

Water-Data Report 2007

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

REVISED RECORDS.--WDR NC-91-1: 1989(M). WDR NC-04-1: 1989-1998(M), 2000(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 1,000 ft<sup>3</sup>/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 also occurred Sept. 15, 16, 18, 19, Oct. 3, 4, 1998. Minimum discharge for current water year also occurred September 10-14.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	26	88	253	24	42	29	22	9.2	6.9	9.5	5.0
2	15	39	55	100	24	139	30	21	9.1	6.6	7.8	4.1
3	14	31	43	76	22	56	27	23	9.2	6.5	8.5	3.8
4	13	27	37	63	21	43	27	30	8.6	5.9	12	3.5
5	13	25	32	89	19	37	25	27	8.1	5.6	8.6	3.2
6	12	23	30	101	19	34	24	28	7.8	5.3	7.2	3.0
7	11	29	27	91	20	31	23	25	7.6	8.6	6.3	2.9
8	12	102	24	163	19	29	22	24	7.9	11	5.5	2.8
9	13	61	23	104	18	28	22	23	8.5	6.2	5.1	2.7
10	11	46	22	82	18	26	21	22	7.1	6.3	4.6	2.6
11	11	43	21	69	17	25	21	21	6.9	8.2	4.2	2.6
12	11	47	20	62	17	24	25	22	6.9	8.0	4.2	2.6
13	10	39	19	58	18	23	22	21	7.3	6.1	4.0	2.6
14	9.7	35	18	54	20	23	22	19	9.8	5.6	3.7	40
15	9.5	39	17	49	17	23	53	18	11	5.5	3.5	22
16	9.7	107	16	46	16	132	43	18	9.8	5.4	3.3	8.6
17	99	65	16	41	15	75	38	18	7.6	4.9	3.2	6.3
18	64	51	15	39	15	53	37	16	6.7	4.8	3.0	5.4
19	36	44	15	37	15	46	48	16	7.9	4.7	2.9	4.8
20	40	38	14	34	16	44	56	15	7.4	4.5	2.9	4.4
21	32	33	14	36	17	51	44	14	6.2	4.4	3.0	4.3
22	27	34	118	42	17	45	39	14	5.8	4.2	3.2	4.2
23	24	31	78	37	15	41	35	13	5.6	4.0	3.0	3.9
24	21	28	52	35	15	38	32	13	7.7	4.4	7.5	3.7
25	20	26	51	33	20	36	30	12	8.2	11	11	3.6
26	18	24	54	30	20	34	28	12	7.7	18	7.9	3.5
27	29	23	45	30	18	32	27	11	7.4	8.3	4.9	3.3
28	69	22	41	29	17	30	26	11	7.8	13	4.2	3.1
29	41	21	38	26	---	33	24	10	7.8	16	4.0	2.9
30	33	54	37	26	---	30	23	9.6	9.5	13	4.2	2.8
31	29	---	108	24	---	28	---	9.3	---	14	7.6	---
<b>Total</b>	773.9	1,213	1,188	1,959	509	1,331	923	557.9	238.1	236.9	170.5	168.2
<b>Mean</b>	25.0	40.4	38.3	63.2	18.2	42.9	30.8	18.0	7.94	7.64	5.50	5.61
<b>Max</b>	99	107	118	253	24	139	56	30	11	18	12	40
<b>Min</b>	9.5	21	14	24	15	23	21	9.3	5.6	4.0	2.9	2.6
<b>Cfsm</b>	1.72	2.79	2.64	4.36	1.25	2.96	2.12	1.24	0.55	0.53	0.38	0.39
<b>In.</b>	1.99	3.11	3.05	5.03	1.31	3.41	2.37	1.43	0.61	0.61	0.44	0.43

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	27.0	35.7	41.8	56.9	54.4	63.9	53.8	42.1	34.6	25.0	29.3	35.0
<b>Max</b>	79.1	84.6	79.8	134	120	111	86.4	75.3	78.0	73.9	123	311
<b>(WY)</b>	(1996)	(1993)	(1993)	(1995)	(1990)	(1993)	(2003)	(2003)	(1995)	(2005)	(1994)	(2004)
<b>Min</b>	2.49	4.88	14.8	27.6	18.2	31.0	18.6	18.0	7.94	5.71	3.96	1.92
<b>(WY)</b>	(1999)	(1999)	(1999)	(2004)	(2007)	(2006)	(1995)	(2007)	(2007)	(1998)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1989 - 2007	
<b>Annual total</b>	11,719.4		9,268.5			
<b>Annual mean</b>	32.1		25.4		41.2	
<b>Highest annual mean</b>					58.1	2004
<b>Lowest annual mean</b>					24.1	2002
<b>Highest daily mean</b>	167	Sep 1	253	Jan 1	2,310	Sep 8, 2004
<b>Lowest daily mean</b>	4.0	Aug 10	2.6	Sep 10	1.5	Sep 14, 1998
<b>Annual seven-day minimum</b>	4.8	Aug 4	2.7	Sep 7	1.6	Sep 12, 1998
<b>Maximum peak flow</b>			666	Jan 1	<sup>a</sup> 7,000	Sep 8, 2004
<b>Maximum peak stage</b>			4.54	Jan 1	<sup>a</sup> 10.33	Sep 8, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 2.5	Sep 9	<sup>a</sup> 1.5	Sep 14, 1998
<b>Annual runoff (cfsm)</b>	2.21		1.75		2.84	
<b>Annual runoff (inches)</b>	30.07		23.78		38.60	
<b>10 percent exceeds</b>	59		51		78	
<b>50 percent exceeds</b>	28		19		29	
<b>90 percent exceeds</b>	8.3		4.2		7.0	

<sup>a</sup> See Remarks.

