

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for June 27 - July 3, 2011 (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, 2011 to date
	release begin 1200	spill begin 0800	release end 2400	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
June 27	91	0	322	81	8	176	0	391	613
28	91	0	322	71	0	200	0	389	612
29	91	0	321	71	0	201	0	495	615
30	91	0	321	71	0	285	0	325	615
July 1	91	0	328	71	0	302	0	228	612
2	96	0	330	80	0	303	0	191	609
3	434	26	322	123	251	26	0	16	591

Pepacton Reservoir (P):	Available storage July 4, 2011 (0800) Spillway crest elevation 1,280.00 ft.	140.616 billion gals. 100.3 % (elev. 1,280.23 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 4, 2011 (0800) Spillway crest elevation 1,150.00 ft.	93.166 billion gals. 97.3 % (elev. 1,148.33 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 4, 2011 (0800) Spillway crest elevation 1,440.00 ft.	35.259 billion gals. 100.9 % (elev. 1,440.64 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 4, 2011 (0800) Combined capacity at spillway level.	269.041 billion gals. 99.3 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 3, 2011 (2400) Spillway crest elevation 1,190.00 ft.	27.775 billion gals. 78.3 % (elev. 1,185.9 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.
	June 27	0	141	498	190	1,663	851	9,157	12,500	0
28	0	141	498	190	1,664	851	6,596	9,940	0	5.67
29	0	141	498	125	1,394	851	6,511	9,520	.62	6.29
30	0	141	498	110	373	851	9,227	11,200	0	6.29
July 1	0	141	497	110	371	851	6,140	8,110	0	0
2	0	141	497	110	415	337	4,610	6,110	0	0
3	0	141	507	110	228	177	7,687	8,850	.63	.63

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 Pepacton and Neversink Reservoirs.

Diversions by New Jersey through the Delaware and Raritan Canal June 27 - July 3, 2011, averaged 86.1 mgd. The average diversion for the 30-day period ending July 3, 2011 was 91.6 and the maximum daily diversion was 103 mgd on June 10, 2011.

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Summary river data for July 4 - 10, 2011 (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, 2011 to date
	release begin 1200	spill begin 0800	release end 2400	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
July 4	453	322	500	123	453	0	0	0	574
5	453	409	967	123	236	0	0	0	558
6	453	237	930	123	98	152	0	114	550
7	452	82	802	123	4	368	0	210	550
8	452	2	652	123	0	400	0	215	552
9	454	0	520	122	0	400	0	216	554
10	453	0	422	116	0	400	0	218	555

Pepacton Reservoir (P):	Available storage July 11, 2011 (0800) Spillway crest elevation 1,280.00 ft.	138.866 billion gals. 99.1 % (elev. 1,279.28 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 11, 2011 (0800) Spillway crest elevation 1,150.00 ft.	92.862 billion gals. 97.0 % (elev. 1,148.13 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 11, 2011 (0800) Spillway crest elevation 1,440.00 ft.	34.409 billion gals. 98.5 % (elev. 1,438.92 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 11, 2011 (0800) Combined capacity at spillway level.	266.137 billion gals. 98.3 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 10, 2011 (2400) Spillway crest elevation 1,190.00 ft.	26.132 billion gals. 73.7 % (elev. 1,185.0 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 4	0	141	511	124	251	798	21,575	23,400	1.12
5	0	149	498	190	619	851	14,593	16,900	0	1.75
6	0	671	774	190	805	816	9,544	12,800	0	1.75
7	0	701	1,496	190	761	780	6,372	10,300	.07	1.82
8	0	701	1,439	190	871	426	5,533	9,160	.03	1.85
9	0	701	1,241	190	970	426	6,572	10,100	.54	2.39
10	0	699	1,009	190	887	426	4,789	8,000	0	2.39

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 Pepacton and Neversink Reservoirs.

Diversions by New Jersey through the Delaware and Raritan Canal July 4 - 10, 2011, averaged 78.7 mgd. The average diversion for the 30-day period ending July 10, 2011 was 87.5 and the maximum daily diversion was 102 mgd on June 14 and 17, 2011.

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Summary river data for July 11 - 17, 2011 (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, 2011 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 11	447	392	95	400	0	203	556
12	324	392	91	400	0	196	557
13	324	389	91	400	0	197	558
14	321	387	91	401	204	205	564
15	126	387	91	400	207	207	570
16	97	387	91	400	206	0	570
17	98	387	91	400	205	4	571

Pepacton Reservoir (P):	Available storage July 18, 2011 (0800) Spillway crest elevation 1,280.00 ft.	135.656 billion gals. 96.8 % (elev. 1,277.52 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 18, 2011 (0800) Spillway crest elevation 1,150.00 ft.	90.655 billion gals. 94.7 % (elev. 1,146.68 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 18, 2011 (0800) Spillway crest elevation 1,440.00 ft.	33.461 billion gals. 95.8 % (elev. 1,436.97 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 18, 2011 (0800) Combined capacity at spillway level.	259.772 billion gals. 95.9 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 17, 2011 (2400) Spillway crest elevation 1,190.00 ft.	24.307 billion gals. 68.6 % (elev. 1,184.0 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 11	0	699	804	189	884	426	3,508	6,510	0
12	0	702	653	179	730	284	3,002	5,550	0	2.39
13	0	701	606	147	660	284	2,642	5,040	0	2.39
14	0	692	606	141	560	284	2,187	4,470	.02	2.41
15	0	501	602	141	427	284	2,135	4,090	0	2.41
16	0	501	599	141	475	142	1,912	3,770	0	2.41
17	0	497	599	141	228	0	1,725	3,190	0	2.41

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 Delaware and Raritan Canal July 11 - 17, 2011, averaged 105.6 mgd. The average diversion for the 30-day period ending July 17, 2011 was 101.4 and the maximum daily diversion was 110 mg on July 8, 2011.

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Summary river data for July 18 - 24, 2011 (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, 2011 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 18	97	387	91	400	205	208	576
19	97	387	91	400	204	0	577
20	97	387	91	400	204	0	577
21	97	385	90	303	204	403	584
22	97	469	90	341	204	189	587
23	97	652	91	400	204	0	587
24	97	534	87	401	204	0	587

Pepacton Reservoir (P):	Available storage July 25, 2011 (0800) Spillway crest elevation 1,280.00 ft.	133.078 billion gals. 94.9 % (elev. 1,276.09 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage July 25, 2011 (0800) Spillway crest elevation 1,150.00 ft.	86.828 billion gals. 90.7 % (elev. 1,144.12 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage July 25, 2011 (0800) Spillway crest elevation 1,440.00 ft.	32.533 billion gals. 93.1 % (elev. 1,435.03 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage July 25, 2011 (0800) Combined capacity at spillway level.	252.439 billion gals. 93.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 24, 2011 (2400) Spillway crest elevation 1,190.00 ft.	22.303 billion gals. 62.9 % (elev. 1,182.9 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 18	0	195	599	141	318	142	1,705	3,100	0	2.41
19	0	150	599	141	353	230	1,797	3,270	.16	2.57
20	0	152	599	141	355	142	1,651	3,040	0	2.57
21	0	150	599	141	433	177	1,600	3,100	.03	2.60
22	0	150	599	141	595	319	1,386	3,190	0	2.60
23	0	150	596	139	656	426	1,253	3,220	0	2.60
24	177	150	726	139	405	142	1,288	2,850	.03	2.63

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 Delaware and Raritan Canal July 18 - 24, 2011, averaged 98.6 mgd. The average diversion for the 30-day period ending July 24, 2011 was 101.8 and the maximum daily diversion was 110 mg on July 8, 2011.

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Summary river data for July 25 - 31, 2011 (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, 2011 to date
	release begin 1200	release end 2400	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
July 25	89	348	69	401	204	0	588
26	91	320	71	401	204	0	588
27	91	324	71	401	204	171	591
28	91	324	71	317	8	145	589
29	91	323	70	445	0	210	590
30	91	323	71	449	0	212	592
31	91	322	72	449	0	212	593

Pepacton Reservoir (P):	Available storage Aug. 1, 2011 (0800) Spillway crest elevation 1,280.00 ft.	130.848 billion gals. 93.3 % (elev. 1,274.84 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Aug. 1, 2011 (0800) Spillway crest elevation 1,150.00 ft.	84.863 billion gals. 88.7 % (elev. 1,142.76 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Aug. 1, 2011 (0800) Spillway crest elevation 1,440.00 ft.	31.775 billion gals. 90.9 % (elev. 1,433.42 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Aug. 1, 2011 (0800) Combined capacity at spillway level.	247.486 billion gals. 91.4 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage July 31, 2011 (2400) Spillway crest elevation 1,190.00 ft.	21.407 billion gals. 60.4 % (elev. 1,182.4 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 25	312	150	1,009	141	439	0	1,311	3,050	.07
26	167	150	826	135	199	0	2,170	3,480	1.15	3.85
27	343	150	538	107	344	0	2,651	3,790	.15	4.00
28	311	138	495	110	366	71	2,190	3,370	0	4.00
29	0	141	501	110	319	177	1,802	3,050	0	4.00
30	0	141	501	110	400	124	1,994	3,270	.72	4.72
31	0	141	500	108	497	0	1,954	3,200	0	4.72

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 Delaware and Raritan Canal July 25 - 31, 2011, averaged 84.9 mgd. The average diversion for the 30-day period ending July 31, 2011 was 98.7 and the maximum daily diversion was 110 mg on July 8, 2011.