

Water-Data Report 2008

02147126 WAXHAW CREEK AT SECONDARY ROAD 1103 NEAR JACKSON, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 34°50'13", long 80°47'30" referenced to North American Datum of 1983, Union County, NC, Hydrologic Unit 03050103, on right upstream wingwall on Secondary Road 1103, 6 mi upstream from mouth, 6 mi southwest of Jackson, 6.5 mi south of Waxhaw.

DRAINAGE AREA.--35 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 480.33 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at site.

REMARKS.--Records poor. Peak stage for period of record from crest-stage gage. Peak discharge for period of record from rating curve extended above 2,260 ft³/s on basis of step-backwater computations. No flow occurs at times most years.

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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	0.05	0.20	0.03	7.7	34	8.5	7.8	7.6	1.0	0.05	0.02	0.50
2	0.02	0.16	0.03	3.2	76	7.4	7.4	5.5	0.95	0.05	0.01	0.41
3	0.01	0.11	0.03	1.9	18	6.6	7.1	4.5	0.75	0.05	0.00	0.16
4	0.02	0.10	0.03	1.4	9.8	12	17	3.9	0.73	0.06	0.00	0.08
5	0.03	0.09	0.03	1.1	7.6	82	395	3.5	0.45	0.06	0.00	0.06
6	0.03	0.08	0.03	0.90	6.9	37	185	3.2	0.39	0.11	0.00	0.05
7	0.03	0.04	0.03	0.77	6.0	38	42	2.9	0.28	6.2	0.00	0.19
8	0.03	0.05	0.03	0.74	5.1	170	23	2.5	0.17	1.8	0.00	0.29
9	0.02	0.06	0.04	0.79	4.6	57	16	2.5	0.17	39	0.00	0.12
10	0.02	0.05	0.02	0.77	4.2	23	13	2.3	0.15	38	0.00	0.09
11	0.01	0.04	0.12	0.82	3.9	16	11	2.5	0.20	5.5	0.00	0.07
12	0.01	0.03	0.90	0.76	3.9	13	11	2.5	30	1.7	0.00	0.05
13	0.01	0.03	1.1	0.74	4.5	11	11	2.0	6.6	0.72	0.50	0.01
14	0.01	0.03	1.1	0.72	4.6	9.3	9.1	1.9	1.7	0.45	3.6	0.00
15	0.01	0.04	1.3	0.60	4.6	17	8.1	1.9	1.1	0.32	1.5	0.00
16	0.01	0.03	3.1	0.44	4.2	221	7.7	2.1	0.66	0.22	0.47	0.00
17	0.01	0.04	1.6	9.0	4.0	50	7.3	2.0	0.47	0.15	44	0.00
18	0.01	0.03	1.3	21	17	21	6.8	1.7	0.35	0.10	142	0.00
19	0.02	0.04	1.3	10	21	21	6.6	1.6	0.20	0.08	4.9	0.00
20	0.01	0.04	1.2	13	9.7	89	6.5	1.6	0.26	0.06	1.7	0.00
21	0.01	0.02	1.6	8.6	7.1	36	6.2	1.8	0.33	0.03	0.86	0.00
22	0.01	0.03	1.5	4.7	47	19	5.8	1.6	0.40	0.02	0.44	0.00
23	0.06	0.03	1.8	4.1	44	14	5.5	1.3	0.80	0.02	0.23	0.00
24	0.18	0.03	1.9	3.4	19	11	5.4	1.3	0.74	0.09	0.08	0.00
25	0.31	0.03	2.0	2.7	12	9.6	5.0	1.2	0.51	0.27	0.20	0.00
26	0.40	0.03	4.9	2.6	17	8.7	4.5	0.97	0.37	0.15	2.1	0.19
27	0.32	0.05	6.2	2.6	41	8.3	4.7	0.93	0.22	0.09	189	0.54
28	0.27	0.04	3.3	2.4	18	7.9	28	1.1	0.21	0.04	76	0.05
29	0.24	0.03	3.9	2.4	11	7.8	63	1.2	0.20	0.03	15	0.20
30	0.21	0.03	8.5	2.5	---	7.1	14	1.2	0.08	0.02	2.9	0.17
31	0.19	---	14	2.4	---	7.1	---	1.2	---	0.02	1.00	---
Total	2.57	1.61	62.92	114.75	465.7	1,046.3	940.5	72.00	50.44	95.46	486.51	3.23
Mean	0.08	0.05	2.03	3.70	16.1	33.8	31.4	2.32	1.68	3.08	15.7	0.11
Max	0.40	0.20	14	21	76	221	395	7.6	30	39	189	0.54
Min	0.01	0.02	0.02	0.44	3.9	6.6	4.5	0.93	0.08	0.02	0.00	0.00
Cfsm	0.00	0.00	0.06	0.11	0.46	0.96	0.90	0.07	0.05	0.09	0.45	0.00
In.	0.00	0.00	0.07	0.12	0.49	1.11	1.00	0.08	0.05	0.10	0.52	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.09	25.3	23.8	19.6	41.5	60.3	45.9	8.27	11.3	9.75	12.3	18.5
Max	19.6	99.1	65.7	42.6	104	176	180	36.0	38.2	53.0	34.2	112
(WY)	(2005)	(2007)	(2003)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.08	0.05	2.03	3.70	16.1	11.0	5.70	2.32	1.68	0.53	0.12	0.07
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2006)	(2006)	(2008)	(2008)	(2006)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2002 - 2008	
Annual total	4,401.69		3,341.99			
Annual mean	12.1		9.13		24.0	
Highest annual mean					62.9	2003
Lowest annual mean					7.79	2006
Highest daily mean	768	Mar 2	395	Apr 5	1,600	Mar 20, 2003
Lowest daily mean	0.01	Aug 20	0.00	Aug 3	0.00	Jun 24, 2002
Annual seven-day minimum	0.01	Oct 11	0.00	Aug 3	0.00	Jun 24, 2002
Maximum peak flow			579	Apr 5	^a 2,880	Mar 20, 2003
Maximum peak stage			7.21	Apr 5	^a 10.71	Mar 20, 2003
Instantaneous low flow			^a 0.00	Oct 2	^a 0.00	Jun 21, 2002
Annual runoff (cfs)	0.345		0.261		0.687	
Annual runoff (inches)	4.68		3.55		9.33	
10 percent exceeds	20		17		35	
50 percent exceeds	1.6		0.94		6.0	
90 percent exceeds	0.03		0.02		0.15	

^aSee Remarks.