

Water-Data Report 2010

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 streamgage.

REMARKS.--Records fair except those for daily discharges, which are poor. Minimum discharge for period of record also occurred July 23, 2002.

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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	54	71	86	124	139	131	143	67	152	116	88	53
2	52	75	94	120	148	130	116	65	216	86	102	51
3	52	71	160	111	179	152	107	62	252	68	74	50
4	50	66	189	105	192	161	103	67	211	59	61	e47
5	51	64	211	102	215	153	99	69	135	53	55	e46
6	75	61	213	100	411	136	97	65	125	50	73	e45
7	86	60	158	99	527	127	93	58	97	47	95	e44
8	73	60	126	99	369	123	89	54	79	45	70	44
9	61	60	161	97	272	120	120	50	71	51	59	50
10	57	63	206	95	257	119	149	47	67	52	53	45
11	57	169	218	93	242	125	151	48	82	56	50	43
12	59	269	217	94	224	148	121	52	77	56	48	50
13	65	344	159	96	205	190	100	53	67	137	47	52
14	64	313	142	93	189	215	94	51	61	108	48	49
15	85	241	135	92	180	208	93	48	58	81	48	46
16	87	165	121	92	171	190	91	47	82	72	47	45
17	75	109	110	141	161	145	88	122	71	57	45	44
18	66	96	104	211	154	131	83	185	60	73	45	46
19	61	92	143	247	148	125	79	209	55	76	191	46
20	58	89	163	233	143	119	79	186	55	62	292	46
21	56	85	158	177	139	114	85	102	63	53	241	45
22	55	82	131	192	143	114	89	80	53	47	125	44
23	55	121	112	231	168	112	85	92	49	44	99	44
24	57	146	106	234	176	109	80	108	52	45	92	43
25	70	127	113	238	171	107	85	112	53	43	88	43
26	71	106	173	235	155	107	92	111	246	85	81	47
27	67	96	190	230	142	107	81	90	186	164	82	149
28	75	88	187	230	135	104	77	82	91	258	71	217
29	79	83	155	175	---	139	72	159	70	136	64	244
30	71	82	120	144	---	175	69	194	147	76	60	419
31	68	---	117	144	---	174	---	138	---	55	56	---
Total	2,012	3,554	4,678	4,674	5,755	4,310	2,910	2,873	3,083	2,411	2,650	2,237
Mean	64.9	118	151	151	206	139	97.0	92.7	103	77.8	85.5	74.6
Max	87	344	218	247	527	215	151	209	252	258	292	419
Min	50	60	86	92	135	104	69	47	49	43	45	43
Cfsm	0.70	1.27	1.62	1.62	2.21	1.49	1.04	1.00	1.10	0.84	0.92	0.80
In.	0.80	1.42	1.87	1.87	2.30	1.72	1.16	1.15	1.23	0.96	1.06	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	107	115	119	133	136	146	127	98.8	90.3	87.2	94.7	110
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 2009		Water Year 2010		Water Years 1988 - 2010	
Annual total	34,505		41,147			
Annual mean	94.5		113		114	
Highest annual mean					167	1998
Lowest annual mean					60.8	2002
Highest daily mean	409	Mar 3	527	Feb 7	1,270	Sep 7, 2008
Lowest daily mean	33	Jul 5	43	Jul 25	20	Jul 22, 2002
Annual seven-day minimum	35	Jun 30	44	Sep 19	22	Aug 10, 2002
Maximum peak flow			562	Feb 7	1,750	Sep 7, 2008
Maximum peak stage			7.28	Feb 7	9.30	Sep 7, 2008
Instantaneous low flow			42	Jul 25	^a 19	Jul 10, 2002
Annual runoff (cfsm)	1.02		1.21		1.22	
Annual runoff (inches)	13.79		16.44		16.60	
10 percent exceeds	153		210		191	
50 percent exceeds	84		93		96	
90 percent exceeds	47		49		54	

^a See Remarks.

