

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA

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

Summary river data for August 27th – September 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
Aug 27	0	452	0	970	39	122	500	0	0	494
28	0	452	0	968	26	123	500	137	0	496
29	0	452	0	966	4	123	499	139	0	497
30	0	452	0	958	0	124	499	0	0	497
31	0	452	0	939	0	124	500	0	0	497
Sep 1	0	452	0	889	0	123	500	0	0	497
2	0	417	0	834	0	123	500	0	161	499

Pepacton Reservoir (P):	Available storage September 3, 2018 (0800) Spillway crest elevation 1,280.00 ft.	133.910 billion gallons 140.190 billion gallons	96.1%	1,277.03 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 3, 2018 (0800) Spillway crest elevation 1,150.00 ft.	88.443 billion gallons 95.706 billion gallons	94.6%	1,146.67 (elev.ft.)
Neversink Reservoir (N):	Available storage September 3, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.409 billion gallons 34.941 billion gallons	99.2%	1,439.43 (elev.ft.)
Combined contents, PCN:	Available storage September 3, 2018 (0800) Combined capacity at spillway level	256.762 billion gallons 270.837 billion gallons	96.0%	
Lake Wallenpaupack:	Available storage September 2, 2018 (0800) Spillway crest elevation 1,190.00 ft.	20.332 billion gallons 35.451 billion gallons	57.4%	1,181.83 (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
Aug 27	0	699	1,504	190	634	86	3,087	6,200	0.00	9.36
28	0	699	1,502	190	770	261	2,818	6,240	0.00	9.36
29	0	699	1,501	189	866	387	2,528	6,170	0.00	9.36
30	0	699	1,497	190	1,066	373	2,105	5,930	0.06	9.36
31	0	699	1,494	190	867	236	1,894	5,380	<u>0.00</u>	<u>9.36</u>
Sep 1	0	699	1,482	192	591	236	1,820	5,020	0.22	0.22
2	0	699	1,453	192	616	177	2,303	5,440	0.00	0.22

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

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

Diversions by New Jersey through the D&R Canal August 27th – September 2nd, 2018 averaged 99.9 MGD.

The average diversion for the 30-day period ending September 2nd 2018 is 98.2 MGD, the maximum is 101 MGD.

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Summary river data for September 3rd – September 7th, 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
Sep 3	0	377	0	772	0	123	500	0	258	502
4	0	372	0	740	0	123	499	0	258	504
5	0	373	0	748	0	123	499	0	258	507
6	0	375	0	742	0	123	425	0	258	509
7	0	371	0	739	0	123	477	0	257	511

Pepacton Reservoir (P):	Available storage September 8, 2018 (0800) Spillway crest elevation 1,280.00 ft.	130.700 billion gallons 140.190 billion gallons	93.8%	1,275.24 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 8, 2018 (0800) Spillway crest elevation 1,150.00 ft.	85.847 billion gallons 95.706 billion gallons	91.9%	1,144.90 (elev.ft.)
Neversink Reservoir (N):	Available storage September 8, 2018 (0800) Spillway crest elevation 1,440.00 ft.	32.972 billion gallons 34.941 billion gallons	95.0%	1,436.49 (elev.ft.)
Combined contents, PCN:	Available storage September 8, 2018 (0800) Combined capacity at spillway level	249.519 billion gallons 270.837 billion gallons	93.3%	
Lake Wallenpaupack:	Available storage September 7, 2018 (0800) Spillway crest elevation 1,190.00 ft.	18.898 billion gallons 35.451 billion gallons	53.3%	1,180.99 (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
Sep 3	0	699	1,375	190	834	53	1,859	5,010	0.00	0.22
4	0	699	1,290	190	746	241	1,684	4,850	0.02	0.24
5	0	645	1,194	190	742	256	1,423	4,450	0.00	0.24
6	0	583	1,145	190	705	205	1,632	4,460	0.00	0.24
7	0	575	1,157	190	618	127	1,603	4,270	0.37	0.61

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.

Diversions by New Jersey through the D&R Canal September 3rd – September 7th, 2018 averaged 100.9 MGD.

The average diversion for the 30-day period ending September 7th 2018 is 98.7 MGD, the maximum is 102 MGD.

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Summary river data for September 8th – September 14th, 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
Sep 8	0	372	0	737	0	123	500	0	63	512
9	0	371	0	737	0	123	501	0	0	511
10	0	372	0	735	0	123	501	0	1	511
11	0	372	0	744	0	123	501	0	0	511
12	0	371	0	742	0	123	501	0	0	511
13	0	373	0	737	0	123	501	0	0	511
14	0	442	0	806	0	123	405	0	0	510

Pepacton Reservoir (P):	Available storage September 15, 2018 (0800) Spillway crest elevation 1,280.00 ft.	127.540 billion gallons 140.190 billion gallons	91.5%	1,273.46 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 15, 2018 (0800) Spillway crest elevation 1,150.00 ft.	83.333 billion gallons 95.706 billion gallons	89.2%	1,143.16 (elev.ft.)
Neversink Reservoir (N):	Available storage September 15, 2018 (0800) Spillway crest elevation 1,440.00 ft.	33.813 billion gallons 34.941 billion gallons	97.5%	1,438.22 (elev.ft.)
Combined contents, PCN:	Available storage September 15, 2018 (0800) Combined capacity at spillway level	244.686 billion gallons 270.837 billion gallons	91.5%	
Lake Wallenpaupack:	Available storage September 14, 2018 (0800) Spillway crest elevation 1,190.00 ft.	18.370 billion gallons 35.451 billion gallons	51.8%	1,180.70 (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
Sep 8	0	577	1,148	190	313	40	2,212	4,480	0.04	0.65
9	0	580	1,143	190	431	39	1,787	4,170	0.00	0.65
10	0	574	1,140	190	372	39	2,555	4,870	0.41	1.06
11	0	575	1,140	190	863	78	14,054	16,900	1.33	2.39
12	0	574	1,137	190	1,406	161	10,232	13,700	0.17	2.56
13	0	575	1,151	190	1,456	145	7,283	10,800	0.06	2.62
14	0	575	1,148	190	1,208	252	7,127	10,500	0.24	2.86

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.

Diversions by New Jersey through the D&R Canal September 8th – September 14th, 2018 averaged 100.9 MGD.

The average diversion for the 30-day period ending September 14th 2018 is 99.5 MGD, the maximum is 104 MGD.

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Summary river data for September 15th – September 21th, 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
Sep 15	0	451	0	966	0	123	401	0	0	509
16	0	452	0	968	0	123	401	0	0	508
17	0	452	0	969	0	123	242	0	0	506
18	0	452	0	929	220	124	203	0	0	503
19	0	452	0	790	340	123	303	0	0	501
20	0	452	0	647	207	123	452	0	0	501
21	0	452	0	520	158	123	501	0	0	501

Pepacton Reservoir (P):	Available storage September 22, 2018 (0800) Spillway crest elevation 1,280.00 ft.	126.520 billion gallons 140.190 billion gallons	90.8%	1,272.88 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 22, 2018 (0800) Spillway crest elevation 1,150.00 ft.	81.638 billion gallons 95.706 billion gallons	87.4%	1,141.97 (elev.ft.)
Neversink Reservoir (N):	Available storage September 22, 2018 (0800) Spillway crest elevation 1,440.00 ft.	34.886 billion gallons 34.941 billion gallons	100.6%	1,440.39 (elev.ft.)
Combined contents, PCN:	Available storage September 22, 2018 (0800) Combined capacity at spillway level	243.044 billion gallons 270.837 billion gallons	90.9%	
Lake Wallenpaupack:	Available storage September 21, 2018 (0800) Spillway crest elevation 1,190.00 ft.	16.082 billion gallons 35.451 billion gallons	45.4%	1,179.39 (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
Sep 15	0	574	1,140	190	1,441	235	6,410	9,990	0.00	2.86
16	0	577	1,247	190	1,444	124	5,318	8,900	0.00	2.86
17	0	684	1,494	190	1,450	284	4,388	8,490	0.00	2.86
18	0	698	1,497	190	1,451	381	6,183	10,400	1.39	4.25
19	0	699	1,499	190	1,452	319	10,741	14,900	0.07	4.32
20	0	699	1,437	192	845	230	8,497	11,900	0.00	4.32
21	0	699	1,222	190	1,458	72	6,199	9,840	0.00	4.32

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.

Diversions by New Jersey through the D&R Canal September 15th – September 21st, 2018 averaged 92.5 MGD.

The average diversion for the 30-day period ending September 21th 2018 is 98.3 MGD, the maximum is 104 MGD.

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Summary river data for September 22nd – September 28th, 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
Sep 22	0	453	0	448	290	123	501	0	0	501
23	0	453	0	448	183	124	501	0	0	501
24	0	452	0	485	138	123	172	0	0	498
25	0	452	0	801	981	124	0	0	0	494
26	0	453	0	964	983	123	0	0	0	489
27	0	452	0	964	753	123	0	0	0	485
28	0	452	0	966	598	123	0	0	0	481

Pepacton Reservoir (P):	Available storage September 29, 2018 (0800) Spillway crest elevation 1,280.00 ft.	133.982 billion gallons 140.190 billion gallons	96.2%	1,277.06 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 29, 2018 (0800) Spillway crest elevation 1,150.00 ft.	86.429 billion gallons 95.706 billion gallons	92.5%	1,145.29 (elev.ft.)
Neversink Reservoir (N):	Available storage September 29, 2018 (0800) Spillway crest elevation 1,440.00 ft.	35.029 billion gallons 34.941 billion gallons	101.0%	1,440.65 (elev.ft.)
Combined contents, PCN:	Available storage September 29, 2018 (0800) Combined capacity at spillway level	255.440 billion gallons 270.837 billion gallons	95.5%	
Lake Wallenpaupack:	Available storage September 28, 2018 (0800) Spillway crest elevation 1,190.00 ft.	15.906 billion gallons 35.451 billion gallons	44.9%	1,179.34 (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 ¹	Pepacton	Cannonsville	Neversink	Wallen- paupack	Rio Reservoir	Uncon- trolled ²	Discharge	(inches)	
									Daily	Cumulative
Sep 22	0	699	1,001	190	1,341	147	4,762	8,140	0.69	5.01
23	0	699	804	190	606	53	7,168	9,520	0.00	5.01
24	0	699	693	190	605	54	5,659	7,900	0.00	5.01
25	0	701	693	192	1000	54	7,340	9,980	0.68	5.69
26	0	701	750	190	1,486	56	22,617	25,800	0.94	6.63
27	0	699	1,239	192	1,386	370	20,414	24,300	0.77	7.40
28	0	699	1,491	190	1,016	186	20,318	23,900	0.87	8.27

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.

Diversions by New Jersey through the D&R Canal September 22nd – September 28th, 2018 averaged 81.7 MGD.

The average diversion for the 30-day period ending September 28th 2018 is 94.1 MGD, the maximum is 104 MGD.