

Water-Data Report 2008

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 1927, 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 2008.

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

REMARKS.--Records good, except those for estimated daily discharges, which are poor.

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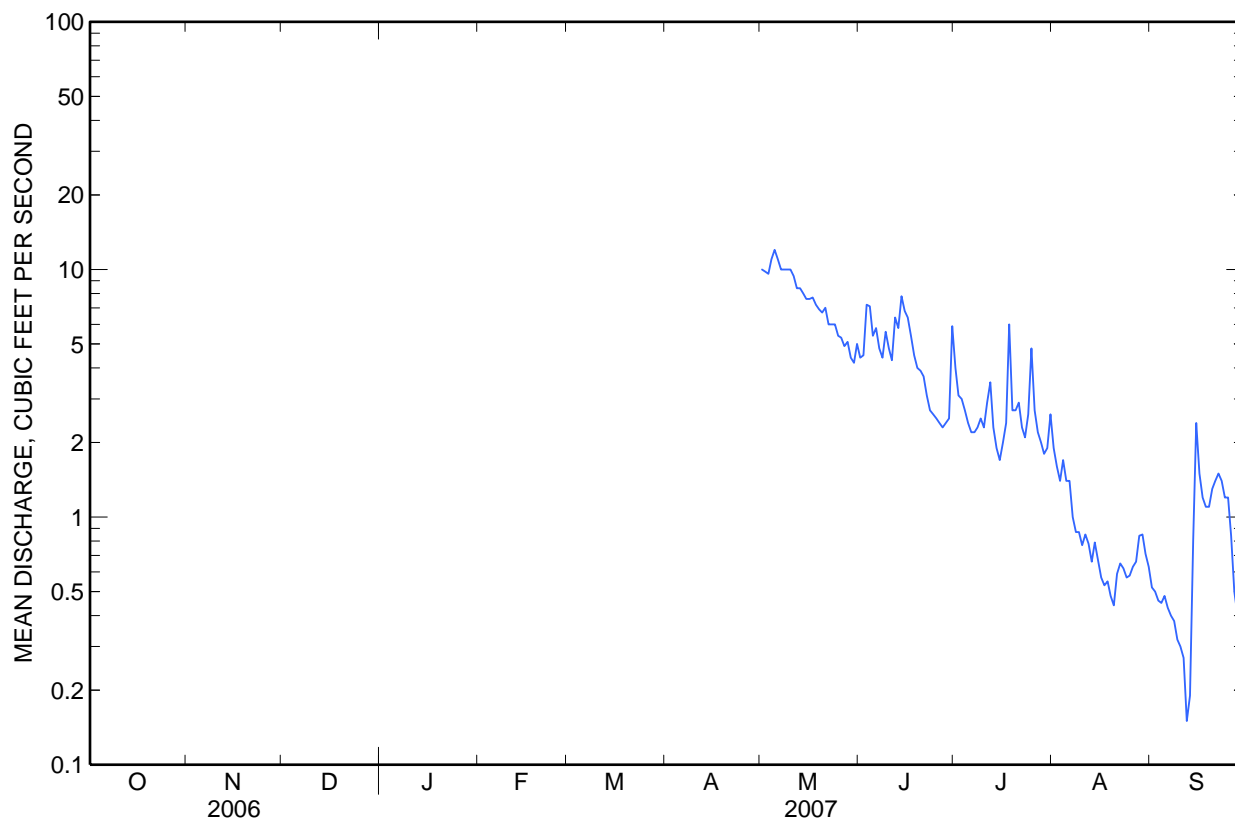
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	10	4.4	4.0	1.9	0.52
2	---	---	---	---	---	---	---	9.8	4.5	3.1	1.6	0.50
3	---	---	---	---	---	---	---	9.6	7.2	3.0	1.4	0.46
4	---	---	---	---	---	---	---	11	7.1	2.7	1.7	0.45
5	---	---	---	---	---	---	---	12	5.4	2.4	1.4	0.48
6	---	---	---	---	---	---	---	11	5.8	2.2	1.4	0.43
7	---	---	---	---	---	---	---	10	4.8	2.2	1.0	0.40
8	---	---	---	---	---	---	---	10	4.4	2.3	0.87	0.38
9	---	---	---	---	---	---	---	10	5.6	2.5	0.87	0.32
10	---	---	---	---	---	---	---	10	4.8	2.3	0.77	e0.30
11	---	---	---	---	---	---	---	9.4	4.3	2.9	0.85	e0.27
12	---	---	---	---	---	---	---	8.4	6.4	3.5	0.78	0.15
13	---	---	---	---	---	---	---	8.4	5.8	2.3	0.66	0.19
14	---	---	---	---	---	---	---	8.0	7.8	1.9	0.79	0.81
15	---	---	---	---	---	---	---	7.6	6.8	1.7	0.67	2.4
16	---	---	---	---	---	---	---	7.6	6.4	2.0	0.57	1.5
17	---	---	---	---	---	---	---	7.7	5.4	2.4	0.53	1.2
18	---	---	---	---	---	---	---	7.2	4.5	6.0	0.55	1.1
19	---	---	---	---	---	---	---	6.9	4.0	2.7	0.48	1.1
20	---	---	---	---	---	---	---	6.7	3.9	2.7	0.44	1.3
21	---	---	---	---	---	---	---	7.0	3.7	2.9	0.59	1.4
22	---	---	---	---	---	---	---	6.0	3.1	2.3	0.65	1.5
23	---	---	---	---	---	---	---	6.0	2.7	2.1	0.62	1.4
24	---	---	---	---	---	---	---	6.0	2.6	2.6	0.57	1.2
25	---	---	---	---	---	---	---	5.4	2.5	4.8	0.58	1.2
26	---	---	---	---	---	---	---	5.3	2.4	2.7	0.63	0.84
27	---	---	---	---	---	---	---	4.9	2.3	2.2	0.66	0.50
28	---	---	---	---	---	---	---	5.1	2.4	2.0	0.84	0.40
29	---	---	---	---	---	---	---	4.4	2.5	1.8	0.85	0.33
30	---	---	---	---	---	---	---	4.2	5.9	1.9	0.71	0.25
31	---	---	---	---	---	---	---	5.0	---	2.6	0.63	---
Total	---	---	---	---	---	---	---	240.6	139.4	82.7	26.56	23.28
Mean	---	---	---	---	---	---	---	7.76	4.65	2.67	0.86	0.78
Max	---	---	---	---	---	---	---	12	7.8	6.0	1.9	2.4
Min	---	---	---	---	---	---	---	4.2	2.3	1.7	0.44	0.15
Cfsm	---	---	---	---	---	---	---	0.50	0.30	0.17	0.05	0.05
In.	---	---	---	---	---	---	---	0.57	0.33	0.20	0.06	0.06

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SUMMARY STATISTICS

	Water Year 2007	
Annual total	512.54	
Annual mean	3.35	
Highest daily mean	12	May 5
Lowest daily mean	0.15	Sep 12
Annual seven-day minimum	0.29	Sep 7
Maximum peak flow	13	May 5
Maximum peak stage	1.65	May 5
Instantaneous low flow	0.11	Sep 11
Annual runoff (cfsm)	0.215	
Annual runoff (inches)	1.22	
10 percent exceeds	7.8	
50 percent exceeds	2.4	
90 percent exceeds	0.48	



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.40	3.1	3.7	8.2	24	7.8	9.5	8.2	5.3	4.6	9.4	15
2	0.40	2.7	3.6	6.2	14	7.4	13	7.6	4.6	4.1	4.4	12
3	0.36	3.0	3.9	5.5	8.1	7.1	7.1	7.2	4.8	3.7	3.7	10
4	0.33	3.0	3.5	5.2	7.2	8.9	16	7.2	4.5	3.6	3.0	8.2
5	0.54	3.2	3.6	5.4	6.7	18	54	6.8	3.5	3.6	2.7	7.6
6	0.68	2.8	3.7	6.1	6.6	12	64	6.6	3.2	4.8	2.5	7.0
7	0.72	2.6	3.6	5.6	6.2	18	30	6.2	2.7	9.7	2.3	6.3
8	0.70	2.8	3.6	5.7	5.4	21	19	6.2	2.4	8.4	2.1	5.6
9	0.82	3.0	3.5	5.8	5.9	15	15	6.8	2.3	11	1.9	6.9
10	0.67	3.4	3.5	5.5	6.7	12	14	6.1	2.1	16	1.9	13
11	0.53	3.3	3.7	5.9	7.0	12	13	6.6	2.3	13	1.9	19
12	0.60	3.4	3.8	5.3	7.2	11	13	7.2	2.3	7.3	1.7	8.6
13	0.66	3.4	3.7	5.1	9.4	10	12	6.1	2.3	5.9	130	7.3
14	0.65	3.4	3.6	5.0	10	9.8	12	6.2	2.7	6.1	22	7.8
15	0.63	5.0	3.6	5.0	8.6	11	11	6.5	4.9	4.9	12	7.8
16	0.65	4.7	9.4	4.8	8.2	14	11	7.5	3.8	4.1	8.8	27
17	0.73	3.5	5.4	6.2	8.1	11	11	6.4	3.0	3.7	490	18
18	0.81	3.4	4.2	6.6	10	9.8	5.8	6.8	2.3	3.3	37	8.6
19	1.2	3.6	4.0	6.6	8.2	11	5.6	9.6	2.2	3.1	19	6.9
20	1.6	3.8	4.0	6.4	7.7	17	7.1	6.8	1.9	2.9	16	6.4
21	1.0	3.6	4.6	5.6	7.4	13	8.1	6.2	2.0	2.6	15	6.1
22	1.1	5.9	4.6	5.6	8.1	11	9.5	5.6	35	2.7	9.2	5.9
23	1.2	5.1	5.1	5.8	8.2	11	8.9	5.3	30	17	7.4	5.5
24	1.4	3.8	5.7	5.6	7.8	9.7	8.5	5.8	8.9	5.8	6.9	5.4
25	5.6	3.7	4.5	5.4	8.1	9.3	6.1	6.4	6.3	4.0	6.7	5.2
26	8.5	4.2	5.0	5.6	10	9.1	4.9	5.7	5.2	3.8	11	7.9
27	8.5	4.6	5.1	5.3	9.3	9.0	8.1	5.6	4.7	3.6	744	23
28	4.0	3.9	5.6	5.2	7.9	8.9	16	8.9	6.4	3.0	156	11
29	3.2	3.7	9.9	5.3	7.7	9.5	13	11	9.1	2.6	37	8.7
30	2.9	3.7	14	5.3	---	9.5	9.3	7.0	5.8	2.7	24	7.7
31	3.0	---	20	5.0	---	9.1	---	6.2	---	3.5	17	---
Total	54.08	109.3	165.7	175.8	249.7	352.9	435.5	212.3	176.5	175.1	1,806.5	295.4
Mean	1.74	3.64	5.35	5.67	8.61	11.4	14.5	6.85	5.88	5.65	58.3	9.85
Max	8.5	5.9	20	8.2	24	21	64	11	35	17	744	27
Min	0.33	2.6	3.5	4.8	5.4	7.1	4.9	5.3	1.9	2.6	1.7	5.2
Cfs/m	0.11	0.23	0.34	0.36	0.55	0.73	0.93	0.44	0.38	0.36	3.74	0.63
In.	0.13	0.26	0.40	0.42	0.60	0.84	1.04	0.51	0.42	0.42	4.31	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.74	3.64	5.35	5.67	8.61	11.4	14.5	7.30	5.27	4.16	29.6	5.31
Max	1.74	3.64	5.35	5.67	8.61	11.4	14.5	7.76	5.88	5.65	58.3	9.85
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2007)	(2008)	(2008)	(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

	Water Year 2008		Water Years 2007 - 2008	
Annual total	4,208.78			
Annual mean	11.5		11.5	
Highest annual mean			11.5	2008
Lowest annual mean			11.5	2008
Highest daily mean	744	Aug 27	744	Aug 27, 2008
Lowest daily mean	0.33	Oct 4	0.15	Sep 12, 2007
Annual seven-day minimum	0.49	Oct 1	0.29	Sep 7, 2007
Maximum peak flow	1,300	Aug 27	1,300	Aug 27, 2008
Maximum peak stage	9.25	Aug 27	9.25	Aug 27, 2008
Instantaneous low flow	0.22	Oct 1	0.22	Oct 1, 2007
Annual runoff (cfs)	0.737		0.737	
Annual runoff (inches)	10.04		10.02	
10 percent exceeds	14		14	
50 percent exceeds	6.0		6.0	
90 percent exceeds	2.3		2.3	

