

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.--No estimated daily discharges. Records good. 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. Minimum discharge for current water year also occurred Sept. 27.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	699	672	912	851	649	858	964	650	534	746	576	629
2	681	674	897	837	644	802	792	721	476	766	503	618
3	677	669	909	864	958	747	667	712	400	776	451	944
4	732	672	895	790	1,170	741	660	698	835	865	431	853
5	749	784	959	802	1,130	769	651	645	888	832	425	563
6	751	925	1,040	846	1,650	860	645	612	682	682	426	482
7	727	946	898	818	1,570	840	645	611	559	629	403	656
8	728	829	844	736	2,900	777	646	595	517	597	430	3,140
9	904	692	884	745	2,750	732	642	605	512	513	415	3,620
10	922	736	1,290	756	1,150	724	622	631	515	516	391	5,920
11	808	681	1,830	775	1,000	735	607	581	535	551	521	5,950
12	677	678	2,000	775	1,000	717	851	523	531	680	581	5,580
13	757	672	1,760	755	996	664	1,370	563	629	687	551	3,330
14	770	659	1,620	718	971	637	1,790	585	616	589	494	959
15	784	659	1,340	709	903	645	1,880	575	757	491	486	699
16	731	660	1,190	710	949	802	1,720	574	1,820	481	475	753
17	707	656	1,310	701	960	797	1,270	593	2,140	488	471	1,710
18	709	651	1,380	748	868	682	909	639	2,130	524	494	2,560
19	706	2,230	1,290	744	840	772	846	634	1,110	586	469	2,210
20	677	2,490	1,080	672	825	707	719	627	748	501	660	1,170
21	659	3,510	999	670	814	646	711	582	812	483	574	982
22	685	3,040	927	668	811	701	717	580	1,730	483	450	879
23	676	1,990	937	663	802	651	727	595	1,810	483	465	858
24	644	1,010	932	671	817	620	725	600	1,360	476	856	792
25	608	958	868	674	784	620	717	630	1,480	486	953	749
26	661	837	865	669	758	615	834	656	1,820	526	609	811
27	1,420	911	873	712	820	621	930	614	1,580	568	467	651
28	1,320	1,050	874	732	864	622	794	586	1,060	667	463	1,960
29	854	1,100	864	616	862	616	710	588	841	602	505	2,620
30	673	1,110	869	624	---	634	644	568	742	539	512	3,150
31	668	---	855	653	---	853	---	575	---	567	568	---
TOTAL	23,764	33,151	34,191	22,704	31,215	22,207	26,405	18,948	30,169	18,380	16,075	55,798
MEAN	767	1,105	1,103	732	1,076	716	880	611	1,006	593	519	1,860
MAX	1,420	3,510	2,000	864	2,900	860	1,880	721	2,140	865	953	5,950
MIN	608	651	844	616	644	615	607	523	400	476	391	482
†	+5	+1	+5	-4	-1	+5	-9	-2	+1	+4	0	+22

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

MEAN	659	713	751	865	963	1,158	1,129	922	877	675	707	620
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004*	
ANNUAL TOTAL	467,185		333,007		836 (UNADJUSTED)	
ANNUAL MEAN	1,280		910		1,220 1973	
HIGHEST ANNUAL MEAN					336 2002	
LOWEST ANNUAL MEAN					7,990 Aug 10, 1970	
HIGHEST DAILY MEAN	5,320	Jun 19	5,950	Sep 11	114 Dec 8, 1970	
LOWEST DAILY MEAN	403	Feb 3	391	Aug 10	141 Sep 8, 2002	
ANNUAL SEVEN-DAY MINIMUM	433	Jan 29	417	Aug 4	12,800 Apr 10, 1983	
MAXIMUM PEAK FLOW			6,050	Sep 9	16.22 Apr 10, 1983	
MAXIMUM PEAK STAGE			8.35	Sep 9	54 Oct 21, 1997	
INSTANTANEOUS LOW FLOW			348*	Jun 4		
10 PERCENT EXCEEDS	2,400		1,440		1,420	
50 PERCENT EXCEEDS	999		724		641	
90 PERCENT EXCEEDS	611		516		333	

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

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

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

