

NEUSE RIVER BASIN

02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'10", long 78°35'30", Johnston County, Hydrologic Unit 03020201, on left bank 800 ft downstream of bridge on State Highway 50, 0.5 mi upstream from Buffalo Branch, 3.7 mi downstream of Wake-Johnston County line, and 9.5 mi southwest of Clayton.

DRAINAGE AREA.--83.5 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for Oct. 1939, published in WSP 1303.

REVISED RECORDS.--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 184.53 ft above NGVD of 1929. Nov. 1-20, 1939, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 10,000 ft³/s, by logarithmic plotting; maximum gage height for period of record, 14.88 ft, from high-water mark in gage well. Minimum discharge for period of record, no flow, also occurred Oct. 12-13, 1954, and July 13-28, 1986. Minimum discharge for current water year also occurred June 26, 27.

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	22	20	30	32	89	51	418	25	11	25	22	129
2	20	21	30	33	82	57	788	24	11	14	16	83
3	20	21	28	40	73	166	313	24	11	11	14	44
4	20	20	26	49	72	140	111	26	10	10	12	31
5	20	20	26	48	68	86	86	51	9.2	8.6	11	22
6	21	19	26	82	65	71	75	52	9.0	40	11	18
7	49	20	29	285	173	65	69	39	8.5	66	9.3	16
8	44	19	28	188	420	63	65	32	8.8	25	9.2	14
9	29	20	29	97	263	62	63	26	8.6	15	8.8	14
10	22	21	29	83	131	61	63	24	8.0	11	8.8	13
11	21	22	119	88	116	58	79	21	7.9	11	9.0	13
12	22	19	184	78	98	55	65	20	10	10	9.6	12
13	20	20	70	84	88	59	59	19	9.8	10	9.7	11
14	19	20	52	89	82	70	59	29	9.2	12	9.9	11
15	108	20	45	70	78	65	57	32	8.9	40	12	14
16	99	22	39	62	76	60	53	25	9.5	30	14	39
17	47	22	37	56	74	57	48	21	9.8	17	15	55
18	32	22	42	53	68	62	44	20	10	12	19	38
19	27	22	48	64	65	65	64	24	11	11	24	27
20	25	23	42	428	64	62	56	24	11	11	21	22
21	23	23	37	696	71	74	48	20	11	9.8	17	20
22	22	23	34	408	67	107	41	19	10	9.8	14	18
23	22	22	33	346	62	79	37	17	11	19	12	15
24	22	37	34	821	61	64	32	16	9.1	42	12	15
25	23	55	36	922	61	59	31	18	7.1	214	12	14
26	21	46	34	535	60	57	33	15	6.8	145	18	15
27	18	38	32	214	59	81	31	14	20	66	17	16
28	18	33	32	141	53	92	31	13	35	41	22	17
29	18	31	32	119	---	67	32	12	103	28	32	18
30	19	31	32	104	---	62	29	12	75	21	33	16
31	21	---	32	95	---	71	---	11	---	18	58	---
TOTAL	914	752	1327	6410	2739	2248	2980	725	480.2	1003.2	512.3	790
MEAN	29.48	25.07	42.81	206.8	97.82	72.52	99.33	23.39	16.01	32.36	16.53	26.33
MAX	108	55	184	922	420	166	788	52	103	214	58	129
MIN	18	19	26	32	53	51	29	11	6.8	8.6	8.8	11
CFSM	0.35	0.30	0.51	2.48	1.17	0.87	1.19	0.28	0.19	0.39	0.20	0.32
IN.	0.41	0.34	0.59	2.86	1.22	1.00	1.33	0.32	0.21	0.45	0.23	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	MEAN	52.25	64.00	83.87	139.3	164.7	168.5	115.0	70.40	53.37	57.79	57.54	62.06
MAX	275	230	254	378	450	439	319	330	203	472	340	601	
(WY)	1960	1996	1973	1998	1973	1998	1959	1958	1992	1965	1949	1999	
MIN	0.77	4.67	19.7	31.6	46.2	45.1	16.1	11.4	2.15	0.23	1.75	0.50	
(WY)	1987	1974	1952	1942	1941	1981	1986	1981	1986	1986	1983	1954	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	36812	20880.7	
ANNUAL MEAN	100.9	57.21	90.36
HIGHEST ANNUAL MEAN			161
LOWEST ANNUAL MEAN			30.0
HIGHEST DAILY MEAN	2130	Jul 6	922
LOWEST DAILY MEAN	17	Sep 20	6.8
ANNUAL SEVEN-DAY MINIMUM	19	Oct 26	8.6
MAXIMUM PEAK FLOW			1010
MAXIMUM PEAK STAGE			7.20
INSTANTANEOUS LOW FLOW			6.1*
ANNUAL RUNOFF (CFSM)	1.21		0.69
ANNUAL RUNOFF (INCHES)	16.40		9.30
10 PERCENT EXCEEDS	172		93
50 PERCENT EXCEEDS	44		29
90 PERCENT EXCEEDS	21		11

* See REMARKS.

02088000 MIDDLE CREEK NEAR CLAYTON, NC--Continued

