

02112000 YADKIN RIVER AT WILKESBORO, NC

LOCATION.--Lat 36°09'09", long 81°08'44", Wilkes County, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on State Highways 18 and 268 between North Wilkesboro and Wilkesboro, 150 ft downstream of Reddies River, 0.5 mi northeast of Wilkesboro, and 382 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--504 mi².

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "Yadkin River at North Wilkesboro".

REVISED RECORDS.--WSP 1433: 1903-09, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above NGVD of 1929. Apr. 10, 1903, to June 30, 1909, and Oct. 17, 1920, to Apr. 10, 1929, nonrecording gage at site 1.2 mi downstream at different datum. Apr. 11, 1929, to Jan. 9, 1930, nonrecording gage at present site and datum. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated since 1962 by W. Kerr Scott Reservoir (station 02111391) 5.5 mi upstream. Prior to regulation maximum discharge: 160,000 ft³/s, Aug. 14, 1940, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement of peak flow; gage height: 37.6 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 34.5 ft present site and datum, from floodmark; discharge, 116,000 ft³/s, from rating curve extended as explained above.

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	230	621	497	695	421	1,020	1,280	1,980	979	728	1,490	1,660
2	310	598	489	778	411	1,020	919	1,920	888	2,400	1,490	1,470
3	416	590	490	847	403	989	964	1,350	949	4,080	2,130	1,240
4	606	371	449	849	440	972	896	1,370	1,330	4,500	2,520	1,320
5	504	285	e520	812	691	881	859	1,450	1,330	3,400	2,380	1,230
6	226	557	485	781	689	779	846	1,600	1,120	2,310	1,880	1,120
7	219	654	589	768	538	986	871	1,720	1,900	2,200	2,520	1,040
8	216	601	583	778	513	969	723	1,630	2,930	2,130	2,640	989
9	248	466	560	773	492	953	1,010	1,250	3,710	1,800	2,920	867
10	294	411	450	738	497	935	3,460	1,140	2,390	1,890	3,070	859
11	389	1,200	800	613	492	760	3,410	1,100	1,580	1,780	2,400	931
12	318	1,010	2,010	616	454	598	3,660	971	1,390	1,420	1,580	912
13	340	810	2,130	588	412	595	4,050	412	1,710	1,390	1,540	851
14	325	1,800	1,410	561	418	631	3,960	618	2,370	1,340	1,280	846
15	368	2,200	1,450	563	497	660	3,610	1,500	2,710	1,270	1,340	877
16	1,050	825	1,380	562	656	1,270	2,100	1,560	3,170	1,260	1,320	840
17	1,130	1,250	1,270	562	711	1,510	1,130	1,230	2,780	1,300	1,250	824
18	1,270	1,420	860	e530	715	2,940	2,760	1,020	3,050	1,260	1,370	747
19	699	1,330	652	e540	750	2,460	4,020	998	5,320	1,130	1,300	686
20	695	1,290	917	e510	938	1,950	2,800	984	4,860	1,180	1,120	670
21	702	1,050	1,230	e500	959	2,550	1,840	891	3,400	1,200	1,060	666
22	669	633	1,070	511	1,970	3,730	1,700	887	1,420	1,490	1,060	900
23	549	623	980	517	2,010	2,380	1,470	1,380	1,420	1,490	1,060	1,610
24	452	617	999	e510	3,180	1,350	1,390	1,380	1,500	1,140	1,110	1,400
25	231	609	996	e510	3,560	1,010	1,250	1,210	755	1,740	992	1,040
26	259	601	1,180	e500	1,780	1,160	1,390	1,180	1,550	1,250	914	784
27	246	580	1,370	e490	815	1,060	1,270	1,300	1,450	1,050	912	918
28	273	514	1,190	e490	1,260	933	945	1,110	1,180	1,040	908	1,320
29	484	508	1,180	485	---	874	778	869	1,680	1,060	956	1,190
30	689	507	810	437	---	e1,200	1,400	988	1,420	1,560	1,120	839
31	670	---	523	432	---	1,360	---	1,000	---	1,520	1,490	---
TOTAL	15,077	24,531	29,519	18,846	26,672	40,485	56,761	37,998	62,241	53,308	49,122	30,646
MEAN	486	818	952	608	953	1,306	1,892	1,226	2,075	1,720	1,585	1,022
MAX	1,270	2,200	2,130	849	3,560	3,730	4,050	1,980	5,320	4,500	3,070	1,660
MIN	216	285	449	432	403	595	723	412	755	728	908	666
†	-21	-25	-8	+4	+27	-18	0	-11	+9	-12	+21	-24

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

MEAN	656	704	742	869	960	1,169	1,136	930	874	677	712	589
MAX	1,834	2,571	1,619	1,965	1,832	2,346	2,868	1,954	2,075	1,720	2,239	1,948
(WY)	(1991)	(1978)	(1974)	(1995)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(1979)
MIN	191	209	249	302	335	441	435	300	248	234	194	209
(WY)	(1989)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(1988)	(1988)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003*	
ANNUAL TOTAL	168,073		445,206		834 (UNADJUSTED)	
ANNUAL MEAN	460		1,220		1,220 1973	
HIGHEST ANNUAL MEAN			‡1,210		336 2002	
LOWEST ANNUAL MEAN					7,990 Aug 10, 1970	
HIGHEST DAILY MEAN	2,200	Nov 15	5,320	Jun 19	12,800	Apr 10, 1983
LOWEST DAILY MEAN	137	Sep 12	216	Oct 8	114	Dec 8, 1970
ANNUAL SEVEN-DAY MINIMUM	141	Sep 8	273	Oct 6	141	Sep 8, 2002
MAXIMUM PEAK FLOW			6,590	Jun 19	12,800	Apr 10, 1983
MAXIMUM PEAK STAGE			8.88	Jun 19	16.22	Apr 10, 1983
INSTANTANEOUS LOW FLOW			169	Nov 5	54	Oct 21, 1997
10 PERCENT EXCEEDS	878		2,380		1,420	
50 PERCENT EXCEEDS	348		1,000		635	
90 PERCENT EXCEEDS	200		485		330	

e Estimated.

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers.

‡ Adjusted for change in contents in W. Kerr Scott Reservoir.

* For regulated period only (1963-2003).

