



Water-Data Report 2011

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°07'49", long 80°37'53" referenced to North American Datum of 1927, Union County, NC, Hydrologic Unit 03040105, on left upstream bank, 100 ft upstream of Secondary Road 1524 (Stevens Mill Road), 3.5 mi northwest of Indian Trail NC.

DRAINAGE AREA.--8.50 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2009 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 596.58 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for all years affected by regulation of unknown origin. Minimum discharge for the 2010 water year also occurred October 3, 4, 2009. Minimum discharge for the 2011 water year, no flow, also occurred July 21, 2011.

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC—Continued

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

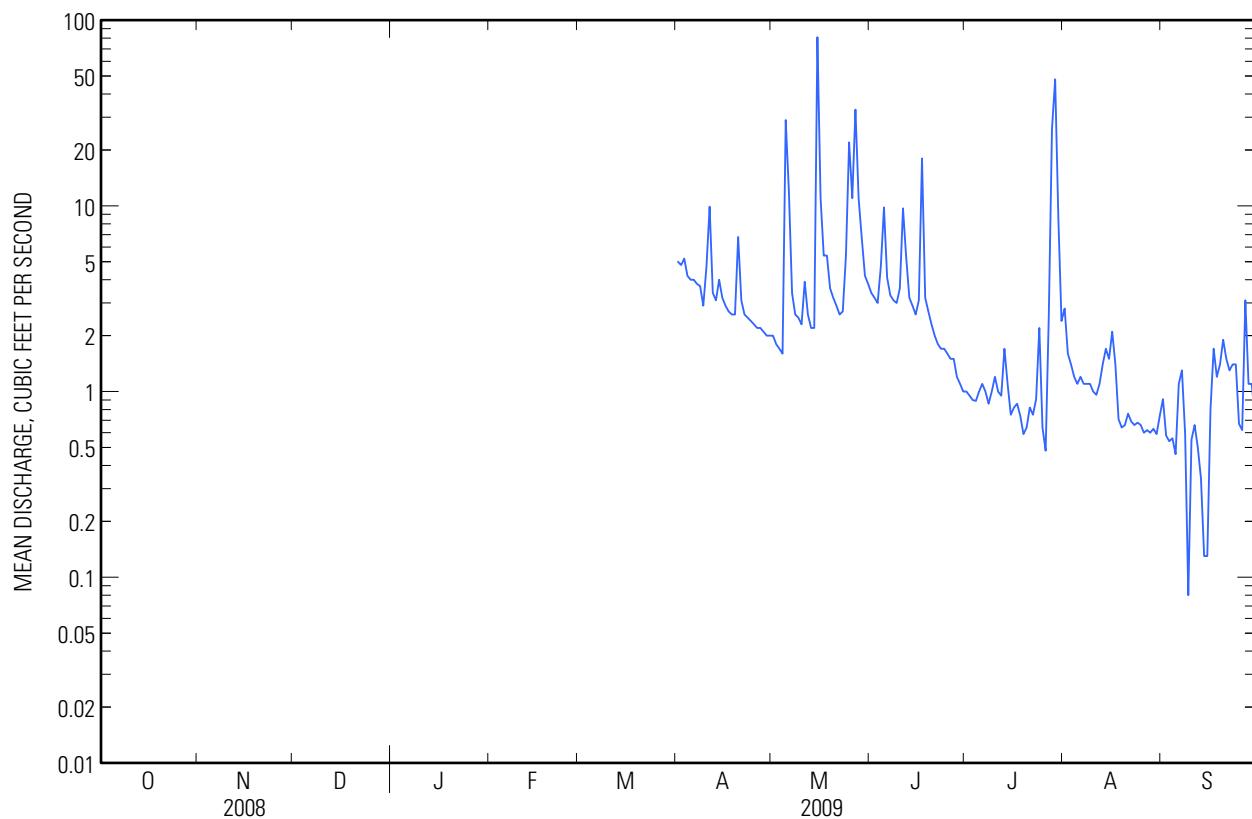
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	5.0	2.0	3.4	1.0	2.8	0.91
2	---	---	---	---	---	---	4.8	1.8	3.2	0.95	1.6	0.58
3	---	---	---	---	---	---	5.2	1.7	3.0	0.90	1.4	0.54
4	---	---	---	---	---	---	4.2	1.6	4.7	0.89	1.2	0.56
5	---	---	---	---	---	---	4.0	29	9.8	1.00	1.1	0.46
6	---	---	---	---	---	---	4.0	12	4.1	1.1	1.2	1.1
7	---	---	---	---	---	---	3.8	3.4	3.3	1.0	1.1	1.3
8	---	---	---	---	---	---	3.7	2.6	3.1	0.86	1.1	0.59
9	---	---	---	---	---	---	2.9	2.5	3.0	1.0	1.1	0.08
10	---	---	---	---	---	---	4.7	2.3	3.6	1.2	1.0	0.55
11	---	---	---	---	---	---	9.9	3.9	9.7	1.0	0.96	0.66
12	---	---	---	---	---	---	3.4	2.6	5.3	0.95	1.1	0.50
13	---	---	---	---	---	---	3.1	2.2	3.2	1.7	1.4	0.34
14	---	---	---	---	---	---	4.0	2.2	2.9	1.1	1.7	0.13
15	---	---	---	---	---	---	3.2	81	2.6	0.75	1.5	0.13
16	---	---	---	---	---	---	2.9	11	3.1	0.82	2.1	0.80
17	---	---	---	---	---	---	2.7	5.4	18	0.86	1.4	1.7
18	---	---	---	---	---	---	2.6	5.4	3.2	0.74	0.71	1.2
19	---	---	---	---	---	---	2.6	3.6	2.7	0.59	0.64	1.4
20	---	---	---	---	---	---	6.8	3.2	2.3	0.64	0.66	1.9
21	---	---	---	---	---	---	3.1	2.9	2.0	0.82	0.76	1.5
22	---	---	---	---	---	---	2.6	2.6	1.8	0.75	0.69	1.3
23	---	---	---	---	---	---	2.5	2.7	1.7	0.91	0.66	1.4
24	---	---	---	---	---	---	2.4	5.4	1.7	2.2	0.68	1.4
25	---	---	---	---	---	---	2.3	22	1.6	0.64	0.66	0.67
26	---	---	---	---	---	---	2.2	11	1.5	0.48	0.60	0.62
27	---	---	---	---	---	---	2.2	33	1.5	2.6	0.62	3.1
28	---	---	---	---	---	---	2.1	11	1.2	26	0.60	1.1
29	---	---	---	---	---	---	2.0	6.7	1.1	48	0.63	1.1
30	---	---	---	---	---	---	2.0	4.2	1.00	8.7	0.59	0.73
31	---	---	---	---	---	---	---	3.8	---	2.4	0.74	---
Total	---	---	---	---	---	---	106.9	284.7	109.30	112.55	33.00	28.35
Mean	---	---	---	---	---	---	3.56	9.18	3.64	3.63	1.06	0.94
Max	---	---	---	---	---	---	9.9	81	18	48	2.8	3.1
Min	---	---	---	---	---	---	2.0	1.6	1.0	0.48	0.59	0.08
Cfsm	---	---	---	---	---	---	0.42	1.08	0.43	0.43	0.13	0.11
In.	---	---	---	---	---	---	0.47	1.25	0.48	0.49	0.14	0.12

SUMMARY STATISTICS**April 2009 – September 2009**

Highest daily mean	81	May 15
Lowest daily mean	0.08	Sep 9
Annual seven-day minimum	0.34	Sep 9
Instantaneous low flow	^a 0.00	Sep 26

^a See Remarks.

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC—Continued



0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, 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	0.05	22	5.1	6.8	8.2	4.4	4.5	2.3	13	4.4	5.6	1.8
2	0.31	4.5	99	6.1	25	5.4	4.4	2.3	19	2.0	4.0	1.5
3	0.30	3.4	28	5.8	24	8.1	4.4	2.6	4.7	1.6	15	1.4
4	0.04	3.2	8.5	5.7	12	5.6	4.3	2.5	2.2	1.4	6.1	1.1
5	2.1	3.5	6.9	5.5	366	4.8	3.9	2.1	1.8	1.3	71	1.1
6	1.5	4.1	5.8	5.8	46	4.6	3.4	2.0	1.8	1.4	20	1.1
7	0.95	4.2	5.2	5.3	13	4.6	3.4	2.0	2.1	0.99	8.9	1.1
8	0.73	4.4	13	5.4	8.9	4.5	3.4	1.9	1.5	0.77	5.5	1.0
9	1.3	4.4	141	5.3	8.2	4.4	3.7	1.8	1.4	0.73	4.8	1.1
10	1.1	25	12	5.0	7.4	4.6	3.1	1.8	4.8	0.75	4.1	0.88
11	0.89	255	6.6	4.4	6.4	5.5	3.1	2.1	3.2	0.62	4.1	0.85
12	0.95	57	5.4	4.4	6.2	48	3.0	2.1	1.6	e392	4.0	1.0
13	1.0	12	6.8	4.3	7.2	35	3.0	2.0	13	17	3.8	0.83
14	0.74	7.9	5.9	4.4	6.4	7.8	2.9	1.9	4.7	7.8	33	0.80
15	1.0	6.3	5.2	4.4	9.7	5.6	3.0	1.8	2.2	5.2	20	0.70
16	0.95	5.8	4.6	4.6	7.3	4.8	2.9	1.8	1.9	6.0	6.0	0.54
17	0.77	5.6	4.3	74	6.2	4.4	2.6	4.8	1.6	6.7	3.8	0.53
18	0.70	5.7	29	11	5.7	4.3	2.5	2.7	1.5	4.9	3.8	0.55
19	0.65	5.7	30	6.9	5.4	4.8	2.5	2.1	1.5	4.4	11	0.51
20	0.65	5.6	9.4	5.9	5.3	4.6	2.5	1.9	2.0	4.1	6.3	0.49
21	0.68	5.5	7.1	28	5.1	4.4	2.7	2.3	1.3	4.2	3.7	0.43
22	0.66	5.9	6.2	18	13	5.3	2.6	2.1	1.2	4.6	3.1	0.48
23	0.70	25	5.5	8.6	7.5	4.3	2.4	1.9	1.1	3.5	2.8	0.38
24	1.5	7.9	5.3	32	7.6	3.9	2.4	2.2	1.1	2.9	2.7	0.35
25	1.5	6.5	e301	e367	7.2	4.1	4.1	2.1	0.88	2.8	2.8	0.54
26	1.1	6.1	22	13	5.8	4.8	2.6	1.8	0.70	2.3	2.7	1.5
27	10	6.2	11	8.1	4.8	4.6	2.8	1.6	0.72	124	2.6	5.1
28	11	5.6	8.2	6.8	4.6	4.8	3.0	1.7	0.79	14	2.4	2.3
29	3.3	4.5	6.9	6.0	---	9.7	2.5	2.6	0.74	5.1	2.2	4.1
30	3.2	4.8	6.4	7.0	---	5.2	2.4	1.7	67	4.0	2.1	9.9
31	3.6	---	9.1	7.1	---	4.7	---	9.3	---	5.9	2.0	---
Total	53.92	523.3	820.4	682.6	640.1	231.6	94.0	73.8	161.03	637.36	269.9	43.96
Mean	1.74	17.4	26.5	22.0	22.9	7.47	3.13	2.38	5.37	20.6	8.71	1.47
Max	11	255	301	367	366	48	4.5	9.3	67	392	71	9.9
Min	0.04	3.2	4.3	4.3	4.6	3.9	2.4	1.6	0.70	0.62	2.0	0.35
Cfsm	0.20	2.05	3.11	2.59	2.69	0.88	0.37	0.28	0.63	2.42	1.02	0.17
In.	0.24	2.29	3.59	2.99	2.80	1.01	0.41	0.32	0.70	2.79	1.18	0.19

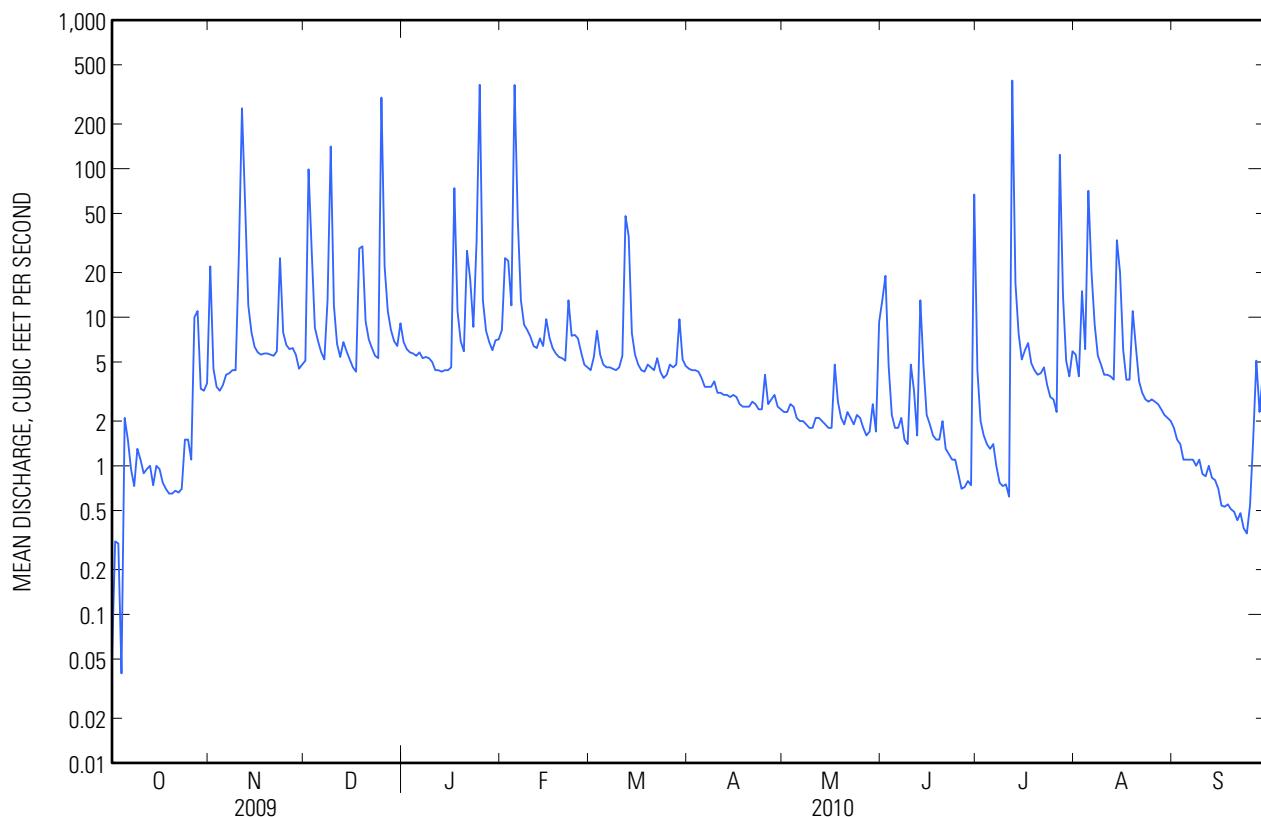
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.74	17.4	26.5	22.0	22.9	7.47	3.35	5.78	4.51	12.1	4.89	1.21
Max	1.74	17.4	26.5	22.0	22.9	7.47	3.56	9.18	5.37	20.6	8.71	1.47
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2010)	(2010)	(2010)
Min	1.74	17.4	26.5	22.0	22.9	7.47	3.13	2.38	3.64	3.63	1.06	0.94
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2009)

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC—Continued**SUMMARY STATISTICS**

	Water Year 2010		Water Years 2009 - 2010	
Annual total	4,231.97			
Annual mean	11.6		11.6	2010
Highest annual mean			11.6	2010
Lowest annual mean			11.6	2010
Highest daily mean	392	Jul 12	392	Jul 12, 2010
Lowest daily mean	0.04	Oct 4	0.04	Oct 4, 2009
Annual seven-day minimum	0.45	Sep 19	0.34	Sep 9, 2009
Maximum peak flow	Not determined		Not determined	
Maximum peak stage	10.06	Jul 12	10.06	Jul 12, 2010
Instantaneous low flow	^a 0.01	Oct 1	^a 0.00	Sep 26, 2009
Annual runoff (cfsm)	1.36		1.36	
Annual runoff (inches)	18.52		18.53	
10 percent exceeds	13		13	
50 percent exceeds	4.4		4.4	
90 percent exceeds	0.88		0.88	

^a See Remarks.



Water-Data Report 2011

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.7	1.1	8.3	2.1	1.4	5.7	5.0	1.6	1.2	0.68	7.4	0.55
2	1.2	1.1	1.4	3.1	8.4	2.0	3.7	1.6	1.1	0.58	2.3	1.3
3	1.1	1.2	1.2	1.6	1.8	1.6	3.1	1.5	1.0	0.55	1.7	2.4
4	1.3	2.7	1.2	1.4	17	1.5	2.9	5.7	0.98	0.49	1.4	0.64
5	1.0	1.6	1.3	1.3	17	1.6	8.2	1.9	0.95	0.54	118	0.56
6	0.96	1.1	1.1	1.7	3.5	23	3.6	1.8	0.72	1.1	7.4	1.0
7	0.96	1.1	1.1	1.3	2.2	8.8	2.9	1.8	0.36	0.61	3.5	0.56
8	0.95	1.1	1.1	1.2	1.9	5.7	2.7	1.6	0.32	0.66	4.3	0.46
9	0.96	1.1	1.1	1.2	1.5	14	4.3	1.4	5.2	0.84	4.8	0.44
10	0.95	0.99	1.2	1.6	1.5	27	5.3	1.4	3.7	0.58	1.9	0.38
11	0.94	1.0	1.2	2.2	1.4	9.4	3.1	2.9	18	0.51	1.3	0.35
12	0.97	1.0	2.7	2.0	1.3	6.2	2.7	1.8	26	1.0	0.93	0.35
13	1.0	1.1	1.5	1.7	1.3	5.2	2.4	1.6	2.5	1.6	0.97	0.32
14	0.95	1.1	1.0	1.5	1.3	4.5	2.3	1.9	1.4	1.8	1.3	0.31
15	0.90	0.99	1.1	1.5	1.1	3.7	2.2	2.5	1.2	0.61	2.6	0.31
16	0.95	1.0	1.3	1.7	1.2	3.2	4.5	1.5	1.1	0.58	0.93	0.22
17	0.99	1.3	1.4	1.7	1.2	2.6	2.8	3.3	1.0	0.52	0.74	0.22
18	0.92	1.2	1.2	2.2	1.2	2.4	2.2	2.1	1.0	0.42	0.67	0.45
19	0.94	1.1	1.2	1.9	1.2	2.3	2.2	1.6	1.3	0.36	0.68	0.43
20	0.90	1.1	1.1	1.7	1.2	2.2	2.0	1.5	1.3	0.21	0.64	0.46
21	0.96	1.1	1.1	1.6	1.2	2.2	2.0	1.3	1.2	0.16	0.70	2.0
22	0.88	1.0	1.2	1.5	1.2	2.2	2.7	1.2	4.1	0.25	5.4	1.5
23	0.72	1.0	1.1	1.6	1.1	2.2	2.4	1.2	1.2	0.21	1.8	31
24	0.60	1.1	1.1	1.4	1.2	2.4	2.1	1.1	1.4	2.4	1.7	24
25	2.2	1.1	1.2	1.5	1.4	2.1	1.9	1.0	1.5	2.3	1.7	3.9
26	2.1	1.2	2.3	2.5	1.3	5.3	1.8	0.97	0.96	5.7	1.7	1.8
27	1.2	1.3	1.7	1.9	1.3	17	1.8	11	0.88	0.79	1.7	1.4
28	1.3	1.2	1.3	1.6	8.1	7.0	2.0	6.0	3.2	0.39	1.7	3.0
29	1.2	1.1	1.3	1.5	---	4.5	1.7	2.1	4.2	0.30	1.6	0.81
30	1.1	1.7	1.3	1.4	---	26	1.6	1.5	1.0	0.25	1.6	0.59
31	1.2	---	1.3	1.5	---	7.9	---	1.4	---	93	1.6	---
Total	34.00	35.78	47.6	52.6	85.4	211.4	88.1	69.77	89.97	119.99	184.66	81.71
Mean	1.10	1.19	1.54	1.70	3.05	6.82	2.94	2.25	3.00	3.87	5.96	2.72
Max	2.2	2.7	8.3	3.1	17	27	8.2	11	26	93	118	31
Min	0.60	0.99	1.0	1.2	1.1	1.5	1.6	0.97	0.32	0.16	0.64	0.22
Cfsm	0.13	0.14	0.18	0.20	0.36	0.80	0.35	0.26	0.35	0.46	0.70	0.32
In.	0.15	0.16	0.21	0.23	0.37	0.93	0.39	0.31	0.39	0.53	0.81	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.42	9.32	14.0	11.9	13.0	7.15	3.21	4.61	4.00	9.35	5.24	1.71
Max	1.74	17.4	26.5	22.0	22.9	7.47	3.56	9.18	5.37	20.6	8.71	2.72
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2010)	(2010)	(2011)
Min	1.10	1.19	1.54	1.70	3.05	6.82	2.94	2.25	3.00	3.63	1.06	0.94
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2009)	(2009)	(2009)

0212467451 GOOSE CREEK AT SECONDARY ROAD 1524 NEAR INDIAN TRAIL, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2009 - 2011	
Annual total	2,951.73	1,100.98		
Annual mean	8.09	3.02	7.31	
Highest annual mean			11.6	2010
Lowest annual mean			3.02	2011
Highest daily mean	392	Jul 12	392	Jul 12, 2010
Lowest daily mean	0.35	Sep 24	0.04	Oct 4, 2009
Annual seven-day minimum	0.45	Sep 19	0.30	Sep 11, 2011
Maximum peak flow			Not determined	
Maximum peak stage		6.42	10.06	Jul 12, 2010
Instantaneous low flow		^a 0.00	^a 0.00	Sep 26, 2009
Annual runoff (cfsm)	0.951	0.355	0.859	
Annual runoff (inches)	12.92	4.82	11.68	
10 percent exceeds	8.7	4.9	8.6	
50 percent exceeds	2.5	1.4	2.1	
90 percent exceeds	0.96	0.60	0.73	

^a See Remarks.

