



Water-Data Report 2010

02124269 BACK CR AT SECONDARY ROAD 1173 NEAR HARRISBURG, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°18'33", long 80°40'25" referenced to North American Datum of 1983, Cabarrus County, NC, Hydrologic Unit 03040105, on left bank downstream of culvert on Secondary Road 1173 (Caldwell Road), approximately 2 mi southeast of Harrisburg.

DRAINAGE AREA.--7.45 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2009 to September 2010.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 591.13 ft North American Vertical Datum of 1988, from levels. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for 2009 water year also occurred September 30, 2009. Minimum discharge for current water year and period of record also occurred October 4, 2009.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	2.9	1.1	4.7	1.0
2	---	---	---	---	---	---	---	---	2.8	1.1	3.7	0.87
3	---	---	---	---	---	---	---	---	2.6	1.3	1.9	0.79
4	---	---	---	---	---	---	---	---	12	1.1	1.5	0.81
5	---	---	---	---	---	---	---	---	221	1.3	16	0.78
6	---	---	---	---	---	---	---	---	17	1.5	12	0.76
7	---	---	---	---	---	---	---	---	4.9	1.4	2.1	0.75
8	---	---	---	---	---	---	---	---	3.1	1.3	1.5	0.75
9	---	---	---	---	---	---	---	---	2.6	34	1.3	0.95
10	---	---	---	---	---	---	---	---	2.2	3.9	1.2	1.5
11	---	---	---	---	---	---	---	---	2.4	1.7	1.2	0.95
12	---	---	---	---	---	---	---	---	6.2	1.3	1.4	0.71
13	---	---	---	---	---	---	---	---	4.5	1.3	1.4	0.65
14	---	---	---	---	---	---	---	---	2.2	1.2	1.2	0.62
15	---	---	---	---	---	---	---	8.2	1.9	1.1	1.5	0.60
16	---	---	---	---	---	---	---	12	1.9	1.1	3.8	8.7
17	---	---	---	---	---	---	---	6.0	29	1.1	1.9	3.5
18	---	---	---	---	---	---	---	7.5	3.5	1.0	1.2	0.64
19	---	---	---	---	---	---	---	4.0	2.4	0.98	1.0	1.5
20	---	---	---	---	---	---	---	3.5	1.9	0.99	1.7	4.0
21	---	---	---	---	---	---	---	3.3	1.7	0.94	1.2	0.73
22	---	---	---	---	---	---	---	3.2	1.6	3.4	2.0	0.41
23	---	---	---	---	---	---	---	6.2	1.5	87	3.0	0.44
24	---	---	---	---	---	---	---	10	1.4	20	1.1	0.42
25	---	---	---	---	---	---	---	39	1.4	2.4	1.1	0.50
26	---	---	---	---	---	---	---	15	1.4	1.5	0.87	0.89
27	---	---	---	---	---	---	---	6.7	1.4	1.3	0.82	2.5
28	---	---	---	---	---	---	---	12	1.3	16	0.85	0.70
29	---	---	---	---	---	---	---	15	1.2	98	0.85	0.55
30	---	---	---	---	---	---	---	5.2	1.2	4.0	0.84	0.43
31	---	---	---	---	---	---	---	3.6	---	8.5	1.0	---
Total	---	---	---	---	---	---	---	160.4	341.1	302.81	75.83	38.40
Mean	---	---	---	---	---	---	---	9.44	11.4	9.77	2.45	1.28
Max	---	---	---	---	---	---	---	39	221	98	16	8.7
Min	---	---	---	---	---	---	---	3.2	1.2	0.94	0.82	0.41
Cfsm	---	---	---	---	---	---	---	1.27	1.53	1.31	0.33	0.17
In.	---	---	---	---	---	---	---	0.80	1.70	1.51	0.38	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2009, BY WATER YEAR (WY)

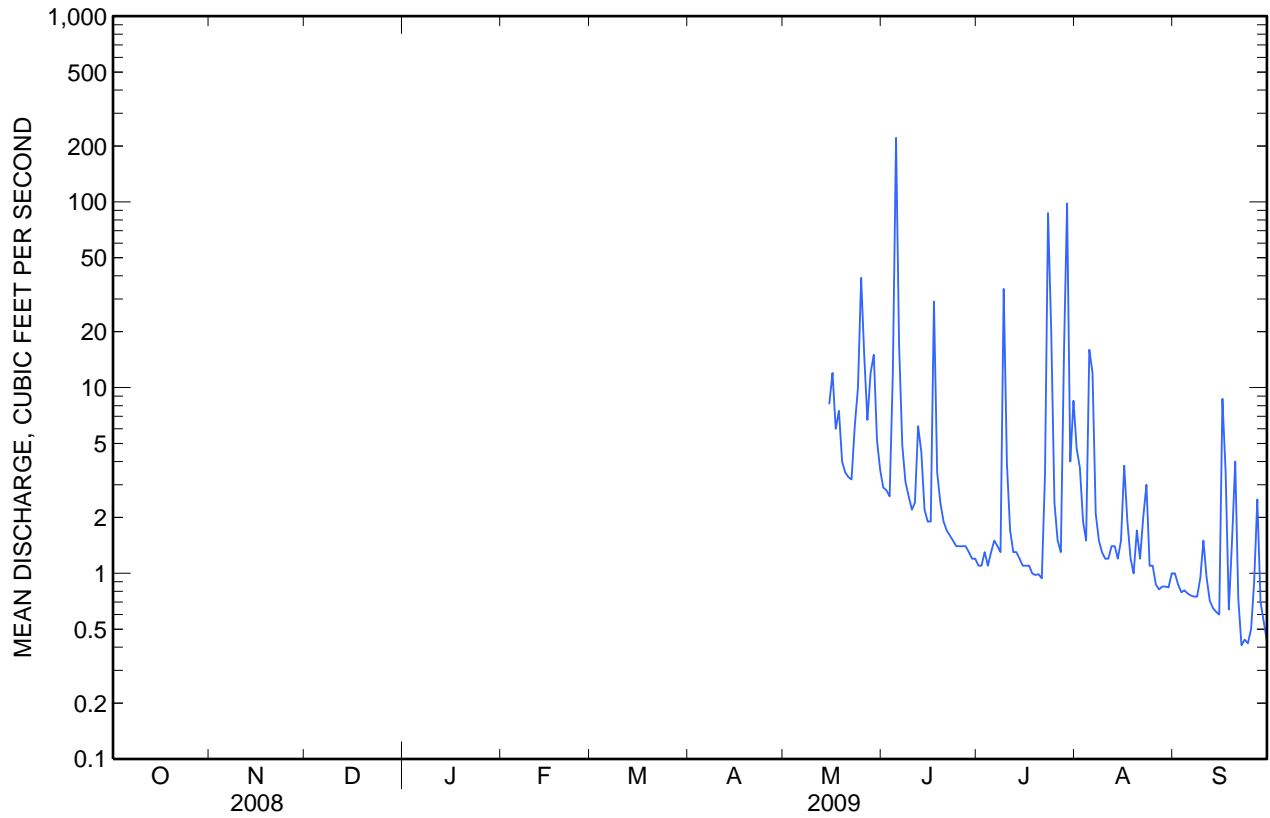
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	---	9.44	11.4	9.77	2.45	1.28
Max	---	---	---	---	---	---	---	9.44	11.4	9.77	2.45	1.28
(WY)	(---	(---	(---	(---	(---	(---	(---	(2009)	(2009)	(2009)	(2009)	(2009)
Min	---	---	---	---	---	---	---	9.44	11.4	9.77	2.45	1.28
(WY)	(---	(---	(---	(---	(---	(---	(---	(2009)	(2009)	(2009)	(2009)	(2009)

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SUMMARY STATISTICS

Water Year 2009	
Annual total	918.54
Annual mean	6.61
Highest daily mean	221 Jun 5
Lowest daily mean	0.41 Sep 22
Annual seven-day minimum	0.79 Sep 2
Maximum peak flow	938 Jun 5
Maximum peak stage	9.60 Jun 5
Instantaneous low flow	^a 0.37 Sep 22
Annual runoff (cfsm)	0.887
Annual runoff (inches)	4.59
10 percent exceeds	12
50 percent exceeds	1.5
90 percent exceeds	0.75

^a See Remarks.



02124269 BACK CR AT SR1173 NEAR HARRISBURG, NC—Continued

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	0.36	43	3.9	5.4	9.8	3.6	4.4	1.6	214	1.5	0.53	0.51
2	0.29	7.4	67	4.3	51	5.4	3.9	1.5	28	0.79	0.51	0.49
3	0.21	4.1	32	3.6	e28	11	3.5	2.1	4.3	0.68	0.46	0.46
4	0.18	3.0	8.0	3.3	12	5.5	3.3	2.7	2.2	0.63	0.48	0.39
5	1.0	2.6	6.0	3.2	345	4.2	3.1	1.4	1.7	0.58	15	0.36
6	0.64	2.4	4.3	3.0	46	3.7	2.8	1.3	1.7	0.56	8.4	0.35
7	0.44	2.4	3.3	2.9	12	3.5	2.7	1.3	3.6	0.50	14	0.37
8	0.33	2.4	18	3.0	8.2	3.4	2.8	1.2	1.3	0.47	1.2	0.36
9	0.28	2.3	126	2.6	7.5	3.3	3.6	1.1	1.1	0.45	0.81	0.37
10	0.33	49	16	2.6	7.4	3.4	2.3	1.1	1.1	0.48	0.61	0.36
11	0.34	407	7.1	2.6	5.8	4.6	2.3	1.4	1.0	0.47	0.52	0.37
12	0.57	98	4.8	2.7	5.5	50	2.2	1.3	0.93	53	0.47	0.45
13	0.95	17	8.9	2.4	8.3	65	2.0	1.1	3.1	5.3	0.45	0.49
14	0.87	7.6	6.5	2.5	6.6	15	1.9	1.0	2.5	2.3	0.41	0.44
15	1.3	5.1	5.0	2.5	11	7.6	2.0	1.0	0.98	0.89	0.41	0.41
16	1.2	3.8	4.0	2.6	6.9	5.7	2.0	1.9	0.85	5.2	0.47	0.40
17	1.2	3.0	3.4	114	5.2	5.0	1.8	7.0	0.78	16	0.41	0.37
18	1.3	3.0	27	14	4.5	4.6	1.7	4.9	0.71	4.1	0.37	0.39
19	1.3	4.0	46	7.5	4.2	4.2	1.7	9.1	0.68	1.3	222	0.40
20	1.2	3.5	11	5.6	3.9	3.9	1.7	1.4	0.78	0.90	8.1	0.38
21	1.3	3.2	6.5	28	3.7	4.8	2.2	2.6	0.60	1.4	1.9	0.43
22	1.4	3.2	4.9	22	23	8.3	1.6	3.4	0.55	1.5	1.1	0.53
23	1.5	33	4.4	8.3	8.5	4.8	1.5	1.3	0.53	0.64	0.87	0.48
24	1.9	7.9	3.9	77	8.1	3.8	1.5	1.3	0.50	0.56	1.5	0.40
25	2.4	4.5	260	392	7.2	3.6	7.5	1.4	0.49	0.66	1.0	0.37
26	2.2	6.0	30	13	4.9	3.7	2.0	1.1	0.44	0.52	0.73	1.3
27	13	9.6	10	7.2	4.4	3.3	5.0	1.0	1.2	4.3	0.72	8.2
28	20	3.9	7.1	6.1	4.1	5.3	5.8	43	1.2	5.3	0.63	3.9
29	3.9	2.9	5.3	5.0	---	67	1.9	44	0.52	1.2	0.59	5.7
30	2.5	3.2	4.5	7.4	---	9.1	1.6	2.9	7.3	0.64	0.56	17
31	2.2	---	9.0	9.1	---	5.6	---	39	---	0.46	0.52	---
Total	66.59	748.0	753.8	765.4	652.7	331.9	82.3	186.4	284.64	113.28	285.73	46.43
Mean	2.15	24.9	24.3	24.7	23.3	10.7	2.74	6.01	9.49	3.65	9.22	1.55
Max	20	407	260	392	345	67	7.5	44	214	53	222	17
Min	0.18	2.3	3.3	2.4	3.7	3.3	1.5	1.0	0.44	0.45	0.37	0.35
Cfsm	0.29	3.35	3.26	3.31	3.13	1.44	0.37	0.81	1.27	0.49	1.24	0.21
In.	0.33	3.73	3.76	3.82	3.26	1.66	0.41	0.93	1.42	0.57	1.43	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.15	24.9	24.3	24.7	23.3	10.7	2.74	6.01	10.4	6.71	5.83	1.41
Max	2.15	24.9	24.3	24.7	23.3	10.7	2.74	6.01	11.4	9.77	9.22	1.55
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2010)
Min	2.15	24.9	24.3	24.7	23.3	10.7	2.74	6.01	9.49	3.65	2.45	1.28
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)

02124269 BACK CR AT SR1173 NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS

	Water Year 2010		Water Years 2009 - 2010	
Annual total	4,317.17			
Annual mean	11.8		11.8	
Highest annual mean			11.8	2010
Lowest annual mean			11.8	2010
Highest daily mean	407	Nov 11	407	Nov 11, 2009
Lowest daily mean	0.18	Oct 4	0.18	Oct 4, 2009
Annual seven-day minimum	0.36	Sep 5	0.36	Sep 5, 2010
Maximum peak flow	1,620	Jan 25	1,620	Jan 25, 2010
Maximum peak stage	11.77	Jan 25	11.77	Jan 25, 2010
Instantaneous low flow	^a 0.14	Oct 2	^a 0.14	Oct 2, 2009
Annual runoff (cfsm)	1.59		1.59	
Annual runoff (inches)	21.56		21.57	
10 percent exceeds	16		16	
50 percent exceeds	2.7		2.7	
90 percent exceeds	0.46		0.46	

^a See Remarks.

