

Water-Data Report 2007

02104220 ROCKFISH CREEK AT RAEFORD, NC

Cape Fear Basin
Upper Cape Fear Subbasin

LOCATION.--Lat 34°59'59", long 79°12'53" referenced to North American Datum of 1983, Hoke County, NC, Hydrologic Unit 03030004, at upstream side of bridge on U.S. Highway 401, 1.0 mi downstream of Nicholsons Creek, and 1.0 mile north of Raeford.

DRAINAGE AREA.--93.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 178 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred July 23, 2002. Minimum discharge for current water year also occurred August 22, 23, September 11, 12.

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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	77	80	135	139	122	107	114	84	51	120	44	65
2	68	77	143	144	187	182	118	81	51	111	40	48
3	63	75	138	134	208	253	120	80	114	76	38	41
4	61	72	131	123	198	246	139	82	159	63	36	38
5	59	72	127	119	162	230	119	90	130	55	36	36
6	58	73	119	173	125	158	106	98	82	50	35	34
7	66	102	114	198	116	121	104	90	67	49	34	34
8	81	207	109	212	113	112	103	81	61	63	33	33
9	100	235	104	241	109	107	102	83	58	64	32	32
10	93	228	103	219	106	105	102	103	55	59	33	31
11	79	190	102	178	104	105	109	94	54	53	37	31
12	73	137	102	139	103	102	172	84	58	115	38	30
13	68	142	101	126	106	100	182	99	64	106	35	32
14	65	136	101	121	163	99	174	98	68	72	33	35
15	63	110	101	117	185	98	176	84	67	60	31	86
16	62	140	99	115	177	160	245	77	64	58	31	82
17	68	179	96	111	140	310	258	87	60	57	30	55
18	124	176	94	112	119	350	228	88	58	76	31	46
19	131	152	93	143	110	294	176	78	53	84	32	43
20	106	115	92	145	105	221	131	73	53	61	30	45
21	85	110	91	125	106	160	121	68	60	53	30	56
22	77	304	101	169	106	138	113	65	53	48	30	56
23	82	681	178	201	101	131	106	64	49	46	33	51
24	77	511	204	196	96	127	102	62	48	42	39	45
25	72	326	230	175	100	122	100	60	48	41	44	41
26	71	251	321	134	141	116	97	59	52	40	37	39
27	73	201	352	119	146	115	95	58	70	40	37	38
28	132	164	293	114	124	115	95	56	61	42	38	37
29	138	144	226	111	---	115	91	55	53	42	36	35
30	106	135	166	107	---	125	87	54	90	43	41	33
31	86	---	138	106	---	120	---	53	---	46	68	---
Total	2,564	5,525	4,504	4,566	3,678	4,844	3,985	2,388	2,011	1,935	1,122	1,308
Mean	82.7	184	145	147	131	156	133	77.0	67.0	62.4	36.2	43.6
Max	138	681	352	241	208	350	258	103	159	120	68	86
Min	58	72	91	106	96	98	87	53	48	40	30	30
Cfsm	0.89	1.98	1.56	1.58	1.41	1.68	1.43	0.83	0.72	0.67	0.39	0.47
In.	1.02	2.21	1.80	1.82	1.47	1.94	1.59	0.95	0.80	0.77	0.45	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	111	118	117	136	137	148	131	101	93.2	91.1	96.9	109
Max	207	184	186	209	291	289	305	182	175	224	203	247
(WY)	(2000)	(2007)	(1990)	(1998)	(1998)	(1998)	(1998)	(1989)	(1989)	(1989)	(2003)	(1996)
Min	60.0	62.4	68.0	90.4	84.7	78.4	72.0	51.9	31.2	28.8	36.2	43.6
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007	
Annual total	37,672		38,430			
Annual mean	103		105		116	
Highest annual mean					167	1998
Lowest annual mean					60.8	2002
Highest daily mean	681	Nov 23	681	Nov 23	884	Sep 7, 1996
Lowest daily mean	37	Jul 19	30	Aug 17	20	Jul 22, 2002
Annual seven-day minimum	42	Jul 13	31	Aug 16	22	Aug 10, 2002
Maximum peak flow			803	Nov 23	1,030	Sep 7, 1996
Maximum peak stage			7.85	Nov 23	8.29	Sep 7, 1996
Instantaneous low flow			^a 29	Aug 21	^a 19	Jul 10, 2002
Annual runoff (cfsm)	1.11		1.13		1.25	
Annual runoff (inches)	15.05		15.36		16.92	
10 percent exceeds	165		183		193	
50 percent exceeds	85		97		98	
90 percent exceeds	56		38		56	

^a See Remarks.

