01434021 WEST BRANCH NEVERSINK RIVER AT WINNISOOK LAKE NEAR FROST VALLEY, NY

Upper Delaware Basin
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 42°00′40″, long 74°24′53″ referenced to North American Datum of 1927, Ulster County, NY, Hydrologic Unit 02040104, on right bank 0.1 mi southwest of Winnisook Lake, and 4.5 mi northeast of Frost Valley.

DRAINAGE AREA.--0.77 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1991 to current year.

REVISED RECORDS.--WDR NY-94-1: 1992-93(P). WDR NY-01-1: 2000.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,675.51 ft above NGVD of 1929.

REMARKS.--Records fair except those below 1.0 ft^3/s, those for estimated daily discharges, and those for Aug. 28 to Sept. 30, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 344 ft^3/s, Aug. 28, 2011, gage height, 4.76 ft, from rating curve extended above 65 ft^3/s on basis of runoff comparisons with nearby stations; minimum discharge, 0.05 ft^3/s, Aug. 6, 7, 8, 1991, gage height, 0.93 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	0310	a262	3.86
Dec 1	1415	a222	3.41
Mar 6	1245	a136	2.46
Mar 11	0355	112	2.22
Apr 16	2220	71	1.89
Apr 28	1030	67	1.86
May 18	1935	124	2.34
Aug 15	1540	58	1.86
Aug 28	0600	a*344	*4.76
Sep 7	0320	86	1.94

a From rating curve extended as explained above.

Minimum discharge, 0.18 ft^3/s, Aug. 12, 13, gage height, 1.20 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 01434021, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01434021.2011.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	76	2.0	65	1.2	0.66	e1.2	1.6	5.1	2.1	2.6	0.36	1.6
2	7.1	1.8	10	1.6	e0.69	1.2	1.5	4.6	1.8	2.2	0.35	1.3
3	4.3	1.6	5.0	e1.2	0.68	1.2	1.5	4.1	1.6	15	0.32	1.1
4	3.9	2.2	3.7	e1.1	0.75	1.3	1.6	6.3	1.5	8.7	0.31	1.0
5	6.7	3.0	3.0	1.0	e1.1	1.2	5.0	6.0	1.4	4.4	0.27	2.7
6	6.0	2.9	2.8	e1.0	e0.80	43	3.3	5.0	1.2	3.1	0.44	16
7	3.9	2.4	2.3	e1.0	0.68	15	2.8	4.2	1.1	2.7	0.42	42
8	3.1	2.2	2.0	e0.96	0.66	5.8	2.6	3.8	0.94	2.4	0.27	24
9	2.7	2.1	1.7	e0.90	e0.67	3.6	2.7	3.6	0.90	2.1	0.35	5.2
10	2.1	2.1	1.7	e0.85	e0.66	4.8	3.2	3.2	0.85	1.8	0.34	2.9
11	2.0	2.1	1.4	e0.81	e0.65	43	13	3.0	1.0	1.6	0.24	2.1
12	1.8	2.0	3.4	e0.80	e0.63	7.6	15	2.9	1.3	1.4	0.21	1.7
13	1.6	1.9	6.6	e0.77	e0.63	4.4	12	2.8	0.91	1.3	0.21	1.4
14	1.7	1.8	3.3	e0.75	e0.70	3.5	11	2.7	0.90	e1.2	0.26	1.3
15	2.6	1.7	2.4	e0.75	0.60	3.1	8.1	2.8	0.79	1.0	23	1.1
16	3.4	1.7	2.1	e0.75	0.62	3.2	12	4.3	0.73	0.97	14	0.99
17	3.0	6.8	1.9	e0.74	0.67	3.3	22	12	0.78	0.83	3.5	0.78
18	2.7	4.1	1.7	e0.98	0.99	6.0	8.5	39	0.70	0.78	2.1	0.64
19	2.2	3.1	1.5	e1.2	1.1	5.3	8.3	36	0.63	0.72	5.9	0.55
20	2.1	2.7	1.3	e0.83	1.1	4.1	12	5.8	0.60	0.63	5.0	0.53
21	1.9	2.3	1.3	e0.80	0.81	3.7	9.5	4.0	0.58	0.55	3.2	0.47
22	1.7	2.1	1.2	e0.78	0.66	3.3	6.4	3.2	0.71	0.54	3.4	1.2
23	1.5	2.1	1.2	e0.77	0.65	3.0	7.7	2.8	1.1	0.52	2.3	1.7
24	1.5	2.0	1.2	e0.75	0.68	2.7	11	3.4	4.0	0.51	1.6	4.8
25	1.6	1.7	1.2	e0.78	e0.82	2.2	12	2.7	6.1	0.81	1.6	3.2
26	1.8	2.1	1.1	e0.79	1.00	e2.1	14	2.4	3.2	0.60	1.5	2.4
27	8.3	2.0	1.0	e0.77	0.91	e2.0	16	2.2	2.1	0.50	1.5	2.2
28	4.5	1.7	1.0	0.78	e1.1	e1.9	25	1.9	3.1	0.46	124	22
29	3.2	1.5	1.0	0.69	---	1.8	8.8	1.7	7.5	0.43	9.8	31
30	2.7	1.7	1.0	0.68	---	1.6	6.0	2.8	3.8	0.40	3.3	8.4
31	2.2	---	1.1	0.62	---	1.6	---	2.3	---	0.38	2.1	---
Total	169.8	69.4	135.1	27.40	21.67	187.7	264.1	186.6	53.92	61.13	212.15	186.26
Mean	5.48	2.31	4.36	0.88	0.77	6.05	8.80	6.02	1.80	1.97	6.84	6.21
Max	76	6.8	65	1.6	1.1	43	25	39	7.5	15	124	42
Min	1.5	1.5	1.0	0.62	0.60	1.2	1.5	1.7	0.58	0.38	0.21	0.47
Cfsm	7.11	3.00	5.66	1.15	1.01	7.86	11.4	7.82	2.33	2.56	8.89	8.06
In.	8.20	3.35	6.53	1.32	1.05	9.07	12.76	9.01	2.60	2.95	10.25	9.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.74	3.23	2.63	2.72	1.33	3.50	5.91	2.92	2.30	1.49	1.57	2.41
Max	10.5	5.58	5.85	5.65	5.96	7.02	12.1	7.69	10.3	4.59	6.84	7.98
(WY)	(2006)	(2006)	(1997)	(1998)	(2008)	(2010)	(1993)	(1998)	(2006)	(1996)	(2011)	(2003)
Min	0.54	0.69	0.67	0.52	0.42	0.74	1.57	1.10	0.34	0.14	0.18	0.16
(WY)	(2002)	(2002)	(1998)	(2002)	(2004)	(2001)	(1995)	(1995)	(1991)	(1991)	(1993)	(1998)

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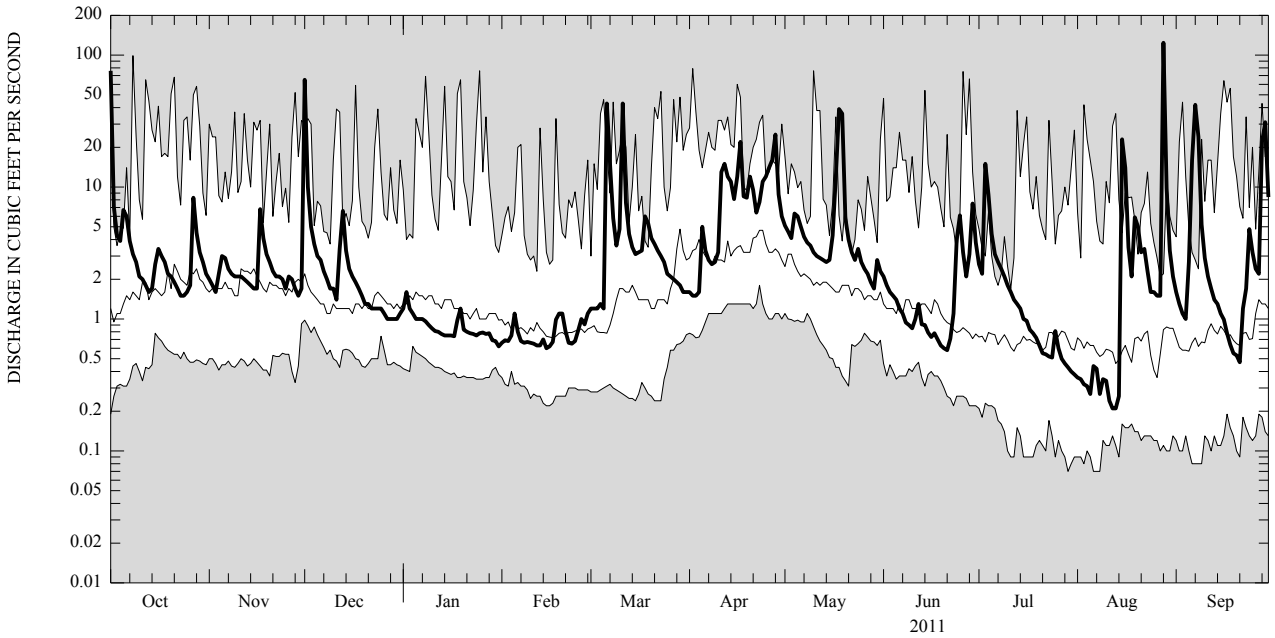
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1991 - 2011	
Annual total	1,174.54		1,575.23			
Annual mean	3.22		4.32		2.86	
Highest annual mean					4.32	2011
Lowest annual mean					1.47	1995
Highest daily mean	76	Jan 25	124	Aug 28	124	Aug 28, 2011
Lowest daily mean	0.12	Aug 21	0.21	Aug 12	0.07	Jul 29, 1991
Annual seven-day minimum	0.17	Aug 8	0.27	Aug 8	0.08	Aug 2, 1991
Annual runoff (cfsm)	4.18		5.60		3.72	
Annual runoff (inches)	56.74		76.10		50.50	
10 percent exceeds	5.2		8.3		5.3	
50 percent exceeds	1.2		1.8		1.3	
90 percent exceeds	0.36		0.64		0.41	



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.