

Water-Data Report 2007

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.--Records poor. Maximum discharge for period of record 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 September 13, 14.

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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	1.9	3.3	9.5	36	40	141	2.9	2.1	1.1	4.9	0.54	0.48
2	1.8	3.5	7.1	15	18	421	3.2	2.1	1.1	1.4	0.39	0.37
3	1.7	3.0	7.9	15	11	53	2.6	2.1	8.9	0.87	0.32	0.26
4	1.9	2.3	7.9	18	9.7	39	2.5	2.4	2.6	0.77	0.32	0.19
5	1.7	1.8	7.2	47	10	34	2.3	9.3	1.3	0.60	0.26	0.17
6	2.0	3.0	6.9	31	10	28	2.2	5.6	1.2	0.66	0.54	0.14
7	1.9	51	6.3	68	11	17	2.2	3.0	0.85	0.68	0.33	0.11
8	22	47	5.6	134	11	3.9	2.1	2.7	0.79	0.59	0.26	0.13
9	0.89	1.8	5.3	17	11	3.0	2.2	3.3	1.1	28	0.23	0.12
10	6.6	4.5	5.0	12	12	2.9	2.2	3.7	1.2	18	e0.26	0.11
11	2.7	23	5.0	11	12	2.7	5.9	2.3	25	2.6	e0.26	0.10
12	3.9	80	4.3	10	13	2.5	34	3.8	12	2.9	e0.27	0.06
13	3.1	5.2	4.1	9.2	52	2.4	3.5	3.5	4.6	1.3	e0.29	0.05
14	3.2	2.1	3.8	8.9	113	2.4	3.8	1.7	3.4	1.0	0.26	12
15	5.3	12	3.6	9.5	50	2.2	140	1.8	4.3	2.5	0.27	13
16	5.7	218	3.1	9.3	44	46	11	1.8	2.2	3.5	0.26	0.77
17	116	7.3	2.7	8.9	41	9.1	5.6	1.8	1.8	1.7	0.32	0.43
18	36	2.2	2.2	14	40	4.8	4.3	1.8	1.7	9.4	0.39	0.42
19	11	1.6	2.2	11	30	4.0	12	1.8	1.7	1.7	0.38	1.3
20	8.8	1.5	2.8	9.6	20	3.6	31	1.9	1.2	1.3	0.48	0.81
21	8.2	70	3.7	22	18	3.4	6.6	1.9	1.0	1.0	0.58	0.87
22	8.4	492	64	47	15	3.4	5.5	1.6	0.72	0.98	0.75	2.1
23	9.5	55	4.6	8.8	13	3.5	5.0	1.5	0.62	0.72	1.7	0.37
24	3.7	22	2.4	6.2	8.2	3.3	4.7	1.5	1.3	0.55	0.69	0.29
25	4.1	16	123	5.8	58	3.2	3.4	1.6	13	0.69	0.63	0.25
26	3.3	3.0	11	11	14	2.9	2.2	1.7	5.6	0.53	0.66	0.21
27	19	4.1	5.7	10	7.3	2.9	17	1.6	3.0	2.7	1.2	0.17
28	62	4.1	5.0	11	5.7	3.2	4.1	1.7	4.6	9.4	0.81	0.14
29	29	2.9	5.2	11	---	5.1	3.1	1.5	2.0	0.94	0.71	0.12
30	5.7	5.1	7.6	11	---	2.3	2.7	1.4	11	1.3	0.85	0.12
31	2.3	---	15	12	---	2.2	---	1.1	---	1.0	1.8	---
Total	393.29	1,148.3	349.7	650.2	697.9	857.9	329.8	75.6	120.88	104.18	17.01	35.66
Mean	12.7	38.3	11.3	21.0	24.9	27.7	11.0	2.44	4.03	3.36	0.55	1.19
Max	116	492	123	134	113	421	140	9.3	25	28	1.8	13
Min	0.89	1.5	2.2	5.8	5.7	2.2	2.1	1.1	0.62	0.53	0.23	0.05
Cfsm	1.39	4.19	1.23	2.29	2.73	3.03	1.20	0.27	0.44	0.37	0.06	0.13
In.	1.60	4.67	1.42	2.65	2.84	3.49	1.34	0.31	0.49	0.42	0.07	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.62	8.97	9.84	9.77	11.1	15.9	12.7	9.06	10.1	6.39	8.80	8.10
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	1.81	2.74	1.94	3.93	4.43	2.85	2.44	1.63	2.51	0.44	0.92
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(1999)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	4,587.56		4,780.42			
Annual mean	12.6		13.1		9.77	
Highest annual mean					23.6	2003
Lowest annual mean					4.84	2002
Highest daily mean	492	Nov 22	492	Nov 22	626	May 22, 2003
Lowest daily mean	0.87	Jun 1	0.05	Sep 13	0.05	Aug 28, 2001
Annual seven-day minimum	1.1	May 29	0.10	Sep 7	0.09	Aug 23, 2001
Maximum peak flow			1,100	Mar 2	^a 1,440	Jun 8, 2003
Maximum peak stage			11.01	Mar 2	11.75	Jun 8, 2003
Instantaneous low flow			^a 0.04	Sep 12	^a 0.02	Sep 20, 2001
Annual runoff (cfsm)	1.38		1.43		1.07	
Annual runoff (inches)	18.67		19.46		14.52	
10 percent exceeds	23		29		18	
50 percent exceeds	3.4		3.2		2.7	
90 percent exceeds	1.5		0.39		0.71	

^a See Remarks.

