

Water-Data Report 2010

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, 1930, 1932, 1934, daily discharges; 1925-26, 1930, 1946-48, maximum discharge. 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 streamgage.

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.

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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	845	1,200	448	720	1,070	1,120	1,600	682	626	521	496	345
2	421	1,070	1,170	700	1,200	1,240	1,210	694	875	467	475	342
3	417	1,020	1,470	679	1,450	1,010	1,200	808	777	423	473	341
4	411	893	2,190	771	1,720	1,140	1,190	1,040	562	375	434	338
5	441	620	2,420	972	2,190	1,550	1,180	1,080	572	321	451	338
6	752	609	1,630	928	2,660	1,540	1,170	815	594	315	435	336
7	905	605	795	805	2,640	1,530	1,100	534	702	311	561	335
8	604	601	799	800	2,780	1,080	1,020	733	704	307	717	338
9	574	594	1,750	776	2,220	842	1,310	780	638	333	708	346
10	552	645	1,720	693	891	1,040	1,450	614	484	383	545	334
11	309	1,630	2,580	619	628	956	1,160	617	515	361	387	355
12	309	1,060	2,110	623	962	941	938	622	559	408	386	363
13	315	1,500	1,430	610	1,490	1,470	928	677	562	624	375	338
14	338	2,310	1,350	609	1,270	1,090	984	876	562	858	490	333
15	355	2,240	1,610	770	1,080	1,460	1,120	711	555	855	721	329
16	374	1,460	1,330	934	1,060	1,390	1,000	800	563	482	905	320
17	441	716	1,100	1,790	1,140	411	911	1,140	561	434	813	305
18	436	626	954	1,250	1,120	1,150	906	1,360	618	424	655	307
19	430	685	848	1,860	1,040	1,740	896	1,360	540	465	786	307
20	429	723	807	2,520	1,040	1,720	892	910	450	541	761	302
21	429	947	719	1,280	1,050	1,730	927	497	498	530	1,000	287
22	426	937	516	1,280	1,080	2,600	919	510	531	522	1,080	278
23	423	940	514	1,520	1,120	2,020	978	725	523	493	1,000	279
24	546	850	572	1,890	1,120	1,900	898	875	526	418	665	274
25	476	877	2,290	4,170	1,380	2,040	886	766	426	385	392	272
26	453	1,120	1,600	2,920	1,420	2,400	918	669	425	349	373	341
27	489	841	2,550	4,690	1,050	1,760	981	670	421	442	368	386
28	746	582	3,460	4,630	1,030	1,340	941	674	446	453	456	363
29	883	580	3,340	2,920	---	1,600	836	678	459	425	525	273
30	986	525	2,970	2,130	---	1,910	762	668	520	472	355	321
31	1,000	---	1,380	1,550	---	1,850	---	549	---	473	349	---
Total	16,515	29,006	48,422	48,409	38,901	45,570	31,211	24,134	16,794	14,170	18,137	9,726
Mean	533	967	1,562	1,562	1,389	1,470	1,040	779	560	457	585	324
Max	1,000	2,310	3,460	4,690	2,780	2,600	1,600	1,360	875	858	1,080	386
Min	309	525	448	609	628	411	762	497	421	307	349	272

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	635	703	768	879	928	1,127	1,085	891	844	654	675	595
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	196	244	302	335	441	435	300	184	188	194	203
(WY)	(1989)	(2008)	(2008)	(2001)	(2001)	(1988)	(1986)	(2001)	(2008)	(2008)	(1988)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1963 - 2010 ^a	
Annual total	298,396		340,995			
Annual mean	818		934		815	
Highest annual mean					1,220	1973
Lowest annual mean					336	2002
Highest daily mean	4,230	May 31	4,690	Jan 27	7,990	Aug 10, 1970
Lowest daily mean	269	Feb 9	272	Sep 25	114	Dec 8, 1970
Annual seven-day minimum	281	Feb 6	286	Sep 19	141	Sep 8, 2002
Maximum peak flow			9,430	Jan 25	12,800	Apr 10, 1983
Maximum peak stage			11.92	Jan 25	16.22	Apr 10, 1983
Instantaneous low flow			247	Sep 29	54	Oct 21, 1997
10 percent exceeds	1,540		1,730		1,390	
50 percent exceeds	579		752		624	
90 percent exceeds	373		349		315	

^a Regulated period only (1963-2010). See Remarks.

