

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

Web address: <http://water.usgs.gov/osw/odrm>

Summary river data for November 25 - December 1, 2013 (preliminary data-subject to revision)

RESERVOIR OPERATION DATA

Millions of gallons - 24 hour period, local time

Date	Discharge to river			Diversions to New York City water supply			
	Pepacton	Cannonsville	Neversink	Pepacton	Cannonsville	Neversink	Average June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Nov. 25	65	303	36	507	276	0	621
26	65	95	36	10	104	0	618
27	65	95	36	303	180	0	617
28	66	98	36	448	272	0	618
29	65	97	36	448	272	0	618
30	65	97	36	448	273	0	619
Dec. 1	65	97	36	448	273	0	620

Pepacton Reservoir (P):	Available storage Dec. 2, 2013 (0800) Spillway crest elevation 1,280.00 ft.	104.479 billion gals. 74.5 % (elev. 1,259.14 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 2, 2013 (0800) Spillway crest elevation 1,150.00 ft.	67.037 billion gals. 70.0 % (elev. 1,129.76 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 2, 2013 (0800) Spillway crest elevation 1,440.00 ft.	29.387 billion gals. 84.1 % (elev. 1,428.21 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 2, 2013 (0800) Combined capacity at spillway level.	200.903 billion gals. 74.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 1, 2013 (2400) Spillway crest elevation 1,190.00 ft.	17.138 billion gals. 48.3 % (elev. 1,180.0 ft.) 35.451 billion gallons.

SEGREGATION OF FLOW, DELAWARE RIVER AT MONTAGUE AND  
PRECIPITATION IN UPPER DELAWARE RIVER BASIN

Discharge in cubic feet per second, local time as routed to Montague

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled <sup>2</sup>	Total Discharge	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
Nov. 25	389	101	234	56	0	443	1,576	2,410	0	1.75
26	589	101	432	56	0	266	1,345	2,200	.06	1.81
27	625	101	469	56	0	71	2,583	3,280	1.54	3.35
28	0	101	147	56	0	89	9,907	10,300	.09	3.44
29	0	101	147	56	0	142	7,024	7,470	0	3.44
30	0	101	152	56	0	89	4,902	5,300	0	3.44
Dec. 1	0	102	150	56	8	106	3,968	4,390	0	0

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 80 cfs from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 25 - December 1, 2013 averaged 72.4 mgd. The average diversion for the 30-day period ending December 1, 2013 was 76.0 mgd and the maximum daily mean diversion was 86 mg on November 7-8, 2013.

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Summary river data for December 2-8, 2013 (preliminary data-subject to revision)

RESERVOIR OPERATION DATA

Millions of gallons - 24 hour period, local time

Date	Discharge to river			Diversions to New York City water supply			
	Pepacton	Cannonsville	Neversink	Pepacton	Cannonsville	Neversink	Average June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Dec. 2	65	97	36	451	273	0	620
3	65	97	36	426	250	0	620
4	65	97	36	299	0	0	619
5	65	98	36	299	0	0	617
6	65	98	36	399	187	0	617
7	65	98	36	448	273	0	617
8	66	98	38	431	253	0	618

Pepacton Reservoir (P):	Available storage Dec. 9, 2013 (0800) Spillway crest elevation 1,280.00 ft.	105.446 billion gals. 75.2 % (elev. 1,259.75 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 9, 2013 (0800) Spillway crest elevation 1,150.00 ft.	70.311 billion gals. 73.5 % (elev. 1,132.24 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 9, 2013 (0800) Spillway crest elevation 1,440.00 ft.	30.273 billion gals. 86.6 % (elev. 1,430.17 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 9, 2013 (0800) Combined capacity at spillway level.	206.030 billion gals. 76.1 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 8, 2013 (2400) Spillway crest elevation 1,190.00 ft.	18.018 billion gals. 50.8 % (elev. 1,180.5 ft.) 35.451 billion gallons.

SEGREGATION OF FLOW, DELAWARE RIVER AT MONTAGUE AND  
PRECIPITATION IN UPPER DELAWARE RIVER BASIN

Discharge in cubic feet per second, local time as routed to Montague

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled <sup>2</sup>	Total Discharge	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
Dec. 2	0	101	150	56	0	142	3,591	4,040	0	0
3	0	101	150	56	0	89	3,164	3,560	0	0
4	0	101	150	56	0	0	2,973	3,280	0	0
5	0	101	150	56	0	106	2,807	3,220	.02	.02
6	0	101	150	56	0	142	3,181	3,630	.42	.44
7	0	101	152	56	0	53	5,138	5,500	.46	.90
8	0	101	152	56	8	160	4,903	5,380	0	.90

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 80 cfs from Rio Reservoir.

Divisions by New Jersey through the D&R Canal December 2-8, 2013 averaged 73.8 mgd. The average diversion for the 30-day period ending December 8, 2013 was 74.4 mgd and the maximum daily mean diversion was 85 mgd on December 6, 2013.

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Summary river data for December 9-15, 2013 (preliminary data-subject to revision)

RESERVOIR OPERATION DATA

Millions of gallons - 24 hour period, local time

Date	Discharge to river			Diversions to New York City water supply			
	Pepacton	Cannonsville	Neversink	Pepacton	Cannonsville	Neversink	Average June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Dec. 9	97	122	48	446	276	0	618
10	97	145	48	308	400	0	619
11	97	142	48	180	411	0	619
12	97	143	48	208	440	94	619
13	97	145	48	368	311	115	620
14	97	145	48	398	273	0	620
15	97	146	48	364	250	0	620

Pepacton Reservoir (P):	Available storage Dec. 16, 2013 (0800) Spillway crest elevation 1,280.00 ft.	105.241 billion gals. 75.1 % (elev. 1,259.62 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 16, 2013 (0800) Spillway crest elevation 1,150.00 ft.	70.629 billion gals. 73.8 % (elev. 1,132.48 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 16, 2013 (0800) Spillway crest elevation 1,440.00 ft.	30.487 billion gals. 87.3 % (elev. 1,430.64 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 16, 2013 (0800) Combined capacity at spillway level.	206.357 billion gals. 76.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 15, 2013 (2400) Spillway crest elevation 1,190.00 ft.	18.722 billion gals. 52.8 % (elev. 1,180.9 ft.) 35.451 billion gallons.

SEGREGATION OF FLOW, DELAWARE RIVER AT MONTAGUE AND  
PRECIPITATION IN UPPER DELAWARE RIVER BASIN

Discharge in cubic feet per second, local time as routed to Montague

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled <sup>2</sup>	Total Discharge	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
Dec. 9	0	101	152	56	0	0	4,151	4,460	.03	.93
10	0	101	152	59	0	124	3,804	4,240	.01	.94
11	0	102	189	74	0	124	3,421	3,910	.03	.97
12	0	150	224	74	0	372	2,850	3,670	0	.97
13	0	150	220	74	0	496	2,330	3,270	0	.97
14	0	150	221	74	0	355	2,270	3,070	.03	1.00
15	0	150	224	74	8	177	2,125	2,750	.89	1.89

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 80 cfs from Rio Reservoir.

Diversion by New Jersey through the D&R Canal December 9-15, 2013 are currently unavailable.

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Summary river data for December 16-22, 2013 (preliminary data-subject to revision)

RESERVOIR OPERATION DATA

Millions of gallons - 24 hour period, local time

Date	Discharge to river			Diversions to New York City water supply			
	Pepacton	Cannonsville	Neversink	Pepacton	Cannonsville	Neversink	Average June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Dec. 16	97	146	48	0	427	0	619
17	97	146	48	237	311	96	619
18	97	146	48	350	274	152	620
19	97	146	48	350	115	149	620
20	97	146	48	336	0	129	619
21	97	146	48	0	0	0	616
22	97	147	48	0	0	0	613

Pepacton Reservoir (P):	Available storage Dec. 23, 2013 (0800) Spillway crest elevation 1,280.00 ft.	108.813 billion gals. 77.6 % (elev. 1,261.85 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 23, 2013 (0800) Spillway crest elevation 1,150.00 ft.	75.542 billion gals. 78.9 % (elev. 1,136.14 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 23, 2013 (0800) Spillway crest elevation 1,440.00 ft.	31.113 billion gals. 89.0 % (elev. 1,432.00 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 23, 2013 (0800) Combined capacity at spillway level.	215.468 billion gals. 79.6 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 22, 2013 (2400) Spillway crest elevation 1,190.00 ft.	19.794 billion gals. 55.8 % (elev. 1,181.5 ft.) 35.451 billion gallons.

SEGREGATION OF FLOW, DELAWARE RIVER AT MONTAGUE AND  
PRECIPITATION IN UPPER DELAWARE RIVER BASIN

Discharge in cubic feet per second, local time as routed to Montague

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled <sup>2</sup>	Total Discharge	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
Dec. 16	0	150	224	74	0	301	1,901	2,650	.04	1.93
17	0	150	226	74	0	532	1,618	2,600	.01	1.94
18	0	150	226	74	0	532	1,618	2,600	.16	2.10
19	0	150	226	74	0	532	1,768	2,750	.02	2.12
20	0	150	226	74	0	106	2,714	3,270	.03	2.15
21	0	150	226	74	0	213	2,507	3,170	.05	2.20
22	0	150	226	74	0	319	4,281	5,050	.22	2.42

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 80 cfs from Rio Reservoir between December 16-21, 2013 and 100 cfs on December 22, 2013 .

Diversion by New Jersey through the D&R Canal December 16-22, 2013 averaged 78.7 mgd. The average diversion for the 30-day period ending December 22, 2013 is currently unavailable and the maximum daily mean diversion for the 30-day period ending December 22, 2013 is currently unavailable.

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Summary river data for December 23-29, 2013 (preliminary data-subject to revision)

RESERVOIR OPERATION DATA

Millions of gallons - 24 hour period, local time

Date	Discharge to river			Diversions to New York City water supply			
	Pepacton	Cannonsville	Neversink	Pepacton	Cannonsville	Neversink	Average June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Dec. 23	98	146	48	328	223	26	613
24	97	146	48	353	302	130	614
25	98	145	48	353	303	22	614
26	97	147	48	353	99	151	614
27	97	146	48	103	361	131	614
28	97	147	48	0	436	0	613
29	97	147	56	0	437	0	613

Pepacton Reservoir (P):	Available storage Dec. 30, 2013 (0800) Spillway crest elevation 1,280.00 ft.	115.426 billion gals. 82.3 % (elev. 1,265.88 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 30, 2013 (0800) Spillway crest elevation 1,150.00 ft.	82.189 billion gals. 85.9 % (elev. 1,140.91 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 30, 2013 (0800) Spillway crest elevation 1,440.00 ft.	32.667 billion gals. 93.5 % (elev. 1,435.31 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 30, 2013 (0800) Combined capacity at spillway level.	230.282 billion gals. 85.0 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 29, 2013 (2400) Spillway crest elevation 1,190.00 ft.	21.944 billion gals. 61.9 % (elev. 1,182.7 ft.) 35.451 billion gallons.

SEGREGATION OF FLOW, DELAWARE RIVER AT MONTAGUE AND  
PRECIPITATION IN UPPER DELAWARE RIVER BASIN

Discharge in cubic feet per second, local time as routed to Montague

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled <sup>2</sup>	Total Discharge	Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
	Dec. 23	0	150	226	74	0	0	16,650	17,100	.14
24	0	150	227	74	0	0	14,649	15,100	.17	2.73
25	0	150	226	74	0	0	9,750	10,200	.02	2.75
26	0	152	226	74	0	0	6,948	7,400	.01	2.76
27	0	150	224	74	0	142	5,870	6,460	.05	2.81
28	0	152	227	74	0	89	5,008	5,550	0	2.81
29	0	150	226	74	0	89	4,551	5,090	0	2.81

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 100 cfs from Rio Reservoir.

Diversion by New Jersey through the D&R Canal December 23-29, 2013 averaged 79.8 mgd. The average diversion for the 30-day period ending December 29, 2013 is currently unavailable and the maximum daily mean diversion for the 30-day period ending December 29, 2013 is currently unavailable.