

Water-Data Report 2010

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.

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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	0.01	e19	2.2	7.3	7.8	6.3	5.7	1.2	9.1	0.29	0.17	0.01
2	0.01	e5.3	40	5.6	24	6.3	4.8	1.2	4.0	0.11	0.15	0.01
3	0.01	e3.0	111	4.5	98	31	4.3	1.1	2.6	0.05	0.14	0.01
4	0.01	e2.6	15	3.9	47	59	3.9	1.8	1.7	0.03	0.10	0.01
5	0.01	e2.4	11	3.5	504	40	3.4	1.8	1.1	0.02	0.09	0.01
6	0.01	e2.2	9.8	3.3	324	20	3.3	1.6	0.93	0.04	0.11	0.01
7	0.00	e2.0	6.4	3.2	37	14	2.9	1.3	1.0	0.14	0.09	0.00
8	0.00	e2.1	5.0	3.3	20	11	2.7	1.1	0.91	0.04	0.04	0.00
9	0.00	e2.0	138	3.0	21	9.3	2.9	1.1	0.70	0.02	0.03	0.00
10	0.00	e2.1	28	2.7	29	8.2	2.5	1.1	0.61	0.02	0.02	0.00
11	0.00	12	11	2.4	16	7.8	2.3	1.1	0.49	0.02	0.02	0.00
12	0.00	15	7.3	2.5	12	8.7	2.3	1.3	0.41	0.02	0.02	0.00
13	0.00	26	11	2.5	13	91	2.1	1.3	1.1	0.02	0.02	0.00
14	0.00	6.2	13	2.4	12	26	2.2	1.3	1.8	0.03	0.02	0.00
15	0.00	3.0	8.9	2.4	11	11	2.9	1.3	0.88	0.03	0.02	0.00
16	0.00	2.2	6.6	2.6	11	6.4	2.3	1.2	21	0.02	0.02	0.00
17	0.00	1.8	4.9	119	8.6	5.4	1.9	2.6	2.1	0.05	0.01	0.00
18	0.00	1.6	5.2	51	7.6	5.0	1.7	9.4	1.0	0.31	0.01	0.00
19	0.00	1.5	77	19	6.9	4.4	1.5	17	0.66	0.24	0.02	0.00
20	0.00	1.4	23	12	6.2	4.2	1.5	6.1	0.32	0.17	0.07	0.00
21	e2.5	1.4	12	19	6.0	3.9	1.5	2.7	0.23	0.12	0.03	0.00
22	e2.3	1.3	8.3	75	16	4.8	1.5	2.3	0.15	0.08	0.02	0.00
23	e0.70	21	6.7	21	17	4.5	1.5	27	0.15	0.06	0.01	0.00
24	e0.33	14	5.5	14	17	4.0	1.3	9.1	0.27	0.04	0.07	0.00
25	e0.84	5.9	117	301	20	3.7	2.6	4.7	0.16	0.03	0.84	0.00
26	e0.36	3.9	65	33	11	3.7	2.5	4.7	0.11	0.02	0.15	0.00
27	e0.45	3.2	20	16	8.8	3.4	1.9	2.0	0.08	60	0.04	0.00
28	e8.7	2.9	12	12	7.4	3.4	1.4	1.3	0.06	9.0	0.02	0.04
29	e0.65	2.5	8.2	9.6	---	56	1.2	1.1	0.06	0.58	0.01	1.6
30	e0.46	2.3	6.4	11	---	17	1.2	0.95	0.53	0.23	0.01	189
31	e2.7	---	7.6	8.8	---	7.9	---	0.83	---	0.13	0.01	---
Total	20.05	171.8	803.0	776.5	1,319.3	487.3	73.7	112.58	54.21	71.96	2.38	190.70
Mean	0.65	5.73	25.9	25.0	47.1	15.7	2.46	3.63	1.81	2.32	0.08	6.36
Max	8.7	26	138	301	504	91	5.7	27	21	60	0.84	189
Min	0.00	1.3	2.2	2.4	6.0	3.4	1.2	0.83	0.06	0.02	0.01	0.00
Cfsm	0.04	0.37	1.67	1.62	3.04	1.01	0.16	0.23	0.12	0.15	0.00	0.41
In.	0.05	0.41	1.93	1.86	3.17	1.17	0.18	0.27	0.13	0.17	0.01	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.25	7.26	12.0	23.8	29.2	29.1	18.2	8.32	6.38	7.09	6.72	7.30
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	2.58	3.64	2.45	0.38	0.02	0.04	0.00	0.00
(WY)	(2006)	(2008)	(2002)	(2008)	(2008)	(2006)	(1981)	(2002)	(2002)	(2002)	(2007)	(1980)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1958 - 2010 ^a	
Annual total	3,188.79		4,083.48			
Annual mean	8.74		11.2		13.6	
Highest annual mean					29.5	2003
Lowest annual mean					3.84	1981
Highest daily mean	334	Mar 1	504	Feb 5	1,570	Sep 6, 1996
Lowest daily mean	0.00	Sep 10	0.00	Oct 7	0.00	Sep 2, 1962
Annual seven-day minimum	0.00	Sep 10	0.00	Oct 7	0.00	Sep 2, 1962
Maximum peak flow			1,690	Feb 5	^b 4,010	Sep 6, 1996
Maximum peak stage			7.62	Feb 5	13.41	Sep 6, 1996
Instantaneous low flow			^b 0.00	Oct 5	^b 0.00	Sep 2, 1962
Annual runoff (cfsm)	0.564		0.722		0.877	
Annual runoff (inches)	7.65		9.80		11.92	
10 percent exceeds	15		20		24	
50 percent exceeds	2.0		2.1		3.4	
90 percent exceeds	0.01		0.01		0.06	

^a See Period of Record.

^b See Remarks.

