

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 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 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 Sept. 12, 19.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	37	147	49	137	481	147	97	25	22	240	19
2	96	36	112	47	113	292	186	65	89	23	137	17
3	76	36	87	47	179	192	248	50	56	20	95	16
4	177	73	73	47	261	139	204	44	44	18	65	15
5	156	87	64	47	198	112	151	41	38	18	58	14
6	109	58	60	47	150	94	111	233	39	18	45	15
7	80	49	58	47	121	83	90	124	406	23	33	15
8	64	45	55	44	101	517	264	81	658	329	28	15
9	52	41	70	46	86	408	593	66	263	204	611	15
10	48	38	375	46	88	249	324	54	156	132	661	14
11	43	37	371	45	73	175	214	48	105	85	407	14
12	40	239	249	44	62	151	152	47	76	58	270	14
13	418	587	171	48	59	116	278	59	60	42	188	15
14	338	271	123	769	61	127	201	45	48	41	250	19
15	245	172	94	649	64	100	143	40	41	32	326	19
16	162	121	78	415	64	239	108	48	35	27	158	16
17	108	91	71	248	61	853	90	40	30	23	168	18
18	81	76	66	166	57	601	79	35	26	20	105	14
19	70	67	64	119	53	365	69	53	22	27	77	14
20	60	61	62	98	51	237	64	89	21	382	59	35
21	54	56	56	104	59	171	59	108	20	188	60	142
22	50	53	53	93	58	138	53	65	19	172	54	60
23	45	235	85	86	55	240	51	55	25	187	54	43
24	47	291	82	75	264	218	48	45	21	101	46	34
25	46	216	67	69	230	178	44	46	18	65	39	30
26	42	150	70	67	166	140	40	39	18	46	32	26
27	40	118	67	64	126	116	39	34	41	34	27	25
28	39	474	60	58	648	353	39	30	88	27	25	22
29	39	285	56	58	---	267	41	28	66	618	23	18
30	38	190	54	224	---	209	42	26	31	463	21	17
31	37	---	52	165	---	171	---	25	---	313	20	---
TOTAL	2,981	4,290	3,152	4,131	3,645	7,732	4,172	1,860	2,585	3,758	4,382	750
MEAN	96.2	143	102	133	130	249	139	60.0	86.2	121	141	25.0
MAX	418	587	375	769	648	853	593	233	658	618	661	142
MIN	37	36	52	44	51	83	39	25	18	18	20	14
CFSM	0.79	1.18	0.84	1.10	1.08	2.06	1.15	0.50	0.71	1.00	1.17	0.21
IN.	0.92	1.32	0.97	1.27	1.12	2.38	1.28	0.57	0.79	1.16	1.35	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	133	105	118	218	199	240	153	76.6	108	97.7	117	203
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	52,669		43,438		148	
ANNUAL MEAN	144		119		96.7	
HIGHEST ANNUAL MEAN					261	2003
LOWEST ANNUAL MEAN					96.7	2002
HIGHEST DAILY MEAN	2,110	Aug 14	853	Mar 17	7,730	Sep 6, 1996
LOWEST DAILY MEAN	21	Jun 22	14	Sep 5	1.9	Oct 8, 1994
ANNUAL SEVEN-DAY MINIMUM	28	May 23	15	Sep 5	2.3	Oct 2, 1994
MAXIMUM PEAK FLOW			1,830	Jun 7	12,700	Sep 6, 1996
MAXIMUM PEAK STAGE			9.18	Jun 7	18.23*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			11*	Sep 11	1.9*	Oct 7, 1994
ANNUAL RUNOFF (CF5M)	1.19		0.984		1.22	
ANNUAL RUNOFF (INCHES)	16.19		13.35		16.61	
10 PERCENT EXCEEDS	295		268		321	
50 PERCENT EXCEEDS	80		64		71	
90 PERCENT EXCEEDS	39		22		21	

* See REMARKS.

