

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for November 28 - December 4, 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	
Nov. 28	453	145	123	201	478	0	508
29	453	145	123	200	478	0	509
30	453	294	123	17	479	0	509
Dec. 1	453	453	123	0	479	0	509
2	453	453	123	0	479	0	509
3	453	453	123	0	479	0	509
4	453	453	123	0	479	0	508

Pepacton Reservoir (P):	Available storage Dec. 5, 2011 (0800) Spillway crest elevation 1,280.00 ft.	136.636 billion gals. 97.5 % (elev. 1,278.06 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 5, 2011 (0800) Spillway crest elevation 1,150.00 ft.	86.496 billion gals. 90.4 % (elev. 1,143.89 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 5, 2011 (0800) Spillway crest elevation 1,440.00 ft.	33.601 billion gals. 96.2 % (elev. 1,437.26 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 5, 2011 (0800) Combined capacity at spillway level.	256.733 billion gals. 94.8 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 4, 2011 (2400) Spillway crest elevation 1,190.00 ft.	22.124 billion gals. 62.4 % (elev. 1,182.8 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 <sup>2</sup>	Total Discharge	Precipitation	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			(inches)	
							Daily	Cumul.		
Nov. 28	0	701	224	192	1,495	337	6,571	9,520	0	2.40
29	0	701	224	190	1,621	390	5,994	9,120	.04	2.44
30	0	701	224	190	1,621	390	13,174	16,300	1.13	3.57
Dec. 1	0	701	224	190	1,621	496	13,968	17,200	0	0
2	0	701	455	190	1,133	532	9,889	12,900	0	0
3	0	701	701	190	483	567	7,858	10,500	0	0
4	0	701	701	190	183	461	6,904	9,140	0	0

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 November 28 - December 4, 2011, averaged 83.1 mgd.

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Summary river data for December 5 - 11, 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	
Dec. 5	453	0	453	123	0	0	479	0	508
6	453	0	453	123	0	0	479	0	508
7	453	0	453	123	0	0	479	0	508
8	453	242	620	123	261	0	69	0	506
9	453	579	961	123	324	0	0	0	503
10	453	927	963	123	299	0	0	0	500
11	453	919	969	123	212	0	0	0	498

Pepacton Reservoir (P):	Available storage Dec. 12, 2011 (0800) Spillway crest elevation 1,280.00 ft.	141.079 billion gals. 100.6 % (elev. 1,280.48 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 12, 2011 (0800) Spillway crest elevation 1,150.00 ft.	89.454 billion gals. 93.5 % (elev. 1,145.89 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 12, 2011 (0800) Spillway crest elevation 1,440.00 ft.	35.095 billion gals. 100.4 % (elev. 1,440.31 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 12, 2011 (0800) Combined capacity at spillway level.	265.628 billion gals. 98.1 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 11, 2011 (2400) Spillway crest elevation 1,190.00 ft.	22.482 billion gals. 63.4 % (elev. 1,183.0 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 <sup>2</sup>	Total Discharge	Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
	Dec. 5	0	701	701	190	255	603	6,290	8,740	0
6	0	701	701	190	510	603	5,735	8,440	.13	.13
7	0	701	701	190	725	461	6,942	9,720	.27	.40
8	0	701	701	190	1,362	461	24,485	27,900	1.80	2.20
9	0	701	701	190	1,517	851	19,840	23,800	0	2.20
10	0	701	959	190	895	851	14,704	18,300	0	2.20
11	0	701	1,487	190	749	851	11,922	15,900	0	2.20

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 are currently unavailable.

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Summary river data for December 12 - 18, 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	
Dec. 12	453	414	972	123	176	171	205	0	497
13	453	196	972	123	155	199	293	0	497
14	453	100	970	123	147	254	221	0	497
15	453	46	969	122	152	300	303	0	498
16	453	24	968	123	124	384	303	0	499
17	453	0	968	123	109	400	303	0	500
18	454	0	918	125	90	400	303	0	501

Pepacton Reservoir (P):	Available storage Dec. 19, 2011 (0800) Spillway crest elevation 1,280.00 ft.	139.564 billion gals. 99.6 % (elev. 1,279.66 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 19, 2011 (0800) Spillway crest elevation 1,150.00 ft.	86.236 billion gals. 90.1 % (elev. 1,143.71 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 19, 2011 (0800) Spillway crest elevation 1,440.00 ft.	35.031 billion gals. 100.3 % (elev. 1,440.18 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 19, 2011 (0800) Combined capacity at spillway level.	260.831 billion gals. 96.3 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 18, 2011 (2400) Spillway crest elevation 1,190.00 ft.	22.665 billion gals. 63.9 % (elev. 1,183.1 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 <sup>2</sup>	Total Discharge	Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
	Dec. 12	0	701	1,490	190	709	851	9,859	13,800	0
13	0	701	1,499	190	740	851	8,419	12,400	0	2.20
14	0	701	1,504	190	546	727	7,332	11,000	0	2.20
15	0	701	1,504	190	507	727	6,671	10,300	0	2.20
16	0	701	1,501	190	662	727	6,419	10,200	.09	2.29
17	0	701	1,499	189	435	709	6,107	9,640	0	2.29
18	0	701	1,497	190	185	461	5,426	8,460	0	2.29

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 December 12 - 18, 2011 averaged 83.0 mgd. The average diversion for the 30-day period ending December 18, 2011 was 80.6 mgd and the maximum diversion during the period was 88 mg on November 25, 2011.

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Summary river data for December 19 - 25, 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		Average June 1, 2011 to date	
	release begin 1200	release end 2400	release begin 1500	spill begin 0800	beginning 0800	beginning 0800		beginning 0800
Dec. 19	453	678	123	66	448	303	0	502
20	453	469	123	65	450	302	0	503
21	453	453	123	103	450	303	0	504
22	453	452	123	183	450	303	0	506
23	454	453	123	229	450	303	0	507
24	454	454	123	192	450	303	0	508
25	453	454	123	156	450	303	0	509

Pepacton Reservoir (P):	Available storage Dec. 26, 2011 (0800) Spillway crest elevation 1,280.00 ft.	138.498 billion gals. 98.8 % (elev. 1,279.08 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 26, 2011 (0800) Spillway crest elevation 1,150.00 ft.	87.811 billion gals. 91.8 % (elev. 1,144.80 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 26, 2011 (0800) Spillway crest elevation 1,440.00 ft.	35.070 billion gals. 100.4 % (elev. 1,440.26 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 26, 2011 (0800) Combined capacity at spillway level.	261.379 billion gals. 96.5 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 25, 2011 (2400) Spillway crest elevation 1,190.00 ft.	22.847 billion gals. 64.4 % (elev. 1,183.2 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 <sup>2</sup>	Total Discharge	Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
							Dec. 19	0		
20	0	701	1,420	190	569	195	4,215	7,290	.01	2.30
21	0	702	1,049	190	634	0	4,635	7,210	.04	2.34
22	0	701	726	190	630	674	5,759	8,680	.50	2.84
23	0	701	701	190	569	585	7,654	10,400	.54	3.38
24	0	701	699	190	523	567	9,020	11,700	0	3.38
25	0	701	701	190	289	372	7,427	9,680	0	3.38

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 December 19 - 25, 2011 averaged 76.3 mgd. The average diversion for the 30-day period ending December 25, 2011 was 77.2 mgd and the maximum diversion during the period was 89 mg on December 7, 2011.

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Summary river data for December 26, 2011 to January 1, 2012 (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		Average June 1, 2011 to date	
	release begin 1200	release end 2400	release begin 1500	spill begin 0800	beginning 0800	beginning 0800		beginning 0800
Dec. 26	453	454	123	124	450	303	0	510
27	452	502	123	222	319	304	0	511
28	454	744	123	342	300	304	0	511
29	454	953	125	207	301	304	0	512
30	454	970	120	172	298	301	0	512
31	454	999	123	156	301	304	0	513
Jan. 1	453	969	122	147	298	300	0	513

Pepacton Reservoir (P):	Available storage Jan. 2, 2012 (0800) Spillway crest elevation 1,280.00 ft.	139.401 billion gals. 99.4 % (elev. 1,279.58 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Jan. 2, 2012 (0800) Spillway crest elevation 1,150.00 ft.	87.768 billion gals. 91.7 % (elev. 1,144.77 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Jan. 2, 2012 (0800) Spillway crest elevation 1,440.00 ft.	35.070 billion gals. 100.4 % (elev. 1,440.26 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Jan. 2, 2012 (0800) Combined capacity at spillway level.	262.256 billion gals. 96.8 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Jan. 1, 2012 (2400) Spillway crest elevation 1,190.00 ft.	22.847 billion gals. 64.4 % (elev. 1,183.2 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 <sup>2</sup>	Total Discharge	Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.
							Dec. 26	0		
27	0	702	702	190	527	585	6,134	8,840	0	3.38
28	0	701	702	190	570	461	10,876	13,500	.85	4.23
29	0	701	777	190	1,212	248	11,072	14,200	0	4.23
30	0	699	1,151	190	970	603	8,387	12,000	0	4.23
31	0	702	1,474	193	459	656	6,816	10,300	0	4.23
Jan. 1	0	702	1,501	186	222	426	6,633	9,670	0	0

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 December 26, 2011 to January 1, 2012 averaged 78.9 mgd. The average diversion for the 30-day period ending January 1, 2012 was 76.2 mgd and the maximum diversion during the period was 89 mgd on December 7, 2011.