Water-Data Report 2012

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY

Upper Delaware Basin
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 41°59'45.9", long 74°30'00.8" referenced to North American Datum of 1983, Ulster County, NY, Hydrologic Unit 02040104, on right bank 0.3 mi upstream from Pigeon Brook, 0.7 mi upstream from mouth, and 0.8 mi northeast of Frost Valley.

DRAINAGE AREA.--3.72 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water year 1983. June 1983 to current year.

REVISED RECORDS.--WDR NY-91-1: Drainage area. WDR NY-94-1: 1984(P), 1985(M), 1987(P), 1989(P), 1993(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,078.02 ft above NGVD of 1929. Prior to Sept. 11, 1987, at datum 6.00 ft higher and prior to Sept. 6, 2011, at datum 5.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,500 ft^3/s, Aug. 28, 2011, gage height, 11.37 ft, present datum, from crest-stage gage, from rating curve extended above 390 ft^3/s on basis of runoff comparisons with nearby stations; minimum discharge, 0.24 ft^3/s, Sept. 2, 3, 1991, gage height, 5.75 ft, present datum; minimum gage height, 2.20 ft, Aug. 9, 10, Sept. 2, 3, 2012.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep 18	1600	*639	*8.55
No other peak greater than base discharge			

Minimum discharge, 1.2 ft^3/s, on several days in August and September; minimum gage height, 2.20 ft, Aug. 9, 10, Sept. 2, 3.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01434025, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01434025.2012.pdf

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24	7.2	11	9.5	10	5.1	7.1	9.3	9.0	2.3	1.5	1.2
2	e22	7.4	9.8	9.5	9.8	4.8	7.3	8.1	15	2.1	1.4	1.2
3	e17	7.6	9.1	e8.6	8.9	6.0	6.9	8.9	12	2.0	1.3	1.2
4	e14	7.5	8.6	e8.0	8.5	5.3	6.6	12	12	2.4	1.3	1.6
5	e12	7.2	8.2	e7.8	e7.9	e5.0	6.3	8.9	11	2.5	1.7	9.6
6	e10	7.0	11	e7.7	e7.6	e5.1	6.1	8.0	9.4	1.9	1.6	2.5
7	e9.4	6.9	20	7.5	e7.4	e5.3	6.0	7.7	8.4	1.8	1.3	1.8
8	e8.5	6.8	22	7.2	e7.2	7.5	5.9	21	7.7	1.8	1.2	6.0
9	e7.9	6.6	14	6.9	e7.0	11	5.9	23	7.4	1.7	1.2	5.0
10	e7.4	6.6	12	6.7	e6.8	e7.0	5.8	17	6.8	1.7	1.7	2.6
11	e7.0	6.6	10	6.5	6.7	e6.9	5.7	15	6.3	1.7	8.7	2.0
12	e6.7	6.2	9.8	7.0	e6.4	8.0	5.6	13	9.3	1.6	3.2	1.8
13	e7.9	6.1	9.2	8.0	e6.3	12	5.5	12	12	1.6	1.8	1.7
14	e15	6.4	8.9	e6.8	e6.2	14	5.4	13	7.8	1.6	1.6	1.7
15	e13	6.7	9.5	e5.6	6.2	12	5.4	35	6.7	1.8	4.1	1.7
16	e9.8	7.1	10	e5.8	6.0	12	5.3	24	6.1	1.8	2.2	1.6
17	e9.5	7.2	9.0	e7.0	5.9	12	5.1	18	5.7	1.6	1.7	1.6
18	e8.8	6.4	e8.0	e7.1	5.7	11	5.0	15	5.4	1.5	1.7	111
19	e8.3	6.3	e7.6	e6.1	5.6	11	5.0	14	5.3	1.4	1.6	33
20	e11	6.2	7.9	e6.2	e5.6	12	4.9	12	4.8	2.0	1.5	17
21	e8.7	6.1	9.1	e6.1	e5.5	10	5.8	13	4.2	1.6	1.5	14
22	e8.0	6.4	11	e5.6	5.5	9.3	9.1	17	4.0	1.5	1.4	14
23	e7.9	17	11	11	e5.5	8.7	21	20	3.7	3.9	1.4	14
24	e7.8	11	9.2	14	e5.4	8.2	16	17	3.5	1.7	1.3	12
25	e7.5	9.2	8.8	8.0	5.3	7.9	14	16	4.0	1.5	1.3	12
26	e7.4	8.5	8.4	7.5	e5.3	7.6	12	14	3.5	1.8	1.3	12
27	7.5	8.0	12	29	e5.2	7.4	11	13	3.1	1.7	1.3	12
28	7.3	7.7	16	17	5.1	7.4	9.9	11	2.8	2.4	3.3	21
29	7.1	11	e11	13	e5.0	7.1	9.0	13	2.7	2.4	1.5	14
30	7.0	17	10	11	---	6.7	8.3	13	2.4	1.7	1.4	11
31	6.9	---	9.6	10	---	6.9	---	10	---	1.5	1.3	---
Total	312.3	237.9	331.7	277.7	189.5	260.2	232.9	451.9	202.0	58.5	59.3	341.8
Mean	10.1	7.93	10.7	8.96	6.53	8.39	7.76	14.6	6.73	1.89	1.91	11.4
Max	24	17	22	29	10	14	21	35	15	3.9	8.7	111
Min	6.7	6.1	7.6	5.6	5.0	4.8	4.9	7.7	2.4	1.4	1.2	1.2
Cfsm	2.71	2.13	2.88	2.41	1.76	2.26	2.09	3.92	1.81	0.51	0.51	3.06
In.	3.12	2.38	3.32	2.78	1.90	2.60	2.33	4.52	2.02	0.58	0.59	3.42

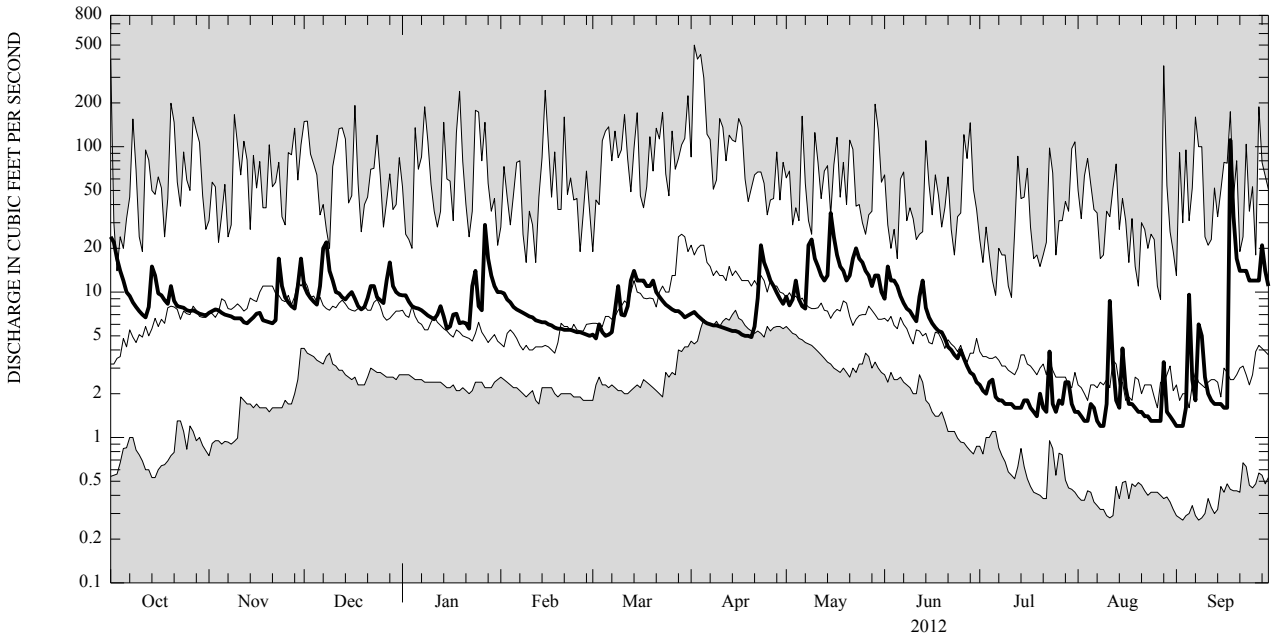
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.6	12.7	12.8	10.9	8.38	17.2	21.8	12.1	7.93	5.08	5.19	6.97
Max	25.7	20.8	26.5	26.5	28.3	37.5	54.3	33.1	25.6	15.7	21.7	27.0
(WY)	(2006)	(2004)	(2009)	(1999)	(1984)	(2010)	(1993)	(1989)	(2006)	(1996)	(2003)	(2003)
Min	1.00	2.58	4.43	2.65	2.26	4.48	7.76	4.57	1.83	0.74	0.65	0.67
(WY)	(1985)	(2002)	(1990)	(1989)	(1987)	(2001)	(2012)	(1995)	(1991)	(1991)	(1993)	(1998)

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1983 - 2012	
Annual total	5,405.7		2,955.7			
Annual mean	14.8		8.08		11.0	
Highest annual mean					16.6	2011
Lowest annual mean					6.79	1985
Highest daily mean	360	Aug 28	111	Sep 18	500	Apr 2, 2005
Lowest daily mean	1.8	Aug 12	1.2	Aug 8	0.27	Sep 3, 1991
Annual seven-day minimum	2.1	Aug 8	1.3	Aug 29	0.31	Sep 7, 1991
Annual runoff (cfsm)	3.98		2.17		2.96	
Annual runoff (inches)	54.06		29.56		40.18	
10 percent exceeds	26		14		22	
50 percent exceeds	8.7		7.2		6.4	
90 percent exceeds	3.6		1.6		1.7	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.