

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 184.53 ft above NGVD of 1929. Nov. 1-20, 1939, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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 several days in July and Aug.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	85	55	69	86	231	87	41	e49	56	37	566
2	47	68	52	66	71	159	90	94	36	43	50	140
3	44	60	49	70	116	134	75	489	27	37	73	98
4	42	55	49	67	263	116	69	573	38	33	54	e80
5	43	54	75	69	116	104	64	152	237	32	38	e68
6	39	57	94	78	100	98	59	98	92	29	278	e66
7	39	66	71	74	e239	104	57	70	51	25	96	105
8	41	83	62	62	e305	109	57	60	40	23	50	158
9	59	95	57	60	e123	103	56	51	35	21	31	360
10	66	77	75	72	91	97	54	47	34	20	25	332
11	64	65	356	69	80	94	70	42	35	32	21	106
12	63	61	424	64	126	87	93	40	33	35	20	78
13	55	59	146	71	330	81	224	50	39	36	70	69
14	49	52	248	70	176	77	206	49	35	42	113	65
15	59	47	486	63	155	79	126	40	32	35	578	122
16	67	47	255	61	231	141	93	36	30	42	1,150	120
17	54	50	160	58	210	244	78	34	64	25	444	120
18	46	52	187	72	160	170	67	32	76	23	117	511
19	45	71	137	108	130	208	61	30	59	32	344	781
20	42	284	114	79	109	175	58	32	37	26	490	350
21	39	205	100	65	95	119	51	40	29	20	113	116
22	38	100	92	63	85	101	49	30	25	18	129	88
23	36	78	88	60	75	90	45	29	24	24	132	74
24	35	70	119	57	72	86	43	61	23	33	77	66
25	34	64	114	56	68	81	40	50	28	24	60	61
26	34	59	90	63	64	80	38	31	63	20	51	58
27	37	56	81	63	175	78	80	25	68	19	45	57
28	46	56	77	66	433	75	77	23	45	18	41	80
29	277	61	74	77	359	71	52	e22	172	26	38	150
30	442	59	75	95	---	68	43	e24	132	45	464	94
31	141	---	75	104	---	73	---	e115	---	46	820	---
TOTAL	2,172	2,296	4,137	2,171	4,643	3,533	2,262	2,510	1,688	940	6,049	5,139
MEAN	70.1	76.5	133	70.0	160	114	75.4	81.0	56.3	30.3	195	171
MAX	442	284	486	108	433	244	224	573	237	56	1,150	781
MIN	34	47	49	56	64	68	38	22	23	18	20	57
CFSM	0.84	0.92	1.60	0.84	1.92	1.36	0.90	0.97	0.67	0.36	2.34	2.05
IN.	0.97	1.02	1.84	0.97	2.07	1.57	1.01	1.12	0.75	0.42	2.69	2.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	53.4	65.2	86.0	138	166	171	117	71.0	54.0	60.4	64.0	64.6
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	66,304		37,540		92.1	
ANNUAL MEAN	182		103		193	
HIGHEST ANNUAL MEAN					30.0	2003
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	1,740	Apr 11	1,150	Aug 16	6,260	Sep 6, 1996
LOWEST DAILY MEAN	34	Oct 25	18	Jul 22	0.00	Oct 11, 1954
ANNUAL SEVEN-DAY MINIMUM	36	Oct 21	22	Jul 22	0.00	Jul 13, 1986
MAXIMUM PEAK FLOW			1,470	Aug 16	11900*	Sep 6, 1996
MAXIMUM PEAK STAGE			8.82	Aug 16	14.88*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			16*	Jul 22	0.00*	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	2.18		1.23		1.10	
ANNUAL RUNOFF (INCHES)	29.54		16.72		14.99	
10 PERCENT EXCEEDS	404		209		200	
50 PERCENT EXCEEDS	95		66		47	
90 PERCENT EXCEEDS	48		32		7.9	

* See REMARKS.

e Estimated.

