

Water-Data Report 2010

**02138520 CATAWBA RIVER AT SECONDARY ROAD 1223 BELOW LAKE JAMES NEAR BRIDGEWATER, NC**

Santee Basin  
Upper Catawba Subbasin

LOCATION.--Lat 35°44'25.3", long 81°50'04.8" referenced to North American Datum of 1983, Burke County, NC, Hydrologic Unit 03050101, on right bank about 500 ft downstream of Linville Dam, 2.5 mi northwest of Bridgewater and 8 mi west of Morganton.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 2008 to current year.

GAGE.--Water-gage recorder. Elevation of gage is 1,050 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation by Linville Dam, 500 ft upstream.

## 02138520 CATAWBA RIVER AT SECONDARY ROAD 1223 BELOW LAKE JAMES NEAR BRIDGEWATER, NC—Continued

**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	394	1,280	1,570	2,480	2,450	1,190	1,730	709	1,030	302	377	370
2	371	1,360	2,120	2,480	2,140	1,110	2,240	969	539	302	205	377
3	312	1,150	807	2,510	2,270	1,120	534	986	544	250	384	331
4	313	1,070	2,480	2,500	2,500	1,120	484	985	540	251	381	328
5	316	973	2,480	2,500	2,520	728	1,170	984	542	248	466	329
6	314	983	1,210	2,490	2,530	722	388	720	540	252	470	335
7	716	785	792	1,010	2,530	719	222	656	540	243	474	379
8	313	1,370	794	1,020	2,490	777	211	243	368	512	378	377
9	305	1,720	315	478	2,480	716	1,120	241	370	538	117	382
10	792	2,490	1,810	377	2,170	718	1,120	242	383	537	185	550
11	988	1,710	2,450	377	1,110	883	1,120	116	424	540	248	257
12	1,040	1,210	2,430	550	1,420	902	1,120	111	385	510	302	260
13	1,030	1,630	1,110	559	1,160	900	785	117	385	413	295	293
14	738	1,730	1,090	613	1,150	478	791	244	441	207	381	250
15	815	1,800	1,090	550	2,190	893	792	242	386	202	382	515
16	806	1,760	1,090	548	1,520	880	791	244	406	206	377	518
17	675	1,740	1,030	357	1,100	885	791	785	385	344	754	521
18	289	1,740	1,160	615	1,150	889	787	793	383	338	555	546
19	1,250	1,750	1,180	2,450	775	894	790	790	252	372	376	508
20	225	1,260	1,180	2,350	117	802	794	698	250	374	547	492
21	429	804	1,180	2,500	116	792	801	674	307	215	547	514
22	223	806	1,180	2,490	117	1,400	368	250	299	201	382	520
23	319	806	1,180	2,500	1,200	2,220	369	255	297	204	593	511
24	215	603	1,180	2,520	1,190	2,460	365	788	333	337	826	492
25	1,420	605	1,880	2,500	1,190	1,910	536	614	302	333	545	491
26	607	609	2,440	2,460	1,190	1,110	935	598	265	420	316	335
27	1.7	622	2,420	2,460	1,260	1,090	894	694	254	645	414	467
28	1.6	614	2,430	2,470	1,190	1,090	789	705	298	645	370	475
29	1.5	607	2,420	2,500	---	1,100	707	243	303	645	373	761
30	489	612	2,450	2,510	---	1,100	626	240	304	645	372	522
31	1,350	---	2,450	2,500	---	1,450	---	1,310	---	380	370	---
<b>Total</b>	17,058.8	36,199	49,398	54,224	43,225	33,048	24,170	17,246	12,055	11,611	12,762	13,006
<b>Mean</b>	550	1,207	1,593	1,749	1,544	1,066	806	556	402	375	412	434
<b>Max</b>	1,420	2,490	2,480	2,520	2,530	2,460	2,240	1,310	1,030	645	826	761
<b>Min</b>	1.5	603	315	357	116	478	211	111	250	201	117	250
<b>Cfsm</b>	1.42	3.12	4.13	4.53	4.00	2.76	2.09	1.44	1.04	0.97	1.07	1.12
<b>In.</b>	1.64	3.49	4.76	5.22	4.16	3.18	2.33	1.66	1.16	1.12	1.23	1.25

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	550	1,207	1,593	1,208	927	990	822	803	722	302	297	580
<b>Max</b>	550	1,207	1,593	1,749	1,544	1,066	838	1,049	1,043	375	412	727
<b>(WY)</b>	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2010)	(2010)	(2009)
<b>Min</b>	550	1,207	1,593	667	311	914	806	556	402	230	183	434
<b>(WY)</b>	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2009 - 2010	
<b>Annual total</b>	283,944.8		324,002.8			
<b>Annual mean</b>	778		888		888	
<b>Highest annual mean</b>					888 2010	
<b>Lowest annual mean</b>					888 2010	
<b>Highest daily mean</b>	2,500	Mar 31	2,530	Feb 6	2,530	Feb 6, 2010
<b>Lowest daily mean</b>	1.5	Oct 29	1.5	Oct 29	1.5	Oct 29, 2009
<b>Annual seven-day minimum</b>	148	Jul 18	188	May 9	148	Jul 18, 2009
<b>Maximum peak flow</b>			2,680 Nov 11		2,680 Nov 11, 2009	
<b>Maximum peak stage</b>			5.18 Nov 11		5.18 Nov 11, 2009	
<b>Instantaneous low flow</b>			0.63 Oct 30		0.63 Oct 30, 2009	
<b>Annual runoff (cfsm)</b>	2.01		2.30		2.30	
<b>Annual runoff (inches)</b>	27.35		31.20		31.22	
<b>10 percent exceeds</b>	1,790		2,420		2,420	
<b>50 percent exceeds</b>	596		645		645	
<b>90 percent exceeds</b>	117		250		250	

