

02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC

LOCATION.--Lat 35°50'17", long 78°40'27", 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 mi².

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 Unpublished records of gage height for water years 1988 to 1997 are available in the files of U.S. Geological Survey.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.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record 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 ft³/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	30	85	46	35	76	114	130	46	18	43	249	417
2	26	65	39	33	67	98	153	167	14	41	e322	268
3	22	53	34	32	231	88	121	409	11	120	268	161
4	19	44	36	33	218	78	96	298	49	122	151	105
5	18	39	141	41	156	70	76	178	74	65	113	75
6	18	48	126	56	151	78	61	126	47	47	266	59
7	20	67	101	45	440	87	52	93	39	34	166	117
8	28	63	78	39	265	80	48	71	32	25	104	301
9	45	52	63	46	173	66	43	56	27	e22	72	375
10	38	43	179	50	130	65	39	47	77	e44	50	214
11	39	37	505	44	103	58	37	38	152	e34	40	158
12	36	35	270	42	171	53	95	33	58	63	128	124
13	33	32	170	40	210	45	168	45	34	144	468	82
14	36	27	597	38	164	42	155	34	27	77	1,790	73
15	71	21	441	36	155	202	124	26	43	55	1,410	110
16	48	21	263	34	198	591	96	22	40	38	1,130	83
17	41	23	226	31	180	510	77	21	28	26	604	360
18	46	23	207	72	155	338	64	18	21	144	311	686
19	34	150	152	70	133	283	55	25	17	137	178	371
20	30	208	116	57	115	198	44	41	15	106	120	204
21	25	131	91	49	100	146	39	24	12	72	113	e130
22	22	95	76	45	83	112	34	18	10	78	267	e90
23	19	70	66	42	72	89	31	18	35	352	167	e68
24	17	55	69	37	64	74	27	20	53	197	109	e52
25	15	45	65	37	57	66	24	18	36	122	77	e45
26	15	36	55	45	53	60	44	16	62	84	56	e40
27	17	31	50	43	100	55	63	15	65	67	42	e37
28	45	41	46	52	133	50	41	15	52	77	33	e80
29	293	71	43	65	135	48	34	11	66	e190	31	e105
30	167	52	42	81	---	46	30	25	54	648	809	e81
31	116	---	39	87	---	50	---	19	---	424	619	---
TOTAL	1,429	1,763	4,432	1,457	4,288	3,940	2,101	1,993	1,268	3,698	10,263	5,071
MEAN	46.1	58.8	143	47.0	148	127	70.0	64.3	42.3	119	331	169
MAX	293	208	597	87	440	591	168	409	152	648	1,790	686
MIN	15	21	34	31	53	42	24	11	10	22	31	37
CFSM	0.47	0.60	1.46	0.48	1.51	1.30	0.72	0.66	0.43	1.22	3.39	1.73
IN.	0.54	0.67	1.69	0.56	1.63	1.50	0.80	0.76	0.48	1.41	3.91	1.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	101	70.1	111	178	195	218	136	52.6	65.0	82.8	117	197
MAX	352	201	308	422	412	429	310	92.8	170	166	331	939
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2001)	(1997)	(2004)	(1999)
MIN	22.2	31.5	27.1	33.7	74.0	75.4	70.0	15.6	13.1	26.0	23.7	23.3
(WY)	(2001)	(2002)	(2002)	(2001)	(2002)	(2000)	(2004)	(2002)	(1999)	(1999)	(1997)	(1997)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	59,001		41,703		129	
ANNUAL MEAN	162		114		68.8	
HIGHEST ANNUAL MEAN					213	2003
LOWEST ANNUAL MEAN					68.8	2002
HIGHEST DAILY MEAN	2,040	Apr 10	1,790	Aug 14	5,030	Sep 16, 1999
LOWEST DAILY MEAN	15	Oct 25	10	Jun 22	4.9	Jun 13, 2002
ANNUAL SEVEN-DAY MINIMUM	19	Oct 21	16	May 23	5.6	Jun 12, 2002
MAXIMUM PEAK FLOW			2,760	Aug 14	7,080	Sep 16, 1999
MAXIMUM PEAK STAGE			14.03	Aug 14	21.50	Sep 16, 1999
INSTANTANEOUS LOW FLOW			4.8	May 29	1.6*	Jun 14, 2002
ANNUAL RUNOFF (CFSM)	1.66		1.17		1.32	
ANNUAL RUNOFF (INCHES)	22.49		15.89		17.92	
10 PERCENT EXCEEDS	355		253		287	
50 PERCENT EXCEEDS	88		62		55	
90 PERCENT EXCEEDS	32		24		15	

* See REMARKS.

e Estimated.

