

Water-Data Report 2008

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°41'00", long 82°19'59" referenced to North American Datum of 1983, Buncombe County, NC, 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.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-91-1: 1989(maximum discharge); WDR NC-04-1: 1989-1998(maximum discharges), 2000(maximum discharge).

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 period of record from floodmark. Minimum discharge for period of record and current water year also occurred August 22, 23, 24, 2008.

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC—Continued

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	2.7	7.0	12	47	46	33	40	28	23	5.8	2.9	61
2	2.7	6.6	11	38	37	31	37	26	21	5.3	4.0	38
3	2.8	6.1	15	32	32	32	37	25	19	5.0	5.8	24
4	3.6	5.8	13	28	46	214	42	24	18	4.9	3.2	17
5	10	5.6	11	26	55	152	49	23	16	5.0	2.7	13
6	5.5	6.7	11	25	58	89	73	21	15	4.9	2.5	11
7	4.0	5.9	9.7	24	58	83	57	20	14	4.8	2.3	9.6
8	3.5	5.4	9.6	22	44	94	50	20	13	4.5	2.3	8.3
9	3.3	5.3	10	21	38	72	46	24	12	5.4	2.1	9.7
10	4.2	5.3	11	23	34	63	42	23	13	5.6	2.0	11
11	3.6	5.0	10	105	31	56	39	24	12	5.3	1.9	21
12	3.3	5.0	9.7	53	28	50	40	45	10	4.5	1.8	17
13	3.4	4.8	9.8	42	30	45	36	37	9.9	5.1	1.9	15
14	3.3	5.0	9.6	36	26	42	34	33	10	6.9	2.1	12
15	3.3	23	10	31	24	52	32	31	10	4.6	1.8	11
16	3.2	13	37	28	23	66	30	47	8.8	4.1	1.7	10
17	3.1	10	24	29	27	53	28	39	8.1	3.8	1.9	9.8
18	3.0	9.1	19	28	88	49	27	38	7.7	3.6	1.8	8.9
19	4.4	8.8	18	25	48	90	27	47	7.4	3.4	1.7	7.8
20	5.6	8.7	16	21	40	117	31	40	7.1	e3.2	1.6	7.2
21	3.9	8.1	30	20	36	79	27	36	7.1	e3.1	1.5	6.7
22	3.6	9.9	32	20	35	67	26	32	7.0	e3.0	1.4	6.1
23	13	9.2	113	19	33	58	25	29	7.0	e2.7	1.4	5.6
24	56	8.1	62	17	30	51	24	27	6.4	2.7	1.4	5.2
25	44	8.1	42	15	28	46	23	25	6.0	2.6	1.7	4.9
26	28	31	38	15	40	43	22	23	5.7	3.3	97	21
27	17	34	35	15	39	40	22	22	5.8	3.3	137	50
28	12	21	47	14	34	37	37	29	5.7	3.1	56	25
29	9.9	17	67	14	32	40	34	33	7.0	5.1	35	18
30	8.6	14	61	16	---	39	30	28	6.9	3.1	20	14
31	7.6	---	64	14	---	38	---	25	---	2.8	14	---
Total	282.1	312.5	867.4	863	1,120	2,021	1,067	924	319.6	130.5	414.4	478.8
Mean	9.10	10.4	28.0	27.8	38.6	65.2	35.6	29.8	10.7	4.21	13.4	16.0
Max	56	34	113	105	88	214	73	47	23	6.9	137	61
Min	2.7	4.8	9.6	14	23	31	22	20	5.7	2.6	1.4	4.9
Cfsm	0.63	0.72	1.93	1.92	2.66	4.50	2.45	2.06	0.73	0.29	0.92	1.10
In.	0.72	0.80	2.23	2.21	2.87	5.18	2.74	2.37	0.82	0.33	1.06	1.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.0	34.3	41.1	55.4	53.6	63.9	52.8	41.5	33.4	24.0	28.5	34.0
Max	79.1	84.6	79.8	134	120	111	86.4	75.3	78.0	73.9	123	311
(WY)	(1996)	(1993)	(1993)	(1995)	(1990)	(1993)	(2003)	(2003)	(1995)	(2005)	(1994)	(2004)
Min	2.49	4.88	14.8	27.6	18.2	31.0	18.6	18.0	7.94	4.21	3.96	1.92
(WY)	(1999)	(1999)	(1999)	(2004)	(2007)	(2006)	(1995)	(2007)	(2007)	(2008)	(1998)	(1998)

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1989 - 2008	
Annual total	7,555.6		8,800.3			
Annual mean	20.7		24.0		40.3	
Highest annual mean					58.1	2004
Lowest annual mean					24.0	2008
Highest daily mean	253	Jan 1	214	Mar 4	2,310	Sep 8, 2004
Lowest daily mean	2.6	Sep 10	1.4	Aug 22	1.4	Aug 22, 2008
Annual seven-day minimum	2.7	Sep 7	1.5	Aug 19	1.5	Aug 19, 2008
Maximum peak flow			608	Mar 4	^a 7,000	Sep 8, 2004
Maximum peak stage			4.44	Mar 4	^a 10.33	Sep 8, 2004
Instantaneous low flow			^a 1.3	Aug 21	^a 1.3	Aug 21, 2008
Annual runoff (cfs)	1.43		1.66		2.78	
Annual runoff (inches)	19.38		22.58		37.75	
10 percent exceeds	44		50		76	
50 percent exceeds	12		18		28	
90 percent exceeds	3.6		3.2		6.6	

^aSee Remarks.