

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'51". Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above NGVD of 1929 (Duke Power Company bench mark). Prior to July 20, 1934, at site 500 ft upstream at 640.92 ft. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	674	779	532	1,620	937	1,520	1,740	1,670	1,620	1,670	6,230	1,260
2	647	686	436	1,400	642	1,290	1,470	1,840	1,590	8,570	3,100	1,460
3	328	421	539	1,160	598	1,220	1,430	2,060	2,180	7,100	2,660	1,570
4	400	409	771	1,230	816	1,280	1,620	1,940	2,880	3,420	4,030	1,670
5	417	502	1,520	796	867	1,250	1,600	1,790	2,410	2,580	6,040	1,590
6	252	921	1,670	769	919	1,990	1,290	4,450	1,870	2,240	3,620	1,360
7	242	609	1,400	1,130	899	2,280	3,390	8,230	3,340	2,030	3,990	1,030
8	236	752	1,090	1,130	1,000	1,870	3,310	6,200	7,240	2,020	3,940	947
9	224	735	829	1,150	711	1,440	3,420	3,740	5,550	1,840	3,360	1,300
10	460	454	928	1,220	672	1,150	7,460	2,960	3,560	1,760	2,780	1,420
11	452	641	1,790	1,090	683	1,270	12,200	2,520	2,720	1,840	3,530	1,410
12	340	1,780	2,100	662	983	1,110	5,290	2,230	2,300	1,740	4,020	1,340
13	274	1,780	2,340	648	1,000	1,040	3,480	2,160	2,140	2,890	3,240	1,000
14	299	1,390	3,520	1,010	1,010	1,170	2,670	1,980	2,010	2,620	2,360	926
15	633	1,220	2,080	1,040	1,100	1,270	2,420	1,880	1,840	2,010	2,590	867
16	3,370	1,550	1,530	972	819	1,790	2,140	1,960	2,190	1,760	2,470	1,270
17	2,070	2,730	1,370	974	912	1,730	2,000	1,920	2,470	1,610	2,120	1,430
18	1,260	2,050	1,280	969	1,080	2,750	10,800	1,930	2,240	1,590	2,230	1,280
19	955	1,400	1,320	830	1,200	2,660	8,740	1,920	3,200	1,700	2,000	1,000
20	517	1,200	2,220	678	1,180	25,800	3,930	2,010	2,460	1,470	1,810	900
21	465	1,170	2,150	628	1,160	10,600	3,210	1,860	1,960	1,400	1,710	801
22	665	951	1,490	925	3,290	4,260	2,730	12,300	1,720	1,490	1,640	880
23	688	1,020	1,290	972	5,480	3,030	2,390	8,470	1,640	1,570	1,760	2,190
24	677	610	3,760	853	2,750	2,460	2,210	5,080	1,660	1,650	1,650	1,850
25	493	576	5,300	784	1,870	2,150	2,150	4,790	1,450	1,390	1,510	1,320
26	711	934	2,690	570	1,770	1,990	2,270	3,250	1,210	1,430	1,370	1,260
27	449	835	2,110	581	1,670	1,910	2,000	2,850	1,530	1,140	1,200	1,200
28	461	834	1,710	859	1,680	1,810	1,870	2,410	1,650	910	1,350	1,010
29	966	520	1,380	958	---	1,650	1,800	2,060	1,500	1,000	1,420	1,030
30	886	779	1,310	991	---	1,730	1,900	2,030	1,390	1,620	1,510	1,170
31	716	---	1,480	1,010	---	1,990	---	1,840	---	8,820	1,250	---
TOTAL	21,227	30,238	53,935	29,609	37,698	89,460	102,930	102,330	71,520	74,880	82,490	37,741
MEAN	685	1,008	1,740	955	1,346	2,886	3,431	3,301	2,384	2,415	2,661	1,258
MAX	3,370	2,730	5,300	1,620	5,480	25,800	12,200	12,300	7,240	8,820	6,230	2,190
MIN	224	409	436	570	598	1,040	1,290	1,670	1,210	910	1,200	801
CFSM	0.78	1.15	1.99	1.09	1.54	3.30	3.92	3.77	2.72	2.76	3.04	1.44
IN.	0.90	1.29	2.29	1.26	1.60	3.80	4.38	4.35	3.04	3.18	3.51	1.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2003, BY WATER YEAR (WY)

MEAN	1,246	1,209	1,432	1,736	1,884	2,093	1,928	1,547	1,304	1,101	1,217	1,049
MAX	5,499	3,275	2,875	4,750	4,304	4,868	4,525	3,441	2,812	2,505	6,893	3,100
(WY)	(1965)	(1993)	(1984)	(1937)	(1960)	(1975)	(1936)	(1973)	(1973)	(1949)	(1928)	(1945)
MIN	237	407	449	422	641	783	821	505	420	305	175	288
(WY)	(1955)	(1955)	(1956)	(1956)	(2001)	(1988)	(1986)	(2001)	(1988)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1925 - 2003	
ANNUAL TOTAL	272,245		734,058		1,479	
ANNUAL MEAN	746		2,011		2,328	
HIGHEST ANNUAL MEAN					578	1973
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	5,300	Dec 25	25,800	Mar 20	63,900	Aug 16, 1928
LOWEST DAILY MEAN	83	Sep 13	224	Oct 9	83	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	102	Sep 8	300	Oct 3	102	Sep 8, 2002
MAXIMUM PEAK FLOW			35,200	Mar 20	73,300*	Aug 16, 1928
MAXIMUM PEAK STAGE			15.00	Mar 20	24.30*	Aug 16, 1928
INSTANTANEOUS LOW FLOW			178	Oct 9	40	Oct 17, 1954
ANNUAL RUNOFF (CFSM)	0.85		2.30		1.69	
ANNUAL RUNOFF (INCHES)	11.57		31.21		22.97	
10 PERCENT EXCEEDS	1,380		3,440		2,490	
50 PERCENT EXCEEDS	618		1,530		1,160	
90 PERCENT EXCEEDS	203		648		552	

\* See REMARKS.

