

Water-Data Report 2011

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.--35.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2002 to October 2008, July 2009 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. Satellite telemetry at streamgage.

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 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.8	0.57	2.4	0.89	1.1	29	29	2.2	5.6	0.20	43	0.02
2	e1.9	0.59	1.9	1.3	1.5	8.9	17	2.1	4.6	0.15	4.8	0.02
3	e1.2	0.65	1.0	1.3	1.6	2.6	11	1.9	4.0	0.14	1.4	0.03
4	e0.40	0.81	0.78	1.1	5.0	1.2	8.6	20	3.5	0.19	0.63	0.02
5	e0.13	0.72	0.71	1.0	75	0.75	40	17	3.0	0.37	0.37	0.07
6	0.11	0.66	0.68	1.0	60	9.6	44	6.3	2.7	0.48	0.38	0.03
7	0.09	0.67	0.42	1.0	15	39	16	4.4	2.3	0.35	0.28	0.01
8	0.09	0.66	0.34	0.98	8.9	7.4	11	3.0	2.1	10	0.17	0.01
9	0.09	0.60	0.36	0.59	6.3	4.6	12	2.4	1.8	1.6	0.87	0.01
10	0.10	0.57	0.32	0.85	5.1	50	358	2.1	1.6	0.57	1.7	0.01
11	0.10	0.55	0.52	1.4	4.1	32	94	198	1.4	e0.29	1.4	0.00
12	0.12	0.56	1.1	1.2	3.3	9.7	23	78	6.6	0.11	0.54	0.00
13	0.10	0.60	1.3	1.1	2.7	8.6	15	16	3.7	1.6	5.5	0.00
14	e0.14	0.62	0.89	0.97	2.2	7.5	11	14	2.5	37	1.8	0.00
15	e0.16	0.64	0.52	1.00	1.8	7.0	9.3	14	1.9	3.8	0.70	0.00
16	e0.20	0.68	0.99	1.0	1.7	7.4	8.6	8.4	1.7	1.3	0.29	0.00
17	e0.19	0.82	0.93	1.4	1.4	6.6	9.1	68	1.4	0.66	0.14	0.00
18	e0.17	0.79	0.96	2.4	1.2	5.8	8.3	46	1.1	0.35	0.08	0.00
19	0.16	0.77	1.2	2.5	0.99	5.2	6.6	16	0.95	0.21	0.05	0.01
20	0.19	0.74	0.99	2.3	1.1	4.5	5.6	9.6	0.79	0.11	0.05	0.00
21	0.23	0.75	0.86	1.9	0.62	4.1	5.0	7.3	0.65	0.08	0.12	0.01
22	0.26	0.79	0.88	1.7	0.70	4.2	4.7	5.7	1.0	0.05	0.17	0.02
23	0.24	0.78	0.89	1.5	0.56	3.9	4.8	4.4	0.90	0.03	0.06	0.15
24	0.23	0.82	0.86	e1.3	0.42	3.7	4.3	3.8	0.67	0.03	0.03	0.02
25	0.37	0.76	0.83	1.2	0.45	3.5	3.8	3.3	0.50	0.55	0.02	0.40
26	0.42	0.78	1.2	1.4	0.31	5.0	3.3	2.7	0.40	1.8	0.02	1.5
27	0.42	0.78	1.2	1.4	0.25	51	3.6	12	0.32	1.2	0.02	12
28	0.48	0.74	0.78	1.3	0.68	33	3.3	226	0.30	0.27	0.02	3.6
29	0.51	0.74	0.76	1.2	---	19	3.0	28	0.30	0.12	0.02	0.75
30	0.51	0.78	0.81	1.2	---	47	2.5	11	0.22	0.05	0.02	0.21
31	0.54	---	0.86	1.1	---	108	---	7.3	---	4.4	0.02	---
Total	12.65	20.99	28.24	40.48	203.98	529.75	775.4	840.9	58.50	68.06	64.67	18.90
Mean	0.41	0.70	0.91	1.31	7.29	17.1	25.8	27.1	1.95	2.20	2.09	0.63
Max	2.8	0.82	2.4	2.5	75	108	358	226	6.6	37	43	12
Min	0.09	0.55	0.32	0.59	0.25	0.75	2.5	1.9	0.22	0.03	0.02	0.00
Cfsm	0.01	0.02	0.03	0.04	0.21	0.49	0.74	0.77	0.06	0.06	0.06	0.02
In.	0.01	0.02	0.03	0.04	0.22	0.56	0.82	0.89	0.06	0.07	0.07	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2011^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.18	20.9	26.4	22.0	42.3	50.9	38.4	10.4	10.5	7.28	10.1	13.1
Max	19.6	99.1	67.7	57.5	104	176	180	36.0	38.2	53.0	34.2	112
(WY)	(2005)	(2007)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.07	0.05	0.91	1.31	7.28	11.0	5.70	2.32	1.68	0.53	0.12	0.00
(WY)	(2010)	(2008)	(2011)	(2011)	(2011)	(2006)	(2006)	(2008)	(2008)	(2006)	(2002)	(2009)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2002 - 2011 ^a	
Annual total	6,294.17		2,662.52			
Annual mean	17.2		7.29		21.9	
Highest annual mean					62.9	2003
Lowest annual mean					7.29	2011
Highest daily mean	1,000	Feb 6	358	Apr 10	1,600	Mar 20, 2003
Lowest daily mean	0.09	Oct 7	0.00	Sep 11	^b 0.00	Jun 24, 2002
Annual seven-day minimum	0.10	Oct 7	0.00	Sep 11	0.00	Jun 24, 2002
Maximum peak flow			698	Apr 10	^b 2,880	Mar 20, 2003
Maximum peak stage			7.57	Apr 10	^b 10.71	Mar 20, 2003
Instantaneous low flow			^b 0.00	Dec 8	^b 0.00	Jun 21, 2002
Annual runoff (cfsm)	0.491		0.208		0.625	
Annual runoff (inches)	6.67		2.82		8.49	
10 percent exceeds	23		12		33	
50 percent exceeds	2.0		1.0		4.8	
90 percent exceeds	0.30		0.06		0.13	

^a See Period of Record.

^b See Remarks.

