

Water-Data Report 2007

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 and v-notch sharp-crested weir. Datum of gage is 455 ft above NGVD of 1929, by barometer. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.26	1.3	21	30	8.7	8.8	7.0	4.3	0.38	0.05	0.00	0.00
2	0.22	1.1	13	29	21	346	9.4	3.3	0.35	0.04	0.00	0.00
3	0.19	0.97	7.1	15	13	42	7.7	3.0	0.82	0.04	0.00	0.00
4	0.16	0.80	6.3	12	9.2	21	6.4	2.9	0.68	0.03	0.00	0.00
5	0.14	0.69	5.2	12	7.7	15	6.8	3.4	0.33	0.02	0.00	0.00
6	0.17	0.66	4.7	67	6.8	12	4.9	3.5	0.25	0.02	0.00	0.00
7	0.17	39	4.4	51	6.9	10	4.9	3.0	0.22	0.02	0.00	0.00
8	1.1	104	3.7	156	6.4	9.5	4.9	2.7	0.20	0.01	0.00	0.00
9	0.42	11	3.6	40	5.8	8.4	4.8	2.8	0.16	0.01	0.00	0.00
10	0.11	4.5	3.7	21	5.6	7.8	5.0	2.8	0.18	0.01	0.00	0.00
11	0.08	2.9	4.0	15	5.2	7.4	5.7	2.7	0.17	0.02	0.00	0.00
12	0.69	32	4.0	13	5.1	6.8	144	2.4	0.14	0.02	0.00	0.00
13	0.58	8.7	4.1	11	11	6.4	24	2.7	0.12	0.02	0.00	0.00
14	0.41	4.8	4.5	10	153	6.1	13	2.6	0.10	0.01	0.00	0.00
15	0.35	3.5	4.2	9.3	29	6.1	387	2.2	0.10	0.01	0.00	0.00
16	0.33	178	3.8	8.7	18	46	199	2.5	0.10	0.01	0.00	0.00
17	4.8	29	3.9	7.1	13	35	33	2.5	0.09	0.01	0.00	0.00
18	32	8.7	3.6	7.5	11	15	19	1.4	0.08	1.0	0.00	0.00
19	2.9	5.4	3.6	12	9.2	11	15	1.2	0.07	0.51	0.00	0.00
20	1.6	3.8	3.7	8.7	8.9	9.5	13	1.1	0.12	0.25	0.00	0.00
21	1.1	12	4.3	8.4	8.7	8.5	9.6	1.0	0.10	0.15	0.00	0.00
22	1.3	711	42	52	8.5	7.8	8.3	0.89	0.07	0.09	0.00	0.00
23	1.5	62	48	23	7.2	7.4	7.5	0.82	0.07	0.05	0.00	0.00
24	1.5	22	14	15	6.3	7.0	6.2	0.77	0.06	0.03	0.00	0.00
25	1.6	13	312	11	20	6.5	5.8	0.79	0.06	0.02	0.00	0.00
26	1.6	8.9	78	9.4	29	6.4	5.2	0.70	0.05	0.01	0.00	0.00
27	1.7	7.1	28	8.5	14	7.0	4.9	0.63	0.05	0.01	0.00	0.00
28	8.5	5.9	16	8.1	10	6.1	4.5	0.58	0.07	0.01	0.00	0.00
29	4.1	5.3	12	7.0	---	10	4.1	0.50	0.06	0.01	0.00	0.00
30	2.0	5.0	10	6.4	---	9.9	3.9	0.41	0.06	0.01	0.00	0.00
31	1.5	---	9.3	6.2	---	7.5	---	0.40	---	0.00	0.00	---
Total	73.08	1,293.02	685.7	690.3	458.2	713.9	974.5	60.49	5.31	2.50	0.00	0.00
Mean	2.36	43.1	22.1	22.3	16.4	23.0	32.5	1.95	0.18	0.08	0.00	0.00
Max	32	711	312	156	153	346	387	4.3	0.82	1.0	0.00	0.00
Min	0.08	0.66	3.6	6.2	5.1	6.1	3.9	0.40	0.05	0.00	0.00	0.00
Cfsm	0.15	2.78	1.43	1.44	1.06	1.49	2.10	0.13	0.01	0.01	0.00	0.00
In.	0.18	3.10	1.65	1.66	1.10	1.71	2.34	0.15	0.01	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.81	7.66	11.7	24.6	30.1	29.2	18.7	8.74	6.81	7.57	7.23	7.16
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	0.16	0.59	1.27	4.21	3.64	2.45	0.38	0.02	0.04	0.00	0.00
(WY)	(2006)	(1974)	(2002)	(1981)	(2006)	(2006)	(1981)	(2002)	(2002)	(2002)	(2007)	(1980)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1958 - 2007 ^a	
Annual total	3,331.18		4,957.00			
Annual mean	9.13		13.6		14.0	
Highest annual mean					29.5	2003
Lowest annual mean					3.84	1981
Highest daily mean	711	Nov 22	711	Nov 22	1,570	Sep 6, 1996
Lowest daily mean	0.01	Aug 2	0.00	Jul 31	0.00	Sep 2, 1962
Annual seven-day minimum	0.01	Aug 1	0.00	Jul 31	0.00	Sep 2, 1962
Maximum peak flow			1,390	Nov 22	^b 4,010	Sep 6, 1996
Maximum peak stage			7.14	Nov 22	13.41	Sep 6, 1996
Instantaneous low flow			^b 0.00	Jul 31	^b 0.00	Sep 2, 1962
Annual runoff (cfsm)	0.589		0.876		0.904	
Annual runoff (inches)	7.99		11.90		12.29	
10 percent exceeds	11		21		25	
50 percent exceeds	2.8		3.0		3.6	
90 percent exceeds	0.14		0.00		0.10	

^a See Period of Record.

^b See Remarks.

