

Water-Data Report 2007

0214297160 BEAVERDAM CREEK ABOVE WINDY GAP ROAD NEAR SHOPTON, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°10'11", long 80°59'16" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on right bank 200 ft above Windy Gap Road, and 1.6 mi west of North Carolina Highway 160 at Shopton.

DRAINAGE AREA.--4.47 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 567.71 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for current water year also occurred July 23-27, August 1-31, September 1-14, 19-30. No flow also occurred September 25-26, 2005, July 23-27, August 1-31, September 1-14, 19-30, 2007. Peak discharge for period of record and current water year not determined due to variable backwater from Lake Wylie.

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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	0.37	0.71	1.5	4.1	3.4	25	1.3	1.2	0.35	0.76	0.03	0.00
2	0.40	0.78	1.3	2.9	4.1	e62	1.3	1.1	0.35	0.41	0.01	0.00
3	0.40	0.83	1.2	2.2	2.7	7.5	1.2	1.0	0.65	0.43	0.00	0.00
4	0.40	0.81	1.2	2.0	2.2	4.2	1.2	1.1	0.49	0.31	0.00	0.00
5	0.41	0.84	1.1	4.5	1.9	3.2	1.1	1.5	0.37	0.23	0.00	0.00
6	0.47	0.86	1.2	6.6	1.8	2.7	1.1	1.3	0.31	0.22	0.00	0.00
7	0.54	1.9	1.2	8.5	1.8	2.5	1.1	1.1	0.23	0.24	0.00	0.00
8	1.00	3.2	1.1	25	1.7	2.3	1.1	1.0	0.20	0.20	0.00	0.00
9	0.30	1.2	1.1	6.4	1.6	2.1	1.1	1.1	0.25	0.83	0.00	0.00
10	0.32	0.89	1.1	3.8	1.6	2.0	1.1	1.0	0.19	0.91	0.00	0.00
11	0.39	0.99	1.1	3.0	1.5	1.9	1.4	0.99	1.2	0.35	0.00	0.00
12	0.55	4.4	1.1	2.7	1.6	1.7	3.0	0.98	0.57	0.36	0.00	0.00
13	0.48	1.4	1.1	2.4	6.8	1.6	1.4	0.96	0.44	0.36	0.00	0.00
14	0.52	0.99	1.1	2.2	11	1.6	1.7	0.86	0.40	0.31	0.00	0.52
15	0.53	0.90	1.1	2.1	4.1	1.6	20	0.85	0.49	0.34	0.00	1.4
16	0.53	21	1.0	2.0	3.1	4.4	5.1	0.84	0.40	0.43	0.00	0.27
17	4.5	3.4	1.1	1.7	2.7	2.8	3.0	0.77	0.35	0.21	0.00	0.34
18	1.5	1.9	1.1	2.0	2.5	2.1	2.5	0.72	0.28	0.57	0.00	0.31
19	0.75	1.4	1.0	2.0	2.2	1.9	2.8	0.70	0.26	0.22	0.00	0.02
20	0.67	1.2	1.00	1.7	2.2	1.8	4.1	0.70	0.30	0.14	0.00	0.00
21	0.58	7.4	1.1	2.7	2.2	1.7	2.5	0.67	0.26	0.11	0.00	0.00
22	0.61	69	4.1	6.3	2.0	1.7	2.1	0.59	0.25	0.07	0.00	0.00
23	0.64	9.4	3.2	2.9	1.9	1.7	1.9	0.58	0.21	0.04	0.00	0.00
24	0.66	3.9	1.9	2.4	1.8	1.6	1.8	0.56	0.22	0.03	0.00	0.00
25	0.66	2.6	16	2.0	6.1	1.6	1.6	0.55	0.81	0.02	0.00	0.00
26	0.69	2.1	6.5	1.9	4.5	1.5	1.5	0.51	0.30	0.01	0.00	0.00
27	1.1	1.9	3.4	1.9	3.0	1.5	2.0	0.46	0.30	0.06	0.00	0.00
28	2.2	1.7	2.3	1.8	2.4	1.4	1.4	0.43	0.22	0.39	0.00	0.00
29	0.76	1.6	2.0	1.6	---	1.5	1.3	0.42	0.17	0.10	0.00	0.00
30	0.68	1.5	1.8	1.6	---	1.3	1.2	0.40	1.1	0.16	0.00	0.00
31	0.66	---	2.1	1.5	---	1.3	---	0.37	---	0.09	0.00	---
Total	24.27	150.70	67.10	114.4	84.4	151.7	73.9	25.31	11.92	8.91	0.04	2.86
Mean	0.78	5.02	2.16	3.69	3.01	4.89	2.46	0.82	0.40	0.29	0.00	0.10
Max	4.5	69	16	25	11	62	20	1.5	1.2	0.91	0.03	1.4
Min	0.30	0.71	1.0	1.5	1.5	1.3	1.1	0.37	0.17	0.01	0.00	0.00
Cfsm	0.18	1.12	0.48	0.83	0.67	1.09	0.55	0.18	0.09	0.06	0.00	0.02
In.	0.20	1.25	0.56	0.95	0.70	1.26	0.62	0.21	0.10	0.07	0.00	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.99	2.15	2.62	2.16	2.97	3.48	2.18	0.73	1.44	0.96	1.57	1.25
Max	1.33	5.02	4.73	3.69	4.34	5.75	3.58	1.03	2.29	1.62	4.59	3.01
(WY)	(2006)	(2007)	(2006)	(2007)	(2003)	(2005)	(2005)	(2005)	(2004)	(2003)	(2003)	(2004)
Min	0.78	0.60	1.02	0.95	1.53	1.14	0.98	0.51	0.40	0.29	0.00	0.10
(WY)	(2004)	(2004)	(2004)	(2004)	(2006)	(2006)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2003 - 2007	
Annual total	631.82		715.51			
Annual mean	1.73		1.96		1.77	
Highest annual mean					1.96	2007
Lowest annual mean					1.55	2004
Highest daily mean	69	Nov 22	69	Nov 22	69	Nov 22, 2006
Lowest daily mean	0.09	Jun 10	0.00	Aug 3	0.00	Sep 25, 2005
Annual seven-day minimum	0.17	Jun 4	0.00	Aug 3	0.00	Aug 3, 2007
Maximum peak flow			^a NOT DETERMINED		^a NOT DETERMINED	
Maximum peak stage			5.39	Mar 2	5.91	Jun 7, 2003
Instantaneous low flow			^a 0.00	Jul 22	^a 0.00	Sep 24, 2005
Annual runoff (cfsm)	0.387		0.439		0.396	
Annual runoff (inches)	5.26		5.95		5.38	
10 percent exceeds	3.2		3.2		3.2	
50 percent exceeds	0.98		1.0		0.96	
90 percent exceeds	0.32		0.00		0.25	

^a See Remarks.

