

Water-Data Report 2007

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 fair. 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	21	30	101	100	88	83	68	35	12	34	30	8.0
2	17	26	241	125	188	316	65	33	11	20	17	7.4
3	16	24	140	103	143	574	61	30	23	15	14	6.7
4	15	23	125	92	103	179	56	30	114	13	11	6.9
5	14	22	116	90	91	113	55	34	61	11	10	7.6
6	13	23	97	348	82	96	48	38	34	10	9.6	7.6
7	20	67	91	428	81	87	47	36	23	9.9	9.7	6.9
8	41	437	85	290	80	82	50	33	19	9.6	9.4	6.1
9	55	568	77	328	77	77	48	31	16	9.3	9.2	4.3
10	36	125	75	166	73	75	47	33	15	11	8.6	6.6
11	28	78	74	116	71	74	47	33	15	26	8.3	7.8
12	24	136	70	102	70	72	147	30	15	28	8.2	7.9
13	22	324	63	97	71	70	246	34	18	17	7.8	9.6
14	20	129	63	94	126	72	92	36	23	14	7.8	14
15	18	85	64	92	148	70	141	30	26	12	7.8	110
16	17	261	64	90	96	267	447	25	20	11	7.7	79
17	20	606	63	84	82	881	595	24	18	13	7.7	30
18	49	643	63	83	78	701	159	22	16	197	8.0	17
19	58	136	63	119	73	168	96	21	14	299	6.9	13
20	37	98	62	108	71	117	81	20	14	59	6.5	12
21	32	87	61	91	71	101	71	19	15	33	7.1	12
22	28	859	68	249	70	91	64	18	14	23	8.3	14
23	25	1,970	295	292	68	85	60	17	13	18	15	13
24	25	896	273	140	64	81	53	17	12	16	89	12
25	22	211	211	111	70	77	49	17	11	15	34	11
26	21	134	835	99	171	71	46	15	13	14	17	11
27	22	112	861	93	129	69	44	14	16	13	13	9.7
28	58	102	206	90	93	64	47	13	21	13	13	9.6
29	74	95	131	86	---	76	45	12	38	15	11	9.1
30	42	90	108	81	---	99	38	12	53	16	9.6	8.3
31	34	---	99	79	---	78	---	12	---	26	8.5	---
Total	924	8,397	4,945	4,466	2,628	5,066	3,113	774	713	1,020.8	430.7	478.1
Mean	29.8	280	160	144	93.9	163	104	25.0	23.8	32.9	13.9	15.9
Max	74	1,970	861	428	188	881	595	38	114	299	89	110
Min	13	22	61	79	64	64	38	12	11	9.3	6.5	4.3
Cfsm	0.36	3.35	1.91	1.73	1.12	1.96	1.24	0.30	0.28	0.39	0.17	0.19
In.	0.41	3.74	2.20	1.99	1.17	2.26	1.39	0.34	0.32	0.45	0.19	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	52.6	68.1	87.7	137	162	169	116	70.2	59.0	59.6	62.2	62.8
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)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
Annual total	42,602		32,955.6			
Annual mean	117		90.3		91.9	
Highest annual mean					193	2003
Lowest annual mean					30.0	1981
Highest daily mean	6,660	Jun 15	1,970	Nov 23	6,660	Jun 15, 2006
Lowest daily mean	12	Aug 19	4.3	Sep 9	0.00	Oct 11, 1954
Annual seven-day minimum	14	Aug 24	6.6	Sep 4	0.00	Jul 13, 1986
Maximum peak flow			2,290	Nov 23	^a 11,900	Sep 6, 1996
Maximum peak stage			10.56	Nov 23	^a 14.88	Sep 6, 1996
Instantaneous low flow			2.5	Sep 9	^a 0.00	Oct 11, 1954
Annual runoff (cfsm)	1.40		1.08		1.10	
Annual runoff (inches)	18.98		14.68		14.95	
10 percent exceeds	171		169		199	
50 percent exceeds	53		47		47	
90 percent exceeds	18		9.7		8.1	

^a See Remarks.

