

SANTEE RIVER BASIN

02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC

LOCATION.--Lat 35°17'10", long 81°06'00", Gaston County, Hydrologic Unit 03050102, on right bank 50 ft north of private mill road, 120 ft downstream of Housers Creek, 1.0 mi north of Lowell, 2.5 mi upstream from bridge on Interstate Highway 85, and 3.0 mi downstream of Long Creek.

DRAINAGE AREA.--628 mi².

PERIOD OF RECORD.--January 1942 to September 1971, October 1983 to current year.

REVISED RECORDS.--WSP 1002: 1943 (M). WSP 1303: 1950 (M).

GAGE.--Water-stage recorder. Datum of gage is 603.10 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation and slight regulation for short periods at low flow caused by power plant upstream from station. For diversion by Town of Bessemer City, see Long Creek near Bessemer City (station 02144000). Minimum discharge for all water years affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 15, 1940, reached a stage of 21.33 ft, from floodmarks; discharge, 34,000 ft³/s. Depth of flow over dam during the July 1916 flood at High Shoals, 11 mi upstream, was about 1 ft higher than that for August 1940, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	192	305	257	364	547	1800	366	341	194	257	72
2	216	204	288	296	353	505	1150	352	527	171	222	75
3	221	207	269	273	337	476	941	366	378	172	221	106
4	229	202	266	256	323	687	845	308	309	280	182	285
5	209	212	263	299	333	705	778	326	264	586	179	290
6	206	217	277	286	329	616	706	319	246	576	185	259
7	206	220	274	294	316	545	684	306	246	321	141	211
8	187	227	249	320	304	509	638	288	279	238	187	99
9	184	264	265	355	325	490	600	320	268	245	153	131
10	185	459	263	310	323	459	580	279	261	224	e135	125
11	187	352	269	291	313	439	561	269	245	219	e140	122
12	182	307	e275	304	334	443	539	266	223	188	e120	e105
13	189	278	e260	312	366	562	518	276	230	271	e140	e96
14	197	286	e275	302	376	563	525	261	258	318	209	e115
15	174	265	289	291	383	767	509	263	170	244	136	113
16	191	260	380	305	369	1290	496	273	211	192	163	79
17	190	271	804	296	863	937	466	203	217	185	144	81
18	179	284	747	299	771	762	454	243	186	140	140	87
19	180	250	605	426	569	661	437	240	202	120	83	88
20	181	304	480	1240	533	727	443	264	161	177	148	102
21	174	296	419	969	452	3460	430	297	134	222	102	165
22	180	254	401	688	496	2190	413	433	146	199	142	164
23	185	278	378	567	495	1420	406	327	183	185	86	146
24	198	217	269	509	455	983	404	277	200	171	74	230
25	194	312	321	458	661	840	490	290	232	200	95	315
26	204	523	295	436	937	739	523	360	417	409	111	291
27	203	435	313	404	676	673	450	314	393	406	96	204
28	191	364	324	368	594	626	385	281	295	353	129	181
29	197	322	315	369	---	1340	368	338	260	294	91	134
30	190	312	290	385	---	4840	365	283	204	301	119	130
31	196	---	229	389	---	2860	---	224	---	315	85	---
TOTAL	6025	8574	10657	12554	12950	32661	17904	9212	7686	8116	4415	4601
MEAN	194	286	344	405	462	1054	597	297	256	262	142	153
MAX	229	523	804	1240	937	4840	1800	433	527	586	257	315
MIN	174	192	229	256	304	439	365	203	134	120	74	72
CFSM	.31	.46	.55	.64	.74	1.68	.95	.47	.41	.42	.23	.24
IN.	.36	.51	.63	.74	.77	1.93	1.06	.55	.46	.48	.26	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001,[®] BY WATER YEAR (WY)

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	628	622	777	1007	1217	1295	1040	740	621	528	570	490																																																
MAX	2862	2034	1748	2468	3204	3511	2676	1759	1424	1361	2266	2460																																																
(WY)	1965	1958	1968	1993	1960	1952	1958	1984	1962	1943	1970	1945																																																
MIN	104	215	235	242	462	561	390	297	196	162	142	110																																																
(WY)	1955	1955	1956	1956	2001	1955	1967	2001	1986	1986	2001	1954																																																

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001 [®]	
ANNUAL TOTAL	172210		135355			
ANNUAL MEAN	471		371			
HIGHEST ANNUAL MEAN					1341	
LOWEST ANNUAL MEAN					371	
HIGHEST DAILY MEAN	4170	Mar 21	4840	Mar 30	21700	Aug 11 1970
LOWEST DAILY MEAN	140	Aug 20	72	Sep 1	31	Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	160	Aug 17	94	Sep 13	73	Oct 8 1954
MAXIMUM PEAK FLOW			5780		24800	
MAXIMUM PEAK STAGE			8.69		17.38	
INSTANTANEOUS LOW FLOW			55*		13*	
ANNUAL RUNOFF (CFSM)	.75		.59		1.26	
ANNUAL RUNOFF (INCHES)	10.20		8.02		17.17	
10 PERCENT EXCEEDS	810		631		1360	
50 PERCENT EXCEEDS	362		285		559	
90 PERCENT EXCEEDS	185		140		272	

e Estimated.

[®] See PERIOD OF RECORD.

* See REMARKS.

02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC--Continued

