

Water-Data Report 2008

02146348 COFFEY CREEK NEAR CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°08'45", long 80°55'37" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on left bank at culvert on North Carolina Highway 49, 1.2 mi upstream from mouth, and 7.5 mi southwest of Charlotte.

DRAINAGE AREA.--9.14 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 565.72 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Maximum discharge for period of record and current water year from rating curve extended above 950 ft³/s. Minimum discharge for period of record also occurred July 13, 2002. Minimum discharge for current water year also occurred August 10, 11.

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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	0.13	0.92	0.59	3.8	94	1.7	5.5	2.7	0.68	0.77	1.7	10
2	0.19	0.80	0.51	2.8	9.3	1.5	3.4	1.9	1.7	0.48	0.28	2.7
3	0.13	0.72	0.61	2.5	4.1	1.4	8.2	1.6	0.57	0.36	0.17	2.3
4	4.8	0.66	0.56	2.1	2.8	77	9.4	1.4	0.37	18	0.13	1.9
5	3.4	0.61	0.69	1.8	2.1	49	60	1.3	0.29	11	0.13	1.7
6	0.68	0.65	0.72	1.6	2.0	6.8	13	1.2	0.26	2.8	0.13	1.6
7	0.29	0.70	0.71	1.4	2.2	33	5.9	1.0	0.23	1.0	0.12	1.4
8	0.34	0.66	0.66	1.3	1.7	12	4.2	1.1	0.22	41	0.09	1.5
9	0.33	0.66	0.59	1.3	1.5	4.1	3.2	1.6	0.23	17	0.07	1.5
10	0.26	0.73	0.51	6.1	1.4	4.2	2.7	1.0	0.22	6.4	0.08	41
11	0.26	0.70	0.49	8.2	1.3	3.1	2.5	5.9	11	1.9	0.07	24
12	0.23	0.78	0.54	2.6	1.5	2.4	7.5	2.0	8.2	0.89	0.07	4.5
13	0.27	0.79	0.55	1.6	10	2.1	3.4	0.98	1.2	0.57	2.8	2.9
14	0.28	0.72	0.55	1.3	6.8	2.0	2.6	0.86	0.85	0.88	1.4	1.8
15	0.26	4.8	12	1.2	2.1	96	2.4	0.86	0.70	0.39	1.1	1.5
16	0.26	2.0	56	1.1	1.6	35	2.0	7.9	0.53	0.29	5.8	25
17	0.20	0.76	2.9	53	1.5	7.7	1.8	1.3	0.42	0.23	18	7.4
18	0.31	0.74	2.0	8.7	4.4	5.1	1.9	1.0	0.35	0.17	3.5	2.7
19	3.0	0.72	1.4	11	1.6	34	1.6	1.8	0.32	0.16	0.88	1.8
20	1.2	0.77	1.0	7.8	1.3	21	1.7	1.1	0.67	0.16	0.37	1.5
21	0.60	0.79	7.3	2.7	1.6	6.4	1.5	2.4	0.53	0.16	0.19	1.3
22	0.48	2.2	2.2	2.5	11	4.2	1.5	0.91	0.61	0.33	0.15	1.3
23	0.62	1.3	7.6	4.0	2.8	3.2	1.5	0.81	18	8.7	0.11	1.2
24	4.2	0.94	3.4	2.1	1.7	2.7	1.5	0.74	1.7	0.92	0.08	1.1
25	19	1.0	1.4	1.8	1.5	2.4	1.3	0.88	0.46	0.40	2.1	1.1
26	36	1.9	15	1.6	23	2.2	2.7	0.72	0.25	0.29	317	42
27	7.6	2.2	3.0	1.6	5.0	2.1	19	0.70	39	0.26	517	60
28	2.6	1.2	17	1.6	2.4	3.1	49	21	1.4	0.20	24	6.1
29	1.7	0.90	30	1.6	2.0	4.7	10	5.1	0.94	2.1	7.5	5.7
30	1.5	0.66	70	2.7	---	3.8	3.6	1.3	1.5	0.32	4.2	2.4
31	1.1	---	21	1.9	---	3.8	---	0.98	---	0.59	3.3	---
Total	92.22	32.98	261.48	145.3	204.2	437.7	234.5	74.04	93.40	118.72	912.52	260.9
Mean	2.97	1.10	8.43	4.69	7.04	14.1	7.82	2.39	3.11	3.83	29.4	8.70
Max	36	4.8	70	53	94	96	60	21	39	41	517	60
Min	0.13	0.61	0.49	1.1	1.3	1.4	1.3	0.70	0.22	0.16	0.07	1.1
Cfsm	0.33	0.12	0.92	0.51	0.77	1.54	0.86	0.26	0.34	0.42	3.22	0.95
In.	0.38	0.13	1.06	0.59	0.83	1.78	0.95	0.30	0.38	0.48	3.71	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.25	8.18	9.70	9.27	10.7	15.7	12.2	8.39	9.43	6.14	10.9	8.16
Max	15.0	38.3	23.8	21.0	24.9	35.5	45.7	51.6	27.9	12.9	30.8	19.6
(WY)	(2000)	(2007)	(2003)	(2007)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.88	1.10	2.74	1.94	3.93	4.43	2.85	2.39	1.63	2.51	0.44	0.92
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(2006)	(2002)	(2008)	(2002)	(1999)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1999 - 2008	
Annual total	3,275.81		2,867.96			
Annual mean	8.97		7.84		9.58	
Highest annual mean					23.6	2003
Lowest annual mean					4.84	2002
Highest daily mean	421	Mar 2	517	Aug 27	626	May 22, 2003
Lowest daily mean	0.05	Sep 13	0.07	Aug 9	0.05	Aug 28, 2001
Annual seven-day minimum	0.10	Sep 7	0.09	Aug 6	0.09	Aug 23, 2001
Maximum peak flow			^a 1,640	Aug 27	^a 1,640	Aug 27, 2008
Maximum peak stage			12.11	Aug 27	12.11	Aug 27, 2008
Instantaneous low flow			^a 0.05	Aug 9	^a 0.02	Sep 20, 2001
Annual runoff (cfsm)	0.982		0.857		1.05	
Annual runoff (inches)	13.33		11.67		14.24	
10 percent exceeds	18		14		18	
50 percent exceeds	2.1		1.6		2.6	
90 percent exceeds	0.28		0.27		0.65	

^aSee Remarks.