



Water-Data Report 2011

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 from rating curve extended above 950 ft³/s by culvert computation of peak flow. Minimum discharge for period of record and current water year also occurred September 5, 2011.

02146348 COFFEY CREEK NEAR CHARLOTTE, NC—Continued

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	2.4	0.45	70	6.8	1.6	28	8.9	1.1	1.3	2.0	e3.2	0.13
2	1.5	0.38	6.6	13	47	5.1	5.2	0.93	1.4	1.9	e1.0	0.75
3	1.2	0.38	4.1	4.7	5.3	3.6	3.6	2.5	1.1	1.7	e0.56	e0.41
4	1.7	14	3.7	3.0	67	3.1	3.0	46	0.96	7.5	0.23	e0.31
5	0.94	2.3	4.0	2.0	105	4.2	26	3.6	1.1	6.3	178	e64
6	0.86	0.81	2.9	2.2	16	74	4.3	2.5	2.8	13	28	31
7	0.72	0.50	2.7	2.0	8.6	16	2.7	1.6	0.84	2.9	11	3.7
8	0.74	0.47	2.6	1.9	6.5	6.5	2.2	1.1	0.71	25	8.8	2.6
9	0.62	0.44	2.4	1.5	4.5	42	70	0.96	0.72	22	12	2.2
10	0.62	0.38	2.3	e2.7	3.8	58	53	0.80	1.4	4.8	12	2.1
11	0.55	0.35	2.3	11	3.5	12	11	94	8.7	4.7	53	1.3
12	0.49	0.38	13	5.7	3.2	6.9	6.0	8.8	20	5.0	12	1.2
13	0.49	0.37	3.9	4.0	3.0	5.4	3.6	4.4	11	7.5	19	e0.77
14	1.0	0.36	2.7	3.3	3.0	4.2	2.5	2.9	4.1	5.8	6.4	0.34
15	0.79	0.40	2.5	2.8	2.8	3.8	2.1	4.3	3.5	1.4	4.1	e0.36
16	e0.65	0.50	3.3	2.7	2.9	4.2	71	12	5.9	1.7	2.8	0.42
17	e0.49	0.68	3.6	3.1	2.8	3.2	13	110	1.8	1.6	2.5	0.34
18	e0.39	0.41	2.9	3.8	2.6	2.9	4.8	13	4.1	1.1	2.4	0.37
19	e0.42	0.39	3.3	e3.1	2.5	2.7	3.2	5.4	5.7	0.99	2.0	0.35
20	e1.4	0.35	2.6	2.5	2.4	2.4	2.5	3.6	1.6	0.60	1.6	0.33
21	0.95	0.35	2.6	2.3	2.7	2.4	2.1	2.4	3.5	0.34	1.3	7.6
22	e0.49	0.35	3.9	1.9	2.1	2.4	5.6	1.8	33	0.42	3.0	6.2
23	e0.44	0.45	4.3	1.6	1.9	2.3	2.9	1.5	1.6	0.45	2.6	42
24	e0.37	0.66	2.6	1.5	1.8	5.4	1.9	1.3	10	0.42	2.3	28
25	e14	0.68	3.0	1.7	1.9	2.0	1.6	1.1	4.9	0.79	1.6	104
26	2.8	4.0	11	14	1.8	20	1.4	1.0	7.9	e0.48	1.2	27
27	8.3	1.00	3.9	4.7	1.7	59	1.2	65	9.2	e0.48	0.80	15
28	26	0.59	2.5	2.8	39	20	5.7	22	27	e0.40	0.72	41
29	1.5	0.46	2.1	2.1	---	7.7	1.6	4.3	55	e0.48	e0.46	4.0
30	0.78	2.2	2.1	1.7	---	98	1.2	2.3	3.8	e0.56	e0.33	2.9
31	0.59	---	1.9	2.0	---	21	---	1.5	---	e20	0.25	---
Total	74.19	35.04	181.3	118.1	346.9	528.4	323.8	423.69	234.63	142.31	375.15	390.68
Mean	2.39	1.17	5.85	3.81	12.4	17.0	10.8	13.7	7.82	4.59	12.1	13.0
Max	26	14	70	14	105	98	71	110	55	25	178	104
Min	0.37	0.35	1.9	1.5	1.6	2.0	1.2	0.80	0.71	0.34	0.23	0.13
Cfsm	0.26	0.13	0.64	0.42	1.36	1.86	1.18	1.50	0.86	0.50	1.32	1.42
In.	0.30	0.14	0.74	0.48	1.41	2.15	1.32	1.72	0.95	0.58	1.53	1.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.69	8.59	11.4	10.3	11.5	16.6	11.0	9.49	10.1	6.06	10.5	8.14
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)	(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)

SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1999 - 2011	
Annual total	3,509.68	3,174.19		
Annual mean	9.62	8.70	9.93	
Highest annual mean			23.6	2003
Lowest annual mean			4.84	2002
Highest daily mean	320	Jan 25	178	Aug 5
Lowest daily mean	0.14	Jun 29	0.13	Sep 1
Annual seven-day minimum	0.35	Jun 23	0.36	Sep 14
Maximum peak flow			a797	Aug 5
Maximum peak stage			10.37	Aug 5
Instantaneous low flow			^a 0.01	Sep 3
Annual runoff (cfsm)	1.05	0.951		1.09
Annual runoff (inches)	14.28	12.92		14.77
10 percent exceeds	15	21		18
50 percent exceeds	2.3	2.6		2.5
90 percent exceeds	0.45	0.45		0.64

^a See Remarks.

