



Water-Data Report 2012

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

Cape Fear Basin
Deep Subbasin

LOCATION.--Lat 35°39'35", long 79°24'06" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030003, on right bank, 200 ft upstream from bridge on U.S. Highway 421, 1.5 mi east of Mount Vernon Springs, and 4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1958 to September 1981, January 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.5 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 2,200 ft³/s, on basis of contracted-opening measurement of peak flow. No flow occurs at times most years. Minimum discharge for current water year occurred several days.

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.10	1.3	5.8	2.1	3.4	6.0	4.2	1.2	0.31	0.02	0.05	0.04
2	0.07	0.99	3.2	2.4	3.2	5.3	3.4	1.0	1.6	0.02	0.04	0.04
3	0.05	0.74	2.2	1.5	2.7	56	2.8	0.82	0.74	0.02	0.03	0.28
4	0.03	23	1.9	1.4	2.5	24	3.1	0.76	0.48	0.02	0.02	0.22
5	0.02	5.0	1.5	1.4	21	12	9.4	0.89	0.33	0.02	0.02	0.14
6	0.02	1.6	1.3	1.4	10	6.6	8.3	0.84	0.79	0.02	0.02	0.10
7	0.02	1.2	2.9	1.3	6.1	4.9	5.2	0.56	0.65	0.02	0.04	0.08
8	0.02	0.96	7.9	1.3	4.3	4.2	3.5	0.49	0.41	0.02	0.05	0.34
9	0.02	0.76	3.6	1.3	3.3	5.2	2.8	1.0	0.32	0.02	0.05	1.7
10	0.02	0.68	2.5	1.5	2.7	5.0	2.3	1.0	0.23	0.08	0.11	0.69
11	0.03	0.46	1.9	1.8	2.7	3.6	2.0	0.55	0.22	0.14	0.16	0.37
12	0.03	0.51	1.6	2.7	2.6	3.1	1.6	0.38	0.53	0.27	0.11	0.23
13	0.02	0.49	1.4	3.0	2.3	2.8	1.6	0.35	0.34	0.53	0.07	0.15
14	0.02	0.53	1.3	2.7	2.2	2.7	1.4	6.5	0.21	0.67	0.05	0.11
15	0.02	0.49	1.2	1.8	2.1	2.5	1.3	118	0.11	0.24	0.04	0.09
16	0.02	0.98	1.1	1.9	2.4	2.3	1.3	15	0.09	0.16	0.04	0.08
17	0.02	0.52	2.6	1.9	3.8	2.7	1.2	6.6	0.06	0.12	0.03	0.08
18	0.01	0.37	2.2	3.3	3.2	26	1.6	3.5	0.05	0.08	0.03	3.1
19	7.5	e0.38	1.7	4.1	7.3	13	1.3	2.2	0.05	0.06	0.26	6.1
20	1.4	e0.36	1.5	2.9	30	8.7	1.2	1.6	0.04	0.06	1.5	0.49
21	0.43	e0.35	1.8	11	17	30	1.1	1.3	0.04	0.19	0.55	0.19
22	0.22	e0.34	3.8	18	11	19	9.6	1.2	0.05	0.27	0.18	0.11
23	0.17	e1.2	5.4	9.5	13	11	9.9	1.1	0.10	0.72	0.11	0.06
24	0.14	e0.95	3.0	7.6	11	32	4.2	1.1	0.11	0.39	0.08	0.06
25	0.13	e0.77	2.3	5.5	15	43	2.7	0.90	0.10	0.26	0.07	0.07
26	0.14	e0.72	1.9	4.4	8.7	19	2.3	0.67	0.07	0.08	0.06	0.08
27	0.17	e0.69	5.3	12	6.8	11	2.1	0.48	0.04	1.6	0.06	0.06
28	0.20	e0.67	7.3	12	6.7	7.4	1.7	0.46	0.03	1.9	0.05	3.9
29	2.3	105	4.1	6.9	6.6	5.9	1.5	0.58	0.03	0.35	0.05	38
30	2.1	16	3.0	5.0	---	4.5	1.3	0.54	0.02	0.14	0.04	17
31	1.6	---	2.5	4.1	---	4.3	---	0.38	---	0.08	0.04	---
Total	17.04	168.01	89.7	137.7	213.6	383.7	95.9	171.95	8.15	8.57	4.01	73.96
Mean	0.55	5.60	2.89	4.44	7.37	12.4	3.20	5.55	0.27	0.28	0.13	2.47
Max	7.5	105	7.9	18	30	56	9.9	118	1.6	1.9	1.5	38
Min	0.01	0.34	1.1	1.3	2.1	2.3	1.1	0.35	0.02	0.02	0.02	0.04
Cfsm	0.04	0.36	0.19	0.29	0.48	0.80	0.21	0.36	0.02	0.02	0.01	0.16
In.	0.04	0.40	0.22	0.33	0.51	0.92	0.23	0.41	0.02	0.02	0.01	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2012^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.93	7.06	11.5	22.8	28.0	28.1	17.5	8.15	6.09	6.77	6.41	7.02
Max	56.6	43.1	53.4	80.4	81.0	74.8	67.1	39.1	48.0	66.6	55.3	75.2
(WY)	(1972)	(2007)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1973)	(1975)	(1964)	(1996)
Min	0.00	0.01	0.59	0.55	2.25	3.64	2.45	0.38	0.02	0.04	0.00	0.00
(WY)	(2006)	(2008)	(2002)	(2008)	(2011)	(2006)	(1981)	(2002)	(2002)	(2002)	(2007)	(1980)

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2011		Water Year 2012		Water Years 1958 - 2012 ^a		
Annual total	777.53		1,372.29				
Annual mean	2.13		3.75		13.1		
Highest annual mean					29.5	2003	
Lowest annual mean					1.59	2011	
Highest daily mean	105	Nov 29	118	May 15	1,570	Sep 6, 1996	
Lowest daily mean	0.00	Jul 10	0.01	Oct 18	0.00	Sep 2, 1962	
Annual seven-day minimum	0.00	Jul 10	0.02	Oct 12	0.00	Sep 2, 1962	
Maximum peak flow			298	May 15	b4,010	Sep 6, 1996	
Maximum peak stage			4.47	May 15	13.41	Sep 6, 1996	
Instantaneous low flow			b0.01	Oct 4	b0.00	Sep 2, 1962	
Annual runoff (cfsm)	0.137		0.242		0.843		
Annual runoff (inches)	1.87		3.29		11.45		
10 percent exceeds	3.9		8.7		23		
50 percent exceeds	0.87		1.2		3.1		
90 percent exceeds	0.00		0.04		0.05		

^a See Period of Record.^b See Remarks.