

02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'15", long 78°35'26", 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 183.56 ft above NAVD of 1988. Nov. 1-20, 1939, nonrecording gage at same site. Satellite telemetry at station.

REMARKS.--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 Sept. 12, 13.

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	74	42	79	80	98	421	151	59	23	25	70	17
2	69	40	72	72	81	196	150	77	30	20	54	15
3	64	41	65	67	98	122	144	57	76	17	37	14
4	61	41	62	66	220	103	110	47	51	15	28	12
5	56	48	62	65	137	91	95	43	40	16	23	11
6	51	49	63	65	100	79	86	72	35	16	21	9.8
7	46	44	61	63	89	75	80	112	49	17	19	10
8	42	42	61	59	85	122	83	70	170	37	18	10
9	40	39	56	60	81	314	349	54	108	52	53	9.5
10	39	37	98	56	81	144	320	46	68	25	195	9.5
11	38	37	228	56	76	101	110	41	54	18	82	8.8
12	37	46	108	56	73	90	90	37	42	16	46	8.8
13	39	135	81	53	73	82	188	42	35	16	34	9.4
14	71	113	69	334	72	95	331	49	32	34	29	9.5
15	65	65	62	854	74	110	158	43	28	28	26	13
16	55	56	59	551	73	128	111	59	24	18	26	12
17	47	52	59	151	68	542	90	56	21	15	33	12
18	42	49	58	109	64	737	85	42	18	21	52	12
19	41	48	61	97	61	307	76	36	16	74	34	12
20	41	47	59	91	58	150	73	34	23	90	28	13
21	48	47	55	91	61	121	67	50	19	106	28	61
22	51	46	55	87	68	105	62	63	17	49	26	47
23	47	58	60	84	64	198	58	42	15	114	22	24
24	42	124	100	76	94	395	56	35	16	78	24	18
25	42	91	83	73	229	165	52	30	15	39	22	15
26	42	67	72	72	114	126	50	29	13	28	20	14
27	42	58	75	70	89	116	49	27	14	22	19	15
28	41	165	70	65	194	266	49	26	15	20	18	14
29	40	191	69	61	---	366	46	24	34	33	17	12
30	40	97	81	98	---	162	48	23	32	61	17	11
31	42	---	91	164	---	138	---	24	---	69	17	---
TOTAL	1,495	2,015	2,334	3,946	2,675	6,167	3,417	1,449	1,133	1,189	1,138	459.3
MEAN	48.2	67.2	75.3	127	95.5	199	114	46.7	37.8	38.4	36.7	15.3
MAX	74	191	228	854	229	737	349	112	170	114	195	61
MIN	37	37	55	53	58	75	46	23	13	15	17	8.8
CFSM	0.58	0.80	0.90	1.52	1.14	2.38	1.36	0.56	0.45	0.46	0.44	0.18
IN.	0.67	0.90	1.04	1.76	1.19	2.75	1.52	0.65	0.50	0.53	0.51	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	53.3	65.3	85.8	137	165	171	117	70.6	53.8	60.1	63.5	63.8
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)

02088000 MIDDLE CREEK NEAR CLAYTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	34,779		27,417.3		91.9	
ANNUAL MEAN	95.0		75.1		193	
HIGHEST ANNUAL MEAN					30.0	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	1,150	Aug 16	854	Jan 15	6,260	Sep 6, 1996
LOWEST DAILY MEAN	18	Jul 22	8.8	Sep 11	0.00	Oct 11, 1954
ANNUAL SEVEN-DAY MINIMUM	22	Jul 22	9.4	Sep 8	0.00	Jul 13, 1986
MAXIMUM PEAK FLOW			996		11,900*	
MAXIMUM PEAK STAGE			7.16		14.88*	
INSTANTANEOUS LOW FLOW			7.5*		0.00*	
ANNUAL RUNOFF (CFSM)	1.14		0.900		1.10	
ANNUAL RUNOFF (INCHES)	15.49		12.21		14.95	
10 PERCENT EXCEEDS	171		137		200	
50 PERCENT EXCEEDS	64		56		47	
90 PERCENT EXCEEDS	32		16		8.0	

* See REMARKS.

