

Water-Data Report 2007

02112000 YADKIN RIVER AT WILKESBORO, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°09'09", long 81°08'44" referenced to North American Datum of 1983, Wilkes County, NC, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on North Carolina Highways 18/268 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.

SURFACE-WATER RECORDS

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. April 10, 1903, to June 30, 1909, and October 17, 1920, to April 10, 1929, nonrecording gage at site 1.2 mi downstream at different datum. April 11, 1929, to January 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, August 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 September 7-10.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	445	425	848	2,610	591	729	660	525	385	399	255	195
2	428	435	897	1,930	593	2,850	673	446	379	396	229	196
3	395	420	868	3,250	590	2,450	662	446	401	391	222	185
4	394	418	849	3,130	586	2,090	643	455	387	386	244	180
5	376	419	836	2,400	578	1,710	571	496	371	371	229	175
6	369	414	831	1,420	560	1,100	568	536	371	351	223	173
7	360	502	828	1,630	524	703	570	518	361	341	216	170
8	392	1,070	817	2,750	517	690	567	516	361	341	219	174
9	372	752	640	3,070	502	683	551	514	352	331	210	177
10	358	645	488	2,120	490	678	515	498	356	344	219	175
11	354	639	482	1,220	493	677	533	486	352	344	279	186
12	360	662	478	837	491	650	565	478	355	309	278	185
13	351	620	483	512	522	598	522	475	354	298	271	182
14	350	613	476	502	585	521	522	467	362	281	266	414
15	352	608	475	486	560	520	867	465	387	269	261	297
16	348	1,230	476	482	628	1,250	1,140	466	379	254	260	217
17	482	988	475	463	625	1,480	1,570	463	370	322	256	203
18	358	2,030	442	453	549	1,590	1,210	450	356	280	260	200
19	307	1,960	410	474	468	1,650	612	421	354	249	259	198
20	365	1,460	409	560	469	1,530	605	422	374	255	256	199
21	376	616	408	571	482	1,260	594	415	351	253	259	200
22	370	634	1,110	820	484	1,130	591	410	350	247	262	210
23	386	631	1,150	777	481	792	580	410	350	240	259	213
24	403	658	1,480	759	481	771	575	412	365	305	273	203
25	400	691	2,320	753	541	752	575	407	431	320	240	198
26	401	683	2,370	707	564	698	569	408	370	315	239	199
27	449	671	2,160	585	612	643	581	409	366	288	238	197
28	582	664	1,590	585	605	640	566	400	364	262	187	195
29	463	657	951	622	---	657	563	398	397	266	223	196
30	436	673	759	668	---	639	554	395	428	278	201	199
31	429	---	712	647	---	633	---	393	---	287	209	---
Total	12,211	22,888	27,518	37,793	15,171	32,764	19,874	14,000	11,139	9,573	7,502	6,091
Mean	394	763	888	1,219	542	1,057	662	452	371	309	242	203
Max	582	2,030	2,370	3,250	628	2,850	1,570	536	431	399	279	414
Min	307	414	408	453	468	520	515	393	350	240	187	170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	653	717	764	878	942	1,141	1,105	896	858	673	688	604
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	203
(WY)	(1989)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(1988)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1963 - 2007 ^a	
Annual total	205,538		216,524			
Annual mean	563		593		826	
Highest annual mean					1,220	1973
Lowest annual mean					336	2002
Highest daily mean	2,370	Dec 26	3,250	Jan 3	7,990	Aug 10, 1970
Lowest daily mean	276	Jun 21	170	Sep 7	114	Dec 8, 1970
Annual seven-day minimum	282	Jun 17	175	Sep 4	141	Sep 8, 2002
Maximum peak flow			5,080	Jan 1	^b 12,800	Apr 10, 1983
Maximum peak stage			7.44	Jan 1	16.22	Apr 10, 1983
Instantaneous low flow			^b 166	Aug 8	54	Oct 21, 1997
10 percent exceeds	920		1,100		1,400	
50 percent exceeds	463		466		635	
90 percent exceeds	304		223		330	

^a Regulated period only (1963-2007). See Remarks.

^b See Remarks.

