

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC

LOCATION.--Lat 35°39'58", long 82°38'04", Buncombe County, Hydrologic Unit 06010105, on left bank 21 ft downstream from bridge on Secondary Road 1641, 0.9 mi above mouth, and 2.6 mi southwest of Alexander.

DRAINAGE AREA.--34.2 mi².

PERIOD OF RECORD.--December 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 1,600 ft³/s, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow. Maximum gage height for current water year and period of record from high-water marks at gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0345	1,320	7.82	Sep 17	0400	17,000	20.60

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	12	12	17	16	14	18	23	19	20	16	19	11
2	12	12	16	16	18	20	20	21	16	20	52	18
3	12	12	15	16	37	20	19	19	15	18	36	13
4	12	12	17	16	24	19	18	18	17	17	19	12
5	12	22	17	20	21	19	18	17	14	15	18	11
6	12	17	17	18	182	23	17	17	14	18	17	11
7	12	16	16	16	72	20	17	16	13	18	14	139
8	12	14	16	16	43	20	17	16	14	15	14	500
9	13	13	15	16	35	19	17	21	13	14	13	79
10	e15	13	40	16	30	19	17	18	13	17	13	43
11	e14	13	28	16	27	18	17	16	12	21	46	32
12	e13	13	22	15	35	18	22	16	54	28	45	26
13	e12	13	19	15	32	17	114	17	64	17	21	23
14	e12	12	21	15	29	17	48	17	52	17	17	21
15	13	12	19	15	30	18	34	16	43	15	15	20
16	12	13	18	14	28	22	28	17	34	14	14	108
17	12	13	30	14	26	18	25	16	24	25	14	2,690
18	12	13	23	15	25	30	23	16	22	24	13	182
19	12	254	21	14	24	24	22	16	19	15	13	87
20	12	45	19	14	24	22	21	16	17	13	e13	60
21	12	29	19	14	23	22	20	15	17	13	e37	48
22	12	24	18	14	22	20	19	17	17	13	e40	40
23	12	21	18	14	21	19	19	34	42	13	e27	36
24	12	20	24	14	21	19	18	19	29	13	26	33
25	12	19	19	16	20	18	18	16	45	13	17	30
26	14	18	18	16	20	18	38	16	27	13	13	28
27	20	18	17	17	20	18	24	17	21	22	12	34
28	14	20	17	16	19	18	20	15	20	18	11	241
29	14	18	17	16	19	18	19	17	18	14	11	71
30	13	17	17	15	---	19	18	19	17	14	12	51
31	12	---	16	14	---	30	---	55	---	24	12	---
TOTAL	395	748	606	479	941	620	750	585	743	527	644	4,698
MEAN	12.7	24.9	19.5	15.5	32.4	20.0	25.0	18.9	24.8	17.0	20.8	157
MAX	20	254	40	20	182	30	114	55	64	28	52	2,690
MIN	12	12	15	14	14	17	17	15	12	13	11	11
CFSM	0.37	0.73	0.57	0.45	0.95	0.58	0.73	0.55	0.72	0.50	0.61	4.58
IN.	0.43	0.81	0.66	0.52	1.02	0.67	0.82	0.64	0.81	0.57	0.70	5.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	8.86	14.6	16.3	15.6	21.9	22.3	23.7	26.3	15.6	14.1	14.0	46.7
MAX	12.7	24.9	26.4	16.6	32.4	34.3	40.7	66.6	24.8	25.1	23.0	157
(WY)	(2004)	(2004)	(2003)	(2002)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)
MIN	6.49	6.39	8.60	14.8	9.30	15.7	12.0	8.46	7.87	6.89	3.38	6.44
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	9,990.9		11,736		22.7	
ANNUAL MEAN	27.4		32.1		9.50	
HIGHEST ANNUAL MEAN					32.1	2004
LOWEST ANNUAL MEAN					9.50	2002
HIGHEST DAILY MEAN	694	May 6	2,690	Sep 17	2,690	Sep 17, 2004
LOWEST DAILY MEAN	9.9	Sep 21	11	Aug 28	1.8	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	11	Sep 15	12	Aug 26	2.1	Aug 8, 2002
MAXIMUM PEAK FLOW			17,000*	Sep 17	17,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			20.60*	Sep 17	20.60*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			9.7	Sep 6	1.2	Aug 23, 2002
ANNUAL RUNOFF (CFSM)	0.800		0.938		0.663	
ANNUAL RUNOFF (INCHES)	10.87		12.77		9.01	
10 PERCENT EXCEEDS	36		36		33	
50 PERCENT EXCEEDS	18		18		15	
90 PERCENT EXCEEDS	12		12		6.0	

* See REMARKS.

e Estimated.

