

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'36", long 81°24'25", 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.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	269	492	441	e268	486	514	370	405	304	257	254
2	341	265	461	429	e279	514	441	385	297	327	314	300
3	328	264	436	e420	350	583	409	382	276	371	297	746
4	320	262	447	e430	e302	572	402	359	506	348	233	364
5	320	287	511	e440	e275	555	386	342	655	407	216	287
6	312	532	521	e450	685	571	370	338	384	319	219	262
7	305	576	458	e410	1,430	615	365	325	337	280	213	484
8	300	414	428	e370	730	558	362	312	375	266	198	10,500
9	337	352	419	e365	581	519	357	322	422	252	192	6,450
10	477	324	567	e350	540	504	346	319	391	243	186	1,680
11	424	310	1,320	e330	523	478	345	311	358	253	183	1,050
12	360	303	766	e320	497	460	491	357	346	279	227	805
13	334	304	621	e325	482	438	1,230	333	441	266	317	673
14	328	301	601	e315	479	423	1,230	328	436	239	242	598
15	351	281	567	e298	467	420	730	307	398	227	207	553
16	352	285	534	e294	469	475	588	294	916	214	200	511
17	315	287	623	e290	440	475	524	302	572	213	200	4,440
18	308	293	668	e320	423	428	481	343	414	227	187	4,160
19	304	6,060	554	e340	423	423	451	320	359	241	184	1,670
20	297	4,050	517	e300	447	406	430	297	348	214	173	1,150
21	292	1,180	e486	e282	566	404	418	287	386	205	178	926
22	284	836	e471	e268	637	400	398	280	785	198	182	797
23	277	681	e466	e265	547	381	384	279	484	200	182	711
24	271	622	707	e260	518	377	374	318	398	200	279	651
25	268	590	766	e280	516	373	381	296	378	415	270	608
26	278	514	586	e305	498	368	437	277	553	368	210	573
27	347	480	527	e324	498	364	591	293	450	287	195	558
28	349	567	496	e300	476	362	425	314	378	317	268	2,430
29	307	675	476	e265	487	357	384	303	345	261	340	1,510
30	285	534	487	e260	---	361	370	300	318	256	244	973
31	277	---	484	e255	---	449	---	328	---	245	216	---
TOTAL	10,007	22,698	17,463	10,301	14,833	14,099	14,614	9,921	13,111	8,442	7,009	46,674
MEAN	323	757	563	332	511	455	487	320	437	272	226	1,556
MAX	477	6,060	1,320	450	1,430	615	1,230	385	916	415	340	10,500
MIN	268	262	419	255	268	357	345	277	276	198	173	254
CFSM	1.57	3.69	2.75	1.62	2.50	2.22	2.38	1.56	2.13	1.33	1.10	7.59
IN.	1.82	4.12	3.17	1.87	2.69	2.56	2.65	1.80	2.38	1.53	1.27	8.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	352	403	404	466	513	582	561	453	390	332	351	337
MAX	901	1,889	797	1,346	1,173	1,316	1,350	1,052	1,036	904	2,613	1,556
(WY)	(1991)	(1978)	(1958)	(1995)	(1998)	(1979)	(1983)	(1973)	(1992)	(1941)	(1940)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	210,655		189,172			
ANNUAL MEAN	577		517		428	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					215	2002
HIGHEST DAILY MEAN	6,060	Nov 19	10,500	Sep 8	27,700	Aug 14, 1940
LOWEST DAILY MEAN	262	Jan 26	173	Aug 20	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	270	Jan 21	184	Aug 17	72	Aug 21, 1925
MAXIMUM PEAK FLOW			14,700	Sep 8	52,800*	Aug 14, 1940
MAXIMUM PEAK STAGE			11.73	Sep 8	22.50	Aug 14, 1940
INSTANTANEOUS LOW FLOW			167	Aug 21	52*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	2.82		2.52		2.09	
ANNUAL RUNOFF (INCHES)	38.23		34.33		28.36	
10 PERCENT EXCEEDS	891		659		705	
50 PERCENT EXCEEDS	494		369		342	
90 PERCENT EXCEEDS	298		250		168	

* See REMARKS.

e Estimated.

