

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

LOCATION.--Lat 35°48'41", long 78°36'42", 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.--No estimated daily discharges. Records good. 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 Oct. 10.

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	232	52	391	233	749	256	76	129	192	136	286
2	21	157	49	284	173	825	182	68	93	566	258	147
3	21	115	46	256	134	503	142	62	78	315	138	112
4	21	96	50	237	152	321	120	55	86	170	97	163
5	21	108	923	178	138	283	122	64	81	119	291	244
6	20	446	728	143	140	995	104	97	65	91	368	133
7	19	324	553	119	693	676	362	80	293	74	215	97
8	19	217	357	102	463	409	470	69	552	61	1,150	159
9	20	151	240	92	283	270	1,530	62	252	54	683	152
10	34	114	179	85	297	199	2,330	55	158	54	540	107
11	2,460	133	300	73	262	159	1,850	51	111	47	276	86
12	2,720	487	294	65	190	135	1,000	48	109	41	180	73
13	1,560	806	756	62	147	123	567	43	91	37	132	66
14	1,040	451	933	59	120	145	352	37	75	204	121	61
15	593	270	526	56	122	115	237	45	139	113	113	56
16	760	198	335	53	122	374	178	76	332	120	238	65
17	472	485	221	60	142	418	143	49	303	91	351	92
18	279	610	164	54	222	287	115	51	183	69	419	370
19	178	369	143	51	308	207	106	154	527	101	249	527
20	124	233	380	51	265	1,640	96	100	737	52	120	292
21	253	166	343	50	213	1,440	91	76	501	46	91	190
22	264	131	227	49	917	738	95	436	262	40	200	186
23	188	106	167	52	1,240	451	77	540	164	94	206	454
24	133	89	305	51	651	286	71	340	118	82	127	356
25	103	81	703	48	385	206	117	266	92	66	100	225
26	83	71	514	50	254	160	253	274	77	56	82	154
27	69	65	315	49	830	132	181	203	66	55	69	114
28	198	61	209	46	1,410	115	121	145	62	44	59	92
29	496	57	155	48	---	117	100	124	76	197	52	74
30	660	54	123	185	---	273	86	112	124	251	45	61
31	393	---	109	339	---	374	---	115	---	151	178	---
TOTAL	13,245	6,883	10,399	3,438	10,506	13,125	11,454	3,973	5,936	3,653	7,284	5,194
MEAN	427	229	335	111	375	423	382	128	198	118	235	173
MAX	2,720	806	933	391	1,410	1,640	2,330	540	737	566	1,150	527
MIN	19	54	46	46	120	115	71	37	62	37	45	56
CFSM	3.53	1.90	2.77	0.92	3.10	3.50	3.16	1.06	1.64	0.97	1.94	1.43
IN.	4.07	2.12	3.20	1.06	3.23	4.04	3.52	1.22	1.82	1.12	2.24	1.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

MEAN	140	104	115	236	205	246	159	77.1	114	92.9	94.6	217
MAX	427	255	335	495	483	494	382	128	257	198	235	1,162
(WY)	(2003)	(1993)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(1990)	(1997)	(2003)	(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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1990 - 2003	
ANNUAL TOTAL	61,399		95,090		150	
ANNUAL MEAN	168		261		261	
HIGHEST ANNUAL MEAN					261	
LOWEST ANNUAL MEAN					96.7	
HIGHEST DAILY MEAN	2,720	Oct 12	2,720	Oct 12	7,730	Sep 6, 1996
LOWEST DAILY MEAN	11	Jun 12	19	Oct 7	1.9	Oct 8, 1994
ANNUAL SEVEN-DAY MINIMUM	11	Jun 11	20	Oct 3	2.3	Oct 2, 1994
MAXIMUM PEAK FLOW			5,040	Oct 11	12,700	Sep 6, 1996
MAXIMUM PEAK STAGE			14.59	Oct 11	18.23*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			16*	Oct 7	1.9*	Oct 7, 1994
ANNUAL RUNOFF (CFSM)	1.39		2.15		1.24	
ANNUAL RUNOFF (INCHES)	18.88		29.23		16.89	
10 PERCENT EXCEEDS	475		558		329	
50 PERCENT EXCEEDS	56		143		70	
90 PERCENT EXCEEDS	15		51		20	

\* See REMARKS.

