

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for July 1 - 7, 2013 (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 June 1, 2013 to date
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800		
July 1	91	326	124	72	0	0	0	0	0	358
2	96	388	221	97	21	0	0	0	0	347
3	185	688	161	122	125	92	271	0	0	347
4	302	778	23	123	118	219	301	0	0	352
5	325	740	0	122	72	297	301	2	2	359
6	323	562	0	122	6	186	301	199	199	368
7	322	459	0	116	0	174	301	160	160	376

Pepacton Reservoir (P):	Available storage July 8, 2013 (0800) Spillway crest elevation 1,280.00 ft.	138.443 billion gals. 98.8 % (elev. 1,279.05 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 8, 2013 (0800) Spillway crest elevation 1,150.00 ft.	94.124 billion gals. 98.3 % (elev. 1,148.96 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 8, 2013 (0800) Spillway crest elevation 1,440.00 ft.	34.660 billion gals. 99.2 % (elev. 1,439.43 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 8, 2013 (0800) Combined capacity at spillway level.	267.227 billion gals. 98.7 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 7, 2013 (2400) Spillway crest elevation 1,190.00 ft.	25.402 billion gals. 71.7 % (elev. 1,184.6 ft.) 35.451 billion gallons.

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 N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
	July 1	0	141	503	110	1,296	248	13,902	16,200	1.42
2	0	141	504	110	1,560	851	16,834	20,000	.82	2.24
3	0	141	504	111	1,560	851	14,533	17,700	.09	2.33
4	0	141	600	150	1,560	851	10,398	13,700	.01	2.34
5	0	149	1,064	189	1,560	851	7,287	11,100	0	2.34
6	0	286	1,204	190	780	496	5,304	8,260	.01	2.35
7	0	467	1,145	189	598	355	4,066	6,820	0	2.35

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release of 100 cfs from Rio Reservoir and spills from Cannonsville and Neversink Reservoirs.

Diversion by New Jersey through the D&R Canal July 1 - 7, 2013 averaged 81.7 mgd.

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Summary river data for July 8 - 14, 2013 (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 June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 8	192	411	97	360	36	50	377
9	97	388	97	518	191	51	387
10	97	389	97	224	202	150	392
11	97	389	97	173	219	149	396
12	97	389	96	266	50	250	400
13	97	389	90	537	0	50	404
14	97	388	90	589	0	0	408

Pepacton Reservoir (P):	Available storage July 15, 2013 (0800) Spillway crest elevation 1,280.00 ft.	135.928 billion gals. 97.0 % (elev. 1,277.67 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 15, 2013 (0800) Spillway crest elevation 1,150.00 ft.	92.481 billion gals. 96.6 % (elev. 1,147.88 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 15, 2013 (0800) Spillway crest elevation 1,440.00 ft.	33.969 billion gals. 97.2 % (elev. 1,438.02 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 15, 2013 (0800) Combined capacity at spillway level.	262.378 billion gals. 96.9 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 14, 2013 (2400) Spillway crest elevation 1,190.00 ft.	24.672 billion gals. 69.6 % (elev. 1,184.2 ft.) 35.451 billion gallons.

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 N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Precipitation	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
July 8	0	503	869	189	517	355	3,647	6,080	.02	2.37
9	0	500	710	179	482	496	3,233	5,600	.04	2.41
10	0	498	636	150	452	284	3,130	5,150	.08	2.49
11	0	297	600	150	452	496	2,785	4,780	.16	2.65
12	0	150	602	150	463	390	2,565	4,320	0	2.65
13	0	150	602	150	418	284	2,426	4,030	.18	2.83
14	0	150	602	149	359	124	2,286	3,670	.03	2.86

1. Release directed to maintain a flow at Montague of 1,750 cfs.

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

Diversion by New Jersey through the D&R Canal July 8 - 14, 2013 averaged 70.7 mgd.

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Summary river data for July 15 - 21, 2013 (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 June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 15	97	388	90	338	0	275	413
16	97	387	90	299	0	299	417
17	97	567	90	556	0	150	423
18	96	578	90	588	0	102	429
19	96	439	90	582	0	101	434
20	96	387	90	588	0	0	437
21	97	387	90	582	0	0	440

Pepacton Reservoir (P):	Available storage July 22, 2013 (0800) Spillway crest elevation 1,280.00 ft.	132.326 billion gals. 94.4 % (elev. 1,275.67 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 22, 2013 (0800) Spillway crest elevation 1,150.00 ft.	90.108 billion gals. 94.2 % (elev. 1,146.32 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 22, 2013 (0800) Spillway crest elevation 1,440.00 ft.	32.853 billion gals. 94.0 % (elev. 1,435.70 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 22, 2013 (0800) Combined capacity at spillway level.	255.287 billion gals. 94.3 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 21, 2013 (2400) Spillway crest elevation 1,190.00 ft.	21.944 billion gals. 61.9 % (elev. 1,182.7 ft.) 35.451 billion gallons.

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 N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
	July 15	0	150	602	139	548	230	2,201	3,870	0
16	0	150	600	139	516	426	1,979	3,810	0	2.86
17	0	150	600	139	510	426	1,815	3,640	0	2.86
18	0	150	599	139	623	426	1,763	3,700	0	2.86
19	0	150	877	139	682	355	1,647	3,850	.02	2.88
20	0	150	894	139	634	319	1,534	3,670	0	2.88
21	0	149	679	139	517	53	1,453	2,990	.01	2.89

1. Release directed to maintain a flow at Montague of 1,750 cfs.

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

Diversions by New Jersey through the D&R Canal July 15 - 21, 2013 averaged 74.2 mgd. The average diversion for the 30-day period ending July 21, 2013 was 80.0 mgd and the maximum daily mean diversion was 102 mg on June 28, 2013.

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Summary river data for July 22 - 28, 2013 (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 June 1, 2013 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 22	97	387	90	583	0	0	442
23	97	387	90	391	178	0	445
24	97	387	90	486	218	0	450
25	97	386	90	588	164	101	457
26	97	389	90	588	226	0	463
27	97	388	89	588	223	0	469
28	97	389	88	587	223	0	475

Pepacton Reservoir (P):	Available storage July 29, 2013 (0800) Spillway crest elevation 1,280.00 ft.	129.007 billion gals. 92.0 % (elev. 1,273.80 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 29, 2013 (0800) Spillway crest elevation 1,150.00 ft.	87.565 billion gals. 91.5 % (elev. 1,144.63 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 29, 2013 (0800) Spillway crest elevation 1,440.00 ft.	32.486 billion gals. 93.0 % (elev. 1,434.93 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 29, 2013 (0800) Combined capacity at spillway level.	249.058 billion gals. 92.0 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 28, 2013 (2400) Spillway crest elevation 1,190.00 ft.	21.944 billion gals. 61.9 % (elev. 1,182.7 ft.) 35.451 billion gallons.

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 N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Precipitation	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
July 22	0	149	599	139	280	124	1,399	2,690	.04	2.93
23	284	149	599	139	119	124	1,670	2,800	.58	3.51
24	139	150	599	139	131	160	1,961	3,140	.22	3.73
25	268	150	599	139	93	106	2,073	3,160	0	3.73
26	154	150	599	139	44	53	1,695	2,680	0	3.73
27	70	150	597	139	17	0	1,427	2,330	0	3.73
28	0	150	602	139	102	89	1,488	2,570	.25	3.98

1. Release directed to maintain a flow at Montague of 1,750 cfs.

2. Includes conservation release from Rio Reservoir of 100 cfs, July 22 - 25, 2013 and 60 cfs, July 26 - 28, 2013.

Diversions by New Jersey through the D&R Canal July 22 - 28, 2013 averaged 73.0 mgd. The average diversion for the 30-day period ending July 28, 2013 was 76.0 mgd and the maximum daily mean diversion was 97 mgd on June 29, 2013.