

## 02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC

LOCATION.--Lat 35°50'15", long 78°40'26", Wake County, Hydrologic Unit 030200201, on left bank at upstream side of bridge on U.S. Highway 70, 0.6 mi upstream from Mine Creek, 4.4 mi northwest of Raleigh.

DRAINAGE AREA.--97.6 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1997 to current year. Unpublished records of gage height for water years 1988 to 1997 are available in the files of U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 203.72 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record and current water year also occurred June 16, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 27.69 ft, discharge, about 11,700 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	96	14	15	64	16	1110	17	20	16	27	741
2	15	95	14	14	52	55	497	15	20	11	29	317
3	15	94	14	23	43	125	245	15	11	9.0	22	171
4	15	94	13	32	39	87	150	32	8.6	8.3	14	109
5	13	94	13	34	32	62	112	30	7.3	16	13	73
6	40	83	13	150	31	52	91	23	7.5	17	9.8	51
7	26	46	14	220	360	44	76	19	11	10	7.9	36
8	19	12	13	153	342	39	65	18	8.4	8.8	7.1	26
9	16	12	13	110	222	34	57	16	7.5	7.1	7.0	21
10	15	11	26	95	154	34	114	16	7.4	47	7.6	15
11	15	11	217	87	119	29	92	14	6.6	231	7.4	12
12	15	11	56	75	91	26	75	14	5.3	126	8.4	9.8
13	14	12	33	93	74	34	65	17	4.9	81	8.0	7.8
14	89	11	27	80	58	38	57	23	5.3	59	7.5	17
15	171	12	22	66	48	34	54	15	6.1	42	30	27
16	99	11	20	53	42	31	60	13	5.6	29	32	316
17	76	12	21	46	37	65	44	13	5.8	20	28	252
18	55	12	53	39	33	85	35	18	6.3	15	78	148
19	42	12	31	364	29	68	53	16	6.2	16	69	127
20	34	12	22	910	27	64	77	13	6.2	86	34	91
21	28	12	19	450	27	87	52	13	6.0	50	16	64
22	26	12	16	293	25	91	46	12	5.9	23	12	46
23	23	11	15	856	22	67	37	12	5.6	25	10	35
24	21	34	26	800	21	55	32	12	5.8	23	14	26
25	20	35	19	530	21	48	39	11	5.8	215	12	20
26	18	23	17	328	20	71	29	10	14	298	36	17
27	16	18	16	200	21	375	22	10	37	197	44	19
28	15	16	17	142	19	238	21	11	58	119	74	16
29	30	15	15	110	---	155	22	9.7	77	83	59	13
30	98	15	14	90	---	113	18	14	25	55	216	11
31	97	---	16	75	---	557	---	12	---	37	572	---
TOTAL	1191	944	839	6533	2073	2879	3447	483.7	407.1	1980.2	1511.7	2834.6
MEAN	38.42	31.47	27.06	210.7	74.04	92.87	114.9	15.60	13.57	63.88	48.76	94.49
MAX	171	96	217	910	360	557	1110	32	77	298	572	741
MIN	13	11	13	14	19	16	18	9.7	4.9	7.1	7.0	7.8
CFSM	0.39	0.32	0.28	2.16	0.76	0.95	1.18	0.16	0.14	0.65	0.50	0.97
IN.	0.45	0.36	0.32	2.49	0.79	1.10	1.31	0.18	0.16	0.75	0.58	1.08

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002	2000	1999	2002	1999	1999	1997
MEAN	62.03	46.08	64.66	221.3	175.9	206.3	113.8	42.20	55.62	76.98	74.55	214.0
MAX	160	80.8	92.4	422	412	429	166	73.1	170	166	161	939
(WY)	2000	1998	2000	1998	1998	1998	2001	1998	2001	1997	2000	1999
MIN	22.2	31.5	27.1	33.7	74.0	75.4	74.4	15.6	13.1	26.0	23.7	23.3
(WY)	2001	2002	2002	2001	2002	2000	1999	2002	1999	1999	1997	1997

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

ANNUAL TOTAL	32714.7	25123.3	
ANNUAL MEAN	89.63	68.83	114.8
HIGHEST ANNUAL MEAN			155
LOWEST ANNUAL MEAN			68.8
HIGHEST DAILY MEAN	1510	Mar 21	1110
LOWEST DAILY MEAN	8.3	Jul 23	4.9
ANNUAL SEVEN-DAY MINIMUM	11	Nov 10	5.6
MAXIMUM PEAK FLOW			2300
MAXIMUM PEAK STAGE			13.01
INSTANTANEOUS LOW FLOW			1.6*
ANNUAL RUNOFF (CFSM)	0.92		0.71
ANNUAL RUNOFF (INCHES)	12.47		9.58
10 PERCENT EXCEEDS	179		150
50 PERCENT EXCEEDS	36		26
90 PERCENT EXCEEDS	14		9.8

\* See REMARKS.

02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC--Continued

