

Water-Data Report 2010

0214253361 BALLS CREEK NEAR LONG ISLAND, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°41'13", long 81°00'54" referenced to North American Datum of 1983, Catawba County, NC, Hydrologic Unit 03050101, on right bank at bridge on Secondary Road 1819, 1.5 mi northwest of Long Island and 2 mi above mouth.

DRAINAGE AREA.--15.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2007 to September 2010 (discontinued).

GAGE.--Water stage recorder. Datum of gage is 772.09 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good.

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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	5.7	37	12	23	27	21	29	15	24	8.6	7.1	4.4
2	5.7	15	71	21	42	21	22	14	17	7.8	7.0	4.3
3	5.6	10	68	20	74	22	27	13	15	7.5	6.9	4.1
4	5.3	7.7	29	19	53	20	21	12	15	7.1	6.3	3.9
5	6.1	7.0	24	19	531	19	20	11	14	6.7	33	3.8
6	6.5	6.8	21	18	235	19	20	11	17	6.4	27	4.0
7	6.1	6.7	18	18	66	18	19	11	24	6.2	12	3.9
8	5.4	6.5	17	18	46	18	27	11	15	5.8	9.3	4.0
9	5.6	6.3	124	17	39	18	108	11	14	5.7	8.1	4.3
10	7.6	8.9	38	16	37	18	36	11	14	6.8	7.3	3.8
11	6.7	377	27	16	35	19	30	12	13	5.9	6.8	3.8
12	6.7	60	22	16	34	27	28	13	12	37	6.3	4.6
13	8.0	31	24	16	33	69	27	12	12	35	6.1	4.0
14	8.0	22	23	16	31	34	25	11	14	21	5.7	3.6
15	8.9	18	20	16	32	28	24	12	18	12	12	3.4
16	7.8	15	18	16	31	26	22	12	16	10	9.7	3.2
17	7.3	14	17	88	29	26	23	61	12	10	8.1	3.1
18	7.0	14	20	36	28	24	21	107	10	18	9.9	3.3
19	6.9	15	24	28	27	23	19	34	9.8	11	18	3.3
20	6.8	13	25	24	26	21	17	27	9.6	9.9	12	3.4
21	6.8	12	24	26	25	23	18	22	9.1	11	8.2	3.4
22	6.6	13	22	30	29	61	17	23	8.9	8.6	7.5	3.5
23	6.5	18	21	25	28	35	16	20	8.6	7.6	6.9	3.6
24	7.3	16	20	132	27	30	16	18	10	7.1	6.4	3.3
25	7.1	15	579	734	26	28	24	18	12	6.9	6.4	3.0
26	6.8	14	93	54	25	24	21	17	9.2	11	6.1	8.2
27	8.1	13	38	37	23	14	18	15	9.7	11	5.7	24
28	15	12	31	32	22	33	17	15	15	8.1	5.5	39
29	9.4	12	27	30	---	102	17	15	9.5	8.0	5.3	12
30	8.4	12	25	32	---	41	16	15	9.2	6.6	5.1	13
31	8.2	---	25	28	---	32	---	23	---	6.5	4.6	---
Total	223.9	827.9	1,547	1,621	1,661	914	745	622	396.6	330.8	286.3	189.2
Mean	7.22	27.6	49.9	52.3	59.3	29.5	24.8	20.1	13.2	10.7	9.24	6.31
Max	15	377	579	734	531	102	108	107	24	37	33	39
Min	5.3	6.3	12	16	22	14	16	11	8.6	5.7	4.6	3.0
Cfsm	0.46	1.77	3.20	3.35	3.80	1.89	1.59	1.29	0.85	0.68	0.59	0.40
In.	0.53	1.97	3.69	3.87	3.96	2.18	1.78	1.48	0.95	0.79	0.68	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.26	12.7	24.0	25.0	25.4	24.6	21.1	16.8	18.2	7.13	19.3	6.13
Max	7.22	27.6	49.9	52.3	59.3	33.1	24.8	32.5	48.9	10.7	58.3	9.85
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2010)	(2009)	(2009)	(2010)	(2008)	(2008)
Min	1.74	3.64	5.35	5.67	8.61	11.4	14.5	6.85	4.65	2.67	0.86	0.78
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2007 - 2010	
Annual total	8,386.0		9,364.7			
Annual mean	23.0		25.7		18.5	
Highest annual mean					25.7	2010
Lowest annual mean					11.5	2008
Highest daily mean	579	Dec 25	734	Jan 25	744	Aug 27, 2008
Lowest daily mean	5.3	Oct 4	3.0	Sep 25	0.15	Sep 12, 2007
Annual seven-day minimum	5.8	Oct 3	3.3	Sep 15	0.29	Sep 7, 2007
Maximum peak flow			1,580	Jan 25	1,580	Jan 25, 2010
Maximum peak stage			10.40	Jan 25	10.40	Jan 25, 2010
Instantaneous low flow			2.9	Sep 25	0.22	Oct 1, 2007
Annual runoff (cfsm)	1.47		1.64		1.19	
Annual runoff (inches)	20.00		22.33		16.13	
10 percent exceeds	34		35		28	
50 percent exceeds	11		16		9.1	
90 percent exceeds	6.7		5.7		3.7	

