



Water-Data Report 2007

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 Pavillion Blvd, 0.1 mi downstream of Stony Creek, and 3.8 mi northwest of Harrisburg.

DRAINAGE AREA.--34.6 mi².

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 station.

REMARKS.--Records fair 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 floodmarks. No flow occurred for part of each day August 8-10, 12-14, 2002, and September 10, 11, 20, 25, 27, 28, 2007.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.6	10	36	117	65	393	20	12	6.1	21	2.9	1.1
2	9.5	9.9	20	45	57	1,580	29	11	5.6	8.8	2.6	0.99
3	8.9	9.7	18	30	32	110	17	11	34	7.4	2.2	0.80
4	9.4	9.4	17	28	24	64	15	36	9.1	7.2	2.0	0.61
5	8.8	9.5	16	147	21	48	14	17	6.8	5.9	1.9	0.51
6	15	10	16	108	20	43	14	15	6.0	7.2	1.8	0.56
7	8.6	141	15	194	20	36	14	12	5.1	7.4	1.7	0.47
8	60	141	14	590	20	33	13	11	16	6.4	1.9	0.42
9	16	24	14	79	18	30	13	11	16	282	1.6	0.40
10	9.9	16	14	47	18	27	14	11	5.6	155	1.6	0.24
11	8.8	28	14	37	18	26	57	10	4.8	14	1.4	0.45
12	32	240	14	33	18	23	236	11	7.2	9.3	1.3	0.94
13	9.7	28	14	30	160	25	28	11	8.2	4.7	1.1	0.93
14	8.2	18	14	28	318	23	22	9.6	167	5.6	1.1	8.8
15	7.8	15	14	27	42	23	938	9.1	28	18	0.96	12
16	7.8	908	13	25	29	108	137	9.0	10	14	0.83	1.1
17	459	66	13	23	24	40	43	8.7	7.4	4.1	0.83	0.55
18	e117	33	13	29	22	25	29	8.4	5.6	8.7	1.0	0.42
19	e29	22	13	29	20	22	30	8.3	5.0	4.5	1.0	0.36
20	20	19	13	23	19	21	52	8.1	5.2	2.8	0.73	0.30
21	15	267	13	54	19	20	22	7.8	4.6	2.5	0.78	0.30
22	13	1,810	144	131	18	20	18	8.4	3.8	2.3	1.3	0.36
23	12	136	53	39	16	20	16	7.9	4.8	2.0	5.4	0.34
24	10	56	24	30	16	19	16	7.6	119	2.0	3.4	0.47
25	10	37	430	25	201	18	15	7.3	261	2.0	1.2	0.43
26	10	29	82	24	60	18	14	7.4	112	2.0	36	0.22
27	38	26	38	23	29	18	36	7.3	53	13	25	0.11
28	105	25	30	22	22	17	16	6.9	16	87	3.1	0.11
29	16	22	25	20	---	19	13	6.2	12	6.1	1.9	0.16
30	12	20	23	20	---	17	12	6.1	9.6	8.6	1.3	0.25
31	11	---	38	20	---	16	---	6.2	---	6.8	7.7	---
Total	1,107.0	4,185.5	1,215	2,077	1,346	2,902	1,913	319.3	954.5	728.3	117.53	34.70
Mean	35.7	140	39.2	67.0	48.1	93.6	63.8	10.3	31.8	23.5	3.79	1.16
Max	459	1,810	430	590	318	1,580	938	36	261	282	36	12
Min	7.8	9.4	13	20	16	16	12	6.1	3.8	2.0	0.73	0.11
Cfsm	1.03	4.03	1.13	1.94	1.39	2.71	1.84	0.30	0.92	0.68	0.11	0.03
In.	1.19	4.50	1.31	2.23	1.45	3.12	2.06	0.34	1.03	0.78	0.13	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.7	37.7	35.2	48.7	50.1	61.4	51.0	26.6	37.0	29.3	35.9	35.9
Max	53.7	140	93.3	147	95.0	165	195	161	132	92.9	128	163
(WY)	(1996)	(2007)	(2003)	(1998)	(1997)	(2003)	(2003)	(2003)	(2003)	(1997)	(2006)	(2004)
Min	2.75	3.80	9.44	11.8	15.0	15.5	11.2	9.55	5.82	9.09	1.74	1.16
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(1995)	(2001)	(2002)	(2001)	(2001)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1995 - 2007	
Annual total	18,658.0		16,899.83			
Annual mean	51.1		46.3		39.5	
Highest annual mean					86.5	2003
Lowest annual mean					16.0	2002
Highest daily mean	1,810	Nov 22	1,810	Nov 22	2,350	Aug 27, 1995
Lowest daily mean	3.6	Jul 20	0.11	Sep 27	0.01	Aug 13, 2002
Annual seven-day minimum	4.8	Jul 29	0.25	Sep 24	0.07	Aug 8, 2002
Maximum peak flow			3,830	Mar 2	^a 6,260	Aug 27, 1995
Maximum peak stage			15.44	Mar 2	^a 17.34	Aug 27, 1995
Instantaneous low flow			^a 0.00	Sep 10	^a 0.00	Aug 8, 2002
Annual runoff (cfsm)	1.48		1.34		1.14	
Annual runoff (inches)	20.06		18.17		15.51	
10 percent exceeds	70		80		67	
50 percent exceeds	13		15		13	
90 percent exceeds	5.8		1.1		3.2	

^a See Remarks.

