



Water-Data Report 2010

02102908 FLAT CREEK NEAR INVERNESS, NC

Cape Fear Basin
Upper Cape Fear Subbasin

LOCATION.--Lat 35°10'58", long 79°10'39" referenced to North American Datum of 1983, Hoke County, NC, Hydrologic Unit 03030004, on left bank 15 ft downstream of culvert on Manchester Road, Fort Bragg military reservation, 0.4 mi upstream from mouth, and 3.6 mi east of Inverness.

DRAINAGE AREA.--7.63 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1968 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-70(M). WDR NC-81-1: Drainage area. WDR-US-2006: 1969-2005(M,P)

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair. Some diurnal fluctuation at low flow during growing season. Minimum discharge some years affected by regulation from unknown source. Minimum discharge for current water year occurred on several days.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.4	6.8	9.2	12	13	13	9.9	6.4	17	6.6	11	3.4
2	5.4	6.8	12	11	16	14	9.6	6.3	22	5.4	8.6	3.4
3	5.3	6.1	34	10	22	20	9.4	6.1	13	4.6	6.7	3.3
4	4.8	5.9	14	9.9	18	16	9.3	6.6	9.8	4.4	5.9	3.1
5	5.9	5.7	14	9.8	37	14	9.0	6.5	8.6	4.1	5.3	3.1
6	8.8	5.5	12	9.8	70	13	8.8	5.9	7.6	3.9	8.2	3.3
7	7.8	5.5	10	9.7	26	13	8.5	5.4	7.0	3.7	6.3	3.4
8	5.8	5.4	9.8	9.7	20	13	8.5	5.2	6.7	3.6	5.2	3.4
9	5.3	5.4	36	9.5	21	13	20	4.9	6.5	4.6	4.8	3.4
10	5.2	6.4	24	9.3	26	12	11	5.1	6.5	4.9	4.5	3.1
11	5.6	44	13	9.1	20	15	9.5	5.6	6.8	4.6	4.2	3.4
12	5.9	49	11	9.3	18	19	9.0	6.3	6.0	5.4	3.9	4.7
13	6.7	24	14	9.1	18	26	8.7	5.8	5.8	11	4.0	3.8
14	5.9	14	14	9.0	18	16	8.6	5.5	5.5	6.9	4.2	3.5
15	8.5	11	12	9.0	17	12	8.8	5.1	5.2	5.2	4.6	3.2
16	7.2	9.6	11	8.9	16	11	8.5	15	6.2	7.4	3.9	3.1
17	6.3	9.0	10	28	16	11	8.1	45	6.3	5.7	3.7	3.2
18	5.9	8.7	11	27	15	11	7.8	34	5.3	11	3.6	3.3
19	5.7	8.9	23	13	15	11	7.8	15	5.3	6.6	5.4	3.4
20	5.4	8.5	14	11	14	10	7.9	10	5.1	5.2	11	3.3
21	5.4	8.1	11	14	14	10	8.3	8.6	4.8	4.5	6.0	3.2
22	5.2	8.0	11	42	19	10	8.3	9.6	10	4.0	5.4	3.2
23	5.2	18	10	19	20	10	7.6	13	12	3.9	6.0	3.1
24	5.6	13	10	14	16	9.8	7.5	14	6.3	4.3	5.4	3.0
25	6.3	10	16	32	16	9.6	8.6	16	5.3	3.7	5.3	3.1
26	5.9	9.3	29	19	15	9.8	7.9	11	5.9	13	4.8	4.6
27	6.2	8.9	14	14	14	9.7	7.1	8.7	5.9	12	4.5	22
28	7.9	8.4	12	13	14	9.7	6.9	7.9	5.0	21	4.1	15
29	6.6	8.2	11	12	---	21	6.7	13	5.0	11	4.0	12
30	6.1	8.0	10	13	---	14	6.6	10	6.7	6.9	3.9	57
31	6.4	---	13	12	---	11	---	8.3	---	5.7	3.6	---
Total	189.6	346.1	455.0	438.1	564	407.6	264.2	325.8	229.1	204.8	168.0	194.0
Mean	6.12	11.5	14.7	14.1	20.1	13.1	8.81	10.5	7.64	6.61	5.42	6.47
Max	8.8	49	36	42	70	26	20	45	22	21	11	57
Min	4.8	5.4	9.2	8.9	13	9.6	6.6	4.9	4.8	3.6	3.6	3.0
Cfsm	0.80	1.51	1.92	1.85	2.64	1.72	1.15	1.38	1.00	0.87	0.71	0.85
In.	0.92	1.69	2.22	2.14	2.75	1.99	1.29	1.59	1.12	1.00	0.82	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2010, BY WATER YEAR (WY)

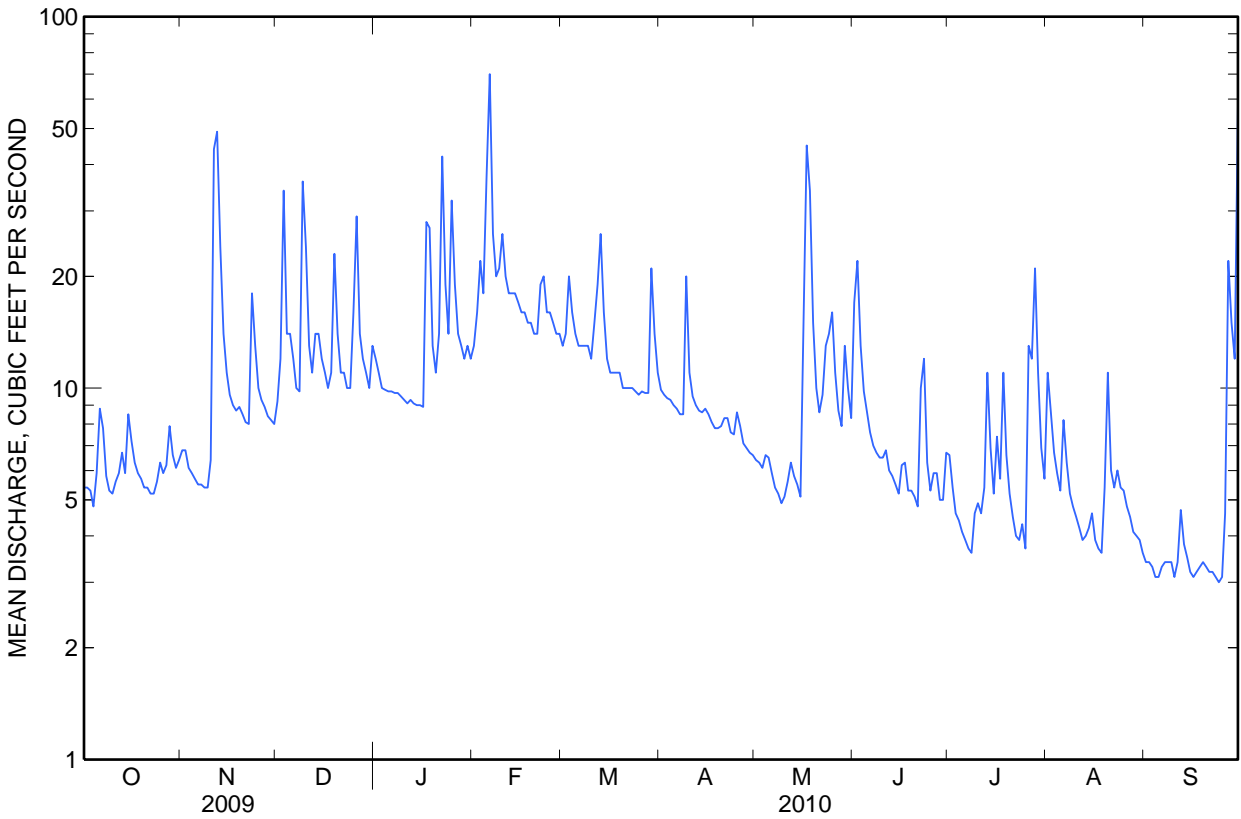
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.0	11.0	11.8	13.4	14.5	14.5	12.7	10.4	10.1	9.97	9.37	10.2
Max	19.9	20.5	19.5	20.2	32.0	28.5	39.7	18.9	25.3	24.5	21.7	27.3
(WY)	(1972)	(1980)	(1973)	(1975)	(1973)	(1998)	(1973)	(1973)	(1995)	(1989)	(2003)	(2008)
Min	5.13	5.02	5.16	7.30	7.00	6.47	5.11	3.67	3.19	2.90	2.74	3.50
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1968 - 2010	
Annual total	3,492.9		3,786.3			
Annual mean	9.57		10.4		11.5	
Highest annual mean					20.2	1973
Lowest annual mean					5.00	2002
Highest daily mean	49	Nov 12	70	Feb 6	278	Sep 6, 2008
Lowest daily mean	2.8	Jul 4	3.0	Sep 24	0.94	Aug 13, 2002
Annual seven-day minimum	3.0	Jun 29	3.2	Sep 19	1.3	Aug 8, 2002
Maximum peak flow			97	Feb 6	668	Sep 6, 2008
Maximum peak stage			2.55	Feb 6	8.20	Sep 6, 2008
Instantaneous low flow			^a 2.5	Sep 4	^a 0.38	Aug 14, 2002
Annual runoff (cfsm)	1.25		1.36		1.51	
Annual runoff (inches)	17.03		18.46		20.47	
10 percent exceeds	14		18		19	
50 percent exceeds	8.8		8.6		9.4	
90 percent exceeds	4.1		4.0		5.1	

^a See Remarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--April 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.16	0.00	0.01	---	0.00	0.00	0.02	1.02	0.00	0.53	0.00
2	0.00	0.00	1.45	0.00	---	0.26	0.00	0.00	0.04	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	0.21	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.36	0.00	0.35	0.00	2.22	0.00	0.01	0.00	0.01	0.00	0.30	0.00
6	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00
7	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.21	0.00	0.00	0.00	0.58	0.00	0.00	0.08	0.00	0.00
9	0.00	0.00	1.36	0.00	0.46	0.00	0.30	0.00	0.00	0.04	0.00	0.00
10	0.00	1.21	0.00	0.00	0.06	0.04	0.00	0.00	0.14	0.03	0.00	0.00
11	0.17	2.32	0.00	0.00	0.00	0.36	0.00	0.01	0.00	0.00	0.00	0.03
12	0.13	0.49	0.01	0.00	---	0.39	0.00	0.00	0.00	0.34	0.00	0.01
13	0.00	0.13	0.32	0.00	---	0.19	0.00	0.00	0.06	0.11	0.00	0.00
14	0.25	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.03	0.13	0.00
15	0.04	0.00	0.00	0.00	---	0.00	0.00	0.00	0.04	0.00	0.01	0.00
16	0.00	0.00	0.00	0.04	0.00	0.00	0.00	2.01	0.50	0.01	0.00	0.00
17	0.00	0.00	0.00	1.54	0.00	0.00	0.00	1.38	0.00	0.75	0.00	0.00
18	0.00	0.01	0.60	0.00	0.00	0.00	0.00	0.32	0.00	0.06	0.08	0.00
19	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
21	0.00	0.00	0.00	1.39	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
22	0.00	0.51	0.00	0.19	0.48	0.01	0.00	0.43	2.01	0.00	0.33	0.00
23	0.02	0.34	0.00	0.00	0.03	0.00	0.00	0.25	0.00	0.00	0.00	0.00
24	0.14	0.01	0.00	0.06	0.09	0.00	0.02	0.38	0.00	0.01	0.02	0.00
25	0.00	0.00	1.05	0.88	0.01	0.00	0.20	0.11	0.23	0.65	0.00	0.00
26	0.04	0.03	0.01	0.00	0.00	0.03	0.00	0.00	0.03	0.01	0.00	2.27
27	0.21	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	2.46	0.00	1.15
28	0.07	0.00	0.00	0.00	0.00	0.09	0.01	0.56	0.00	0.41	0.00	0.17
29	0.00	0.00	0.00	0.00	---	0.84	0.00	0.33	0.80	0.00	0.00	1.64
30	0.00	0.20	0.19	---	---	0.03	0.00	0.00	0.04	0.00	0.00	1.23
31	0.07	---	0.13	---	---	0.00	---	0.19	---	0.05	0.00	---
Total	1.65	5.43	5.84	---	---	2.45	1.22	5.99	4.95	5.04	1.98	6.50

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