

Water-Data Report 2007

**02115860 MUDDY CREEK NEAR MUDDY CREEK, NC**

Upper Pee Dee Basin  
Upper Yadkin Subbasin

LOCATION.--Lat 36°00'01", long 80°20'25" referenced to North American Datum of 1983, Forsyth County, NC, Hydrologic Unit 03040101, on right bank 100 ft upstream from bridge on Secondary Road 2995, 0.2 mi downstream of Salem Creek and 1.8 mi east of Muddy Creek.

DRAINAGE AREA.--186 mi<sup>2</sup>, (revised).

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1964 to September 1979, February 1988 to September 1991, June 2007 to September 2007; 1993-2006, discharge measurements only.

GAGE.--Water-stage recorder. Datum of gage is 669.92 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Records on falling stages following peaks above 14 ft may be affected by backwater and subject to error. Some regulations by Salem Lake and considerable diurnal fluctuation from effluent and wastewater. The city of Winston-Salem diverted an average of about 8.8 ft<sup>3</sup>/s from Salem Lake for water supply. An average of about 29.8 ft<sup>3</sup>/s effluent was returned to Salem Creek 3.5 mi above the station. Minimum discharge for current water year also occurred September 10, 30.

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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	---	---	---	---	---	---	---	---	---	126	81	55
2	---	---	---	---	---	---	---	---	---	89	78	53
3	---	---	---	---	---	---	---	---	---	84	73	52
4	---	---	---	---	---	---	---	---	---	82	68	54
5	---	---	---	---	---	---	---	---	---	80	68	51
6	---	---	---	---	---	---	---	---	---	327	66	49
7	---	---	---	---	---	---	---	---	---	106	65	49
8	---	---	---	---	---	---	---	---	---	86	65	46
9	---	---	---	---	---	---	---	---	---	82	64	44
10	---	---	---	---	---	---	---	---	---	82	62	46
11	---	---	---	---	---	---	---	---	---	151	60	48
12	---	---	---	---	---	---	---	---	---	131	59	48
13	---	---	---	---	---	---	---	---	---	86	60	48
14	---	---	---	---	---	---	---	---	---	80	60	279
15	---	---	---	---	---	---	---	---	---	76	59	259
16	---	---	---	---	---	---	---	---	---	87	59	73
17	---	---	---	---	---	---	---	---	---	151	59	63
18	---	---	---	---	---	---	---	---	---	176	61	61
19	---	---	---	---	---	---	---	---	---	90	54	60
20	---	---	---	---	---	---	---	---	---	87	56	60
21	---	---	---	---	---	---	---	---	---	80	90	58
22	---	---	---	---	---	---	---	---	85	68	111	57
23	---	---	---	---	---	---	---	---	78	79	104	55
24	---	---	---	---	---	---	---	---	154	96	66	55
25	---	---	---	---	---	---	---	---	750	196	60	55
26	---	---	---	---	---	---	---	---	280	90	60	55
27	---	---	---	---	---	---	---	---	112	76	64	53
28	---	---	---	---	---	---	---	---	203	270	63	51
29	---	---	---	---	---	---	---	---	204	118	99	47
30	---	---	---	---	---	---	---	---	139	144	60	46
31	---	---	---	---	---	---	---	---	---	88	61	---
<b>Total</b>	---	---	---	---	---	---	---	---	2,005	3,564	2,115	2,030
<b>Mean</b>	---	---	---	---	---	---	---	---	223	115	68.2	67.7
<b>Max</b>	---	---	---	---	---	---	---	---	750	327	111	279
<b>Min</b>	---	---	---	---	---	---	---	---	78	68	54	44
<b>Cfsm</b>	---	---	---	---	---	---	---	---	1.20	0.62	0.37	0.36
<b>In.</b>	---	---	---	---	---	---	---	---	0.40	0.71	0.42	0.41

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	250	161	241	296	300	303	232	275	214	181	183	163
<b>Max</b>	724	330	519	697	670	570	396	546	784	644	705	500
<b>(WY)</b>	(1991)	(1973)	(1974)	(1978)	(1979)	(1991)	(1991)	(1972)	(1972)	(1975)	(1970)	(1979)
<b>Min</b>	71.3	78.8	75.6	117	121	117	103	120	88.0	81.8	68.2	50.6
<b>(WY)</b>	(1968)	(1968)	(1989)	(1966)	(1968)	(1967)	(1967)	(1988)	(1967)	(1967)	(2007)	(1968)

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SUMMARY STATISTICS

	Water Year 2007		Water Years 1964 - 2007 <sup>a</sup>	
Annual total	9,714			
Annual mean	96.2		232	
Highest annual mean			336	1979
Lowest annual mean			96.2	2007
Highest daily mean	750	Jun 25	8,130	Jun 22, 1972
Lowest daily mean	44	Sep 9	35	Oct 6, 1968
Annual seven-day minimum	47	Sep 7	46	Sep 30, 1968
Maximum peak flow	2,350	Jun 25	14,500	Jun 22, 1972
Maximum peak stage	10.93	Jun 25	21.26	Jun 22, 1972
Instantaneous low flow	<sup>b</sup> 38	Sep 9	21	Oct 6, 1968
Annual runoff (cfsm)	0.517		1.25	
Annual runoff (inches)	1.94		16.92	
10 percent exceeds	172		368	
50 percent exceeds	68		142	
90 percent exceeds	49		82	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.

