

Water-Data Report 2010

**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 (annual maximum discharge); WDR NC-04-1: 1989-1998 (annual maximum discharges), 2000 (annual maximum discharge).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

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 August 22, 23, 24, 2008. Minimum discharge for current water year also occurred September 25.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	124	30	54	52	30	69	51	29	8.3	5.7	3.7
2	30	79	73	47	75	29	62	47	57	7.9	5.2	3.6
3	26	63	88	42	73	28	56	67	60	7.6	4.9	3.4
4	22	53	61	39	66	26	52	59	51	7.4	7.2	3.4
5	25	46	52	37	98	25	48	52	43	7.0	8.2	3.2
6	22	40	45	35	113	25	45	47	40	6.7	6.7	3.1
7	21	36	41	33	85	24	42	42	39	6.4	5.1	3.0
8	19	33	40	30	74	25	51	39	32	6.3	4.7	3.2
9	17	30	198	28	68	29	54	36	28	6.3	4.5	3.4
10	17	44	98	27	60	37	46	34	26	6.3	4.4	2.8
11	16	192	73	26	54	62	43	35	24	5.9	4.6	3.4
12	16	109	62	25	50	149	40	34	22	9.6	5.2	5.0
13	16	79	82	24	46	162	38	32	23	8.2	4.5	3.4
14	26	65	76	24	43	91	37	31	21	6.6	4.7	3.0
15	37	55	65	23	41	72	35	44	19	6.2	4.6	2.8
16	41	48	57	23	37	64	33	52	18	6.5	4.8	2.7
17	36	44	51	110	35	62	32	53	16	6.2	5.0	3.8
18	31	47	53	112	34	56	30	46	15	6.5	7.6	3.3
19	28	48	49	75	33	54	29	40	14	8.5	9.9	3.0
20	25	43	44	72	32	54	28	37	13	7.0	7.3	2.8
21	23	39	41	88	33	79	30	39	12	5.9	9.8	2.7
22	21	38	40	91	37	295	27	42	12	5.5	14	2.7
23	32	41	39	74	40	110	26	38	11	5.1	8.1	2.7
24	179	38	40	278	40	91	29	35	10	4.9	5.9	2.5
25	71	35	268	374	36	81	101	34	10	4.9	5.3	2.5
26	52	33	149	151	34	78	64	31	9.5	5.4	4.9	10
27	63	31	102	106	33	70	97	29	9.4	4.8	4.6	10
28	122	29	82	86	31	103	81	29	9.2	4.7	4.5	18
29	75	28	69	74	---	111	65	30	9.8	4.6	4.3	8.4
30	60	30	61	66	---	90	56	27	8.5	4.4	4.1	15
31	69	---	59	57	---	77	---	31	---	4.5	3.9	---
<b>Total</b>	1,272	1,620	2,288	2,331	1,453	2,289	1,446	1,243	691.4	196.1	184.2	140.5
<b>Mean</b>	41.0	54.0	73.8	75.2	51.9	73.8	48.2	40.1	23.0	6.33	5.94	4.68
<b>Max</b>	179	192	268	374	113	295	101	67	60	9.6	14	18
<b>Min</b>	16	28	30	23	31	24	26	27	8.5	4.4	3.9	2.5
<b>Cfsm</b>	2.83	3.72	5.09	5.19	3.58	5.09	3.32	2.77	1.59	0.44	0.41	0.32
<b>In.</b>	3.26	4.16	5.87	5.98	3.73	5.87	3.71	3.19	1.77	0.50	0.47	0.36

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	25.9	34.6	44.1	55.7	52.0	64.2	53.4	43.3	33.4	22.6	26.5	33.5
<b>Max</b>	79.1	84.6	79.8	134	120	111	86.4	82.3	78.0	73.9	123	311
<b>(WY)</b>	(1996)	(1993)	(1993)	(1995)	(1990)	(1993)	(2003)	(2009)	(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	4.21	3.96	1.92
<b>(WY)</b>	(1999)	(1999)	(1999)	(2004)	(2007)	(2006)	(1995)	(2007)	(2007)	(2008)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1989 - 2010	
<b>Annual total</b>	17,046.2		15,154.2			
<b>Annual mean</b>	46.7		41.5		40.4	
<b>Highest annual mean</b>					58.1	2004
<b>Lowest annual mean</b>					24.0	2008
<b>Highest daily mean</b>	327	Sep 20	374	Jan 25	2,310	Sep 8, 2004
<b>Lowest daily mean</b>	6.0	Aug 10	2.5	Sep 24	1.4	Aug 22, 2008
<b>Annual seven-day minimum</b>	6.9	Aug 5	2.7	Sep 19	1.5	Aug 19, 2008
<b>Maximum peak flow</b>			1,050	Jan 24	<sup>a</sup> 7,000	Sep 8, 2004
<b>Maximum peak stage</b>			5.12	Jan 24	<sup>a</sup> 10.33	Sep 8, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 2.3	Sep 24	<sup>a</sup> 1.3	Aug 21, 2008
<b>Annual runoff (cfsm)</b>	3.22		2.86		2.79	
<b>Annual runoff (inches)</b>	43.73		38.88		37.84	
<b>10 percent exceeds</b>	90		81		77	
<b>50 percent exceeds</b>	37		33		29	
<b>90 percent exceeds</b>	8.8		4.6		6.5	

<sup>a</sup> See Remarks.

