



Water-Data Report 2010

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 streamgage.

REMARKS.--Records poor. Maximum discharge for period of record and current water year from rating curve extended above 950 ft³/s by culvert computation of peak flow. Minimum discharge for period of record also occurred July 13, 2002.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.48	99	3.1	8.1	12	2.4	5.3	1.7	156	0.98	14	0.91
2	0.43	6.7	130	6.4	69	8.2	3.7	1.6	67	0.51	2.0	0.90
3	0.36	4.4	61	5.5	31	12	2.8	4.3	38	0.43	1.5	0.89
4	0.37	3.3	17	5.3	13	3.6	2.4	3.1	9.9	0.42	1.3	0.87
5	21	2.9	12	4.8	298	2.7	2.3	1.8	5.8	0.44	3.4	0.86
6	1.8	2.6	8.3	4.3	86	2.1	2.5	1.5	4.2	0.37	8.6	0.85
7	0.98	2.3	6.0	3.8	24	1.7	2.5	1.2	4.6	0.40	47	0.82
8	0.67	2.0	20	3.7	14	1.5	3.8	0.90	2.1	0.33	2.8	0.81
9	0.77	1.8	172	3.2	11	1.4	7.9	0.77	1.6	0.34	1.8	0.73
10	0.83	77	25	2.9	8.4	1.5	2.6	0.75	2.1	0.30	1.3	0.72
11	0.55	283	14	3.1	6.8	5.7	2.3	2.5	2.9	0.83	1.0	1.4
12	5.5	66	8.8	2.7	5.3	32	2.1	1.6	1.2	65	0.96	1.5
13	2.1	21	17	2.4	8.7	88	2.0	0.98	3.8	14	0.84	0.69
14	7.7	11	9.0	2.4	6.0	43	2.0	0.90	3.0	6.6	2.1	0.66
15	5.6	7.5	5.5	2.3	11	12	2.0	0.73	1.2	4.0	51	0.61
16	2.6	5.9	3.7	2.5	5.5	6.9	1.8	0.76	0.92	3.9	3.3	0.61
17	2.3	4.3	3.0	154	3.5	4.6	1.6	29	0.92	4.5	1.6	0.65
18	1.4	5.4	45	25	3.0	3.2	1.4	10	0.76	2.6	1.3	0.64
19	1.0	4.5	69	13	2.6	2.0	1.4	2.3	0.56	6.1	103	0.62
20	0.75	2.7	13	9.0	2.3	1.4	1.5	1.5	0.43	4.4	16	0.60
21	0.75	2.1	8.0	39	2.4	6.2	3.3	5.2	0.43	e1.8	4.5	0.62
22	2.0	2.9	5.4	25	42	15	1.7	5.5	0.39	1.4	2.6	0.66
23	0.78	60	4.2	9.1	9.1	2.6	1.5	1.8	0.39	1.2	1.9	0.54
24	2.9	6.3	3.4	50	8.8	1.8	1.9	2.3	0.43	8.4	1.5	0.56
25	1.4	3.5	296	320	6.4	1.7	20	2.3	0.39	3.8	1.3	0.55
26	0.94	2.6	54	25	3.9	1.6	3.2	0.91	0.44	1.5	1.2	13
27	29	2.4	19	11	3.2	1.2	7.2	0.69	0.36	1.4	1.1	106
28	75	1.8	13	7.2	2.9	3.7	9.5	5.7	0.27	3.1	1.1	51
29	4.9	1.6	9.6	5.6	---	170	2.7	54	0.14	1.8	1.0	23
30	3.6	1.7	8.0	9.3	---	18	1.9	7.3	1.9	1.4	0.96	15
31	3.4	---	14	18	---	8.1	---	35	---	10	0.95	---
Total	181.86	698.2	1,077.0	783.6	699.8	465.8	106.8	188.59	312.13	152.25	282.91	227.27
Mean	5.87	23.3	34.7	25.3	25.0	15.0	3.56	6.08	10.4	4.91	9.13	7.58
Max	75	283	296	320	298	170	20	54	156	65	103	106
Min	0.36	1.6	3.0	2.3	2.3	1.2	1.4	0.69	0.14	0.30	0.84	0.54
Cfsm	0.64	2.55	3.80	2.77	2.73	1.64	0.39	0.67	1.14	0.54	1.00	0.83
In.	0.74	2.84	4.38	3.19	2.85	1.90	0.43	0.77	1.27	0.62	1.15	0.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.97	9.21	11.8	10.9	11.4	16.6	11.0	9.14	10.3	6.18	10.3	7.74
Max	15.0	38.3	34.7	25.3	25.0	35.5	45.7	51.6	27.9	12.9	30.8	19.6
(WY)	(2000)	(2007)	(2010)	(2010)	(2010)	(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 2009		Water Year 2010		Water Years 1999 - 2010	
Annual total	5,205.81		5,176.21			
Annual mean	14.3		14.2		10.0	
Highest annual mean					23.6	2003
Lowest annual mean					4.84	2002
Highest daily mean	330	Jun 5	320	Jan 25	626	May 22, 2003
Lowest daily mean	0.36	Oct 3	0.14	Jun 29	0.05	Aug 28, 2001
Annual seven-day minimum	0.56	Sep 12	0.35	Jun 23	0.09	Aug 23, 2001
Maximum peak flow			^a 1,130	Jan 25	^a 1,640	Aug 27, 2008
Maximum peak stage			11.10	Jan 25	12.11	Aug 27, 2008
Instantaneous low flow			0.08	Jun 29	^a 0.02	Sep 20, 2001
Annual runoff (cfsm)	1.56		1.55		1.10	
Annual runoff (inches)	21.19		21.07		14.92	
10 percent exceeds	30		31		18	
50 percent exceeds	2.4		2.9		2.5	
90 percent exceeds	0.78		0.66		0.66	

^a See Remarks.

