

Water-Data Report 2008

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

Kanawha Basin
Upper New Subbasin

LOCATION.--Lat 36°23'36", long 81°24'25" referenced to North American Datum of 1983, Ashe County, NC, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on North Carolina Highways 16/88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi².

SURFACE-WATER RECORDS

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 October 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. October 14, 1934, to March 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	103	192	130	373	266	249	291	276	213	163	129	223
2	103	182	130	305	514	252	285	265	192	143	144	210
3	104	176	135	e275	340	243	272	254	182	131	137	187
4	108	167	142	e256	313	499	296	255	179	127	136	169
5	120	160	138	e242	422	2,610	303	245	174	128	120	157
6	243	160	135	e233	410	968	557	239	166	243	112	150
7	169	158	143	e224	450	718	544	236	159	344	111	143
8	131	154	134	218	381	873	402	229	155	220	110	142
9	120	149	135	210	329	684	361	245	150	184	112	212
10	113	148	135	206	302	549	336	251	168	196	104	325
11	107	148	134	262	265	482	320	230	338	258	96	248
12	103	146	131	329	253	435	314	264	270	227	91	245
13	103	146	129	255	260	396	308	275	198	172	90	211
14	103	146	130	236	260	368	293	233	184	262	93	189
15	103	150	132	224	238	365	289	222	327	253	96	173
16	103	153	194	205	226	476	275	237	237	170	94	177
17	103	149	236	228	226	410	272	246	180	150	86	195
18	104	141	181	236	408	353	258	225	162	139	88	178
19	133	141	161	249	428	362	258	229	151	133	94	159
20	238	141	153	e228	311	603	392	237	147	130	86	152
21	214	140	163	e215	282	499	341	216	146	124	80	148
22	141	138	192	e205	266	425	287	209	252	119	76	145
23	150	136	334	e198	258	390	272	199	196	163	74	141
24	268	132	633	e193	247	362	263	200	187	149	73	137
25	1,300	132	355	e190	239	340	255	197	152	131	74	134
26	940	139	281	e188	247	323	249	189	142	119	131	170
27	581	155	267	e186	298	309	246	185	154	121	2,450	779
28	358	160	256	e184	275	301	350	201	168	121	1,120	611
29	270	140	403	183	246	298	416	274	148	132	542	357
30	231	132	383	192	---	318	306	240	162	155	343	272
31	208	---	461	193	---	300	---	203	---	127	258	---
Total	7,175	4,511	6,666	7,121	8,960	15,760	9,611	7,206	5,639	5,234	7,350	6,739
Mean	231	150	215	230	309	508	320	232	188	169	237	225
Max	1,300	192	633	373	514	2,610	557	276	338	344	2,450	779
Min	103	132	129	183	226	243	246	185	142	119	73	134
Cfsm	1.13	0.73	1.05	1.12	1.51	2.48	1.56	1.13	0.92	0.82	1.16	1.10
In.	1.30	0.82	1.21	1.29	1.63	2.86	1.74	1.31	1.02	0.95	1.33	1.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	351	403	406	467	506	577	555	446	387	329	345	334
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

	Calendar Year 2007		Water Year 2008		Water Years 1925 - 2008	
Annual total	104,239		91,972			
Annual mean	286		251		425	
Highest annual mean					669	1949
Lowest annual mean					215	2002
Highest daily mean	2,150	Jan 1	2,610	Mar 5	27,700	Aug 14, 1940
Lowest daily mean	103	Oct 1	73	Aug 24	65	Sep 9, 1925
Annual seven-day minimum	103	Oct 12	80	Aug 19	72	Aug 21, 1925
Maximum peak flow			3,780	Mar 5	^a 52,800	Aug 14, 1940
Maximum peak stage			6.26	Mar 5	22.50	Aug 14, 1940
Instantaneous low flow			70	Aug 25	^a 52	Dec 24, 1943
Annual runoff (cfsm)	1.39		1.23		2.07	
Annual runoff (inches)	18.92		16.69		28.14	
10 percent exceeds	462		393		700	
50 percent exceeds	228		207		342	
90 percent exceeds	124		120		167	

^aSee Remarks.

