

02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC

LOCATION.--Lat 35°48'40", long 78°36'43", 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 mi².

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 fair. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 17.98 ft, discharge, about 13,500 ft³/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	18	120	21	22	80	28	1470	24	28	21	28	948
2	18	118	21	22	66	116	743	21	33	21	25	452
3	18	116	20	30	52	211	408	20	17	16	26	248
4	18	114	20	43	48	110	234	53	15	14	19	131
5	17	118	20	44	43	70	145	40	13	33	17	79
6	94	109	20	299	43	55	108	27	30	31	16	53
7	35	50	20	406	560	47	83	24	27	15	15	42
8	23	23	20	255	491	42	68	23	14	13	14	35
9	20	18	20	165	334	38	57	21	13	12	14	32
10	19	17	39	132	227	37	202	20	13	76	14	28
11	19	18	498	116	161	35	117	20	12	439	14	25
12	20	18	86	92	113	33	82	18	11	184	14	23
13	19	18	39	149	91	43	66	22	11	82	14	21
14	203	19	33	103	69	42	56	31	11	58	13	32
15	324	19	29	75	56	39	51	20	12	40	118	64
16	134	19	26	59	48	36	58	18	11	31	70	441
17	87	19	27	49	44	100	42	17	11	25	62	374
18	57	19	75	44	41	110	36	26	12	22	130	194
19	41	19	38	521	37	75	53	22	12	31	113	155
20	35	20	28	1220	36	73	97	18	12	132	36	103
21	31	20	25	648	35	119	51	17	11	80	21	63
22	29	20	23	452	34	103	43	17	11	30	17	49
23	27	20	23	1120	32	71	37	16	11	33	16	40
24	26	89	36	1040	31	57	32	16	12	28	20	34
25	24	83	27	715	30	48	37	16	11	368	21	30
26	24	37	24	479	30	97	32	15	31	491	138	29
27	21	26	23	339	30	527	28	14	58	285	59	31
28	20	24	23	236	30	353	26	15	118	141	78	29
29	22	23	22	162	---	212	27	14	144	79	49	25
30	123	22	21	117	---	137	24	15	30	46	439	23
31	122	---	22	94	---	591	---	20	---	35	774	---
TOTAL	1688	1355	1369	9248	2892	3655	4513	660	755	2912	2404	3833
MEAN	54.45	45.17	44.16	298.3	103.3	117.9	150.4	21.29	25.17	93.94	77.55	127.8
MAX	324	120	498	1220	560	591	1470	53	144	491	774	948
MIN	17	17	20	22	30	28	24	14	11	12	13	21
CFSM	0.45	0.37	0.36	2.47	0.85	0.97	1.24	0.18	0.21	0.78	0.64	1.06
IN.	0.52	0.42	0.42	2.84	0.89	1.12	1.39	0.20	0.23	0.90	0.74	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	115.3	92.93	96.16	244.8	190.8	230.2	139.8	73.03	107.1	90.47	83.53	219.5	
MAX	370	255	176	495	483	494	355	122	257	198	176	1162	
(WY)	1996	1993	1997	1998	1998	1998	1993	1996	1990	1997	2000	1999	
MIN	30.8	23.2	42.5	45.0	59.5	103	57.4	23.5	21.3	30.7	31.7	14.2	
(WY)	1992	1992	2002	2001	1991	2000	1995	2002	1999	1993	1993	1990	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

ANNUAL TOTAL	39515	35284		
ANNUAL MEAN	108.3	96.67	140.9	
HIGHEST ANNUAL MEAN			242	1996
LOWEST ANNUAL MEAN			91.8	2002
HIGHEST DAILY MEAN	1670	Mar 21	1470	Apr 1
LOWEST DAILY MEAN	16	Sep 16	11	Jun 12
ANNUAL SEVEN-DAY MINIMUM	17	Sep 13	11	Jun 11
MAXIMUM PEAK FLOW			2460	Apr 1
MAXIMUM PEAK STAGE			10.47	Apr 1
INSTANTANEOUS LOW FLOW			8.2	Jun 13
ANNUAL RUNOFF (CFSM)	0.89		0.80	
ANNUAL RUNOFF (INCHES)	12.15		10.85	
10 PERCENT EXCEEDS	208		230	
50 PERCENT EXCEEDS	49		33	
90 PERCENT EXCEEDS	20		15	

* See REMARKS.

02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC--Continued

