5	23.30	63,900
1882	Sept. 12	29.30	93,300	1927	Dec. 30	24.00	39,000	1972	Jan. 20	20.36	33,700
1883	Jan. 22	30.80	111,000	1928	Aug. 17	40.40	226,000	1973	Apr. 8	21.63	40,200
1884	Apr. 16	28.00	81,000	1929	Sept. 27	46.30	343,000	1974	Feb. 23	20.13	32,900
1885	Jan. 26	27.50	77,000	1930	Oct. 2	45.10	350,000	1975	Mar. 25	22.24	45,600
1886	May 21	32.50	135,000	1931	Nov. 17	19.90	26,100	1976	June 5	20.27	33,300
1887	July 31	34.50	173,000	1932	Jan. 9	30.40	93,800	1977	Apr. 7	20.50	34,200
1888	Sept. 11	38.70	303,000	1933	Oct. 18	30.30	92,600	1978	Jan. 26	21.98	43,100
1889	Feb. 19	33.30	149,000	1934	Mar. 5	28.50	73,200	1979	Feb. 27	21.13	37,300
1890	Feb. 27	22.90	48,500	1935	Mar. 15	27.40	63,700	1980	Mar. 31	22.33	47,200
1891	Mar. 10	35.50	197,000	1936	Apr. 8	41.20	258,000	1981	Feb. 12	14.70	17,700
1892	Jan. 20	32.80	140,000	1937	Jan. 4	30.10	91,400	1982	Jan. 2	19.39	30,700
1893	Feb. 14	25.00	60,000	1938	<u>Oct. 21</u>	<u>30.10</u>	<u>91,400</u>	⁵ 1983	Apr. 10	23.21	66,100
1894	Aug. 7	24.00	54,000	1939	Mar. 2	24.10	90,900	1984	Mar. 5	20.35	34,000
1895	Jan. 11	30.40	106,000	1940	Aug. 15	29.40	239,000	1985	Feb. 7	17.89	25,700
1896	July 10	30.50	107,000	1941	July 8	22.89	53,300	1986	Oct. 3	15.74	21,000
1897	Apr. 6	29.30	93,300	1942	Mar. 23	24.56	105,000	1987	Mar. 6	18.98	29,200
1898	Sept. 2	31.30	117,000	1943	Jan. 20	25.10	117,000	1988	Feb. 5	10.61	13,600
1899	Feb. 8	31.00	113,000	1944	Mar. 22	25.53	128,000	1989	Sept. 22	15.33	20,200
1900	Feb. 15	32.70	138,000	1945	Apr. 27	23.16	64,000	1990	Feb. 27	20.69	35,300
1901	Apr. 4	31.80	124,000	1946	Jan. 9	24.43	97,200	1991	Oct. 13	22.80	59,200
1902	Mar. 1	34.60	175,000	1947	Jan. 22	23.97	86,000	1992	Mar. 27	16.29	22,100
1903	Feb. 9	33.20	147,000	1948	<u>Feb. 10</u>	23.90	<u>83,200</u>	1993	Jan. 14	21.81	45,100
1904	Aug. 10	25.50	63,000	1949	Nov. 30	26.61	154,000	1994	Jul. 1	21.40	40,700
1905	Feb. 14	25.80	64,800	1950	Oct. 9	20.10	32,500	1995	Feb. 19	20.48	33,600
1906	Jan. 5	29.60	96,600	1951	Oct. 22	22.32	46,300	1996	Feb. 5	20.48	34,400
1907	Oct. 5	23.60	52,000	³ 1952	Mar. 6	21.53	39,300	1997	Mar. 10	18.11	26,300
1908	Aug. 27	38.80	307,000	1953	May 8	20.80	35,200	1998	Feb. 7	21.63	43,000
1909	June 5	28.70	87,300	1954	Mar. 30	17.39	25,500	1999	Feb. 2	14.72	19,000
1910	Mar. 2	26.40	69,800	1955	Apr. 15	16.77	23,900				
1911	Apr. 14	19.10	32,800	1956	Apr. 12	14.70	18,600				
1912	Mar. 17	36.80	234,000	1957	May 7	14.08	18,000				
1913	Mar. 16	35.10	156,000	1958	Apr. 18	22.91	66,300				
1914	Dec. 31	24.30	48,000	1959	June 8	18.65	28,500				
1915	Jan. 20	28.20	61,000	1960	Feb. 14	20.58	34,900				

¹Flood of January 17, 1796, reached a stage of about 40 ft (at site and datum of Fifth Street gage), marked by local residents; discharge approximately 360,000 ft³/s, by slope conveyance study. Little information exists and the data are considered approximate. Data furnished by the U.S. Army Corps of Engineers.

²U.S. House of Representatives Document No. 64.

³Filling of Thurmond Lake began in December 1951.

⁴Filling of Hartwell Lake began in February 1961.

⁵Filling of Russell Lake began in October 1984. *Estimated values.

SAVANNAH RIVER BASIN

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County (GA) – Allendale County (S.C.), Georgia-South Carolina state line, Hydrologic Unit 03060106, on right bank 500 ft downstream from U.S. Highway 301 bridge, 2.0 mi downstream from Rocky Creek, 9.0 mi east of Millhaven, and at mile 118.7 (revised).

DRAINAGE AREA.--8,650 mi², approximately.

PERIOD OF RECORD.--October 1939 to September 1970, October 1982 to current year.

GAGE.--Data collection platform. Datum of gage is 52.42 ft above sea level.

REMARKS.--Flow regulated by Thurmond Lake and affected by regulation of Hartwell Lake and Richard B. Russell Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 141,000 ft³/s, Aug. 18, 1940, gage height, 27.0 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1929 reached a stage of 30.8 ft from information by U.S. Army Corps of Engineers, discharge, 220,000 ft³/s, from rating curve extended graphically above 141,000 ft³/s on logarithmic plotting paper.

STAGE-DISCHARGE RELATION.--Defined by current meter measurements by U.S. Army Corps of Engineers up to 141,000 ft³/s, which is maximum for period of record.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1930	Oct. 5	30.80	220,000	1956	Mar. 19	11.95	13,700	1985	Feb. 10	14.69	19,700
1940	Aug. 18	27.00	141,000	1957	May 11	12.27	13,900	1986	Nov. 25	12.71	15,200
1941	July 13	18.20	38,400	1958	Apr. 22	18.94	41,400	1987	Mar. 10	16.79	27,600
1942	Mar. 26	22.00	73,000	1959	June 13	16.59	27,400	1988	Oct. 2	10.80	11,900
1943	Jan. 23	22.60	80,900	1960	Feb. 17	18.28	37,100	1989	Mar. 26	14.73	19,800
1944	Mar. 26	23.40	89,300	1961	Apr. 24	17.60	32,400	1990	Mar. 2	18.14	36,000
1945	May 1	18.80	42,900	1962	Jan. 15	16.75	27,400	1991	Oct. 17	17.66	32,700
1946	Jan. 12	21.60	68,600	1963	Mar. 27	17.22	29,200	1992	Mar. 30	14.17	18,300
1947	Jan. 25	21.53	67,500	1964	Apr. 15	22.10	71,700	1993	Jan. 10	18.66	39,600
1948	Feb. 14	21.10	61,000	1965	Apr. 4	17.66	32,800	1994	Aug. 26	17.79	33,600
1949	Dec. 3	24.91	108,000	1966	Mar. 9	18.05	37,100	1995	Mar. 1	17.86	34,100
1950	Oct. 14	14.87	18,500	1967	June 17	15.47	22,000	1996	Feb. 16	17.70	33,000
1951	Oct. 27	16.53	25,700	1968	Jan. 16	16.64	26,800	1997	Mar. 14	16.95	28,400
1952	Mar. 29	18.26	38,500	1969	Apr. 25	18.31	37,200	1998	Feb. 10	18.70	39,900
1953	May 13	17.52	31,800	1970	Apr. 4	14.14	18,200	1999	Feb. 5	12.84	16,100
1954	Apr. 6	14.40	17,600	1983	Apr. 15	---	60,000				
1955	Apr. 18	13.21	15,000	1984	May 12	17.83	33,900				

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.

LOCATION.--Lat 32°31'30", long 81°15'45", Effington County (GA) – Jasper County (S.C.), Hydrologic Unit 03060109, at Georgia-South Carolina State line, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 mi north of Clyo, and at mile 60.9.

DRAINAGE AREA.--9,850 mi², approximately.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage heights prior to 1930 furnished by U.S. Army Corps of Engineers and those for 1930-37 furnished by National Weather Service.

GAGE.--Data-collection platform. Datum of gage is 13.39 ft above sea level. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum. All gage readings have been adjusted to present datum.

REMARKS.--Flow regulated by Hartwell Lake, by Thurmond Lake, Richard B. Russell Lake, and by other powerplants above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 270,000 ft³/s, Oct. 6, 1929, gage height, 29.7 ft present datum (from information by U.S. Army Corps of Engineers).

STAGE-DISCHARGE RELATION.--Defined by current meter measurements up to 130,000 ft³/s, and graphically extended on logarithmic plotting paper.

Peak Stages and Discharges

Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)	Water Year	Date	Gage Height (ft)	Discharge (ft ³ /s)
1925	Jan. 24	23.90	134,000	1950	Oct. 19	12.21	16,000	1975	Mar. 24	17.83	50,600
1926	Jan. 28	15.40	31,400	1951	Nov. 1	13.38	22,600	1976	June 14	15.87	33,500
1927	Mar. 6	13.40	20,600	1952	Apr. 2	16.90	41,300	1977	Dec. 22	15.85	33,400
1928	Aug. 23	22.30	106,000	1953	May 17	15.80	35,800	1978	Feb. 3	16.81	38,700
1929	Mar. 11	23.60	128,000	1954	Apr. 12	12.49	18,800	1979	Apr. 27	16.34	36,600
1930	Oct. 6	29.70	270,000	1955	Apr. 23	11.35	15,500	1980	Apr. 2	18.40	58,600
1931	Nov. 28	12.77	18,200	1956	Mar. 22	10.47	14,100	1981	Feb. 16	10.39	13,600
1932	Jan. 15	19.18	59,600	1957	May 15	11.15	15,000	1982	Jan. 11	12.89	19,500
1933	Jan. 4	19.20	59,600	1958	Apr. 25	17.41	45,500	1983	Apr. 17	18.40	58,600
1934	June 15	17.20	43,800	1959	June 18	14.36	26,000	1984	May 14	16.48	37,700
1935	Mar. 22	15.20	29,100	1960	Feb. 19	17.35	40,900	1985	Feb. 15	12.89	19,500
1936	Apr. 13	26.00	176,000	1961	Apr. 25	16.20	34,900	1986	Nov. 28	11.50	15,800
1937	Jan. 11	19.40	65,800	1962	Jan. 19	14.98a	28,200	1987	Mar. 13	15.57	29,700
1938	Apr. 16	17.80	48,400	1963	Mar. 31	15.27	29,200	1988	Oct. 4	8.93	11,400
1939	Mar. 8	20.40	70,100	1964	Apr. 18	20.22	83,800	1989	Sep. 26	10.54	14,200
1940	Aug. 22	23.60	128,000	1965	Apr. 6	16.52	38,000	1990	Mar. 5	16.70	39,400
1941	July 17	16.30	36,500	1966	Mar. 11	17.10	42,800	1991	Oct. 20	16.09	34,900
1942	Mar. 29	20.00	73,000	1967	June 22	13.67	22,500	1992	Apr. 3	12.57	17,600
1943	Jan. 27	20.00	73,000	1968	Jan. 21	14.84	28,000	1993	Jan. 13	18.51	60,100
1944	Mar. 29	21.60	95,200	1969	Apr. 29	16.74	39,700	1994	Aug. 30	16.29	36,500
1945	May 5	16.00	34,400	1970	Apr. 7	13.31	21,000	1995	Mar. 4	16.84	40,700
1946	Jan. 16	19.50	64,400	1971	Mar. 6	18.11	54,500	1996	Mar. 21	16.79	36,900
1947	Jan. 28	19.40	63,200	1972	Jan. 26	16.30	36,400	1997	Mar. 17	15.27	30,300
1948	Feb. 17	19.66	71,000	1973	Apr. 15	17.29	44,500	1998	Mar. 12	18.00	53,000
1949	Dec. 6	22.17	104,000	1974	Mar. 1	15.78	33,000	1999	Feb. 7	10.86	14,600