

Water-Data Report 2008

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 mi², (revised).

SURFACE-WATER RECORDS

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

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

REMARKS.--No estimated daily discharges. Records good. 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 9.40 ft³/s from Salem lake for water supply. An average of about 1.03 ft³/s effluent was returned to Salem Creek 3.5 mi above the station.

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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	49	80	75	235	670	101	185	162	89	82	343	75
2	51	80	74	152	321	98	134	149	88	67	266	70
3	52	77	75	123	167	100	184	138	87	61	149	66
4	288	77	76	112	303	229	686	131	88	58	80	65
5	81	79	77	105	487	587	2,100	126	82	57	69	63
6	59	78	76	100	206	188	1,480	121	81	137	64	180
7	54	74	75	98	166	379	562	118	76	192	61	89
8	55	73	73	97	134	385	329	118	73	91	59	72
9	55	74	74	96	120	206	247	3,300	73	223	53	70
10	53	73	76	103	110	152	206	503	71	206	51	82
11	51	71	79	154	106	134	180	364	89	83	50	105
12	50	73	78	106	107	124	172	316	146	67	49	80
13	48	75	79	92	256	116	174	171	125	61	109	70
14	49	76	77	92	191	111	150	145	101	84	80	64
15	51	179	75	92	135	156	145	137	173	66	64	64
16	53	107	325	90	117	205	136	189	85	58	73	852
17	52	84	116	221	110	121	132	133	74	55	72	377
18	54	77	93	177	155	111	132	142	68	53	70	126
19	147	77	87	126	116	132	130	200	65	49	59	94
20	82	75	83	116	106	356	229	124	63	48	54	81
21	57	76	111	102	105	156	166	117	59	49	53	75
22	55	106	93	106	105	130	168	111	58	256	51	75
23	54	83	172	106	105	118	142	105	245	251	49	73
24	103	73	155	101	104	116	131	105	78	172	48	71
25	709	71	100	92	117	115	123	101	68	68	51	69
26	1,750	99	332	87	185	111	114	96	70	56	82	306
27	333	95	175	86	146	107	305	101	113	53	2,580	628
28	129	83	197	86	110	106	972	143	106	77	523	225
29	97	79	464	85	105	159	381	116	80	57	149	127
30	86	78	771	113	---	125	197	100	242	53	106	102
31	83	---	762	90	---	145	---	95	---	325	88	---
Total	4,890	2,502	5,175	3,541	5,165	5,379	10,392	7,977	2,916	3,215	5,655	4,496
Mean	158	83.4	167	114	178	174	346	257	97.2	104	182	150
Max	1,750	179	771	235	670	587	2,100	3,300	245	325	2,580	852
Min	48	71	73	85	104	98	114	95	58	48	48	63
Cfs/m	0.85	0.45	0.90	0.61	0.96	0.93	1.86	1.38	0.52	0.56	0.98	0.81
In.	0.98	0.50	1.03	0.71	1.03	1.08	2.08	1.60	0.58	0.64	1.13	0.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	245	157	237	287	294	296	237	274	208	177	183	163
Max	724	330	519	697	670	570	396	546	784	644	705	500
(WY)	(1991)	(1973)	(1974)	(1978)	(1979)	(1991)	(1991)	(1972)	(1972)	(1975)	(1970)	(1979)
Min	71.3	78.8	75.6	114	121	117	103	120	88.0	81.8	68.2	50.6
(WY)	(1968)	(1968)	(1989)	(2008)	(1968)	(1967)	(1967)	(1988)	(1967)	(1967)	(2007)	(1968)

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SUMMARY STATISTICS

	Water Year 2008		Water Years 1964 - 2008 ^a	
Annual total	61,303			
Annual mean	167		228	
Highest annual mean			336	1979
Lowest annual mean			96.2	2007
Highest daily mean	3,300	May 9	8,130	Jun 22, 1972
Lowest daily mean	48	Oct 13	35	Oct 6, 1968
Annual seven-day minimum	51	Oct 11	46	Sep 30, 1968
Maximum peak flow	5,210	May 9	14,500	Jun 22, 1972
Maximum peak stage	16.84	May 9	21.26	Jun 22, 1972
Instantaneous low flow	34	Aug 12	21	Oct 6, 1968
Annual runoff (cfsm)	0.901		1.23	
Annual runoff (inches)	12.26		16.69	
10 percent exceeds	292		364	
50 percent exceeds	102		141	
90 percent exceeds	57		79	

^aSee Period of Record.