

## Water-Data Report 2011

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

Upper Delaware Basin  
Middle Delaware-Mongaup-Brookhead 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<sup>2</sup>.

**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<sup>3</sup>/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<sup>3</sup>/s, Aug. 28, 2011, gage height, 4.76 ft, from rating curve extended above 65 ft<sup>3</sup>/s on basis of runoff comparisons with nearby stations; minimum discharge, 0.05 ft<sup>3</sup>/s, Aug. 6, 7, 8, 1991, gage height, 0.93 ft.

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

Date	Time	Discharge (ft <sup>3</sup> /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<sup>3</sup>/s, Aug. 12, 13, gage height, 1.20 ft.

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

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

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

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	3.74	3.23	2.63	2.72	1.33	3.50	5.91	2.92	2.30	1.49	1.57	2.41
<b>Max</b>	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)
<b>Min</b>	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)

**01434021 WEST BRANCH NEVERSINK RIVER AT WINNISOOK LAKE NEAR FROST VALLEY, NY—Continued****SUMMARY STATISTICS**

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

