

02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'11", long 78°35'29", 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 good 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 Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	84	56	165	165	803	197	81	95	73	114	206
2	14	65	53	401	96	724	131	76	88	161	951	103
3	14	55	53	250	79	663	108	72	68	890	876	65
4	13	49	52	188	79	347	98	68	62	1,010	568	52
5	12	52	155	133	83	201	92	68	64	221	300	57
6	12	119	435	107	78	667	102	82	59	120	443	57
7	12	242	363	95	313	975	130	95	63	104	210	46
8	10	102	157	86	491	627	318	80	209	94	299	42
9	9.4	73	107	82	240	269	458	70	204	91	1,550	93
10	10	62	90	79	210	192	1,100	62	105	109	1,340	70
11	215	59	93	74	332	154	1,740	61	74	159	929	50
12	691	108	147	70	203	130	1,240	57	64	118	725	42
13	681	467	165	67	148	118	540	50	217	107	320	38
14	106	580	457	67	130	155	256	45	126	e73	210	39
15	55	194	528	65	131	148	196	43	86	e71	212	38
16	56	106	171	63	139	255	163	49	109	e104	166	50
17	80	155	112	67	182	474	144	60	118	e195	165	187
18	56	316	95	68	202	270	128	55	93	1,240	137	109
19	42	212	88	65	340	170	122	89	142	1,020	147	330
20	35	119	132	63	289	406	112	105	148	554	126	469
21	131	98	274	63	223	1,070	105	75	123	160	94	150
22	307	87	161	62	311	908	132	134	96	125	80	85
23	156	77	108	61	631	356	118	402	77	108	76	172
24	86	70	115	59	664	211	95	313	67	103	76	397
25	66	68	313	56	298	171	90	145	56	101	66	170
26	58	65	328	57	148	147	141	123	48	91	57	89
27	56	65	160	59	210	124	160	113	43	75	50	72
28	54	63	112	56	613	104	127	104	40	68	45	66
29	98	61	99	55	---	109	98	87	45	67	42	61
30	135	60	91	69	---	166	87	77	43	294	40	55
31	144	---	87	181	---	309	---	71	---	224	39	---
TOTAL	3,428.4	3,933	5,357	3,033	7,028	11,423	8,528	3,012	2,832	7,930	10,453	3,460
MEAN	111	131	173	97.8	251	368	284	97.2	94.4	256	337	115
MAX	691	580	528	401	664	1,070	1,740	402	217	1,240	1,550	469
MIN	9.4	49	52	55	78	104	87	43	40	67	39	38
CFSM	1.32	1.57	2.07	1.17	3.01	4.41	3.40	1.16	1.13	3.06	4.04	1.38
IN.	1.53	1.75	2.39	1.35	3.13	5.09	3.80	1.34	1.26	3.53	4.66	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	53.2	65.0	85.3	139	166	172	118	70.8	54.0	60.9	61.9	62.9
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	30,606.1		70,417.4		92.0	
ANNUAL MEAN	83.9		193		193	
HIGHEST ANNUAL MEAN					30.0	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	922	Jan 25	1,740	Apr 11	6,260	Sep 6, 1996
LOWEST DAILY MEAN	6.8	Jun 26	9.4	Oct 9	0.00	Oct 11, 1954
ANNUAL SEVEN-DAY MINIMUM	8.6	Jun 5	11	Oct 4	0.00	Jul 13, 1986
MAXIMUM PEAK FLOW			2,260	Aug 9	11,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			10.52	Aug 9	14.88*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			8.7*	Oct 9	0.00*	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	1.00		2.31		1.10	
ANNUAL RUNOFF (INCHES)	13.64		31.37		14.96	
10 PERCENT EXCEEDS	165		457		200	
50 PERCENT EXCEEDS	55		106		46	
90 PERCENT EXCEEDS	11		52		7.8	

e Estimated.
 * See REMARKS.

