

PEE DEE RIVER BASIN

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC

LOCATION.--Lat 35°51'23", long 80°23'14", 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 sea level. 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. Minimum discharge for current water year also occurred Sept. 20.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	774	961	866	1420	1490	6430	1210	1140	797	2300	847
2	1080	780	969	1100	1320	1420	4420	1260	1340	805	1650	1040
3	1040	815	938	1000	1280	1380	3350	1280	1270	813	1490	1050
4	995	845	942	932	1240	1790	3040	1190	1140	960	1390	986
5	975	852	936	989	1250	2130	2670	1120	1060	1050	1250	1050
6	961	844	955	1200	1240	1950	2400	1120	1110	1210	1430	1020
7	929	866	962	1160	1210	1620	2170	1110	1470	980	1050	851
8	886	853	953	1150	1210	1500	2040	1080	1470	861	872	771
9	848	932	961	1210	1220	1450	1900	e1050	1180	1490	815	730
10	830	1210	941	1160	1250	1400	1770	e1030	1080	1510	e800	736
11	832	1790	968	1040	1240	1370	1690	e1020	1010	1070	e795	755
12	844	1310	1000	1040	1180	1350	1670	980	962	909	e1750	923
13	819	1070	957	1070	1220	1470	1660	962	918	839	e1800	814
14	792	1070	971	1040	1260	1520	1700	910	899	823	e2100	680
15	802	1040	1030	1040	1310	1620	1630	879	882	755	1710	648
16	815	962	1210	1040	1350	2120	1560	928	973	707	1210	622
17	807	960	1590	1030	2410	2010	1510	1350	993	694	1020	590
18	778	961	2660	1080	2180	1700	1450	1650	866	667	949	566
19	768	937	1800	1610	1720	1560	1430	1400	759	679	1450	556
20	771	986	1480	5260	1480	1480	1420	1390	704	643	2330	610
21	767	972	1270	4680	1390	2240	1330	1410	669	611	2680	731
22	784	913	1200	2490	1360	3300	1400	1940	634	702	1510	784
23	787	895	1190	1850	1380	2700	1410	2750	1010	593	1050	665
24	815	895	1120	1640	1370	2690	1390	1760	1980	561	1110	627
25	813	953	1270	1540	1530	2290	1730	1580	1220	558	1020	2260
26	804	1150	1090	1460	1890	1940	1520	1930	1040	1120	877	1660
27	815	1340	1160	1410	1900	1780	1380	1780	1370	1810	802	1060
28	808	1210	1240	1370	1610	1510	1390	1430	1750	1600	793	840
29	809	1060	1140	1330	---	1800	1250	1290	1230	1640	937	783
30	798	1010	1110	1380	---	11500	1230	1230	923	2150	845	754
31	794	---	984	1450	---	8030	---	1150	---	3190	799	---
TOTAL	26456	30255	35958	46617	40420	72110	59940	41169	33052	32797	40584	26009
MEAN	853	1008	1160	1504	1444	2326	1998	1328	1102	1058	1309	867
MAX	1090	1790	2660	5260	2410	11500	6430	2750	1980	3190	2680	2260
MIN	767	774	936	866	1180	1350	1230	879	634	558	793	556

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001,* BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	2469	2472	2841	3556	3753	4568	4044	3383	2912	2296	2281	2074																											
MAX	7491	5844	5784	7580	7632	10380	9419	6277	7755	4622	7191	7314																											
(WY)	1991	1993	1974	1978	1990	1975	1987	1984	1972	1984	1970	1979																											
MIN	853	1008	1160	1354	1444	1798	1691	1328	1048	749	708	867																											
(WY)	2001	2001	2001	1981	2001	1981	1985	2001	1988	1986	1981	2001																											

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001*	
ANNUAL TOTAL	601248		485367			
ANNUAL MEAN	1643		1330		3051	
HIGHEST ANNUAL MEAN					4524	
LOWEST ANNUAL MEAN					1330	
HIGHEST DAILY MEAN	11600	Mar 21	11500	Mar 30	66000	Jun 22 1972
LOWEST DAILY MEAN	662	Aug 25	556	Sep 19	350	Aug 28 1988
ANNUAL SEVEN-DAY MINIMUM	736	Aug 21	610	Sep 14	414	Aug 25 1981
MAXIMUM PEAK FLOW			15300		75200*	
MAXIMUM PEAK STAGE			12.68		32.81*	
INSTANTANEOUS LOW FLOW			487*		110*	
10 PERCENT EXCEEDS	2660		1930		5250	
50 PERCENT EXCEEDS	1430		1120		2270	
90 PERCENT EXCEEDS	831		782		1220	

e Estimated.

* Regulated period only (1963-2001). See REMARKS.

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC--Continued

