

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.--No estimated daily discharges. Records good. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,580	2,250	2,820	2,720	2,970	4,950	5,270	3,320	2,000	2,420	4,100	2,010
2	3,990	2,200	3,430	2,590	2,980	3,920	4,410	2,900	2,270	2,350	2,590	1,750
3	3,650	2,180	3,070	2,580	2,950	3,470	5,100	2,680	3,170	2,240	2,250	1,460
4	3,100	2,570	2,710	2,610	3,700	3,100	4,570	2,600	3,080	2,500	2,050	1,370
5	2,790	2,810	2,600	2,560	3,300	2,840	3,940	2,540	2,740	2,750	1,920	1,280
6	2,540	2,800	2,550	2,500	3,010	2,860	3,570	2,530	2,490	3,270	1,970	1,300
7	2,450	2,800	2,600	2,500	2,860	2,860	3,480	2,490	2,320	2,800	1,990	1,320
8	2,380	2,470	2,610	2,440	2,710	2,970	3,440	2,450	2,660	19,100	2,060	1,270
9	2,310	2,180	3,030	2,440	2,680	3,060	3,470	2,440	3,000	8,030	5,350	1,250
10	2,270	2,110	11,200	2,400	2,770	2,880	3,310	2,380	3,590	4,470	5,460	1,200
11	2,200	2,100	8,380	2,380	2,640	2,720	3,210	2,290	3,650	3,800	2,890	1,210
12	2,160	2,810	5,710	2,330	2,550	2,620	2,920	2,420	2,940	3,640	2,290	1,250
13	2,270	6,450	4,020	2,340	2,520	2,540	3,070	2,570	2,610	3,640	2,040	1,250
14	5,690	3,880	3,410	10,100	2,620	2,560	6,300	2,390	2,830	4,040	1,890	1,230
15	3,700	3,130	3,080	16,000	2,720	2,600	5,040	2,410	2,860	3,720	1,810	1,220
16	2,680	2,930	2,760	6,130	2,620	2,600	3,910	2,640	3,200	3,020	1,900	1,220
17	2,470	2,590	2,680	4,520	2,570	3,050	3,540	2,680	2,800	3,370	2,060	1,280
18	2,270	2,540	2,640	3,650	2,500	3,240	3,130	2,360	2,150	3,370	2,400	1,380
19	2,060	2,390	2,540	3,230	2,400	2,940	3,220	2,280	2,020	3,400	2,490	1,270
20	2,210	2,260	2,550	3,030	2,360	2,720	3,060	2,930	2,200	3,690	2,740	1,170
21	2,250	2,300	2,510	2,990	2,430	2,630	2,900	3,370	2,210	3,330	2,640	1,280
22	2,250	2,270	2,450	2,950	2,470	2,600	2,850	2,840	2,120	3,130	2,420	1,270
23	2,160	2,310	2,680	2,900	2,400	3,110	3,470	2,490	2,120	2,920	1,840	1,180
24	2,200	2,870	8,350	2,740	2,550	7,420	3,490	2,290	1,990	2,540	1,770	1,150
25	2,320	7,550	5,410	2,660	2,760	4,680	2,990	2,260	1,930	2,140	1,770	1,100
26	2,240	5,450	4,410	2,630	2,670	3,770	2,830	2,190	1,800	1,980	1,750	1,110
27	2,160	3,750	3,990	2,580	2,550	3,260	2,760	2,130	1,790	1,950	1,710	1,220
28	2,190	4,100	3,350	2,530	3,510	8,940	2,770	2,050	2,240	2,010	1,650	1,270
29	2,320	3,740	2,870	2,520	---	19,200	2,760	2,040	2,260	2,830	1,640	1,220
30	2,350	3,140	2,860	2,710	---	7,770	2,970	2,050	2,280	2,760	1,640	1,160
31	2,370	---	2,810	3,100	---	6,030	---	2,020	---	3,110	1,710	---
TOTAL	84,580	92,930	116,080	109,360	76,770	129,910	107,750	77,030	75,320	114,320	72,790	38,650
MEAN	2,728	3,098	3,745	3,528	2,742	4,191	3,592	2,485	2,511	3,688	2,348	1,288
MAX	6,580	7,550	11,200	16,000	3,700	19,200	6,300	3,370	3,650	19,100	5,460	2,010
MIN	2,060	2,100	2,450	2,330	2,360	2,540	2,760	2,020	1,790	1,950	1,640	1,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005,* BY WATER YEAR (WY)

MEAN	2,414	2,478	2,888	3,453	3,691	4,499	4,034	3,303	2,923	2,353	2,316	2,169
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005*	
ANNUAL TOTAL	1,108,500		1,095,490		3,019	
ANNUAL MEAN	3,029		3,001		4,524	
HIGHEST ANNUAL MEAN					1,116	
LOWEST ANNUAL MEAN					66,000	
HIGHEST DAILY MEAN	31,600	Sep 29	19,200	Mar 29	261	Jun 22, 1972
LOWEST DAILY MEAN	1,240	Aug 11	1,100	Sep 25	236	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	1,360	Aug 5	1,180	Sep 24	261	Aug 9, 2002
MAXIMUM PEAK FLOW			23,100	Mar 29	75,200*	Jun 22, 1972
MAXIMUM PEAK STAGE			17.10	Mar 29	32.81*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			1,060	Sep 25	110*	Aug 28, 1988
10 PERCENT EXCEEDS	4,200		4,030		5,180	
50 PERCENT EXCEEDS	2,440		2,620		2,270	
90 PERCENT EXCEEDS	1,700		1,770		1,200	

* Regulated period only (1963-2005). See REMARKS.

