

Water-Data Report 2008

03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°29'37", long 82°36'40" referenced to North American Datum of 1983, Buncombe County, NC, Hydrologic Unit 06010105, on left bank at upstream side of stone bridge on Bent Creek Gap Road, 0.75 mi northwest of Glen Bald, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--8.74 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2003 (maximum discharge).

GAGE.--Water-stage recorder. Elevation of gage is 2,080 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 300 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred September 12, 13, 2002. Minimum discharge for current water year also occurred August 21-25.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.4	2.8	3.4	5.8	28	8.5	9.8	8.7	4.6	4.1	2.4	3.4
2	2.4	2.8	3.4	4.8	15	8.0	9.4	8.3	4.6	3.8	2.2	3.2
3	2.4	2.7	3.6	4.5	10	7.6	9.3	8.1	4.4	3.6	2.0	2.9
4	3.3	2.6	3.4	4.4	9.0	68	9.8	8.0	4.3	3.4	1.9	2.6
5	4.2	2.6	3.4	4.0	7.8	61	13	7.5	4.0	3.7	1.8	2.5
6	3.3	2.7	3.3	4.0	8.2	28	23	7.3	3.8	5.2	1.7	2.4
7	2.8	2.6	3.3	3.8	8.1	36	16	7.1	3.7	5.5	1.7	2.3
8	2.5	2.6	3.2	3.7	7.0	36	14	7.0	3.9	4.2	1.7	2.2
9	2.4	2.7	3.3	3.6	6.4	26	13	7.3	3.7	4.5	1.6	2.6
10	2.5	2.7	3.3	4.2	5.8	21	12	7.0	28	4.6	1.8	3.1
11	2.3	2.6	3.2	12	5.6	18	12	7.1	12	4.4	1.7	3.0
12	2.3	2.6	3.2	7.1	5.5	16	12	6.6	6.4	3.8	1.6	2.9
13	2.4	2.6	3.2	5.8	6.1	14	11	6.4	5.4	3.6	2.0	2.7
14	2.5	2.6	3.2	5.1	5.3	13	10	6.4	34	3.5	2.2	2.4
15	2.4	5.7	3.3	4.6	5.0	15	9.8	6.5	14	3.2	2.0	2.3
16	2.6	4.1	5.2	4.3	5.0	15	9.4	6.8	8.3	3.0	2.1	2.4
17	2.8	3.7	3.7	5.8	18	12	9.3	6.1	6.7	2.9	2.0	2.5
18	3.1	3.5	3.2	6.0	44	12	9.0	6.1	5.6	2.8	1.8	2.4
19	3.5	3.4	3.2	5.6	20	18	9.2	6.0	5.2	2.7	1.7	2.2
20	3.3	3.4	3.2	5.0	14	20	9.3	5.7	5.0	2.6	1.5	2.1
21	3.1	3.3	3.5	5.0	12	17	8.6	5.5	5.0	2.5	1.4	2.1
22	3.6	4.0	3.5	4.7	11	16	8.4	5.3	5.0	2.4	1.4	2.1
23	9.0	3.7	14	4.5	9.7	14	8.3	5.1	4.8	2.4	1.4	2.0
24	9.0	3.4	6.9	4.4	8.8	13	8.0	5.2	4.4	2.3	1.4	1.9
25	5.9	3.5	4.8	4.1	8.4	12	7.9	5.0	4.1	2.2	2.1	1.9
26	4.1	4.5	5.3	4.0	13	11	8.9	4.9	4.0	2.5	39	2.2
27	3.6	4.6	4.8	4.0	11	11	9.6	4.9	4.5	2.6	27	2.8
28	3.1	3.9	6.2	3.9	9.3	11	13	5.9	4.8	2.3	9.0	2.5
29	3.0	3.7	7.5	3.9	8.7	11	10	5.8	4.5	2.8	6.2	2.3
30	2.9	3.6	8.0	4.2	---	11	9.2	5.0	4.1	3.4	4.2	2.2
31	2.8	---	7.6	4.0	---	10	---	4.8	---	2.7	3.5	---
Total	105.5	99.2	140.3	150.8	325.7	590.1	322.2	197.4	212.8	103.2	134.0	74.1
Mean	3.40	3.31	4.53	4.86	11.2	19.0	10.7	6.37	7.09	3.33	4.32	2.47
Max	9.0	5.7	14	12	44	68	23	8.7	34	5.5	39	3.4
Min	2.3	2.6	3.2	3.6	5.0	7.6	7.9	4.8	3.7	2.2	1.4	1.9
Cfsm	0.39	0.38	0.52	0.56	1.29	2.18	1.23	0.73	0.81	0.38	0.49	0.28
In.	0.45	0.42	0.60	0.64	1.39	2.51	1.37	0.84	0.91	0.44	0.57	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.57	12.2	13.8	15.2	13.8	15.8	16.2	14.5	12.9	12.1	8.28	16.1
Max	18.5	22.2	20.6	31.7	19.8	21.5	22.8	35.9	29.0	31.2	18.1	69.0
(WY)	(2005)	(2004)	(2005)	(2007)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
Min	3.40	3.31	3.94	4.86	6.94	9.06	7.92	6.37	5.18	3.33	2.22	2.47
(WY)	(2008)	(2008)	(2002)	(2008)	(2002)	(2002)	(2002)	(2008)	(2002)	(2008)	(2002)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2002 - 2008	
Annual total	3,521.2		2,455.3			
Annual mean	9.65		6.71		14.5	
Highest annual mean					19.4	2005
Lowest annual mean					6.71	2008
Highest daily mean	162	Jan 1	68	Mar 4	663	Sep 17, 2004
Lowest daily mean	2.3	Oct 11	1.4	Aug 21	0.75	Sep 12, 2002
Annual seven-day minimum	2.4	Oct 9	1.5	Aug 18	0.91	Sep 7, 2002
Maximum peak flow			206	Jun 14	^a 3,000	Sep 17, 2004
Maximum peak stage			3.75	Jun 14	9.81	Sep 17, 2004
Instantaneous low flow			^a 1.4	Aug 20	^a 0.71	Sep 11, 2002
Annual runoff (cfs)	1.10		0.768		1.66	
Annual runoff (inches)	14.99		10.45		22.51	
10 percent exceeds	17		13		23	
50 percent exceeds	6.1		4.4		12	
90 percent exceeds	2.7		2.3		3.9	

^aSee Remarks.