

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA

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

Summary river data for August 31<sup>st</sup> – September 6<sup>th</sup>, 2019 (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 31	0	96	0	434	0	71	449	283	0	605
Sep 1	0	90	0	302	0	65	448	282	0	606
2	0	90	0	290	0	65	448	282	0	608
3	0	90	0	291	0	65	448	282	0	609
4	0	90	0	354	0	65	448	281	0	610
5	0	90	0	492	0	65	448	281	0	611
6	0	90	0	289	0	65	448	281	0	612

Pepacton Reservoir (P):	Available storage September 7, 2019 (0800) Spillway crest elevation 1,280.00 ft.	110.140 billion gallons 139.320 billion gallons	79.1%	1,263.23 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 7, 2019 (0800) Spillway crest elevation 1,150.00 ft.	60.658 billion gallons 93.448 billion gallons	64.9%	1,126.18 (elev.ft.)
Neversink Reservoir (N):	Available storage September 7, 2019 (0800) Spillway crest elevation 1,440.00 ft.	28.599 billion gallons 34.692 billion gallons	82.4%	1,427.09 (elev.ft.)
Combined contents, PCN:	Available storage September 7, 2019 (0800) Combined capacity at spillway level	199.397 billion gallons 267.460 billion gallons	74.6%	
Lake Wallenpaupack:	Available storage September 6, 2019 (0800) Spillway crest elevation 1,190.00 ft.	18.018 billion gallons 35.451 billion gallons	50.8%	1,180.53 (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
Aug 31	585	150	501	114	54	33	788	1,640	0.00	4.18
Sep 2	932	150	668	114	54	53	781	1,820	0.00	0.00
3	931	150	671	110	3	0	816	1,750	0.07	0.07
4	647	149	467	101	3	51	839	1,610	0.81	0.88
5	597	139	449	101	106	33	1,052	1,880	0.00	0.88
6	486	139	450	101	188	33	969	1,880	0.01	0.89
7	788	139	548	101	106	33	813	1,740	0.00	0.89

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

2. Includes conservation release of 70 cfs from August 31 to September 5 and 60 cfs on September 6 from Rio Reservoir.

Diversions by New Jersey through the D&R Canal August 31<sup>st</sup> – September 6<sup>th</sup>, 2019 averaged 91.4 MGD.

The average diversion for the 30-day period ending September 6<sup>th</sup> 2019 is 90.3 MGD, the maximum is 95 MGD.

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

Summary river data for September 7<sup>th</sup> – September 13<sup>th</sup>, 2019 (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 7	0	90	0	289	0	65	448	280	0	614
8	0	90	0	499	0	65	448	280	0	615
9	0	90	0	590	0	65	446	223	0	615
10	0	90	0	553	0	65	321	279	111	616
11	0	89	0	577	0	65	452	279	0	617
12	0	90	0	408	0	65	452	278	0	618
13	0	90	0	468	0	65	452	280	0	620

Pepacton Reservoir (P):	Available storage September 14, 2019 (0800) Spillway crest elevation 1,280.00 ft.	107.030 billion gallons 139.320 billion gallons	76.8%	1,261.32 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 14, 2019 (0800) Spillway crest elevation 1,150.00 ft.	55.689 billion gallons 93.448 billion gallons	59.6%	1,122.12 (elev.ft.)
Neversink Reservoir (N):	Available storage September 14, 2019 (0800) Spillway crest elevation 1,440.00 ft.	28.127 billion gallons 34.692 billion gallons	81.1%	1,426.03 (elev.ft.)
Combined contents, PCN:	Available storage September 14, 2019 (0800) Combined capacity at spillway level	190.846 billion gallons 267.460 billion gallons	71.4%	
Lake Wallenpaupack:	Available storage September 13, 2019 (0800) Spillway crest elevation 1,190.00 ft.	17.138 billion gallons 35.451 billion gallons	48.3%	1,180.03 (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
Sep 7	995	139	761	101	3	28	758	1,790	0.00	0.89
8	520	139	447	101	294	28	751	1,760	0.00	0.89
9	576	139	447	101	304	28	691	1,710	0.00	0.89
10	1,012	139	772	101	108	28	692	1,840	0.00	0.89
11	1,153	139	913	101	145	28	694	2,020	0.00	0.89
12	1,095	139	855	101	302	28	705	2,130	0.72	1.61
13	1,090	139	893	101	151	28	838	2,150	0.02	1.63

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 from Rio Reservoir.

Diversions by New Jersey through the D&R Canal September 7<sup>th</sup> – September 13<sup>th</sup>, 2019 averaged 96.9 MGD.

The average diversion for the 30-day period ending September 13<sup>th</sup> 2019 is 92.5 MGD, the maximum is 98 MGD.

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Summary river data for September 14<sup>th</sup> – September 20<sup>th</sup>, 2019 (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 14	0	90	0	523	0	65	452	279	0	621
15	0	88	0	442	0	63	452	279	0	622
16	0	81	0	437	0	58	452	278	0	623
17	0	81	0	479	0	58	486	209	0	623
18	0	74	0	422	0	55	468	198	0	624
19	0	74	0	439	0	55	453	198	187	626
20	0	74	0	432	0	55	453	0	248	626

Pepacton Reservoir (P):	Available storage September 21, 2019 (0800) Spillway crest elevation 1,280.00 ft.	103.630 billion gallons 139.320 billion gallons	74.4%	1,259.20 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 21, 2019 (0800) Spillway crest elevation 1,150.00 ft.	51.300 billion gallons 93.448 billion gallons	54.9%	1,118.41 (elev.ft.)
Neversink Reservoir (N):	Available storage September 21, 2019 (0800) Spillway crest elevation 1,440.00 ft.	27.380 billion gallons 34.692 billion gallons	78.9%	1,424.33 (elev.ft.)
Combined contents, PCN:	Available storage September 21, 2019 (0800) Combined capacity at spillway level	182.310 billion gallons 267.460 billion gallons	68.2%	
Lake Wallenpaupack:	Available storage September 20, 2019 (0800) Spillway crest elevation 1,190.00 ft.	16.610 billion gallons 35.451 billion gallons	46.9%	1,179.71 (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
Sep 14	870	138	631	101	4	188	968	2,030	0.00	1.63
15	964	139	724	101	4	114	748	1,830	0.10	1.73
16	1,049	139	809	101	135	28	738	1,950	0.00	1.73
17	920	139	684	97	101	28	721	1,770	0.01	1.74
18	902	136	676	90	176	28	664	1,770	0.00	1.74
19	956	125	741	90	146	28	620	1,750	0.00	1.74
20	863	125	653	85	161	28	588	1,640	0.00	1.74

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 from Rio Reservoir.

Diversions by New Jersey through the D&R Canal September 14<sup>th</sup> – September 20<sup>th</sup>, 2019 averaged 96.9 MGD.

The average diversion for the 30-day period ending September 20<sup>th</sup> 2019 is 93.7 MGD, the maximum is 98 MGD.

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA

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

Summary river data for September 21<sup>st</sup> – September 27<sup>th</sup>, 2019 (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 21	0	74	0	609	0	55	452	0	248	627
22	0	74	0	524	0	55	452	0	249	628
23	0	74	0	584	0	55	452	0	248	628
24	0	74	0	473	0	55	452	0	249	629
25	0	74	0	569	0	55	452	0	249	629
26	0	74	0	511	0	55	452	0	248	630
27	0	74	0	514	0	55	452	0	248	631

Pepacton Reservoir (P):	Available storage September 28, 2019 (0800) Spillway crest elevation 1,280.00 ft.	100.400 billion gallons 139.320 billion gallons	72.1%	1,257.18 (elev.ft.)
Cannonsville Reservoir (C):	Available storage September 28, 2019 (0800) Spillway crest elevation 1,150.00 ft.	47.775 billion gallons 93.448 billion gallons	51.1%	1,115.33 (elev.ft.)
Neversink Reservoir (N):	Available storage September 28, 2019 (0800) Spillway crest elevation 1,440.00 ft.	25.439 billion gallons 34.692 billion gallons	73.3%	1,419.80 (elev.ft.)
Combined contents, PCN:	Available storage September 28, 2019 (0800) Combined capacity at spillway level	173.654 billion gallons 267.460 billion gallons	64.9%	
Lake Wallenpaupack:	Available storage September 27, 2019 (0800) Spillway crest elevation 1,190.00 ft.	15.292 billion gallons 35.451 billion gallons	42.9%	1,178.96 (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
Sep 21	878	114	679	85	165	28	569	1,640	0.00	1.74
22	867	114	668	85	178	96	569	1,710	0.00	1.74
23	867	114	942	85	174	28	537	1,880	0.00	1.74
24	1,141	114	811	85	327	28	545	1,910	0.05	1.79
25	1,010	114	903	85	366	81	471	2,020	0.00	1.79
26	1,102	114	732	85	370	82	507	1,890	0.00	1.79
27	931	114	880	85	427	83	541	2,130	0.29	2.08

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

2. Includes conservation release of 60 cfs from Rio Reservoir.

Diversions by New Jersey through the D&R Canal September 21<sup>st</sup> – September 27<sup>th</sup>, 2019 averaged 97.0 MGD.

The average diversion for the 30-day period ending September 27<sup>th</sup> 2019 is 95.2 MGD, the maximum is 98 MGD.