



Water-Data Report 2010

02087275 CRABTREE CREEK AT U.S. HIGHWAY 70 AT RALEIGH, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°50'17", long 78°40'27" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on left bank at upstream side of bridge on U.S. Highway 70, 0.6 mi upstream from Mine Creek, 4.4 mi northwest of Raleigh.

DRAINAGE AREA.--97.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1997 to current year. Unpublished records of gage height for water years 1988 to 1997 are available from the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 203.72 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred June 16, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 27.69 ft, discharge, about 11,700 ft³/s.

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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	44	97	64	82	110	59	151	21	97	15	39	19
2	34	104	461	70	143	56	106	20	128	13	36	16
3	27	76	2,690	59	387	97	81	20	109	12	28	14
4	23	58	1,050	51	449	95	67	18	62	11	24	12
5	23	45	704	46	1,190	75	57	17	46	11	327	11
6	22	35	430	42	2,240	65	50	17	36	11	390	10
7	20	28	244	39	981	57	43	16	33	11	156	11
8	17	24	164	41	535	51	38	15	26	11	94	10
9	16	22	964	36	365	46	114	14	23	11	68	9.9
10	15	37	640	34	362	43	98	13	24	39	49	10
11	15	1,750	345	33	229	85	78	13	20	20	36	11
12	17	1,900	191	31	166	121	65	13	16	16	36	12
13	19	1,110	158	30	147	350	53	13	103	19	28	12
14	21	524	160	29	129	280	43	13	95	35	21	11
15	26	264	125	28	108	195	38	13	43	24	18	11
16	24	158	99	27	98	134	35	22	43	18	16	11
17	21	109	81	550	83	101	31	341	43	48	14	11
18	20	97	70	715	74	81	27	500	31	42	43	11
19	19	138	585	412	66	68	25	339	24	27	67	11
20	16	105	438	238	59	58	22	197	21	24	121	11
21	14	83	263	208	55	51	29	118	18	40	86	11
22	15	66	164	603	71	49	45	167	16	25	62	10
23	14	146	113	344	89	44	33	845	23	19	146	9.8
24	14	196	86	215	85	38	29	449	19	16	207	9.6
25	18	150	176	982	98	36	58	214	15	16	150	9.4
26	18	108	382	628	89	38	50	138	13	19	94	109
27	18	87	251	373	77	35	38	94	13	19	67	357
28	20	67	168	215	70	31	31	97	12	20	48	184
29	20	55	115	143	---	787	26	251	15	51	36	351
30	19	53	85	136	---	446	24	103	22	103	29	2,410
31	19	---	94	115	---	238	---	79	---	40	23	---
Total	628	7,692	11,560	6,555	8,555	3,910	1,585	4,190	1,189	786	2,559	3,695.7
Mean	20.3	256	373	211	306	126	52.8	135	39.6	25.4	82.5	123
Max	44	1,900	2,690	982	2,240	787	151	845	128	103	390	2,410
Min	14	22	64	27	55	31	22	13	12	11	14	9.4
Cfsm	0.21	2.63	3.82	2.17	3.13	1.29	0.54	1.38	0.41	0.26	0.85	1.26
In.	0.24	2.93	4.41	2.50	3.26	1.49	0.60	1.60	0.45	0.30	0.98	1.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2010, BY WATER YEAR (WY)

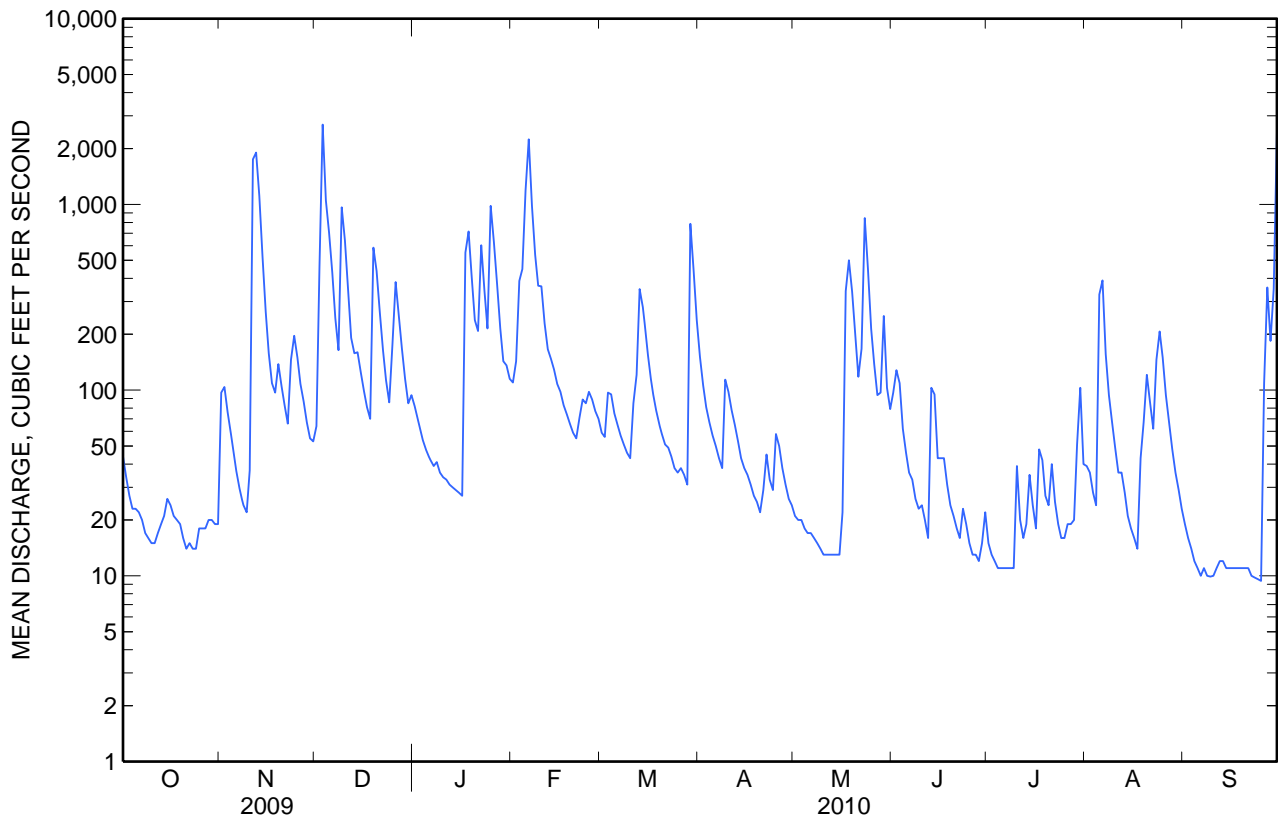
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	81.2	116	142	153	160	204	127	61.8	101	82.3	94.8	169
Max	352	487	373	422	412	429	310	135	540	166	331	939
(WY)	(2003)	(2007)	(2010)	(1998)	(1998)	(1998)	(2003)	(2010)	(2006)	(1997)	(2004)	(1999)
Min	20.3	16.4	27.1	33.7	53.8	44.0	52.8	15.6	13.1	25.4	20.0	17.6
(WY)	(2010)	(2008)	(2002)	(2001)	(2009)	(2006)	(2010)	(2002)	(1999)	(2010)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1997 - 2010	
Annual total	49,980.7		52,904.7			
Annual mean	137		145		125	
Highest annual mean					213	2003
Lowest annual mean					68.8	2002
Highest daily mean	2,690	Dec 3	2,690	Dec 3	5,030	Sep 16, 1999
Lowest daily mean	9.7	Sep 6	9.4	Sep 25	4.9	Jun 13, 2002
Annual seven-day minimum	11	Jul 6	10	Sep 19	5.6	Jun 12, 2002
Maximum peak flow			5,360	Dec 3	8,650	Jun 14, 2006
Maximum peak stage			17.24	Dec 3	23.77	Jun 14, 2006
Instantaneous low flow			6.2	Sep 26	^a 1.6	Jun 14, 2002
Annual runoff (cfsm)	1.40		1.49		1.28	
Annual runoff (inches)	19.05		20.16		17.40	
10 percent exceeds	332		359		283	
50 percent exceeds	53		48		52	
90 percent exceeds	15		13		14	

^a See Remarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--September 2006 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	0.64	0.00	0.00	---	0.00	0.00	0.00	0.43	0.00	0.11	0.00
2	0.00	0.00	2.51	0.00	---	0.19	0.00	0.00	0.56	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	0.12	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.10	0.00	0.30	0.00	1.62	0.00	0.00	0.00	0.00	0.00	1.56	0.00
6	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.42	0.04	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.57	0.00	0.37	0.00	0.27	0.00	0.00	0.00	0.00	0.01
10	0.00	0.92	0.00	0.00	0.01	0.17	0.00	0.00	0.00	0.31	0.00	0.00
11	0.03	2.53	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.05
12	0.11	0.23	0.00	0.00	---	0.03	0.00	0.00	0.00	0.09	0.05	0.01
13	0.00	0.05	0.21	0.00	---	0.44	0.00	0.00	0.76	0.04	0.00	0.00
14	0.18	0.00	0.01	0.00	0.00	0.13	0.00	0.00	0.00	0.01	0.00	0.00
15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.41	0.06	0.00	0.00	0.00
17	0.00	0.00	0.00	1.35	0.00	0.00	0.00	1.52	0.00	1.07	0.00	0.00
18	0.00	0.29	0.36	0.00	0.00	0.00	0.00	0.45	0.00	0.01	0.74	0.00
19	0.00	0.05	0.41	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.34	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
21	0.00	0.00	0.00	0.65	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
22	0.00	0.16	0.00	0.00	0.24	0.03	0.00	0.99	0.00	0.01	0.16	0.00
23	0.00	0.31	0.00	0.01	0.00	0.01	0.00	1.49	0.39	0.00	0.20	0.00
24	0.05	0.01	0.00	0.06	0.11	0.00	0.05	0.02	0.00	0.00	0.81	0.00
25	0.00	0.00	0.57	0.77	0.01	0.00	0.30	0.13	0.00	0.11	0.00	0.00
26	0.04	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	1.91
27	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.89
28	0.06	0.00	0.00	0.00	0.00	0.03	0.00	1.47	0.00	0.01	0.00	0.04
29	0.00	0.00	0.00	---	---	1.14	0.00	0.15	0.14	1.45	0.00	1.74
30	0.00	0.16	0.06	---	---	0.00	0.00	0.00	0.17	0.02	0.00	1.44
31	0.04	---	0.20	---	---	0.00	---	0.10	---	0.01	0.00	---
Total	0.76	5.38	5.63	---	---	2.71	0.96	7.11	2.55	3.42	4.01	6.09

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