

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.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,410	751	1,130	800	1,070	1,120	1,510	808	539	701	660	572
2	1,250	678	1,020	876	736	1,160	1,490	784	993	850	721	433
3	1,040	632	829	884	830	914	1,910	775	1,150	968	599	392
4	878	898	826	827	940	786	1,470	721	1,040	1,000	537	440
5	847	1,290	818	780	910	866	1,240	685	789	899	569	468
6	820	1,330	815	774	829	909	1,200	680	593	740	566	430
7	822	884	831	766	748	886	1,110	707	659	1,270	565	416
8	773	644	802	772	796	972	1,090	726	1,040	1,610	636	377
9	725	689	1,050	763	819	934	1,140	630	1,320	2,090	648	423
10	706	688	1,670	751	743	807	1,040	635	1,260	2,020	648	484
11	701	724	1,730	700	738	760	826	804	1,080	1,920	634	484
12	661	1,150	1,300	701	737	745	949	658	1,040	2,170	561	474
13	862	1,210	1,190	748	740	740	1,150	607	972	1,910	516	463
14	903	1,270	980	2,970	752	745	1,560	635	1,560	1,220	566	462
15	920	1,170	838	2,510	736	772	1,490	851	1,930	1,160	576	462
16	875	943	827	1,800	732	791	1,220	844	1,350	1,730	569	458
17	612	871	777	1,310	701	826	995	685	808	1,710	597	440
18	526	731	764	1,110	652	850	1,130	634	703	1,710	1,230	394
19	631	732	846	976	630	752	974	637	739	1,560	1,450	363
20	725	796	908	961	639	746	851	873	816	1,510	1,390	360
21	751	770	697	950	644	741	919	851	823	1,380	903	366
22	661	658	698	933	633	773	1,010	675	798	1,150	597	370
23	698	745	1,800	907	624	1,240	1,030	601	777	1,000	573	370
24	733	1,330	2,170	794	753	1,450	871	656	717	775	595	368
25	709	1,460	2,250	695	817	1,310	807	611	621	666	597	385
26	677	1,590	2,000	708	792	1,040	801	567	609	703	535	411
27	670	1,810	1,350	759	746	828	806	549	601	694	509	410
28	695	1,620	935	758	877	2,780	765	564	610	753	509	393
29	811	1,080	1,000	702	---	2,850	786	566	626	916	502	389
30	777	849	992	750	---	2,850	817	562	795	798	629	384
31	762	---	871	965	---	2,620	---	556	---	640	741	---
TOTAL	24,631	29,993	34,714	30,700	21,364	35,563	32,957	21,137	27,358	38,223	20,928	12,641
MEAN	795	1,000	1,120	990	763	1,147	1,099	682	912	1,233	675	421
MAX	1,410	1,810	2,250	2,970	1,070	2,850	1,910	873	1,930	2,170	1,450	572
MIN	526	632	697	695	624	740	765	549	539	640	502	360
†	-19	-3	-1	+8	+3	+4	-10	-7	+8	-5	-3	-35

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

MEAN	662	720	759	868	959	1,158	1,129	917	878	688	706	615
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005*	
ANNUAL TOTAL	331,239		330,209		837 (UNADJUSTED)	
ANNUAL MEAN	905		905		336	
HIGHEST ANNUAL MEAN					1,220	1973
LOWEST ANNUAL MEAN					336	2002
HIGHEST DAILY MEAN	5,950	Sep 11	2,970	Jan 14	7,990	Aug 10, 1970
LOWEST DAILY MEAN	391	Aug 10	360	Sep 20	114	Dec 8, 1970
ANNUAL SEVEN-DAY MINIMUM	417	Aug 4	369	Sep 19	141	Sep 8, 2002
MAXIMUM PEAK FLOW			5,030	Jan 14	12,800	Apr 10, 1983
MAXIMUM PEAK STAGE			7.38	Jan 14	16.22	Apr 10, 1983
INSTANTANEOUS LOW FLOW			325	Sep 28	54	Oct 21, 1997
10 PERCENT EXCEEDS	1,470		1,450		1,420	
50 PERCENT EXCEEDS	732		789		648	
90 PERCENT EXCEEDS	516		538		336	

† 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 (1963-2005). See REMARKS.

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

