

## 02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC

LOCATION.--Lat 35°48'40", long 78°36'39", Wake County, Hydrologic Unit 03020201, on downstream 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<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 182.27 ft above NGVD of 1929. Prior to Aug. 8, 1999, at site 40 ft upstream at datum 183.27 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Maximum gage height for period of record from high-water mark in gage well. Minimum discharge for period of record also occurred Oct. 8, 9, 1994. Minimum discharge for current water year also occurred June 4, 22.

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

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	113	60	57	91	135	154	76	29	48	294	445
2	50	88	53	55	83	117	174	258	26	49	381	295
3	45	73	47	54	301	106	138	516	23	118	350	183
4	42	62	54	54	266	97	112	352	81	160	186	119
5	40	56	184	65	187	87	92	211	96	74	138	86
6	38	72	155	83	192	96	78	142	58	52	324	70
7	e41	103	123	67	541	111	71	104	49	40	204	126
8	e54	87	96	61	314	107	66	81	e41	33	127	356
9	80	68	77	71	209	87	61	68	e34	29	89	435
10	71	57	233	73	162	87	57	59	e120	49	65	235
11	66	50	617	66	133	78	55	51	233	37	54	147
12	62	47	325	63	239	74	153	45	85	69	185	103
13	57	43	211	62	262	67	226	55	47	228	614	79
14	64	39	719	59	201	64	187	48	38	91	2,110	101
15	121	33	514	56	197	295	148	41	59	67	1,720	160
16	78	31	313	55	250	703	113	37	57	46	1,320	94
17	66	32	277	51	217	586	91	34	39	35	712	386
18	89	34	252	108	186	402	79	31	31	162	363	805
19	61	209	186	92	158	332	71	57	27	153	214	424
20	54	288	144	81	137	235	62	61	26	117	147	226
21	49	165	115	76	123	176	55	40	22	78	133	149
22	45	119	100	72	107	137	51	33	21	142	295	107
23	41	91	94	64	96	110	47	30	31	457	191	82
24	37	76	100	57	85	95	43	32	79	e230	129	68
25	35	65	90	57	76	85	41	30	47	142	94	58
26	37	54	79	65	75	80	76	28	84	98	74	52
27	40	47	73	65	150	75	111	28	73	74	61	49
28	102	55	69	78	170	71	63	26	62	92	53	133
29	502	96	67	89	164	67	53	23	79	208	58	133
30	240	70	65	102	---	63	48	52	60	737	e950	99
31	157	---	62	104	---	67	---	33	---	495	755	---
TOTAL	2,518	2,423	5,554	2,162	5,372	4,892	2,776	2,682	1,757	4,410	12,390	5,805
MEAN	81.2	80.8	179	69.7	185	158	92.5	86.5	58.6	142	400	194
MAX	502	288	719	108	541	703	226	516	233	737	2,110	805
MIN	35	31	47	51	75	63	41	23	21	29	53	49
CFSM	0.67	0.67	1.48	0.58	1.53	1.30	0.76	0.72	0.48	1.18	3.30	1.60
IN.	0.77	0.74	1.71	0.66	1.65	1.50	0.85	0.82	0.54	1.36	3.81	1.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	135	102	119	224	204	239	154	77.8	110	96.1	115	215			
MAX	427	255	335	495	483	494	382	128	257	198	400	1,162			
(WY)	(2003)	(1993)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(1990)	(1997)	(2004)	(1999)			
MIN	30.8	23.2	44.2	45.0	59.5	103	57.4	21.3	21.3	30.7	31.7	14.2			
(WY)	(1992)	(1992)	(2002)	(2001)	(1991)	(2000)	(1995)	(2002)	(1999)	(1993)	(1993)	(1990)			

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	75,058		52,741		150	
ANNUAL MEAN	206		144		96.7	
HIGHEST ANNUAL MEAN					261	2003
LOWEST ANNUAL MEAN					96.7	2002
HIGHEST DAILY MEAN	2,330	Apr 10	2,110	Aug 14	7,730	Sep 6, 1996
LOWEST DAILY MEAN	31	Nov 16	21	Jun 22	1.9	Oct 8, 1994
ANNUAL SEVEN-DAY MINIMUM	37	Nov 12	28	May 23	2.3	Oct 2, 1994
MAXIMUM PEAK FLOW			2,730	Aug 13	12,700	Sep 6, 1996
MAXIMUM PEAK STAGE			10.90	Aug 13	18.23*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			18*	May 30	1.9*	Oct 7, 1994
ANNUAL RUNOFF (CFSM)	1.70		1.19		1.24	
ANNUAL RUNOFF (INCHES)	23.08		16.21		16.84	
10 PERCENT EXCEEDS	452		295		326	
50 PERCENT EXCEEDS	115		80		71	
90 PERCENT EXCEEDS	49		39		21	

\* See REMARKS.

e Estimated.

