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Water-Data Report 2010

**0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC**

Upper Pee Dee Basin  
Rocky Subbasin

LOCATION.--Lat 35°19'58", long 80°42'57" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03040105, on left bank on upstream side of bridge at Pavilion Blvd, 0.1 mi downstream of Stony Creek, and 3.8 mi northwest of Harrisburg.

DRAINAGE AREA.--34.6 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.40 ft, North American Vertical Datum of 1988. Radio telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from contracted opening measurement of peak flow; maximum gage height for period of record from crest-stage gage. No flow occurred several days August 2002, and September, October 2007.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.1	211	18	32	52	21	33	10	772	8.5	5.6	3.0
2	4.0	22	335	25	217	29	28	9.9	63	4.0	5.5	2.6
3	4.9	12	147	22	151	45	25	16	25	3.5	5.9	2.3
4	3.9	9.3	38	21	73	25	23	12	15	3.2	5.4	2.3
5	16	7.8	29	20	1,340	21	22	9.3	12	2.9	21	2.2
6	6.6	6.8	22	19	306	20	20	8.8	14	2.7	52	2.2
7	4.7	7.1	19	20	74	19	19	8.4	30	2.6	43	2.2
8	3.9	7.1	51	20	50	19	21	8.1	8.2	2.6	7.1	2.1
9	4.3	6.3	572	16	42	19	26	7.8	7.0	2.6	4.9	2.3
10	4.3	166	62	15	40	19	18	8.2	6.5	2.9	4.7	1.8
11	3.8	1,540	32	16	33	25	17	11	6.0	2.9	4.0	2.0
12	8.1	370	24	17	31	135	16	9.0	5.5	358	4.0	2.2
13	8.7	67	39	16	42	394	16	7.9	37	46	4.0	2.1
14	11	34	27	15	34	76	15	7.5	20	43	3.8	1.8
15	e10	24	22	15	51	39	15	20	7.2	13	5.2	1.6
16	e7.2	19	19	14	35	30	15	88	6.8	42	7.0	1.5
17	6.2	17	18	539	28	25	15	164	5.8	108	4.0	1.9
18	4.9	20	104	59	25	24	14	36	5.0	36	3.6	2.4
19	4.2	19	190	33	24	22	14	44	4.7	12	1,120	1.0
20	4.0	16	48	25	23	20	14	13	4.6	9.8	218	1.5
21	4.2	15	28	81	22	25	19	31	5.0	11	26	1.2
22	4.8	15	22	65	93	48	14	25	4.4	9.6	15	1.3
23	4.3	124	20	31	36	23	13	11	4.2	6.4	9.9	1.5
24	8.6	31	18	203	40	19	13	15	4.3	6.1	8.7	1.7
25	8.6	20	990	1,610	34	19	48	13	3.7	5.9	7.5	1.7
26	6.0	26	133	95	25	19	16	8.9	4.1	5.9	9.6	17
27	55	38	56	53	23	17	33	7.6	8.5	70	6.5	60
28	112	17	40	41	21	63	40	73	4.9	40	5.0	63
29	12	14	31	36	---	795	12	108	3.2	11	4.5	46
30	7.3	15	29	52	---	67	10	14	32	6.8	3.5	70
31	6.3	---	55	55	---	43	---	230	---	5.9	3.2	---
<b>Total</b>	353.9	2,896.4	3,238	3,281	2,965	2,165	604	1,035.4	1,129.6	884.8	1,628.1	304.4
<b>Mean</b>	11.4	96.5	104	106	106	69.8	20.1	33.4	37.7	28.5	52.5	10.1
<b>Max</b>	112	1,540	990	1,610	1,340	795	48	230	772	358	1,120	70
<b>Min</b>	3.8	6.3	18	14	21	17	10	7.5	3.2	2.6	3.2	1.0
<b>Cfsm</b>	0.33	2.79	3.02	3.06	3.06	2.02	0.58	0.97	1.09	0.82	1.52	0.29
<b>In.</b>	0.38	3.11	3.48	3.53	3.19	2.33	0.65	1.11	1.21	0.95	1.75	0.33

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	22.7	37.6	39.0	50.0	50.3	63.9	46.8	26.8	37.0	29.9	44.3	33.7
<b>Max</b>	53.7	140	104	147	106	165	195	161	132	92.9	175	163
<b>(WY)</b>	(1996)	(2007)	(2010)	(1998)	(2010)	(2003)	(2003)	(2003)	(2003)	(1997)	(2008)	(2004)
<b>Min</b>	2.75	2.70	9.44	11.8	15.0	15.5	11.2	9.55	5.82	9.09	1.74	1.16
<b>(WY)</b>	(2001)	(2008)	(2001)	(2004)	(2002)	(1999)	(1995)	(2001)	(2002)	(2001)	(2001)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1995 - 2010	
<b>Annual total</b>	16,920.9		20,485.6			
<b>Annual mean</b>	46.4		56.1		40.2	
<b>Highest annual mean</b>					86.5	2003
<b>Lowest annual mean</b>					16.0	2002
<b>Highest daily mean</b>	1,540	Nov 11	1,610	Jan 25	3,710	Aug 27, 2008
<b>Lowest daily mean</b>	3.2	Sep 15	1.0	Sep 19	0.01	Aug 13, 2002
<b>Annual seven-day minimum</b>	4.6	Sep 2	1.4	Sep 19	0.07	Aug 8, 2002
<b>Maximum peak flow</b>			4,840	Jan 25	<sup>a</sup> 12,400	Aug 27, 2008
<b>Maximum peak stage</b>			16.35	Jan 25	<sup>a</sup> 19.69	Aug 27, 2008
<b>Instantaneous low flow</b>			0.68	Sep 19	<sup>a</sup> 0.00	Aug 8, 2002
<b>Annual runoff (cfsm)</b>	1.34		1.62		1.16	
<b>Annual runoff (inches)</b>	18.19		22.02		15.78	
<b>10 percent exceeds</b>	67		75		67	
<b>50 percent exceeds</b>	14		17		12	
<b>90 percent exceeds</b>	5.3		3.5		3.2	

<sup>a</sup> See Remarks.

