

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'35", long 81°24'26", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above NGVD of 1929. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Maximum peak stage for current water year from high-water mark in well.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	129	243	e164	259	e161	415	209	160	185	108	131
2	132	125	205	e164	242	198	359	296	161	176	112	132
3	130	126	176	e164	227	458	314	292	160	283	115	138
4	125	124	165	e161	223	331	293	295	155	382	117	129
5	123	124	157	e167	e219	241	279	297	172	261	106	130
6	120	121	154	e194	222	227	266	261	260	190	97	109
7	114	121	151	e203	238	220	256	236	333	166	92	99
8	113	126	152	e164	301	211	257	229	236	150	86	93
9	113	122	153	e155	275	205	262	229	179	142	87	91
10	115	119	173	e155	253	204	334	235	164	137	85	90
11	116	118	507	e155	270	194	333	218	154	131	83	86
12	124	118	407	e155	246	195	272	222	147	130	84	79
13	140	117	283	e152	228	249	276	224	142	133	85	76
14	288	117	279	e152	217	316	300	302	146	146	80	83
15	620	117	252	e152	210	260	347	271	156	191	80	143
16	277	118	222	e150	207	240	341	220	147	156	93	292
17	201	117	213	149	203	515	303	206	137	141	144	252
18	175	117	267	148	197	1040	365	206	132	125	125	158
19	166	117	338	172	192	666	313	216	133	119	103	177
20	159	117	256	420	195	508	288	198	125	132	99	138
21	153	114	230	349	198	440	274	191	132	122	84	139
22	149	114	212	268	191	389	261	187	118	128	79	147
23	147	112	206	433	179	343	247	184	117	144	76	202
24	145	148	222	936	174	319	233	179	120	195	75	218
25	142	318	240	655	170	302	253	173	121	212	79	167
26	137	442	202	541	169	296	279	178	133	184	206	354
27	134	221	192	414	166	328	236	200	192	161	201	e2020
28	130	179	e176	354	e161	301	228	240	349	144	212	e1430
29	131	164	e170	318	---	272	236	187	265	127	168	536
30	131	178	e167	293	---	270	216	172	210	117	127	358
31	131	---	e167	272	---	348	---	168	---	112	127	---
TOTAL	5018	4400	6937	8329	6032	10247	8636	6921	5156	5122	3415	8197
MEAN	161.9	146.7	223.8	268.7	215.4	330.5	287.9	223.3	171.9	165.2	110.2	273.2
MAX	620	442	507	936	301	1040	415	302	349	382	212	2020
MIN	113	112	151	148	161	161	216	168	117	112	75	76
CFSM	0.79	0.72	1.09	1.31	1.05	1.61	1.40	1.09	0.84	0.81	0.54	1.33
IN.	0.91	0.80	1.26	1.51	1.09	1.86	1.57	1.26	0.94	0.93	0.62	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	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	2002
MEAN	353.0	397.9	401.5	469.0	512.2	583.8	558.4	454.0	384.8	328.7	349.1	320.4																																																																		
MAX	901	1889	797	1346	1173	1316	1350	1052	1036	904	2613	1212																																																																		
(WY)	1991	1978	1958	1995	1998	1979	1983	1973	1992	1941	1940	1979																																																																		
MIN	111	124	146	140	188	222	236	220	158	111	93.7	99.5																																																																		
(WY)	2001	1932	1934	1940	2001	1988	1986	2001	1988	1930	1925	1954																																																																		

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1925 - 2002
ANNUAL TOTAL	84206	78410	
ANNUAL MEAN	230.7	214.8	425.2
HIGHEST ANNUAL MEAN			669
LOWEST ANNUAL MEAN			215
HIGHEST DAILY MEAN	1460	Mar 30	27700
LOWEST DAILY MEAN	110	Jan 16	65
ANNUAL SEVEN-DAY MINIMUM	115	Jan 10	83
MAXIMUM PEAK FLOW			3220
MAXIMUM PEAK STAGE			5.82*
INSTANTANEOUS LOW FLOW			73
ANNUAL RUNOFF (CFSM)	1.13	1.05	2.07
ANNUAL RUNOFF (INCHES)	15.28	14.23	28.18
10 PERCENT EXCEEDS	361	333	705
50 PERCENT EXCEEDS	197	177	341
90 PERCENT EXCEEDS	124	114	166

e Estimated.

* See REMARKS.

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC--Continued

