

KANAWHA RIVER BASIN

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 sea level. 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. Minimum discharge for current water year unaffected by freezeup.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	97	148	e130	189	206	662	181	208	262	421	175
2	129	95	145	e129	174	195	595	199	242	308	392	196
3	127	96	145	e128	165	190	508	200	229	256	345	198
4	127	95	e142	e127	156	212	503	184	193	282	314	272
5	125	95	e144	e126	159	256	431	197	187	310	314	264
6	123	94	e140	e124	156	271	392	204	226	281	282	206
7	118	93	e138	e123	153	226	368	173	223	228	259	188
8	115	99	e136	e122	148	218	340	165	178	215	248	180
9	112	139	e134	e120	146	213	319	167	174	369	236	175
10	109	599	132	e119	148	210	305	176	162	318	233	215
11	110	310	130	e118	149	201	290	163	156	239	234	221
12	109	191	131	e117	143	196	279	156	151	206	297	221
13	108	162	128	e116	144	226	275	154	145	189	429	184
14	108	151	135	e114	162	251	278	150	156	177	426	175
15	105	145	155	e112	212	227	254	145	224	167	303	167
16	104	140	159	e110	255	305	250	154	234	158	259	160
17	103	141	337	e140	261	271	243	278	162	165	236	157
18	105	138	338	186	248	242	253	265	146	158	222	155
19	105	135	225	328	202	222	243	178	136	174	212	154
20	102	133	154	736	187	223	230	222	132	247	200	187
21	104	137	e148	401	180	407	221	267	192	275	189	214
22	102	132	e144	294	182	524	212	226	267	198	181	193
23	102	144	e140	260	186	631	205	261	347	173	177	163
24	104	157	e138	236	198	512	201	231	263	160	181	186
25	103	159	e138	209	217	461	198	271	233	185	239	213
26	121	284	e136	195	291	414	196	580	480	335	180	202
27	133	237	e134	203	241	356	186	339	511	463	174	163
28	111	181	e132	183	218	316	183	263	373	975	168	151
29	102	165	e132	176	---	384	177	238	281	781	168	142
30	100	155	e132	192	---	1460	173	220	278	863	175	139
31	98	---	e131	222	---	842	---	202	---	552	170	---
TOTAL	3455	4899	4801	5896	5270	10868	8970	6809	6889	9669	7864	5616
MEAN	111	163	155	190	188	351	299	220	230	312	254	187
MAX	133	599	338	736	291	1460	662	580	511	975	429	272
MIN	98	93	128	110	143	190	173	145	132	158	168	139
CFSM	.54	.80	.76	.93	.92	1.71	1.46	1.07	1.12	1.52	1.24	.91
IN.	.63	.89	.87	1.07	.96	1.97	1.63	1.24	1.25	1.75	1.43	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, 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
MEAN	356	401	404	472	516	587	562	457	388	331	352	321																																																																	
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1925 - 2001
ANNUAL TOTAL	92427	81006	
ANNUAL MEAN	253	222	428
HIGHEST ANNUAL MEAN			669
LOWEST ANNUAL MEAN			222
HIGHEST DAILY MEAN	1280	Mar 21	27700
LOWEST DAILY MEAN	93	Nov 7	65
ANNUAL SEVEN-DAY MINIMUM	95	Nov 1	72
MAXIMUM PEAK FLOW		2150	Mar 30
MAXIMUM PEAK STAGE		4.88	Mar 30
INSTANTANEOUS LOW FLOW		90*	Nov 6
ANNUAL RUNOFF (CFSM)	1.23	1.08	2.09
ANNUAL RUNOFF (INCHES)	16.77	14.70	28.37
10 PERCENT EXCEEDS	456	342	709
50 PERCENT EXCEEDS	206	187	344
90 PERCENT EXCEEDS	125	118	169

e Estimated.
* See REMARKS.

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

