

Water-Data Report 2010

0211139110 YADKIN RIVER BELOW W. KERR SCOTT DAM NEAR BUCK, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°08'10", long 81°13'24" referenced to North American Datum of 1983, Wilkes County, NC, Hydrologic Unit 03040101, on right bank 500 ft downstream of W. Kerr Scott Reservoir spillway, northeast parking area, 5.5 miles upstream from Reddies River and 1.4 mi south of Buck.

DRAINAGE AREA.--367 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 2007 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,015 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation caused by W. Kerr Scott Reservoir 500 ft. upstream. Minimum discharge for period of record result of gate slip at the W. Kerr Scott Dam.

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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	590	791	286	434	749	848	1,060	500	470	429	359	260
2	273	780	350	434	757	880	807	506	676	355	355	260
3	273	776	829	438	943	738	810	576	564	318	357	259
4	273	656	1,710	554	1,160	875	813	780	396	243	299	257
5	323	455	1,870	697	1,200	1,160	815	813	397	204	266	257
6	661	455	1,120	660	1,400	1,150	819	548	450	205	261	260
7	739	453	544	581	1,800	1,140	768	362	552	207	525	259
8	481	453	545	579	1,990	742	693	582	555	207	673	259
9	495	456	602	580	1,470	661	889	578	462	211	666	260
10	387	462	1,240	494	463	795	1,040	459	331	211	412	260
11	170	510	2,010	450	298	711	787	457	382	262	254	262
12	174	479	1,550	450	665	666	662	457	414	289	257	263
13	176	1,210	851	451	1,030	680	664	538	412	355	260	265
14	179	1,860	940	450	863	672	732	638	411	647	295	265
15	179	1,820	1,140	611	747	1,140	820	510	411	711	606	265
16	250	1,050	901	710	743	797	719	580	413	342	834	250
17	321	496	766	743	826	119	665	776	413	284	684	236
18	319	421	626	721	794	898	665	1,000	503	284	379	237
19	321	422	542	1,530	748	1,290	662	1,040	368	347	374	239
20	321	513	543	1,920	747	1,280	661	600	308	432	654	242
21	321	693	442	788	747	1,270	659	317	365	429	925	226
22	321	691	283	846	747	1,310	686	317	361	427	982	216
23	321	691	285	1,030	748	1,290	734	558	413	378	956	217
24	323	613	353	832	749	1,280	650	676	393	305	534	219
25	321	680	529	777	1,000	1,480	610	562	300	258	258	219
26	322	848	687	2,490	978	1,750	682	499	302	231	258	230
27	328	582	2,110	4,470	747	1,190	725	509	303	232	259	175
28	483	414	2,960	4,230	742	836	688	512	304	233	419	144
29	709	414	2,870	2,240	---	992	622	508	345	303	432	174
30	792	344	2,400	1,500	---	1,270	545	502	423	365	260	198
31	787	---	862	1,030	---	1,260	---	327	---	361	260	---
Mean	385	683	1,056	1,088	923	1,005	738	567	413	325	462	238
Max	792	1,860	2,960	4,470	1,990	1,750	1,060	1,040	676	711	982	265
Min	170	344	283	434	298	119	545	317	300	204	254	144

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	307	347	562	637	490	657	579	616	476	267	367	359
Max	385	683	1,056	1,088	923	1,005	738	1,010	864	336	462	539
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2010)	(2009)
Min	230	132	141	325	260	476	380	272	152	140	266	238
(WY)	(2009)	(2008)	(2008)	(2008)	(2009)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2008 - 2010	
Annual mean	595		656		576	
Highest annual mean					656	2010
Lowest annual mean					496	2009
Highest daily mean	4,000	May 31	4,470	Jan 27	4,470	Jan 27, 2010
Lowest daily mean	158	Feb 9	119	Mar 17	119	Mar 17, 2010
Annual seven-day minimum	165	Feb 6	194	Sep 24	126	Nov 4, 2007
Maximum peak flow			5,440	Jan 27	5,820	Feb 14, 2008
Maximum peak stage			8.87	Jan 27	9.28	Feb 14, 2008
Instantaneous low flow			44	Mar 17	^a 13	Feb 22, 2008
10 percent exceeds	1,100		1,160		1,070	
50 percent exceeds	428		543		429	
90 percent exceeds	264		258		207	

^a See Remarks.

