

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA  
 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for October 31<sup>st</sup> – November 6<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
October 31	0	108	0	349	0	32	459	324	0	593
Nov 1	0	100	0	182	0	32	481	341	0	594
2	0	102	0	112	0	32	481	341	0	596
3	0	249	0	262	0	32	300	341	0	596
4	0	300	0	419	0	32	283	341	0	596
5	0	365	0	380	0	33	295	355	0	597
6	0	416	0	422	0	33	283	340	0	597

Pepacton Reservoir (P):	Available storage November 7, 2016 (0800) Spillway crest elevation 1,280.00 ft.	81.940 billion gallons 140.190 billion gallons	58.4%	1,243.96 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 7, 2016 (0800) Spillway crest elevation 1,150.00 ft.	25.690 billion gallons 95.706 billion gallons	26.8%	1,091.54(elev.ft.)
Neversink Reservoir (N):	Available storage November 7, 2016 (0800) Spillway crest elevation 1,440.00 ft.	22.669 billion gallons 34.941 billion gallons	64.9%	1,412.19 (elev.ft.)
Combined contents, PCN:	Available storage November 7, 2016 (0800) Combined capacity at spillway level	130.299 billion gallons 270.837 billion gallons	48.1%	
Lake Wallenpaupack:	Available storage November 6, 2016 (0800) Spillway crest elevation 1,190.00 ft.	8.580 billion gallons 35.451 billion gallons	24.2%	1,175.12 (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
October 31	1,184	535	599	50	0	0	1,396	2,580	0.31	3.24
Nov 1	1,167	540	577	50	0	0	1,293	2,460	0.00	0.00
2	1,053	463	540	50	0	0	1,087	2,140	0.00	0.00
3	499	167	282	50	0	0	1,121	1,620	0.00	0.00
4	378	155	173	50	0	0	1,022	1,400	0.03	0.03
5	613	158	405	50	0	0	887	1,500	0.00	0.03
6	783	385	648	50	0	0	797	1,880	0.00	0.03

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 October 31<sup>st</sup> - November 6<sup>th</sup> from Rio Reservoir.

Diversions by New Jersey through the D&R Canal October 31<sup>st</sup> – November 6<sup>th</sup> 2016 averaged 92.2 MGD.

The average diversion for the 30-day period ending November 6<sup>th</sup>, 2016 is 86.3 MGD, the maximum is 94 MGD on November 6<sup>th</sup>.

IERQ releases of 300 cfs on November 6<sup>th</sup>.

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 Web address: <http://water.usgs.gov/osw/odrm>  
 Summary river data for November 7<sup>th</sup> – November 13<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 7	0	383	0	492	0	30	411	340	116	598
8	0	400	0	516	0	32	271	339	0	598
9	0	400	0	600	0	32	283	338	0	599
10	0	400	0	569	0	29	403	337	0	599
11	0	400	0	557	0	29	478	320	0	601
12	0	400	0	637	0	29	477	285	0	602
13	0	399	0	639	0	29	476	247	0	602

Pepacton Reservoir (P):	Available storage November 14, 2016 (0800) Spillway crest elevation 1,280.00 ft.	76.706 billion gallons 140.190 billion gallons	54.7%	1,240.11 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 14, 2016 (0800) Spillway crest elevation 1,150.00 ft.	20.449 billion gallons 95.706 billion gallons	21.4%	1,084.91 (elev.ft.)
Neversink Reservoir (N):	Available storage November 14, 2016 (0800) Spillway crest elevation 1,440.00 ft.	22.369 billion gallons 34.941 billion gallons	64.0%	1,411.42 (elev.ft.)
Combined contents, PCN:	Available storage November 14, 2016 (0800) Combined capacity at spillway level	119.520 billion gallons 270.837 billion gallons	44.1%	
Lake Wallenpaupack:	Available storage November 13, 2016 (0800) Spillway crest elevation 1,190.00 ft.	8.925 billion gallons 35.451 billion gallons	25.2%	1,175.27 (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 7	803	464	588	51	0	0	757	1,860	0.00	0.03
8	869	565	653	51	0	0	681	1,950	0.00	0.03
9	1,051	644	761	46	0	0	619	2,070	0.03	0.06
10	1,041	593	798	50	0	0	729	2,170	0.04	0.10
11	1,197	619	928	50	0	0	603	2,200	0.00	0.10
12	1,194	619	880	45	0	0	596	2,140	0.01	0.11
13	1,296	619	862	45	0	0	604	2,130	0.00	0.11

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 7<sup>th</sup> - November 13<sup>th</sup> from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 7<sup>th</sup> – November 13<sup>th</sup> 2016 averaged 94.3 MGD.

The average diversion for the 30-day period ending November 13<sup>th</sup>, 2016 is 89.3 MGD, the maximum is 95 MGD on November 7<sup>th</sup> and 9<sup>th</sup>.

IERQ releases of 300 cfs on the 7<sup>th</sup>, 400 cfs on the 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> and 11<sup>th</sup>, 350 cfs on the 12<sup>th</sup> and 14<sup>th</sup> and 230 cfs on the 13<sup>th</sup>.

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Summary river data for November 14<sup>th</sup> – November 20<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 14	0	255	0	633	0	29	545	7	147	603
15	0	250	0	721	0	29	549	0	264	604
16	0	250	0	745	0	29	549	0	264	605
17	0	152	0	682	0	29	549	0	264	607
18	0	100	0	496	0	29	549	0	263	608
19	0	100	0	433	0	29	548	0	263	609
20	0	100	0	464	0	29	548	0	263	610

Pepacton Reservoir (P):	Available storage November 21, 2016 (0800) Spillway crest elevation 1,280.00 ft.	72.574 billion gallons 140.190 billion gallons	51.8%	1,236.97 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 21, 2016 (0800) Spillway crest elevation 1,150.00 ft.	17.840 billion gallons 95.706 billion gallons	18.6%	1,081.20 (elev.ft.)
Neversink Reservoir (N):	Available storage November 21, 2016 (0800) Spillway crest elevation 1,440.00 ft.	20.742 billion gallons 34.941 billion gallons	59.4%	1,407.17 (elev.ft.)
Combined contents, PCN:	Available storage November 21, 2016 (0800) Combined capacity at spillway level	111.156 billion gallons 270.837 billion gallons	41.0%	
Lake Wallenpaupack:	Available storage November 20, 2016 (0800) Spillway crest elevation 1,190.00 ft.	9.097 billion gallons 35.451 billion gallons	25.7%	1,175.40 (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 14	1,299	619	985	45	0	0	531	2,180	0.00	0.11
15	1,303	619	989	45	0	0	607	2,260	0.00	0.11
16	1,291	617	979	45	0	0	599	2,240	0.58	0.69
17	1,204	394	1,115	45	0	0	806	2,360	0.00	0.69
18	1,235	387	1,153	45	0	0	755	2,340	0.00	0.69
19	1,143	387	1,055	45	0	0	643	2,130	0.00	0.69
20	1,047	235	767	45	0	0	803	1,850	0.53	1.22

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 14<sup>th</sup> - November 20<sup>th</sup> from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 14<sup>th</sup> – November 20<sup>th</sup> 2016 averaged 95.9 MGD.

The average diversion for the 30-day period ending November 20<sup>th</sup>, 2016 is 92.5 MGD, the maximum is 98 MGD on November 15<sup>th</sup>.

IERQ releases of 350 cfs on the 14<sup>th</sup> to the 18<sup>th</sup> and 344 cfs on the 19<sup>th</sup>.

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Summary river data for November 21<sup>st</sup> – November 27<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 21	0	100	0	555	0	29	548	0	263	611
22	0	100	0	433	0	23	548	0	263	613
23	0	100	0	372	0	23	397	0	166	612
24	0	100	0	329	0	23	452	0	203	612
25	0	100	0	433	0	23	452	0	203	613
26	0	100	0	455	0	23	452	0	203	613
27	0	32	0	280	0	23	451	0	203	613

Pepacton Reservoir (P):	Available storage November 28, 2016 (0800) Spillway crest elevation 1,280.00 ft.	69.776 billion gallons 140.190 billion gallons	49.8%	1,234.78 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 28, 2016 (0800) Spillway crest elevation 1,150.00 ft.	17.319 billion gallons 95.706 billion gallons	18.1%	1,080.46 (elev.ft.)
Neversink Reservoir (N):	Available storage November 28, 2016 (0800) Spillway crest elevation 1,440.00 ft.	19.311 billion gallons 34.941 billion gallons	55.3%	1,403.29 (elev.ft.)
Combined contents, PCN:	Available storage November 28, 2016 (0800) Combined capacity at spillway level	106.406 billion gallons 270.837 billion gallons	39.4%	
Lake Wallenpaupack:	Available storage November 27, 2016 (0800) Spillway crest elevation 1,190.00 ft.	9.270 billion gallons 35.451 billion gallons	26.1%	1,175.50 (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 21	870	155	670	45	0	0	930	1,800	0.04	1.26
22	918	155	718	45	0	0	892	1,810	0.01	1.27
23	1,059	155	859	45	0	0	801	1,860	0.00	1.27
24	861	155	670	36	0	0	799	1,660	0.00	1.27
25	766	155	575	36	0	0	844	1,610	0.13	1.40
26	680	155	509	36	0	0	930	1,630	0.01	1.41
27	839	155	670	36	0	0	1,109	1,970	0.03	1.44

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 21<sup>st</sup> - November 27<sup>th</sup> from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 21<sup>st</sup> – November 27<sup>th</sup> 2016 averaged 98.7 MGD.

The average diversion for the 30-day period ending November 27<sup>th</sup>, 2016 is 95.0 MGD, the maximum is 101 MGD on November 24<sup>th</sup>.

NJ Offset Diversion Bank releases, 20 cfs on the 26<sup>th</sup>, 22 cfs on the 27<sup>th</sup>.