

0344894205 NORTH FORK SWANNANOVA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'07", long 82°19'57", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi².

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above NGVD of 1929, from topographic map. 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 1,000 ft³/s on basis of slope area measurement of peak flow. Maximum gage height for current water year and period of record from floodmark. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, Oct. 3, 4, 1998. Minimum discharge for current water year also occurred July 23, 24, 25 and Aug. 22, 23.

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	unknown	7,000	10.33	Sep 17	0400	3,510	8.27

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1989-1998 and 2000.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1989	Sep. 22, 1989	2,630	7.57	1994	Aug. 17, 1994	3,280	8.10
1990	Mar. 17, 1990	1,410	6.31	1995	Jan. 14, 1995	3,400	8.19
1991	Mar. 29, 1991	1,090	5.89	1996	Oct. 5, 1995	2,260	7.23
1992	Aug. 28, 1992	1,040	5.81	1997	Dec. 1, 1996	1,320	6.20
1993	May 7, 1993	1,460	6.37	1998	Jan. 7, 1998	2,620	7.56
				2000	Nov. 2, 1999	1,020	5.79

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	24	28	36	36	20	25	35	32	35	21	41	105
2	22	26	34	35	20	29	33	41	28	37	50	206
3	20	24	32	37	24	33	34	40	25	43	40	99
4	19	23	34	38	22	33	39	36	31	33	29	65
5	17	30	38	43	22	34	38	33	27	29	25	49
6	16	104	34	40	208	78	37	31	24	36	21	54
7	16	77	32	33	119	55	40	29	23	27	18	e1,880
8	16	55	31	31	74	43	40	28	23	24	16	e2,310
9	36	45	30	30	60	38	36	55	21	21	15	e700
10	50	39	72	28	52	35	33	51	20	19	14	e220
11	41	35	70	26	45	32	32	39	20	19	15	e140
12	35	32	53	25	44	30	39	36	23	18	24	e120
13	30	33	47	24	40	28	e110	37	32	16	20	e81
14	28	30	53	23	39	27	90	42	25	16	16	e70
15	35	28	48	22	38	28	68	37	43	14	15	e58
16	29	27	44	22	36	37	60	35	41	14	14	e79
17	26	25	52	21	34	33	52	40	38	13	13	1,310
18	24	25	46	37	32	41	47	41	31	16	14	390
19	22	538	43	31	31	51	42	41	27	13	12	211
20	21	149	39	27	30	46	39	35	24	12	12	152
21	20	97	37	25	33	53	37	31	22	11	11	120
22	19	75	36	24	30	44	34	28	22	11	11	98
23	18	61	37	23	30	39	33	33	22	10	20	83
24	18	56	67	22	29	37	31	29	22	16	22	72
25	17	49	52	23	28	34	29	26	e36	34	19	63
26	37	44	46	23	27	32	51	25	41	21	16	56
27	79	40	42	24	27	31	44	26	31	29	15	67
28	48	46	40	22	26	29	37	23	28	23	19	256
29	38	43	38	21	25	28	35	22	25	21	19	120
30	33	39	46	21	---	30	33	22	22	33	24	91
31	30	---	40	20	---	36	---	47	---	34	55	---
TOTAL	884	1,923	1,349	857	1,245	1,149	1,308	1,071	832	684	655	9,325
MEAN	28.5	64.1	43.5	27.6	42.9	37.1	43.6	34.5	27.7	22.1	21.1	311
MAX	79	538	72	43	208	78	110	55	43	43	55	2,310
MIN	16	23	30	20	20	25	29	22	20	10	11	49
CFSM	1.97	4.42	3.00	1.91	2.96	2.56	3.01	2.38	1.91	1.52	1.46	21.4
IN.	2.27	4.93	3.46	2.20	3.19	2.95	3.36	2.75	2.13	1.75	1.68	23.92

0344894205 NORTH FORK SWANNANOVA RIVER NEAR WALKERTOWN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)												
MEAN	26.1	34.0	41.0	57.6	58.2	67.9	54.9	45.1	35.2	24.1	29.3	37.0
MAX (WY)	79.1 (1996)	84.6 (1993)	79.8 (1993)	134 (1995)	120 (1990)	111 (1993)	86.4 (2003)	75.3 (2003)	78.0 (1995)	63.0 (1999)	123 (1994)	311 (2004)
MIN (WY)	2.49 (1999)	4.88 (1999)	14.8 (1999)	27.6 (2004)	27.7 (2002)	37.1 (2004)	18.6 (1995)	18.9 (2001)	13.5 (1998)	5.71 (1998)	3.96 (1998)	1.92 (1998)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1989 - 2004
ANNUAL TOTAL	19,349	21,282	
ANNUAL MEAN	53.0	58.1	42.1
HIGHEST ANNUAL MEAN			58.1 2004
LOWEST ANNUAL MEAN			24.1 2002
HIGHEST DAILY MEAN	538 Nov 19	2,310 Sep 8	2,310 Sep 8, 2004
LOWEST DAILY MEAN	11 Sep 21	10 Jul 23	1.5 Sep 14, 1998
ANNUAL SEVEN-DAY MINIMUM	13 Sep 15	12 Jul 17	1.6 Sep 12, 1998
MAXIMUM PEAK FLOW		7,000* Sep 8	7,000* Sep 8, 2004
MAXIMUM PEAK STAGE		10.33* Sep 8	10.33* Sep 8, 2004
INSTANTANEOUS LOW FLOW		10* Jul 21	1.5* Sep 14, 1998
ANNUAL RUNOFF (CFSM)	3.66	4.01	2.90
ANNUAL RUNOFF (INCHES)	49.64	54.60	39.45
10 PERCENT EXCEEDS	90	71	80
50 PERCENT EXCEEDS	41	33	28
90 PERCENT EXCEEDS	20	19	6.9

* See REMARKS.
 e Estimated.

