

Water-Data Report 2008

02088000 MIDDLE CREEK NEAR CLAYTON, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°34'15", long 78°35'26" referenced to North American Datum of 1983, Johnston County, NC, Hydrologic Unit 03020201, on left bank 800 ft downstream of bridge on North Carolina 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.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 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 North American Vertical Datum of 1988. November 1-20, 1939, nonrecording gage at same site. 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 October 12-13, 1954, and July 13-28, 1986.

02088000 MIDDLE CREEK NEAR CLAYTON, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.3	34	21	612	50	56	225	84	25	12	9.9	24
2	8.8	27	20	127	89	51	166	64	22	10	9.9	19
3	8.9	23	21	80	71	49	92	54	22	8.3	9.4	16
4	9.7	21	22	63	58	49	96	46	19	7.5	8.8	15
5	9.8	20	21	57	52	82	325	42	17	7.1	8.6	15
6	10	19	21	54	49	111	648	41	15	11	9.0	256
7	14	18	20	52	49	105	351	39	14	28	8.0	1,360
8	12	17	20	50	44	378	141	32	13	24	7.6	616
9	11	17	22	49	42	362	106	37	12	21	6.4	90
10	11	18	22	46	41	120	91	40	12	92	6.4	158
11	9.8	17	23	45	39	91	81	41	11	135	7.4	132
12	9.1	17	22	45	36	78	77	56	10	30	8.6	84
13	8.2	17	22	41	51	68	73	67	9.5	19	9.6	61
14	7.6	18	22	41	116	65	65	44	9.0	15	9.0	47
15	7.9	18	22	39	84	62	61	37	12	14	10	39
16	8.3	23	91	37	63	167	56	37	21	15	35	36
17	8.4	26	102	37	55	151	52	43	16	12	26	71
18	8.8	22	54	62	70	87	50	42	11	21	14	60
19	11	21	41	63	94	75	47	44	9.3	35	12	40
20	13	20	35	83	67	86	50	49	8.7	26	11	32
21	12	21	32	72	56	82	62	54	11	34	10	27
22	9.4	20	30	56	54	66	80	55	15	19	9.3	24
23	9.1	19	30	56	64	60	78	39	13	16	8.6	23
24	10	18	35	57	60	55	66	33	13	16	8.0	20
25	86	17	34	50	54	53	55	28	10	13	8.7	18
26	61	19	41	44	53	51	48	24	9.1	12	9.3	114
27	282	24	106	44	92	49	43	22	8.5	11	21	176
28	612	28	71	44	96	47	127	25	8.5	12	151	84
29	241	24	52	42	64	47	299	41	11	13	182	69
30	55	22	104	44	---	48	186	39	10	11	47	49
31	41	---	411	45	---	75	---	29	---	11	30	---
Total	1,614.1	625	1,590	2,237	1,813	2,926	3,897	1,328	397.6	710.9	711.5	3,775
Mean	52.1	20.8	51.3	72.2	62.5	94.4	130	42.8	13.3	22.9	23.0	126
Max	612	34	411	612	116	378	648	84	25	135	182	1,360
Min	7.6	17	20	37	36	47	43	22	8.5	7.1	6.4	15
Cfs/m	0.62	0.25	0.61	0.86	0.75	1.13	1.56	0.51	0.16	0.27	0.27	1.51
In.	0.72	0.28	0.71	1.00	0.81	1.30	1.74	0.59	0.18	0.32	0.32	1.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	52.5	67.4	87.2	136	161	168	116	69.8	58.3	59.0	61.6	63.7
Max	275	280	254	378	450	439	319	330	435	472	340	601
(WY)	(1960)	(2007)	(1973)	(1998)	(1973)	(1998)	(1959)	(1958)	(2006)	(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

	Calendar Year 2007		Water Year 2008		Water Years 1940 - 2008	
Annual total	22,518.7		21,625.1			
Annual mean	61.7		59.1		91.4	
Highest annual mean					193	2003
Lowest annual mean					30.0	1981
Highest daily mean	881	Mar 17	1,360	Sep 7	6,660	Jun 15, 2006
Lowest daily mean	4.3	Sep 9	6.4	Aug 9	0.00	Oct 11, 1954
Annual seven-day minimum	6.6	Sep 4	7.6	Aug 5	0.00	Jul 13, 1986
Maximum peak flow			1,840	Sep 7	^a 11,900	Sep 6, 1996
Maximum peak stage			9.81	Sep 7	^a 14.88	Sep 6, 1996
Instantaneous low flow			4.9	Aug 10	^a 0.00	Oct 11, 1954
Annual runoff (cfs)	0.739		0.708		1.09	
Annual runoff (inches)	10.03		9.63		14.88	
10 percent exceeds	116		103		197	
50 percent exceeds	25		37		47	
90 percent exceeds	9.0		9.4		8.2	

^aSee Remarks.