

Water-Data Report 2007

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 NGVD of 1929, from levels. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by flood-control dams upstream. Minimum discharge for period of record due to regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,120 ft³/s, June 14, 2006; maximum gage height, 22.30 ft on June 14, 2006, from flooding as a result of Tropical Storm Alberto.

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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	76	57	63	95	45	50	30	23	10	26	70	8.9
2	56	48	70	125	85	409	30	20	9.9	21	52	8.4
3	43	40	58	99	75	359	27	17	71	16	39	8.4
4	35	33	73	79	64	208	28	16	71	13	29	9.2
5	28	28	63	67	53	127	24	17	50	11	25	8.8
6	73	26	53	425	44	85	20	17	51	9.8	21	8.5
7	97	317	47	368	40	64	24	16	44	9.1	17	8.4
8	146	853	40	392	36	51	22	14	35	9.0	15	8.0
9	128	496	35	293	33	44	21	26	28	8.7	13	7.7
10	92	270	33	179	30	39	19	44	40	8.5	16	9.3
11	67	153	31	118	27	35	21	37	30	32	13	8.7
12	56	608	29	88	26	31	246	162	24	76	11	8.8
13	45	583	28	71	28	29	240	174	58	49	12	8.9
14	35	346	27	60	130	27	156	85	68	37	11	25
15	28	193	26	53	121	26	718	62	45	29	10	52
16	24	1,110	25	47	95	661	999	47	35	24	9.7	18
17	33	931	24	39	74	873	480	36	32	36	10	15
18	191	572	23	40	59	447	248	30	27	576	9.4	13
19	149	330	23	57	47	240	142	25	21	248	9.4	12
20	120	181	22	51	41	142	98	21	26	127	11	13
21	92	144	21	50	37	98	74	19	32	75	9.8	16
22	69	1,890	63	333	34	76	59	16	24	51	9.7	14
23	60	1,260	253	257	29	63	48	15	20	37	31	13
24	48	767	170	169	25	53	40	14	17	28	16	12
25	38	420	683	116	41	46	35	13	16	21	11	10
26	31	235	884	84	90	40	31	12	14	17	10	9.2
27	33	146	505	65	73	37	34	11	37	20	15	8.8
28	175	103	282	55	60	34	38	11	47	115	27	8.4
29	136	80	162	47	---	36	31	12	40	338	9.7	7.5
30	94	66	109	39	---	37	27	11	33	159	9.6	7.5
31	71	---	81	35	---	32	---	11	---	99	9.5	---
Total	2,369	12,286	4,006	3,996	1,542	4,499	4,010	1,034	1,055.9	2,326.1	561.8	366.4
Mean	76.4	410	129	129	55.1	145	134	33.4	35.2	75.0	18.1	12.2
Max	191	1,890	884	425	130	873	999	174	71	576	70	52
Min	24	26	21	35	25	26	19	11	9.9	8.5	9.4	7.5
Cfsm	1.01	5.39	1.70	1.70	0.72	1.91	1.76	0.44	0.46	0.99	0.24	0.16
In.	1.16	6.01	1.96	1.96	0.75	2.20	1.96	0.51	0.52	1.14	0.27	0.18

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	68.2	85.9	80.1	118	123	156	99.0	48.4	75.3	60.1	68.1	92.8
Max	276	410	255	370	364	393	260	144	458	113	246	743
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(2006)	(1997)	(2004)	(1999)
Min	13.6	23.8	14.4	23.1	16.2	25.0	32.5	9.30	9.34	9.15	6.74	5.35
(WY)	(1992)	(1992)	(1991)	(2001)	(1991)	(1988)	(1992)	(2002)	(1999)	(1988)	(1990)	(1990)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007 ^a	
Annual total	48,197.2		38,052.2			
Annual mean	132		104		93.1	
Highest annual mean					170	2003
Lowest annual mean					46.6	1992
Highest daily mean	3,400	Jun 14	1,890	Nov 22	3,400	Jun 14, 2006
Lowest daily mean	9.5	Aug 29	7.5	Sep 29	2.1	Dec 18, 1990
Annual seven-day minimum	11	Aug 23	8.4	Sep 3	2.6	Dec 12, 1990
Maximum peak flow			2,660	Nov 22	8,120	Jun 14, 2006
Maximum peak stage			13.51	Nov 22	22.30	Jun 14, 2006
Instantaneous low flow			3.2	Sep 9	^b 1.5	Oct 12, 1997
Annual runoff (cfsm)	1.74		1.37		1.22	
Annual runoff (inches)	23.59		18.63		16.64	
10 percent exceeds	306		250		208	
50 percent exceeds	48		38		37	
90 percent exceeds	15		10		9.4	

^a See Period of Record.

^b See Remarks.

