01362342 HOLLOW TREE BROOK AT LANESVILLE, NY

Upper Hudson Basin
Middle Hudson Subbasin

LOCATION.--Lat 42°08′32″, long 74°15′55″ referenced to North American Datum of 1927, Greene County, NY, Hydrologic Unit 02020006, on left bank downstream from bridge on Diamond Notch Road, about 1.0 mi upstream from mouth, and about 1.0 mi north of Lanesville.

DRAINAGE AREA.--1.95 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional miscellaneous discharge measurements, water years 1985-86, 1988-94. October 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,477.03 ft above NGVD of 1929.

REMARKS.--Records fair except those below 1.0 ft^3/s and those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 487 ft^3/s, Aug. 28, 2011, gage height, 5.89 ft, from rating curve extended above 230 ft^3/s on basis of step-backwater analysis; minimum, no flow Sept. 18, 19, 2001, as a result of temporary drainage of gage pool by local fire department; minimum gage height, 0.55 ft, Sept. 18, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	0330	396	4.56
Dec 1	1405	396	4.55
Mar 6	2120	51	2.56
Mar 11	0550	232	3.24
Apr 17	0510	111	2.67
May 19	0420	114	2.68
Aug 15	0850	149	2.91
Aug 28	1420	a*487	b*5.89
Sep 7	0450	c190	4.29
Sep 28	1855	c240	4.37

a From rating curve extended as explained above.

b Recorded; outside gage height was 5.50 ft, from crest-stage gage.

c About.

Minimum discharge, 0.85 ft^3/s, Aug. 13, gage height, 1.48 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01362342, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01362342.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	207	6.7	156	3.7	1.8	3.0	5.0	15	2.9	2.9	1.4	e14
2	37	5.9	87	3.9	e1.8	3.0	4.7	12	2.6	2.7	1.4	e11
3	14	5.6	20	3.9	1.8	3.1	4.5	10	2.3	9.0	1.3	e10
4	11	6.0	9.9	3.3	1.7	3.3	4.8	10	2.1	14	1.2	9.4
5	11	6.1	8.6	3.2	2.3	3.1	7.7	11	2.3	9.7	1.2	9.9
6	11	6.3	7.9	3.1	2.4	16	9.7	10	2.4	7.1	1.2	20
7	12	6.3	7.5	3.0	2.1	22	9.1	9.6	2.1	5.7	1.2	e115
8	11	6.3	7.1	2.9	2.1	9.4	8.5	8.6	2.0	4.6	1.1	e79
9	9.7	6.2	6.8	2.8	2.0	8.4	8.3	7.8	1.9	4.4	1.3	e43
10	9.1	6.1	6.3	2.6	2.0	9.1	8.9	7.2	1.7	3.8	1.3	e29
11	8.9	6.1	5.9	2.5	e1.9	159	16	6.4	1.8	3.4	1.1	22
12	8.5	6.3	6.6	2.5	2.0	65	28	5.7	2.0	2.9	1.1	16
13	6.9	6.1	8.3	2.3	2.0	31	24	5.3	1.8	2.6	1.0	13
14	5.3	5.9	8.2	2.2	2.2	20	20	4.9	1.6	2.3	1.1	11
15	5.8	5.8	7.6	e2.1	2.0	16	15	4.7	1.5	2.0	61	9.3
16	6.9	5.6	7.3	e2.0	1.9	13	17	7.6	1.4	1.8	35	7.3
17	7.4	10	7.4	e1.9	2.2	12	72	15	1.5	1.8	18	5.9
18	6.9	11	7.3	e2.3	3.3	20	33	44	1.4	1.7	11	4.9
19	6.5	9.4	7.0	e2.2	4.7	26	21	80	1.3	1.6	8.1	4.3
20	6.4	8.5	6.8	e2.1	4.2	20	17	31	1.3	1.5	6.2	4.0
21	6.2	7.7	6.5	e2.0	4.3	17	16	17	1.2	1.5	5.1	3.7
22	5.8	7.2	6.1	e1.8	3.9	14	14	11	1.3	1.5	4.5	3.8
23	5.0	6.7	5.6	e1.8	3.7	12	14	8.7	1.6	1.4	3.9	3.9
24	5.0	6.3	5.0	e1.7	3.4	10	14	7.8	1.9	1.4	3.5	5.0
25	5.0	5.9	e4.8	e1.7	3.6	8.8	15	7.0	3.1	2.4	3.2	5.1
26	5.3	5.9	e4.5	2.0	3.1	7.9	17	6.4	3.6	1.9	2.9	5.1
27	7.7	5.7	4.2	2.0	2.9	7.0	18	5.8	3.5	1.7	3.1	5.0
28	8.8	5.5	4.0	1.9	3.2	6.2	26	5.0	3.2	1.6	290	e111
29	8.8	5.2	3.7	1.9	---	5.7	28	4.3	3.3	1.6	e45	e97
30	7.8	5.3	3.5	1.8	---	5.3	19	3.8	3.1	1.5	e25	e54
31	7.2	---	3.5	1.8	---	5.1	---	3.3	---	1.4	e17	---
Total	474.9	197.6	440.9	74.9	74.5	561.4	515.2	385.9	63.7	103.4	559.4	731.6
Mean	15.3	6.59	14.2	2.42	2.66	18.1	17.2	12.4	2.12	3.34	18.0	24.4
Max	207	11	156	3.9	4.7	159	72	80	3.6	14	290	115
Min	5.0	5.2	3.5	1.7	1.7	3.0	4.5	3.3	1.2	1.4	1.0	3.7
Cfsm	7.86	3.38	7.29	1.24	1.36	9.29	8.81	6.38	1.09	1.71	9.25	12.5
In.	9.06	3.77	8.41	1.43	1.42	10.71	9.83	7.36	1.22	1.97	10.67	13.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.20	6.48	7.09	6.26	3.77	9.93	11.5	6.84	5.99	2.82	4.11	5.48
Max	15.3	13.1	15.1	12.5	10.5	22.0	18.4	13.8	14.2	5.12	18.0	24.4
(WY)	(2011)	(2006)	(2004)	(1998)	(2008)	(2010)	(2001)	(1998)	(2006)	(2009)	(2011)	(2011)
Min	1.06	1.02	1.69	2.10	1.41	2.33	4.84	3.94	1.42	0.85	0.55	0.40
(WY)	(1998)	(2002)	(1999)	(2002)	(2004)	(2006)	(2006)	(2010)	(2010)	(2010)	(2002)	(2002)

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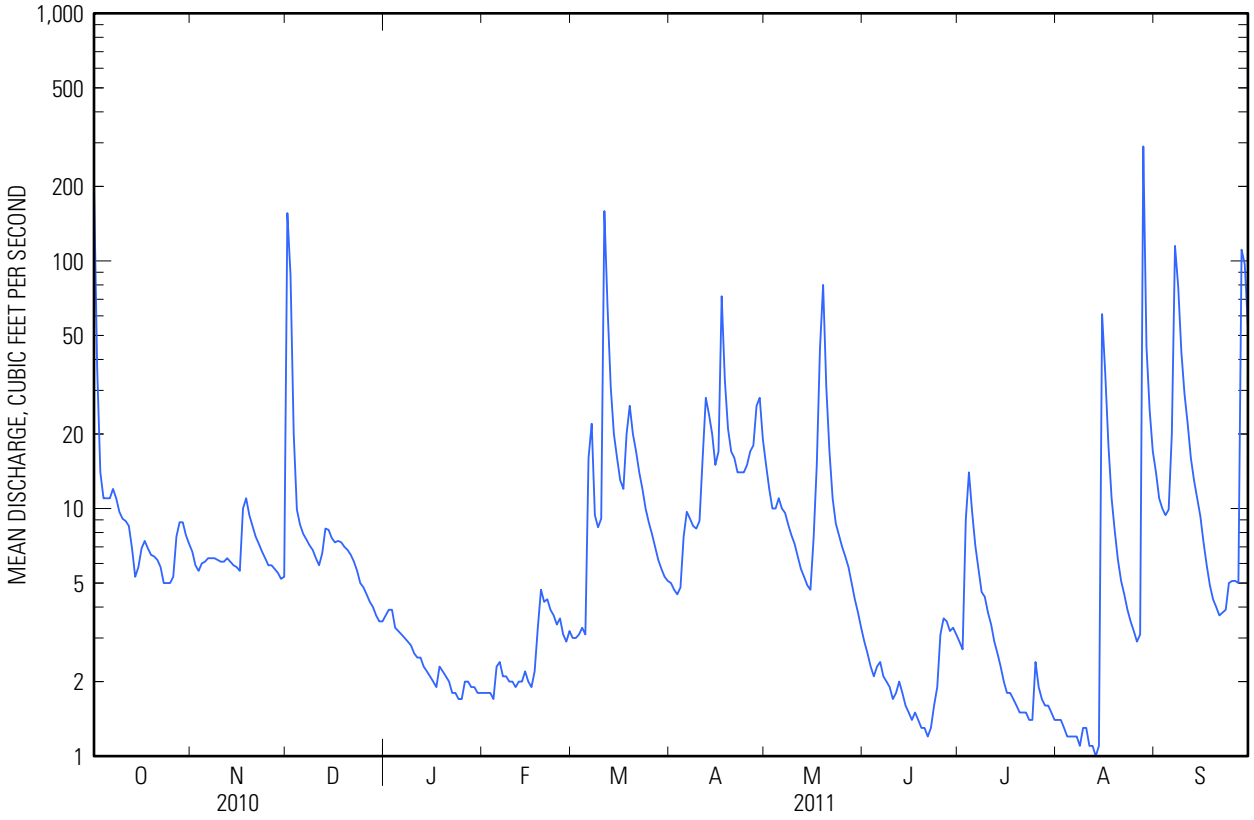
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1998 - 2011	
Annual total	2,925.54		4,183.4			
Annual mean	8.02		11.5		6.38	
Highest annual mean					11.5	2011
Lowest annual mean					3.42	2002
Highest daily mean	207	Oct 1	290	Aug 28	290	Aug 28, 2011
Lowest daily mean	0.29	Aug 21	1.0	Aug 13	0.17	Sep 25, 2002
Annual seven-day minimum	0.38	Aug 15	1.1	Aug 8	0.23	Sep 20, 2002
Annual runoff (cfsm)	4.11		5.88		3.27	
Annual runoff (inches)	55.81		79.81		44.46	
10 percent exceeds	15		20		13	
50 percent exceeds	4.0		5.6		3.8	
90 percent exceeds	0.67		1.7		1.2