Water-Data Report 2012

02087324 CRABTREE CREEK AT U.S. HIGHWAY 1 AT RALEIGH, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°48′40″, long 78°36′39″ referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on upstream side of bridge on U.S. Highway 1, 2.7 mi northeast of Raleigh, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--121 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.27 ft above National Geodetic Vertical Datum of 1929. Prior to November 11, 2009, gage located 40 ft downstram at same datum. Prior to August 8, 1999, at site 40 ft upstream at datum 183.27 ft above National Geodetic Vertical Datum of 1929. Satellite and telephone telemetry at streamgage.

REMARKS.--No estimated daily discharge. Records fair. Maximum gage height for period of record from high-water mark in gage well. Minimum discharge for period of record also occurred October 8, 9, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 17.98 ft, discharge, about 13,500 ft^3/s.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02087324, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02087324.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	81	117	145	73	59	76	150	44	97	11	96	31
2	58	86	108	75	55	69	135	40	249	12	75	75
3	46	71	85	59	54	354	100	35	122	32	56	585
4	37	815	71	52	52	396	88	32	88	321	44	341
5	33	531	63	48	107	251	158	231	63	148	39	124
6	30	288	56	46	82	155	126	982	49	46	33	411
7	27	165	73	45	68	116	97	336	41	25	66	267
8	25	116	115	43	61	95	79	179	34	19	145	406
9	23	88	92	54	56	101	68	245	29	17	126	383
10	22	73	78	55	52	91	60	243	25	181	66	155
11	26	65	66	99	49	75	52	133	60	142	109	98
12	29	56	59	158	47	68	46	94	174	90	121	69
13	29	51	52	113	44	62	42	71	295	58	78	54
14	28	48	50	88	42	57	40	90	159	43	55	47
15	27	46	48	73	42	54	38	261	105	34	174	40
16	23	45	51	63	66	51	38	187	72	29	177	58
17	21	59	138	59	75	68	36	125	53	26	50	65
18	24	76	96	76	62	428	36	97	43	23	39	435
19	504	63	79	65	120	279	37	73	35	57	239	549
20	310	59	71	61	277	477	37	59	32	134	209	307
21	176	55	67	162	179	1,050	37	50	63	101	127	183
22	114	51	70	203	129	621	238	45	116	465	106	117
23	84	77	67	138	139	385	181	41	58	236	103	83
24	68	62	63	110	142	515	110	44	33	192	68	61
25	57	53	58	90	146	452	80	41	27	136	206	49
26	50	48	53	76	98	396	101	36	23	93	101	42
27	47	45	216	147	89	273	88	36	16	67	71	38
28	43	43	212	119	91	170	66	37	14	118	61	35
29	172	358	121	89	81	122	55	36	13	477	51	185
30	120	228	96	75	---	96	49	102	12	276	42	293
31	113	---	80	67	---	90	---	68	---	127	35	---
Total	2,447	3,938	2,699	2,681	2,564	7,493	2,468	4,093	2,200	3,736	2,968	5,586
Mean	78.9	131	87.1	86.5	88.4	242	82.3	132	73.3	121	95.7	186
Max	504	815	216	203	277	1,050	238	982	295	477	239	585
Min	21	43	48	43	42	51	36	32	12	11	33	31
Cfsm	0.65	1.08	0.72	0.71	0.73	2.00	0.68	1.09	0.61	1.00	0.79	1.54
In.	0.75	1.21	0.83	0.82	0.79	2.30	0.76	1.26	0.68	1.15	0.91	1.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	115	127	138	188	175	226	147	87.0	125	95.4	110	192
Max	427	549	402	495	483	494	382	180	674	198	400	1,162
(WY)	(2003)	(2007)	(2010)	(1998)	(1998)	(1998)	(2003)	(2010)	(2006)	(1997)	(2004)	(1999)
Min	26.0	23.2	44.2	45.0	59.5	50.5	57.4	21.3	21.3	30.7	28.6	14.2
(WY)	(2010)	(1992)	(2002)	(2001)	(1991)	(2006)	(1995)	(2002)	(1999)	(1993)	(2007)	(1990)

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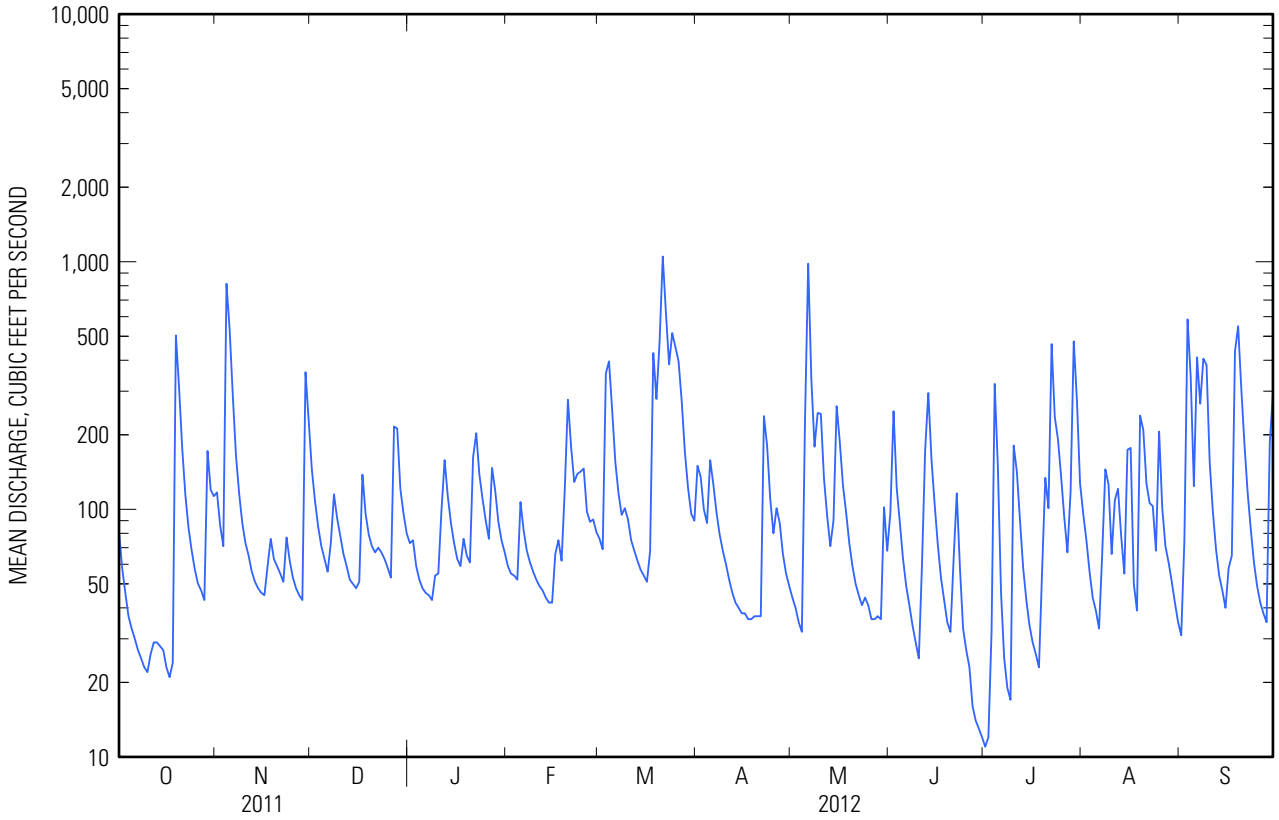
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1990 - 2012	
Annual total	39,008		42,873			
Annual mean	107		117		144	
Highest annual mean					261	2003
Lowest annual mean					96.7	2002
Highest daily mean	2,190	Aug 6	1,050	Mar 21	7,730	Sep 6, 1996
Lowest daily mean	11	Jul 3	11	Jul 1	1.9	Oct 8, 1994
Annual seven-day minimum	13	Jul 17	14	Jun 26	2.3	Oct 2, 1994
Maximum peak flow			2,470	Sep 6	12,700	Sep 6, 1996
Maximum peak stage			10.09	Sep 6	[a]18.23	Sep 6, 1996
Instantaneous low flow			8.0	Jul 1	[a]1.9	Oct 7, 1994
Annual runoff (cfsm)	0.883		0.968		1.19	
Annual runoff (inches)	11.99		13.18		16.18	
10 percent exceeds	228		263		313	
50 percent exceeds	59		71		68	
90 percent exceeds	22		34		20	

[a] See Remarks.