



Water-Data Report 2010

0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°50'43", long 78°43'28" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on upstream side of bridge at Ebenezer Church Road (Secondary Road 1649), 0.1 mi downstream from Sycamore Creek, and 6.6 mi northwest of Raleigh.

DRAINAGE AREA.--76 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1987 to September 1992, May 1997 to current year. December 1987 to September 1992, published as "Crabtree Creek at Secondary Road 1649 near Raleigh, NC".

GAGE.--Water-stage recorder. Datum of gage is 225.00 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by flood-control dam upstream. Minimum discharge for period of record and current water year due to regulation.

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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	26	64	40	65	80	49	125	15	62	8.3	28	e16
2	20	76	190	56	102	45	87	14	75	7.4	28	e13
3	16	54	1,370	47	241	72	64	14	70	6.9	22	e11
4	13	38	675	41	275	81	51	13	43	6.6	20	e9.2
5	12	30	468	37	630	68	44	12	33	6.6	159	e8.2
6	12	23	302	34	1,260	59	38	12	26	7.2	260	e7.2
7	12	19	187	31	675	53	33	12	24	7.0	134	e7.9
8	11	16	128	32	384	47	29	12	20	7.1	89	e7.9
9	10	14	571	29	246	44	84	11	18	7.3	63	e6.9
10	9.7	16	431	27	242	39	77	11	18	18	45	e7.6
11	9.5	931	247	26	168	54	60	11	15	12	34	e8.6
12	10	1,150	153	25	129	95	48	11	12	9.7	31	e9.2
13	12	786	125	24	116	245	39	11	58	9.9	26	e9.2
14	13	404	126	23	105	222	32	11	62	23	20	e8.6
15	17	211	100	23	91	167	28	10	32	15	18	e7.6
16	16	129	81	22	82	114	25	12	33	12	16	e8.6
17	15	89	65	282	71	86	23	138	34	18	14	e8.9
18	15	71	54	446	63	68	20	279	26	24	24	e8.2
19	14	104	359	267	56	56	18	228	21	18	46	e8.2
20	12	82	289	168	51	48	17	153	17	17	92	e8.9
21	11	65	193	132	47	42	19	93	15	26	71	e8.6
22	11	52	130	365	54	39	28	91	13	17	52	e7.9
23	12	111	94	227	71	35	21	392	13	14	113	e7.2
24	12	158	71	154	68	31	19	280	11	11	138	e7.2
25	13	123	112	566	78	30	32	158	8.1	9.6	121	e6.9
26	13	91	247	415	72	30	31	102	7.5	9.6	83	33
27	13	69	184	248	62	27	25	71	7.5	9.9	56	208
28	15	53	131	154	56	25	20	54	7.7	14	40	154
29	15	44	94	106	---	505	18	148	8.1	15	31	200
30	14	40	70	99	---	331	17	78	11	47	e25	1,320
31	14	---	70	85	---	194	---	58	---	28	e20	---
Total	418.2	5,113	7,357	4,256	5,575	3,001	1,172	2,515	800.9	442.1	1,919	2,133.7
Mean	13.5	170	237	137	199	96.8	39.1	81.1	26.7	14.3	61.9	71.1
Max	26	1,150	1,370	566	1,260	505	125	392	75	47	260	1,320
Min	9.5	14	40	22	47	25	17	10	7.5	6.6	14	6.9
Cfsm	0.18	2.24	3.12	1.81	2.62	1.27	0.51	1.07	0.35	0.19	0.81	0.94
In.	0.20	2.50	3.60	2.08	2.73	1.47	0.57	1.23	0.39	0.22	0.94	1.04

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	62.5	84.7	91.5	114	120	160	95.3	51.6	71.9	59.0	66.0	99.2
Max	276	410	255	370	364	393	260	144	458	123	246	743
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(2006)	(2008)	(2004)	(1999)
Min	13.5	12.5	14.4	23.1	16.2	25.0	32.5	9.30	9.34	9.15	6.74	5.35
(WY)	(2010)	(2008)	(1991)	(2001)	(1991)	(1988)	(1992)	(2002)	(1999)	(1988)	(1990)	(1990)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1988 - 2010 ^a	
Annual total	34,368.8		34,702.9			
Annual mean	94.2		95.1		92.6	
Highest annual mean					170	2003
Lowest annual mean					46.6	1992
Highest daily mean	1,370	Dec 3	1,370	Dec 3	3,400	Jun 14, 2006
Lowest daily mean	7.2	Jul 5	6.6	Jul 4	2.1	Dec 18, 1990
Annual seven-day minimum	8.0	Jul 3	7.0	Jul 3	2.6	Dec 12, 1990
Maximum peak flow			2,350	Dec 3	8,120	Jun 14, 2006
Maximum peak stage			13.60	Dec 3	22.30	Jun 14, 2006
Instantaneous low flow			Not Determined		^b 1.5	Oct 12, 1997
Annual runoff (cfsm)	1.24		1.25		1.22	
Annual runoff (inches)	16.82		16.99		16.55	
10 percent exceeds	225		241		209	
50 percent exceeds	38		34		37	
90 percent exceeds	12		9.4		9.4	

^a See Period of Record.

^b See Remarks.

