

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC

LOCATION.--Lat 35°51'24", long 80°23'13", North American Datum of 1983, Davie County, Hydrologic Unit 03040101, on right bank on downstream side of bridge on U.S. Highway 64, 1.5 mi south of Yadkin College, 6.2 mi downstream of Reedy Creek, and 295 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.45 ft above NGVD of 1929. Prior to July 26, 1957, at site on left bank 100 ft downstream at same datum. July 27, 1957, to Sept. 19, 1984, at site 20 ft downstream on bridge pier near left bank, at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation and occasional regulation during low flow caused by small hydroelectric plant 10 mi upstream with little storage capacity. Since August 1962, some regulation by W. Kerr Scott Reservoir (station 02111391). Prior to regulation, maximum discharge: 80,200 ft³/s, Aug. 15, 1940; gage height: 33.75 ft; minimum observed discharge: 177 ft³/s, Oct. 12, 1954; gage height: -0.42 ft. Minimum discharge for period of record, result of regulation. Peak stage for current water year from crest-stage gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916, reached a stage of 36.3 ft, from floodmarks; discharge, 94,300 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,640	2,240	3,040	2,660	2,360	2,970	2,950	2,570	1,980	2,040	1,730	1,450
2	2,400	2,220	2,850	2,630	2,290	2,910	2,940	4,230	1,880	1,940	1,600	1,460
3	2,320	2,200	2,650	2,600	3,840	2,820	2,590	3,030	1,680	2,140	2,740	1,430
4	2,290	2,180	2,660	2,620	6,030	2,650	2,410	2,650	1,770	2,660	1,980	1,440
5	2,320	2,180	3,150	2,620	3,920	2,580	2,300	2,420	2,540	3,530	1,590	1,830
6	2,320	2,500	3,780	2,740	4,060	2,640	2,240	2,320	2,580	2,430	1,430	1,400
7	2,320	4,700	3,360	2,680	16,300	2,890	2,220	2,220	2,100	2,000	1,420	1,350
8	2,290	3,410	3,010	2,540	7,960	2,700	2,220	2,140	2,330	1,760	1,310	8,000
9	2,380	2,750	2,790	2,480	5,820	2,560	2,220	2,090	2,860	1,680	1,270	24,800
10	2,570	2,430	2,920	2,530	5,570	2,500	2,200	2,490	2,420	1,570	1,270	13,300
11	2,720	2,360	8,410	2,480	3,720	2,480	2,170	2,290	2,120	2,070	1,240	8,430
12	2,460	2,360	6,200	2,460	3,410	2,440	2,390	2,090	2,100	2,050	2,490	7,600
13	2,310	2,310	4,660	2,470	3,410	2,410	4,620	1,980	1,880	1,930	4,190	6,930
14	2,280	2,240	4,720	2,450	3,230	2,360	9,590	1,950	2,120	2,260	2,440	5,140
15	2,440	2,170	5,590	2,420	3,130	2,350	6,130	2,010	2,190	1,770	2,020	2,750
16	2,510	2,210	5,200	2,360	3,170	2,700	4,470	1,960	2,280	1,520	1,710	2,310
17	2,280	2,240	4,660	2,340	3,130	3,240	3,920	2,080	4,480	1,440	1,550	2,470
18	2,230	2,250	5,590	2,420	3,020	3,040	3,440	2,360	3,810	1,510	1,790	7,290
19	2,220	2,360	4,340	2,600	2,940	2,710	2,900	2,270	3,420	2,130	2,280	5,860
20	2,190	9,060	3,900	2,490	2,880	2,600	2,790	2,300	2,820	2,370	1,740	4,310
21	2,180	5,680	3,450	2,330	2,800	2,570	2,560	2,170	2,140	1,790	1,550	3,030
22	2,150	5,680	3,200	2,300	2,750	2,380	2,500	2,140	2,010	1,520	1,690	2,600
23	2,110	4,840	3,100	2,300	2,670	2,360	2,410	2,060	3,280	1,460	1,490	2,370
24	2,120	4,160	3,010	2,290	2,640	2,340	2,430	2,250	3,510	1,450	1,400	2,250
25	2,090	3,060	3,040	2,310	2,630	2,280	2,430	2,140	2,740	1,390	1,480	2,160
26	2,090	2,980	2,840	2,400	2,580	2,280	2,420	1,980	4,180	1,340	1,980	2,020
27	2,310	2,710	2,770	2,440	2,660	2,270	3,060	2,070	4,770	2,190	e1,500	2,130
28	4,120	2,680	2,770	2,360	2,780	2,270	2,980	2,140	3,420	3,030	e1,450	15,500
29	3,310	3,310	2,720	2,410	2,910	2,250	2,510	1,930	2,720	2,650	e1,520	31,600
30	2,690	3,310	2,750	2,370	---	2,240	2,360	1,910	2,310	1,900	e1,550	12,100
31	2,310	---	2,770	2,390	---	2,510	---	1,870	---	1,760	1,600	---
TOTAL	74,970	94,780	115,900	76,490	114,610	79,300	92,370	70,110	80,440	61,280	55,000	185,310
MEAN	2,418	3,159	3,739	2,467	3,952	2,558	3,079	2,262	2,681	1,977	1,774	6,177
MAX	4,120	9,060	8,410	2,740	16,300	3,240	9,590	4,230	4,770	3,530	4,190	31,600
MIN	2,090	2,170	2,650	2,290	2,290	2,240	2,170	1,870	1,680	1,340	1,240	1,350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004,* BY WATER YEAR (WY)

MEAN	2,405	2,462	2,839	3,450	3,712	4,506	4,045	3,324	2,934	2,321	2,294	2,192
MAX	7,491	5,844	5,784	7,580	7,632	10,380	9,419	6,277	7,755	5,158	7,191	7,314
(WY)	(1991)	(1993)	(1974)	(1978)	(1990)	(1975)	(1987)	(1984)	(1972)	(2003)	(1970)	(1979)
MIN	747	792	1,160	1,354	1,444	1,798	1,519	1,053	581	749	445	867
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(2001)

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004*	
ANNUAL TOTAL	1,657,360		1,100,560		3,037	
ANNUAL MEAN	4,541		3,007		4,524	
HIGHEST ANNUAL MEAN					1,116	1973
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	42,600	Mar 21	31,600	Sep 29	66,000	Jun 22, 1972
LOWEST DAILY MEAN	1,500	Jan 29	1,240	Aug 11	236	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	1,560	Jan 23	1,360	Aug 5	261	Aug 9, 2002
MAXIMUM PEAK FLOW			35,100	Sep 29	75,200	Jun 22, 1972
MAXIMUM PEAK STAGE			22.50*	Sep 29	32.81*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			1,190	Aug 11	110*	Aug 28, 1988
10 PERCENT EXCEEDS	7,930		4,380		5,250	
50 PERCENT EXCEEDS	3,440		2,420		2,270	
90 PERCENT EXCEEDS	2,120		1,700		1,190	

* Regulated period only (1963-2004). See REMARKS.
 e Estimated.

