

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. 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.

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,160	2,030	1,540	2,230	1,940	5,560	4,250	5,440	3,280	3,680	6,140	5,740
2	990	1,750	1,510	2,480	1,810	5,000	3,900	5,620	2,990	4,360	4,990	4,520
3	913	1,580	1,470	3,050	1,740	4,170	3,240	6,680	3,530	11,400	4,160	3,550
4	917	1,510	1,470	3,770	1,950	3,470	3,180	5,790	7,140	8,520	8,570	7,610
5	968	1,480	1,900	3,080	2,150	3,190	3,040	4,740	7,880	7,430	6,170	11,600
6	1,070	2,280	2,210	2,680	1,970	4,530	3,030	5,860	4,610	6,810	7,860	4,630
7	898	2,420	2,150	2,470	2,420	4,290	5,060	5,040	6,700	9,970	7,050	3,610
8	692	1,920	1,960	2,340	2,280	3,440	5,690	4,550	14,000	5,940	9,510	3,200
9	674	1,750	1,860	2,280	2,030	3,150	8,140	4,210	12,800	4,880	8,800	3,020
10	670	1,610	1,860	2,220	1,930	2,970	18,700	3,630	8,870	4,620	7,740	2,780
11	1,880	2,120	3,880	2,120	1,930	2,800	33,700	3,370	5,840	5,180	12,500	2,660
12	1,680	8,060	5,680	2,010	1,910	2,690	23,800	3,190	4,940	4,960	8,010	2,610
13	1,540	8,440	5,570	1,940	1,830	2,410	9,370	3,090	5,440	4,510	5,330	2,660
14	1,350	3,660	11,300	1,910	1,740	2,520	8,120	2,530	4,970	4,310	4,710	2,550
15	1,050	3,220	5,530	1,860	1,790	2,430	7,410	2,410	5,530	3,760	4,170	2,520
16	2,510	4,560	3,890	1,830	2,030	3,550	6,750	3,620	7,370	3,470	3,940	2,540
17	4,250	9,670	3,280	e1,780	2,670	7,820	5,190	3,660	10,100	3,810	4,470	2,540
18	2,450	6,170	2,970	e1,750	2,590	4,850	4,090	3,510	9,160	3,560	4,050	2,420
19	2,430	3,920	2,580	e1,700	3,130	5,300	13,400	3,480	8,310	4,100	3,660	4,140
20	1,650	3,220	2,910	e1,660	3,160	20,900	10,800	3,140	13,100	4,370	3,500	2,830
21	1,580	2,900	4,520	e1,640	2,980	42,600	7,350	2,980	9,000	3,610	3,270	2,400
22	1,690	2,710	3,390	e1,620	6,340	20,500	5,650	4,280	6,840	3,480	3,190	2,320
23	1,690	2,150	2,920	e1,590	24,600	8,580	4,960	5,090	4,540	5,090	3,370	9,960
24	1,450	1,940	3,600	e1,580	12,600	6,240	4,290	4,480	3,660	6,120	4,060	7,220
25	1,320	1,880	7,720	e1,580	6,710	4,590	4,100	4,030	4,040	3,630	3,370	3,780
26	1,270	1,810	4,910	e1,580	6,430	3,750	4,010	9,360	2,980	3,860	3,040	3,130
27	1,160	1,760	3,290	e1,560	5,400	3,650	4,920	6,030	3,520	3,360	2,810	2,690
28	1,270	1,720	3,320	e1,540	6,090	3,410	4,070	4,370	3,750	2,970	2,740	2,940
29	2,030	1,630	2,960	e1,500	---	3,170	3,620	3,750	3,440	3,070	2,740	3,460
30	2,470	1,580	2,790	2,080	---	4,370	3,220	3,360	3,460	9,470	2,890	3,000
31	2,330	---	2,620	2,160	---	5,890	---	3,290	---	5,600	3,420	---
TOTAL	48,002	91,450	107,560	63,590	114,150	201,790	227,050	134,580	191,790	159,900	160,230	118,630
MEAN	1,548	3,048	3,470	2,051	4,077	6,509	7,568	4,341	6,393	5,158	5,169	3,954
MAX	4,250	9,670	11,300	3,770	24,600	42,600	33,700	9,360	14,000	11,400	12,500	11,600
MIN	670	1,480	1,470	1,500	1,740	2,410	3,030	2,410	2,980	2,970	2,740	2,320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003,* BY WATER YEAR (WY)

MEAN	2,404	2,445	2,817	3,474	3,706	4,553	4,068	3,350	2,940	2,330	2,307	2,095
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003*	
ANNUAL TOTAL	569,180		1,618,722		3,037	
ANNUAL MEAN	1,559		4,435		4,524	
HIGHEST ANNUAL MEAN					1,116	1973
LOWEST ANNUAL MEAN					1,116	2002
HIGHEST DAILY MEAN	11,300	Dec 14	42,600	Mar 21	66,000	Jun 22, 1972
LOWEST DAILY MEAN	236	Aug 12	670	Oct 10	236	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	261	Aug 9	841	Oct 4	261	Aug 9, 2002
MAXIMUM PEAK FLOW			45,900	Mar 21	75,200	Jun 22, 1972
MAXIMUM PEAK STAGE			26.19	Mar 21	32.81*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			643	Oct 10	110*	Aug 28, 1988
10 PERCENT EXCEEDS	2,990		8,080		5,270	
50 PERCENT EXCEEDS	1,250		3,420		2,250	
90 PERCENT EXCEEDS	403		1,630		1,180	

e Estimated.

* Regulated period only (1963-2003). See REMARKS.

