

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 mi².

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,680	841	1,630	1,760	1,330	2,990	2,750	1,650	1,350	2,070	1,850	1,120
2	2,500	1,330	1,640	1,200	1,380	2,210	2,650	1,460	2,270	1,980	1,500	1,140
3	2,000	1,720	1,650	1,200	1,430	1,630	2,240	1,500	2,170	1,790	1,440	1,040
4	1,480	6,760	1,530	1,740	1,540	1,560	1,860	1,470	1,760	2,740	1,200	790
5	1,640	4,550	1,160	1,930	1,380	1,810	2,180	1,380	1,480	2,290	1,240	764
6	1,660	2,940	1,220	2,000	1,050	1,230	2,110	1,370	1,230	3,460	1,360	877
7	1,630	1,940	2,030	1,730	1,020	1,130	1,920	1,310	1,770	10,200	1,210	1,260
8	1,590	1,510	1,790	1,880	1,330	1,810	2,210	968	1,420	18,500	1,640	1,030
9	1,590	2,010	2,020	1,300	1,700	1,590	2,230	1,180	1,620	5,140	2,980	952
10	1,420	1,570	11,900	1,200	1,810	1,140	1,840	1,470	1,600	3,250	2,260	1,070
11	1,380	1,620	4,070	1,790	1,500	1,670	1,690	1,520	1,700	2,770	1,880	742
12	1,410	2,070	2,440	1,590	1,260	1,420	2,060	1,340	1,740	3,210	1,600	644
13	1,470	3,150	1,980	1,440	972	1,070	3,210	1,100	2,060	3,650	1,420	621
14	1,530	1,870	1,950	3,650	967	1,070	3,470	1,360	2,350	3,430	1,500	951
15	1,490	1,570	1,830	2,780	973	1,500	3,130	1,010	2,090	5,050	1,120	1,070
16	1,410	1,530	2,110	1,650	1,120	1,490	2,360	1,030	1,700	3,000	1,180	1,030
17	994	1,500	1,750	1,480	1,370	1,640	2,000	1,330	1,470	2,470	1,200	1,020
18	927	1,560	1,670	1,990	1,280	1,560	1,910	1,300	1,470	2,310	1,390	631
19	1,320	1,660	1,480	1,540	1,460	1,310	2,020	1,220	1,330	2,290	1,560	581
20	1,480	1,620	1,160	1,560	1,000	1,120	1,960	1,420	1,460	2,060	1,320	905
21	1,230	1,520	1,650	1,610	1,160	1,010	1,630	1,490	1,590	1,970	897	1,070
22	1,160	1,140	1,890	1,770	2,000	1,250	1,600	1,250	1,360	1,850	891	806
23	1,360	1,610	2,980	1,170	1,460	2,110	1,480	1,120	1,120	1,900	2,070	858
24	1,040	1,740	4,440	1,120	1,510	1,940	1,530	1,350	1,130	1,710	1,500	806
25	1,160	2,520	3,150	1,440	1,490	1,750	1,580	1,410	1,230	1,420	1,340	585
26	1,270	1,960	2,280	1,490	1,450	1,520	1,720	1,040	892	1,630	1,140	688
27	1,260	1,750	1,910	1,470	1,450	1,230	1,540	1,240	1,560	1,580	1,210	1,000
28	1,310	1,830	2,200	1,550	2,570	9,690	1,310	1,200	4,370	1,630	1,270	793
29	1,340	1,540	2,110	1,450	---	6,460	1,420	829	2,960	1,750	1,270	899
30	1,320	1,590	1,910	1,370	---	3,640	1,610	842	2,430	1,730	1,160	835
31	958	---	1,870	1,210	---	2,910	---	1,200	---	1,650	1,180	---
TOTAL	45,009	60,521	73,400	51,060	38,962	64,460	61,220	39,359	52,682	100,480	44,778	26,578
MEAN	1,452	2,017	2,368	1,647	1,392	2,079	2,041	1,270	1,756	3,241	1,444	886
MAX	2,680	6,760	11,900	3,650	2,570	9,690	3,470	1,650	4,370	18,500	2,980	1,260
MIN	927	841	1,160	1,120	967	1,010	1,310	829	892	1,420	891	581
CFSM	1.66	2.31	2.71	1.88	1.59	2.38	2.33	1.45	2.01	3.70	1.65	1.01
IN.	1.91	2.57	3.12	2.17	1.66	2.74	2.60	1.67	2.24	4.27	1.90	1.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	1,247	1,223	1,446	1,726	1,879	2,080	1,921	1,536	1,310	1,126	1,214	1,093
MAX	5,499	3,275	2,875	4,750	4,304	4,868	4,525	3,441	2,812	3,241	6,893	4,806
(WY)	(1965)	(1993)	(1984)	(1937)	(1960)	(1975)	(1936)	(1973)	(1973)	(2005)	(1928)	(2004)
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL TOTAL	605,875		658,509			
ANNUAL MEAN	1,655		1,804		1,484	
HIGHEST ANNUAL MEAN					2,328	1973
LOWEST ANNUAL MEAN					578	2002
HIGHEST DAILY MEAN	31,200	Sep 8	18,500	Jul 8	63,900	Aug 16, 1928
LOWEST DAILY MEAN	504	Jul 25	581	Sep 19	83	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	661	Aug 15	791	Sep 22	102	Sep 8, 2002
MAXIMUM PEAK FLOW			25,100	Jul 8	73,300*	Aug 16, 1928
MAXIMUM PEAK STAGE			14.03	Jul 8	24.30*	Aug 16, 1928
INSTANTANEOUS LOW FLOW			507	Sep 19	40	Oct 17, 1954
ANNUAL RUNOFF (CFSM)	1.89		2.06		1.70	
ANNUAL RUNOFF (INCHES)	25.76		28.00		23.04	
10 PERCENT EXCEEDS	2,400		2,660		2,490	
50 PERCENT EXCEEDS	1,180		1,520		1,170	
90 PERCENT EXCEEDS	741		1,020		555	

* See REMARKS.

