

NEUSE RIVER BASIN

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 sea level. Prior to Aug. 8, 1999, at site 40 ft upstream at datum 183.27 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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 year also occurred Sept. 17-20.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	32	55	32	45	54	1480	41	548	52	62	239
2	64	33	50	31	41	50	1210	38	802	56	48	147
3	55	34	47	30	38	65	579	36	357	45	39	92
4	50	35	44	e32	36	562	358	34	191	93	33	67
5	48	38	42	33	79	373	231	31	131	124	29	53
6	44	37	40	33	57	244	168	30	90	73	26	42
7	40	38	39	32	47	168	133	28	71	55	29	36
8	36	40	38	39	43	131	110	28	56	81	24	29
9	34	38	37	37	40	110	95	28	48	70	21	28
10	34	48	36	33	43	92	84	29	41	214	22	25
11	33	50	36	32	40	80	74	29	38	93	70	23
12	33	50	37	32	62	74	67	29	35	68	454	20
13	33	51	36	32	84	77	62	53	48	57	304	18
14	33	115	36	31	98	69	56	35	346	52	365	18
15	33	65	37	31	88	112	51	43	505	47	187	17
16	33	42	63	31	75	115	49	192	392	43	110	16
17	32	42	290	30	584	92	48	97	752	40	75	17
18	34	37	149	29	350	79	47	86	274	42	63	17
19	33	61	110	33	207	71	44	73	137	48	78	16
20	33	84	107	158	134	133	43	137	87	40	61	22
21	33	57	80	108	99	1670	42	112	79	35	53	19
22	33	42	68	75	108	1180	41	91	66	33	44	17
23	33	37	57	62	101	560	40	74	185	32	37	21
24	33	34	48	54	84	330	53	59	189	45	77	84
25	32	186	43	48	80	209	195	48	136	37	60	47
26	30	278	39	43	80	158	111	68	120	61	45	24
27	32	131	39	39	67	126	70	50	109	909	38	21
28	33	98	37	37	59	105	56	70	76	285	71	19
29	33	77	36	35	---	783	49	80	68	165	62	18
30	33	65	34	68	---	1160	44	61	59	129	83	18
31	32	---	34	56	---	756	---	50	---	84	356	---
TOTAL	1165	1975	1844	1396	2869	9788	5690	1860	6036	3208	3026	1230
MEAN	37.6	65.8	59.5	45.0	102	316	190	60.0	201	103	97.6	41.0
MAX	73	278	290	158	584	1670	1480	192	802	909	454	239
MIN	30	32	34	29	36	50	40	28	35	32	21	16
CFSM	.31	.54	.49	.37	.85	2.61	1.57	.50	1.66	.86	.81	.34
IN.	.36	.61	.57	.43	.88	3.01	1.75	.57	1.86	.99	.93	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	121	97.4	101	242	199	241	139	77.5	114	90.7	84.3	228
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	45.2	45.0	59.5	103	57.4	45.6	21.3	30.7	31.7	14.2
(WY)	1992	1992	1995	2001	1991	2000	1995	1995	1999	1993	1993	1990

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1990 - 2001

ANNUAL TOTAL	46394	40087		
ANNUAL MEAN	127	110	145	
HIGHEST ANNUAL MEAN			242	1996
LOWEST ANNUAL MEAN			97.7	1991
HIGHEST DAILY MEAN	1540	Aug 2	1670	Mar 21
LOWEST DAILY MEAN	22	Jul 11	16	Sep 16
ANNUAL SEVEN-DAY MINIMUM	26	Jul 8	17	Sep 13
MAXIMUM PEAK FLOW			2480	Jul 27
MAXIMUM PEAK STAGE			10.37	Jul 27
INSTANTANEOUS LOW FLOW			14*	Sep 16
ANNUAL RUNOFF (CFSM)	1.05		.91	1.20
ANNUAL RUNOFF (INCHES)	14.26		12.32	16.32
10 PERCENT EXCEEDS	296		208	295
50 PERCENT EXCEEDS	64		50	68
90 PERCENT EXCEEDS	31		30	20

e Estimated.
* See REMARKS.

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

