

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA

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

Summary river data for November 28<sup>th</sup> – December 4<sup>th</sup> 2016 (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
	Spill Begin 1200	Release begin 1200	Spill begin 2400	Release end 2400	Spill begin 1500	Release begin 1500	Beginning 0800	Beginning 0800	Beginning 0800	1-June-16 to date
Nov 28	0	29	0	73	0	23	342	0	0	612
29	0	29	0	35	0	26	400	0	0	611
30	0	29	0	35	0	19	101	0	194	609
Dec 1	0	29	0	36	0	19	0	0	263	607
2	0	30	0	36	0	19	106	0	263	606
3	0	30	0	36	0	19	161	0	263	605
4	0	29	0	36	0	19	159	0	263	604

Pepacton Reservoir (P):	Available storage December 5, 2016 (0800) Spillway crest elevation 1,280.00 ft.	73.250 billion gallons 140.190 billion gallons	52.3%	1,237.49 (elev.ft.)
Cannonsville Reservoir (C):	Available storage December 5, 2016 (0800) Spillway crest elevation 1,150.00 ft.	23.621 billion gallons 95.706 billion gallons	24.7%	1,089.02 (elev.ft.)
Neversink Reservoir (N):	Available storage December 5, 2016 (0800) Spillway crest elevation 1,440.00 ft.	19.957 billion gallons 34.941 billion gallons	57.1%	1,405.06 (elev.ft.)
Combined contents, PCN:	Available storage December 5, 2016 (0800) Combined capacity at spillway level	116.828 billion gallons 270.837 billion gallons	43.1%	
Lake Wallenpaupack:	Available storage December 4, 2016 (0800) Spillway crest elevation 1,190.00 ft.	10.997 billion gallons 35.451 billion gallons	31.0%	1,176.45 (elev.ft.)

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 NYC Reservoirs				Power releases		Computed	Total	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled <sup>2</sup>	Discharge	(inches)	
									Daily	Cumulative
Nov 28	870	155	704	36	0	0	1,305	2,200	0.04	1.48
29	602	155	433	36	29	0	1,367	2,020	0.02	1.50
30	199	50	113	36	0	0	2,001	2,200	<u>0.58</u>	<u>2.08</u>
Dec 1	0	45	54	40	0	0	5,941	6,080	1.04	1.04
2	0	45	54	29	0	0	8,872	9,000	0.01	1.05
3	0	45	56	29	0	0	6,070	6,200	0.03	1.08
4	0	45	56	29	0	0	4,560	4,690	0.00	1.08

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.

2. Includes conservation release of 35 cfs on November 28<sup>th</sup>, 29<sup>th</sup> and 30<sup>th</sup>, 60 cfs on December 1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> and 100 cfs on December 2<sup>nd</sup> from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 28<sup>th</sup> – December 4<sup>th</sup> 2016 averaged 91.4 MGD.

The average diversion for the 30-day period ending December 4<sup>th</sup>, 2016 is 95.0 MGD, the maximum is 101 MGD on November 24<sup>th</sup>.

NJ Offset Diversion Bank releases, 25 cfs on the 28<sup>th</sup>, 22 cfs on the 29th.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA  
 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for December 5<sup>th</sup> – December 11<sup>th</sup> 2016 (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
	Spill Begin 1200	Release begin 1200	Spill begin 2400	Release end 2400	Spill begin 1500	Release begin 1500	Beginning 0800	Beginning 0800	Beginning 0800	1-June-16 to date
Dec 5	0	30	0	37	0	19	158	0	262	603
6	0	29	0	37	0	19	158	0	262	602
7	0	29	0	36	0	19	158	0	262	601
8	0	29	0	36	0	19	335	0	262	601
9	0	29	0	32	0	19	232	180	261	601
10	0	29	0	34	0	19	158	265	261	602
11	0	29	0	38	0	19	158	265	261	602

Pepacton Reservoir (P):	Available storage December 12, 2016 (0800) Spillway crest elevation 1,280.00 ft.	74.202 billion gallons 140.190 billion gallons	52.9%	1,238.22 (elev.ft.)
Cannonsville Reservoir (C):	Available storage December 12, 2016 (0800) Spillway crest elevation 1,150.00 ft.	26.541 billion gallons 95.706 billion gallons	27.7%	1,092.54 (elev.ft.)
Neversink Reservoir (N):	Available storage December 12, 2016 (0800) Spillway crest elevation 1,440.00 ft.	18.689 billion gallons 34.941 billion gallons	53.5%	1,401.56 (elev.ft.)
Combined contents, PCN:	Available storage December 12, 2016 (0800) Combined capacity at spillway level	119.432 billion gallons 270.837 billion gallons	44.1%	
Lake Wallenpaupack:	Available storage December 11, 2016 (0800) Spillway crest elevation 1,190.00 ft.	12.036 billion gallons 35.451 billion gallons	34.0%	1,177.11 (elev.ft.)

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 NYC Reservoirs				Power releases		Computed	Total	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled <sup>2</sup>	Discharge	(inches)	
									Daily	Cumulative
Dec 5	0	46	56	29	0	0	3,709	3,840	0.11	1.19
6	0	46	56	29	0	0	3,249	3,380	0.00	1.19
7	0	45	57	29	0	0	3,079	3,210	0.39	1.58
8	0	46	57	29	0	0	3,088	3,220	0.01	1.59
9	0	45	56	29	0	0	3,030	3,160	0.02	1.61
10	0	45	56	29	0	0	2,640	1,665	0.00	1.61
11	0	45	50	29	0	0	2,286	1,659	0.01	1.62

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.

2. Includes conservation release of 60 cfs on December 5<sup>th</sup> – December 11<sup>th</sup>.

Diversions by New Jersey through the D&R Canal December 5<sup>th</sup> – December 11<sup>th</sup> 2016 averaged 84.7 MGD.

The average diversion for the 30-day period ending December 11<sup>th</sup>, 2016 is 96.0 MGD, the maximum is 105 MGD on November 24<sup>th</sup> and 29<sup>th</sup>.

There were no NJ Offset Diversion Bank releases.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA  
 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for December 12<sup>th</sup> – December 18<sup>th</sup> 2016 (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
	Spill Begin 1200	Release begin 1200	Spill begin 2400	Release end 2400	Spill begin 1500	Release begin 1500	Beginning 0800	Beginning 0800	Beginning 0800	1-June-16 to date
Dec 12	0	29	0	36	0	19	158	348	25	602
13	0	29	0	36	0	19	158	359	0	601
14	0	29	0	36	0	19	158	359	0	601
15	0	29	0	36	0	19	158	359	0	600
16	0	29	0	36	0	19	158	359	0	600
17	0	29	0	36	0	19	159	359	0	600
18	0	29	0	36	0	19	158	360	0	599

Pepacton Reservoir (P):	Available storage December 19, 2016 (0800) Spillway crest elevation 1,280.00 ft.	76.702 billion gallons 140.190 billion gallons	54.7%	1,240.11 (elev.ft.)
Cannonsville Reservoir (C):	Available storage December 19, 2016 (0800) Spillway crest elevation 1,150.00 ft.	27.579 billion gallons 95.706 billion gallons	28.8%	1,093.76 (elev.ft.)
Neversink Reservoir (N):	Available storage December 19, 2016 (0800) Spillway crest elevation 1,440.00 ft.	19.544 billion gallons 34.941 billion gallons	55.9%	1,403.93 (elev.ft.)
Combined contents, PCN:	Available storage December 19, 2016 (0800) Combined capacity at spillway level	123.825 billion gallons 270.837 billion gallons	45.7%	
Lake Wallenpaupack:	Available storage December 18, 2016 (0800) Spillway crest elevation 1,190.00 ft.	13.091 billion gallons 35.451 billion gallons	36.9%	1,177.69 (elev.ft.)

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 NYC Reservoirs				Power releases		Computed	Total	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled <sup>2</sup>	Discharge	(inches)	
									Daily	Cumulative
Dec 12	0	45	53	29	0	0	2,133	2,260	0.36	1.98
13	0	45	59	29	0	0	2,057	2,190	0.00	1.98
14	0	45	56	29	0	0	2,150	2,280	0.05	2.03
15	0	45	56	29	0	18	2,002	2,150	0.00	2.03
16	0	45	56	29	0	124	2,246	2,500	0.00	2.03
17	0	45	56	29	0	106	1,524	1,760	0.25	2.28
18	0	45	56	29	0	0	1,670	1,800	0.53	2.81

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.

2. Includes conservation release of 60 cfs on December 12<sup>th</sup> – December 18<sup>th</sup>.

Diversions by New Jersey through the D&R Canal December 12<sup>th</sup> – December 18<sup>th</sup> 2016 are unavailable as data is missing.

The average diversion for the 30-day period ending December 18<sup>th</sup>, 2016 and the maximum are unavailable as data is missing.

There were no NJ Offset Diversion Bank releases.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA  
 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for December 19<sup>th</sup> – December 25<sup>th</sup> 2016 (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
	Spill Begin 1200	Release begin 1200	Spill begin 2400	Release end 2400	Spill begin 1500	Release begin 1500	Beginning 0800	Beginning 0800	Beginning 0800	1-June-16 to date
Dec 19	0	29	0	36	0	19	16	361	0	598
20	0	29	0	37	0	19	0	362	0	597
21	0	29	0	37	0	19	200	85	0	595
22	0	29	0	37	0	19	301	0	0	594
23	0	29	0	37	0	19	301	172	0	593
24	0	29	0	37	0	19	301	200	0	593
25	0	29	0	37	0	19	301	200	0	592

Pepacton Reservoir (P):	Available storage December 26, 2016 (0800) Spillway crest elevation 1,280.00 ft.	80.069 billion gallons 140.190 billion gallons	57.1%	1,242.60 (elev.ft.)
Cannonsville Reservoir (C):	Available storage December 26, 2016 (0800) Spillway crest elevation 1,150.00 ft.	31.795 billion gallons 95.706 billion gallons	33.2%	1,098.41 (elev.ft.)
Neversink Reservoir (N):	Available storage December 26, 2016 (0800) Spillway crest elevation 1,440.00 ft.	20.488 billion gallons 34.941 billion gallons	58.6%	1,406.49 (elev.ft.)
Combined contents, PCN:	Available storage December 26, 2016 (0800) Combined capacity at spillway level	132.352 billion gallons 270.837 billion gallons	48.9%	
Lake Wallenpaupack:	Available storage December 25, 2016 (0800) Spillway crest elevation 1,190.00 ft.	14.147 billion gallons 35.451 billion gallons	39.9%	1,178.34 (elev.ft.)

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 NYC Reservoirs				Power releases		Computed	Total	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled <sup>2</sup>	Discharge	(inches)	
									Daily	Cumulative
Dec 19	0	45	56	29	0	0	7,810	7,940	0.12	2.93
20	0	45	56	29	0	0	7,720	7,850	0.00	2.93
21	0	45	56	29	0	0	5,320	5,450	0.00	2.93
22	0	45	57	29	0	0	4,509	4,640	0.00	2.93
23	0	45	57	29	0	0	4,259	4,390	0.00	2.93
24	0	45	57	29	0	0	3,589	3,720	0.00	2.93
25	0	45	57	29	0	0	3,309	3,440	0.11	3.04

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.

2. Includes conservation release of 60 cfs on December 19<sup>th</sup> – December 25<sup>th</sup>.

Diversions by New Jersey through the D&R Canal December 19<sup>th</sup> – December 25<sup>th</sup> 2016 averaged 87.1 MGD.

The average diversion for the 30-day period ending December 25<sup>th</sup>, 2016 and the maximum are unavailable as data is missing.

There were no NJ Offset Diversion Bank releases.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA  
 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for December 26<sup>th</sup> 2016 – January 1<sup>st</sup> 2017 (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
	Spill Begin 1200	Release begin 1200	Spill begin 2400	Release end 2400	Spill begin 1500	Release begin 1500	Beginning 0800	Beginning 0800	Beginning 0800	1-June-16 to date
Dec 26	0	29	0	37	0	19	288	84	0	591
27	0	29	0	37	0	19	163	334	0	591
28	0	29	0	37	0	19	164	365	0	591
29	0	29	0	37	0	19	165	366	0	590
30	0	29	0	37	0	19	186	288	0	590
31	0	29	0	36	0	19	199	280	0	589
Jan 1	0	29	0	36	0	19	199	280	0	589

Pepacton Reservoir (P):	Available storage January 2, 2016 (0800) Spillway crest elevation 1,280.00 ft.	81.678 billion gallons 140.190 billion gallons	58.3%	1,243.77 (elev.ft.)
Cannonsville Reservoir (C):	Available storage January 2, 2016 (0800) Spillway crest elevation 1,150.00 ft.	33.765 billion gallons 95.706 billion gallons	35.3%	1,100.50 (elev.ft.)
Neversink Reservoir (N):	Available storage January 2, 2016 (0800) Spillway crest elevation 1,440.00 ft.	21.169 billion gallons 34.941 billion gallons	60.6%	1,408.30 (elev.ft.)
Combined contents, PCN:	Available storage January 2, 2016 (0800) Combined capacity at spillway level	136.612 billion gallons 270.837 billion gallons	50.4%	
Lake Wallenpaupack:	Available storage January 1, 2016 (0800) Spillway crest elevation 1,190.00 ft.	15.202 billion gallons 35.451 billion gallons	42.9%	1,178.86 (elev.ft.)

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 NYC Reservoirs				Power releases		Computed	Total	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled <sup>2</sup>	Discharge	(inches)	
									Daily	Cumulative
Dec 26	0	45	57	29	0	0	3,349	3,480	0.00	3.04
27	0	45	57	29	0	0	3,259	3,390	0.04	3.08
28	0	45	57	29	0	0	3,719	3,850	0.00	3.08
29	0	45	57	29	0	0	4,079	4,210	0.01	3.09
30	0	45	57	29	0	0	3,619	3,750	0.31	3.40
31	0	45	57	29	0	0	3,299	3,430	<u>0.01</u>	<u>3.41</u>
Jan 1	0	45	57	29	0	0	3,019	3,150	0.00	0.00

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.

2. Includes conservation release of 60 cfs on December 26<sup>th</sup> 2016 – January 1<sup>st</sup> 2017.

Diversions by New Jersey through the D&R Canal December 26<sup>th</sup> 2016 – January 1<sup>st</sup> 2017 averaged 85.3 MGD.

The average diversion for the 30-day period ending January 1<sup>st</sup>, 2017 and the maximum are unavailable as data is missing.

There were no NJ Offset Diversion Bank releases.