

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA
 Web address: <http://water.usgs.gov/osw/odrm>
 Summary river data for October 27th – November 2nd, 2018 (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
Oct 27	0	452	0	964	4	123	495	0	0	429
28	0	452	0	968	86	123	500	0	0	430
29	0	452	0	970	130	123	497	210	0	432
30	0	452	0	969	110	123	497	279	0	434
31	0	452	0	970	72	123	497	279	0	436
Nov 1	0	452	0	969	74	123	345	278	0	437
2	0	453	0	968	291	123	199	0	0	436

Pepacton Reservoir (P):	Available storage November 3, 2018 (0800) Spillway crest elevation 1,280.00 ft.	135.390 billion gallons 140.190 billion gallons	97.2%	1,277.85 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 3, 2018 (0800) Spillway crest elevation 1,150.00 ft.	84.080 billion gallons 95.706 billion gallons	90.0%	1,143.68 (elev.ft.)
Neversink Reservoir (N):	Available storage November 3, 2018 (0800) Spillway crest elevation 1,440.00 ft.	35.106 billion gallons 34.941 billion gallons	101.2%	1,440.83 (elev.ft.)
Combined contents, PCN:	Available storage November 3, 2018 (0800) Combined capacity at spillway level	254.576 billion gallons 270.837 billion gallons	95.2%	
Lake Wallenpaupack:	Available storage November 2, 2018 (0800) Spillway crest elevation 1,190.00 ft.	24.490 billion gallons 35.451 billion gallons	69.1%	1,184.13 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Oct 27	0	699	1,493	190	20	474	3,374	6,250	0.13	3.63
28	0	699	1,491	190	0	498	8,022	10,900	0.82	4.45
29	0	699	1,491	190	4	494	8,522	11,400	0.20	4.65
30	0	699	1,497	190	605	489	8,120	11,600	0.04	4.69
31	0	699	1,501	190	754	802	6,754	10,700	<u>0.00</u>	<u>4.69</u>
Nov 1	0	699	1,499	190	756	479	5,857	9,480	0.03	0.03
2	0	699	1,501	190	745	631	6,194	9,960	0.27	0.30

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.
 2. Includes conservation release of 100 cfs from Rio Reservoir between October 27 and 31 and 60 cfs between November 1 and 2.
- Diversions by New Jersey through the D&R Canal October 27th – November 2nd, 2018 averaged 94.5 MGD.
 The average diversion for the 30-day period ending November 2nd 2018 is 95.2 MGD, the maximum is 99 MGD.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA
 Web address: <http://water.usgs.gov/osw/odrm>
 Summary river data for November 3rd – November 9th, 2018 (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 3	0	471	0	970	780	128	304	0	0	435
4	0	452	0	972	407	123	397	0	0	435
5	0	452	0	972	342	123	397	0	0	434
6	7	452	0	970	598	123	397	0	0	434
7	97	452	0	970	436	123	327	0	140	434
8	210	452	0	971	296	123	231	0	0	433
9	369	452	0	972	288	123	199	0	0	432

Pepacton Reservoir (P):	Available storage November 10, 2018 (0800) Spillway crest elevation 1,280.00 ft.	140.240 billion gallons 140.190 billion gallons	100.7%	1,280.50 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 10, 2018 (0800) Spillway crest elevation 1,150.00 ft.	87.765 billion gallons 95.706 billion gallons	93.9%	1,146.21 (elev.ft.)
Neversink Reservoir (N):	Available storage November 10, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.941 billion gallons 34.941 billion gallons	100.7%	1,440.50 (elev.ft.)
Combined contents, PCN:	Available storage November 10, 2018 (0800) Combined capacity at spillway level	262.946 billion gallons 270.837 billion gallons	98.3%	
Lake Wallenpaupack:	Available storage November 9, 2018 (0800) Spillway crest elevation 1,190.00 ft.	25.037 billion gallons 35.451 billion gallons	70.6%	1,184.42 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Nov 3	0	699	1,499	190	769	674	18,469	22,300	0.89	1.19
4	0	699	1,497	190	776	907	19,331	23,400	0.07	1.26
5	0	701	1,501	198	751	881	13,468	17,500	0.00	1.26
6	0	729	1,504	190	1,285	883	14,609	19,200	0.33	1.59
7	0	699	1,504	190	1,599	889	18,319	23,200	0.44	2.03
8	0	699	1,501	190	1,598	891	13,821	18,700	0.00	2.03
9	0	699	1,501	190	1,599	898	11,013	15,900	0.00	2.03

1. Release directed to maintain a flow at Montague of 1,750 cfs and Trenton of 3,000 cfs.
 2. Includes conservation release of 100 cfs from Rio Reservoir between October 27 and 31 and 60 cfs between November 1 and 2.
- Diversions by New Jersey through the D&R Canal November 3rd – November 9th, 2018 averaged 86.9 MGD.
 The average diversion for the 30-day period ending November 9th 2018 is 92.8 MGD, the maximum is 99 MGD.

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Summary river data for November 10th – November 16th, 2018 (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 10	533	452	0	974	345	123	199	0	0	430
11	448	452	0	975	261	123	199	0	0	429
12	343	452	0	975	178	123	289	0	0	428
13	405	452	0	973	317	123	299	0	0	427
14	269	452	0	970	253	123	299	0	0	426
15	203	452	0	970	219	123	299	0	0	426
16	167	452	0	970	180	123	299	0	0	425

Pepacton Reservoir (P):	Available storage November 17, 2018 (0800) Spillway crest elevation 1,280.00 ft.	139.680 billion gallons 140.190 billion gallons	100.3%	1,280.20 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 17, 2018 (0800) Spillway crest elevation 1,150.00 ft.	89.555 billion gallons 95.706 billion gallons	95.8%	1,147.42 (elev.ft.)
Neversink Reservoir (N):	Available storage November 17, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.826 billion gallons 34.941 billion gallons	100.4%	1,440.27 (elev.ft.)
Combined contents, PCN:	Available storage November 17, 2018 (0800) Combined capacity at spillway level	264.061 billion gallons 270.837 billion gallons	98.7%	
Lake Wallenpaupack:	Available storage November 16, 2018 (0800) Spillway crest elevation 1,190.00 ft.	26.132 billion gallons 35.451 billion gallons	73.7%	1,184.97 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Nov 10	0	699	1,502	190	1,088	895	16,126	20,500	0.75	2.78
11	0	699	1,504	190	600	851	15,756	19,600	0.00	2.78
12	0	699	1,507	190	566	851	11,987	15,800	0.00	2.78
13	0	699	1,508	190	573	887	12,643	16,500	0.53	3.31
14	0	699	1,508	190	1,218	885	15,200	19,700	0.03	3.34
15	0	699	1,505	190	1,582	788	11,636	16,400	0.00	3.34
16	0	699	1,501	190	1,585	883	10,242	15,100	0.74	4.08

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

2. Includes conservation release of 120 cfs from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 10th – November 16th, 2018 averaged 80.4 MGD.

The average diversion for the 30-day period ending November 16th 2018 is 89.9 MGD, the maximum is 99 MGD.

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Summary river data for November 17th – November 23rd, 2018 (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 17	99	452	0	971	141	123	298	0	0	424
18	42	452	0	970	128	123	299	0	0	424
19	15	452	0	970	141	123	299	0	0	423
20	2	452	0	970	148	123	296	0	0	422
21	0	453	0	970	104	123	199	0	0	421
22	0	453	0	969	55	123	199	0	0	419
23	0	453	0	968	42	123	200	0	0	416

Pepacton Reservoir (P):	Available storage November 24, 2018 (0800) Spillway crest elevation 1,280.00 ft.	138.670 billion gallons 140.190 billion gallons	99.5%	1,279.65 (elev.ft.)
Cannonsville Reservoir (C):	Available storage November 24, 2018 (0800) Spillway crest elevation 1,150.00 ft.	87.647 billion gallons 95.706 billion gallons	93.8%	1,146.13 (elev.ft.)
Neversink Reservoir (N):	Available storage November 24, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.756 billion gallons 34.941 billion gallons	100.2%	1,440.13 (elev.ft.)
Combined contents, PCN:	Available storage November 24, 2018 (0800) Combined capacity at spillway level	261.073 billion gallons 270.837 billion gallons	97.6%	
Lake Wallenpaupack:	Available storage November 23, 2018 (0800) Spillway crest elevation 1,190.00 ft.	23.395 billion gallons 35.451 billion gallons	66.0%	1,183.51 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Nov 17	0	699	1,501	190	1,141	688	10,281	14,500	0.26	4.34
18	0	699	1,501	190	1,604	657	8,749	13,400	0.00	4.34
19	0	699	1,502	190	1,599	847	8,063	12,900	0.14	4.48
20	0	699	1,501	190	1,448	716	8,646	13,200	0.37	4.85
21	0	699	1,501	190	1,025	847	10,038	14,300	0.00	4.85
22	0	699	1,501	190	1,279	883	8,148	12,700	0.00	4.85
23	0	699	1,501	190	1,281	883	6,446	11,000	0.00	4.85

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

2. Includes conservation release of 120 cfs from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 17th – November 23rd, 2018 averaged 89.2 MGD.

The average diversion for the 30-day period ending November 23rd 2018 is 88.3 MGD, the maximum is 96 MGD.

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Summary river data for November 24th – November 30th, 2018 (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 24	0	452	0	967	89	123	33	0	0	416
25	0	452	0	967	316	123	0	0	0	414
26	78	452	0	968	545	123	0	0	0	411
27	522	452	0	970	630	123	100	0	0	410
28	499	452	0	971	326	123	199	0	0	409
29	376	452	0	972	208	123	199	0	0	407
30	271	452	0	972	160	123	199	0	0	406

Pepacton Reservoir (P):	Available storage December 1, 2018 (0800) Spillway crest elevation 1,280.00 ft.	139.850 billion gallons 140.190 billion gallons	100.4%	1,280.29 (elev.ft.)
Cannonsville Reservoir (C):	Available storage December 1, 2018 (0800) Spillway crest elevation 1,150.00 ft.	89.570 billion gallons 95.706 billion gallons	95.9%	1,147.43 (elev.ft.)
Neversink Reservoir (N):	Available storage December 1, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.821 billion gallons 34.941 billion gallons	100.4%	1,440.26 (elev.ft.)
Combined contents, PCN:	Available storage December 1, 2018 (0800) Combined capacity at spillway level	264.241 billion gallons 270.837 billion gallons	98.8%	
Lake Wallenpaupack:	Available storage November 30, 2018 (0800) Spillway crest elevation 1,190.00 ft.	24.307 billion gallons 35.451 billion gallons	68.6%	1,183.98 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Nov 24	0	701	1,499	190	1,269	882	5,759	10,300	0.00	4.85
25	0	701	1,497	190	1,269	880	11,763	16,300	0.51	5.36
26	0	701	1,496	190	1,420	851	15,742	20,400	0.00	5.36
27	0	699	1,496	190	1,582	880	26,845	31,700	0.79	6.15
28	0	699	1,497	190	1,580	887	24,047	28,900	0.06	6.21
29	0	699	1,501	190	1,587	961	16,962	21,900	0.01	6.22
30	0	699	1,502	190	1,587	887	13,335	18,200	0.00	6.22

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

2. Includes conservation release of 120 cfs from Rio Reservoir.

Diversions by New Jersey through the D&R Canal November 24th – November 30th, 2018 averaged 60.5 MGD.

The average diversion for the 30-day period ending November 30th 2018 is 80.4 MGD, the maximum is 96 MGD.