

## 03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'35", 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/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 also occurred Oct. 9, 10, 2002. 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 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	307	288	484	332	602	542	979	511	660	477	494
2	253	268	275	637	e310	560	594	688	431	1,720	529	480
3	230	246	278	586	295	527	545	652	441	1,800	696	416
4	216	237	284	590	333	487	504	584	561	975	782	488
5	202	256	375	506	406	470	504	599	505	764	575	521
6	192	416	468	476	332	557	513	683	437	732	547	431
7	185	413	358	446	329	608	494	642	927	758	607	401
8	178	332	e306	e425	e306	502	530	594	1,410	692	806	389
9	174	292	e294	e402	e298	475	649	558	1,170	604	999	386
10	174	280	291	393	e294	450	1,550	548	816	573	1,100	367
11	202	430	608	371	294	429	2,150	515	672	572	912	352
12	253	702	734	346	289	414	1,400	496	627	547	747	341
13	203	675	665	e330	e279	406	1,090	469	649	529	687	334
14	179	493	954	e320	294	413	930	454	689	499	590	332
15	204	417	671	e310	393	388	811	455	982	517	615	329
16	871	591	545	e300	831	891	732	608	1,010	482	752	335
17	720	975	485	e290	573	1,010	665	508	1,650	461	685	319
18	407	704	440	e284	458	720	1,830	497	1,070	442	563	310
19	322	545	413	e282	458	685	1,700	494	1,180	423	511	309
20	285	472	529	e280	447	1,040	1,130	470	905	412	484	301
21	263	468	580	e278	446	1,150	965	459	751	422	464	294
22	255	502	468	e276	e1,640	845	891	485	660	415	489	318
23	242	428	437	e270	e2,120	709	782	508	601	577	464	818
24	223	385	496	e268	1,100	634	713	525	557	445	481	495
25	224	361	704	e264	800	581	677	501	523	400	428	373
26	234	341	532	e262	670	542	662	570	509	383	407	342
27	230	328	463	e270	641	521	616	504	504	375	391	350
28	229	312	e425	e300	683	495	583	455	521	363	397	632
29	276	297	e402	e340	---	498	566	447	482	387	422	462
30	334	292	392	428	---	606	582	472	527	496	458	382
31	404	---	380	388	---	614	---	473	---	459	485	---
TOTAL	8,655	12,765	14,540	11,402	15,651	18,829	25,900	16,892	22,278	18,884	18,550	12,101
MEAN	279	426	469	368	559	607	863	545	743	609	598	403
MAX	871	975	954	637	2,120	1,150	2,150	979	1,650	1,800	1,100	818
MIN	174	237	275	262	279	388	494	447	431	363	391	294
CFSM	1.36	2.08	2.29	1.79	2.73	2.96	4.21	2.66	3.62	2.97	2.92	1.97
IN.	1.57	2.32	2.64	2.07	2.84	3.42	4.70	3.07	4.04	3.43	3.37	2.20

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2003, BY WATER YEAR (WY)

MEAN	352	398	402	468	513	584	562	455	389	332	352	321
MAX	901	1,889	797	1,346	1,173	1,316	1,350	1,052	1,036	904	2,613	1,212
(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1925 - 2003	
ANNUAL TOTAL	98,015		196,447		427	
ANNUAL MEAN	269		538		215	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					215	2002
HIGHEST DAILY MEAN	2,020	Sep 27	2,150	Apr 11	27,700	Aug 14, 1940
LOWEST DAILY MEAN	75	Aug 24	174	Oct 9	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	83	Aug 9	187	Oct 5	72	Aug 21, 1925
MAXIMUM PEAK FLOW			3,440	Feb 22	52,800*	Aug 14, 1940
MAXIMUM PEAK STAGE			5.99*	Feb 22	22.50	Aug 14, 1940
INSTANTANEOUS LOW FLOW			173	Oct 8	52*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	1.31		2.63		2.08	
ANNUAL RUNOFF (INCHES)	17.79		35.65		28.28	
10 PERCENT EXCEEDS	465		855		705	
50 PERCENT EXCEEDS	223		482		342	
90 PERCENT EXCEEDS	119		279		167	

e Estimated.  
 \* See REMARKS.

