

Water-Data Report 2007

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(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,080 ft above NGVD 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.

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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	4.6	6.1	18	162	14	18	13	11	8.6	4.5	5.1	4.1
2	4.5	6.5	15	84	13	43	13	11	8.6	4.5	4.6	3.6
3	4.5	6.1	13	49	13	31	12	11	7.7	4.8	4.5	3.3
4	4.5	6.0	12	31	13	23	13	14	7.1	4.3	4.2	3.1
5	4.5	6.0	11	40	13	20	12	13	6.6	4.1	4.3	2.9
6	4.9	6.0	11	45	13	18	12	12	6.4	4.1	4.3	2.8
7	4.6	11	10	44	13	17	12	11	6.1	4.8	4.0	2.7
8	5.0	17	9.6	66	13	16	12	11	5.9	4.3	5.4	2.6
9	5.0	10	9.3	49	13	15	12	11	5.9	4.6	5.2	2.5
10	4.6	8.5	9.3	37	13	15	12	10	5.7	4.4	4.2	2.5
11	4.5	8.7	11	31	13	15	12	10	5.7	4.2	3.9	2.6
12	4.7	9.0	17	28	13	14	13	9.9	6.0	4.1	4.4	2.6
13	4.5	7.6	16	26	13	13	12	9.7	6.2	3.9	4.1	2.5
14	4.5	7.3	8.5	24	14	13	12	9.3	6.7	4.0	3.7	21
15	4.6	27	7.5	22	13	12	21	9.2	6.4	3.9	3.5	7.6
16	4.7	63	8.5	21	13	44	17	9.2	7.8	4.6	3.4	3.8
17	11	26	9.0	19	12	28	15	9.1	7.5	4.5	3.4	3.2
18	8.1	18	8.9	19	11	22	14	8.7	6.1	4.1	3.3	3.1
19	6.2	15	8.2	18	14	20	14	8.7	6.5	4.0	3.1	3.0
20	7.4	13	9.3	17	14	19	14	8.6	5.8	3.9	3.1	2.9
21	6.0	12	7.9	18	12	18	13	8.4	5.3	3.7	3.0	2.9
22	5.7	11	54	18	11	17	13	8.1	5.1	3.6	3.0	3.0
23	5.4	10	45	15	11	16	12	8.0	5.0	4.6	3.0	2.8
24	5.3	9.9	23	14	12	15	12	7.8	6.0	4.4	2.9	2.7
25	5.4	9.4	29	7.8	15	15	12	7.7	6.1	12	3.1	2.6
26	5.5	9.1	28	8.1	15	14	12	7.5	5.7	10	3.0	2.6
27	7.1	9.3	22	14	13	14	12	7.3	5.4	6.2	3.0	2.5
28	9.4	9.5	18	12	14	14	11	7.1	5.1	8.4	2.9	2.6
29	6.9	9.9	16	13	---	15	11	7.0	4.8	6.5	2.9	2.4
30	6.4	13	15	15	---	14	11	6.7	4.8	6.9	3.9	2.4
31	6.2	---	45	15	---	13	---	6.6	---	6.5	7.4	---
Total	176.2	380.9	525.0	981.9	364	581	386	289.6	186.6	158.4	119.8	108.9
Mean	5.68	12.7	16.9	31.7	13.0	18.7	12.9	9.34	6.22	5.11	3.86	3.63
Max	11	63	54	162	15	44	21	14	8.6	12	7.4	21
Min	4.5	6.0	7.5	7.8	11	12	11	6.6	4.8	3.6	2.9	2.4
Cfsm	0.65	1.45	1.94	3.62	1.49	2.14	1.47	1.07	0.71	0.58	0.44	0.42
In.	0.75	1.62	2.23	4.18	1.55	2.47	1.64	1.23	0.79	0.67	0.51	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	9.61	13.7	15.3	17.0	14.3	15.3	17.1	15.9	13.9	13.6	8.94	18.3
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	4.77	3.61	3.94	7.30	6.94	9.06	7.92	8.24	5.18	4.43	2.22	3.63
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2002 - 2007	
Annual total	4,530.9		4,258.3			
Annual mean	12.4		11.7		16.0	
Highest annual mean					19.4	2005
Lowest annual mean					11.7	2007
Highest daily mean	116	Jan 18	162	Jan 1	663	Sep 17, 2004
Lowest daily mean	4.3	Aug 2	2.4	Sep 29	0.75	Sep 12, 2002
Annual seven-day minimum	4.6	Oct 1	2.5	Sep 24	0.91	Sep 7, 2002
Maximum peak flow			256	Jan 1	^a 3,000	Sep 17, 2004
Maximum peak stage			3.96	Jan 1	9.81	Sep 17, 2004
Instantaneous low flow			2.3	Sep 30	^a 0.71	Sep 11, 2002
Annual runoff (cfsm)	1.42		1.33		1.83	
Annual runoff (inches)	19.28		18.12		24.93	
10 percent exceeds	19		19		24	
50 percent exceeds	11		9.1		13	
90 percent exceeds	5.0		3.3		5.4	

^a See Remarks.

