

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for December 1 - 7, 2003 (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, 2003 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
Dec. 1	29	1,137	30	930	16	9	388	0	10	511
2	29	792	30	879	16	146	446	0	0	511
3	29	459	30	840	16	245	441	0	0	510
4	29	302	30	808	16	258	448	0	0	510
5	29	224	30	699	16	271	501	0	0	510
6	29	173	30	640	16	274	496	0	0	510
7	29	109	30	577	16	266	501	0	0	510

Pepacton Reservoir (P):	Available storage Dec. 8, 2003 (0800) Spillway crest elevation 1,280.00 ft.	140.486 billion gals. 100.2 % (elev. 1,280.16 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 8, 2003 (0800) Spillway crest elevation 1,150.00 ft.	97.508 billion gals. 101.9 % (elev. 1,151.12 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 8, 2003 (0800) Spillway crest elevation 1,440.00 ft.	35.130 billion gals. 100.5 % (elev. 1,440.38 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 8, 2003 (0800) Combined capacity at spillway level.	273.124 billion gals. 100.8 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 7, 2003 (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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Dec. 1	0	45	46	25	537	738	14,609	16,000	0	2,994	0
2	0	45	46	25	594	762	12,228	13,700	0	2,994	.01	.01
3	0	45	46	25	819	851	10,214	12,000	0	2,994	0	.01
4	0	45	46	25	816	794	9,074	10,800	0	2,994	.01	.02
5	0	45	46	25	963	645	8,206	9,930	0	2,994	0	.02
6	0	45	46	25	924	660	7,770	9,470	0	2,994	.34	.36
7	0	45	46	25	1,002	660	7,212	8,990	0	2,994	.05	.41

1. Release directed to maintain a flow at Montague of 1,810 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2003 is 11,418 cfs-days. Sixty percent is to be released under normal conditions and forty percent is to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 6.

Diversions by New Jersey through the D & R Canal December 1 - 7, 2003, averaged 90.6 mgd. The average diversion for the 30-day period ending December 7, 2003 was 87.4 mgd and the maximum diversion during the period was 95 mgd on November 18, 2003.

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Summary river data for December 8 - 14, 2003 (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, 2003 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
Dec. 8	29	67	30	520	16	304	502	0	0	510
9	29	33	30	457	16	297	502	0	0	510
10	29	8	30	414	16	206	502	0	0	510
11	29	706	30	2,752	16	1,336	497	0	0	509
12	29	1,272	30	1,918	16	761	497	0	0	509
13	29	995	30	1,773	16	448	502	0	0	509
14	29	814	30	1,515	16	388	501	0	0	509

Pepacton Reservoir (P):	Available storage Dec. 15, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.394 billion gals. 100.9 % (elev. 1,280.65 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 15, 2003 (0800) Spillway crest elevation 1,150.00 ft.	98.893 billion gals. 103.3 % (elev. 1,151.98 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 15, 2003 (0800) Spillway crest elevation 1,440.00 ft.	35.174 billion gals. 100.7 % (elev. 1,440.47 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 15, 2003 (0800) Combined capacity at spillway level.	275.461 billion gals. 101.7 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 14, 2003 (2400) Spillway crest elevation 1,190.00 ft.	28.328 billion gals. 79.9 % (elev. 1,186.2 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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Dec. 8	0	45	46	25	962	450	6,402	7,930	0	2,994	0
9	0	45	46	25	972	11	6,011	7,110	0	2,994	0	.41
10	0	45	46	25	882	142	5,640	6,780	0	2,994	0	.41
11	0	45	46	25	755	649	13,680	15,200	0	2,994	.74	1.15
12	0	45	46	25	1,391	986	41,107	43,600	0	2,994	.87	2.02
13	0	45	46	25	1,694	1,245	26,345	29,400	0	2,994	0	2.02
14	0	45	46	25	1,722	1,270	18,392	21,500	0	2,994	.02	2.04

1. Release directed to maintain a flow at Montague of 1,810 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2003 is 11,418 cfs-days. Sixty percent is to be released under normal conditions and forty percent is to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 6.

Diversions by New Jersey through the D & R Canal December 8 - 14, 2003, averaged 58.4 mgd. The average diversion for the 30-day period ending December 14, 2003 was 70.7 mgd and the maximum diversion during the period was 95 mg on November 18, 2003.

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Summary river data for December 15 - 21, 2003 (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, 2003 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
Dec. 15	29	674	30	1,334	16	300	496	0	0	509
16	29	472	30	1,102	16	278	290	0	0	508
17	29	876	30	1,009	16	367	0	0	0	506
18	29	904	30	1,155	16	347	0	0	0	503
19	384	773	30	1,051	16	292	0	0	0	501
20	461	456	30	923	16	253	0	0	0	498
21	461	283	30	808	16	234	0	0	0	496

Pepacton Reservoir (P):	Available storage Dec. 22, 2003 (0800) Spillway crest elevation 1,280.00 ft.	140.727 billion gals. 100.4 % (elev. 1,280.29 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 22, 2003 (0800) Spillway crest elevation 1,150.00 ft.	97.846 billion gals. 102.2 % (elev. 1,151.33 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 22, 2003 (0800) Spillway crest elevation 1,440.00 ft.	35.115 billion gals. 100.5 % (elev. 1,440.35 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 22, 2003 (0800) Combined capacity at spillway level.	273.688 billion gals. 101.1 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 21, 2003 (2400) Spillway crest elevation 1,190.00 ft.	25.950 billion gals. 73.2 % (elev. 1,184.9 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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Dec. 15	0	45	46	25	1,722	1,472	14,990	18,300	0	2,994	.87
16	0	45	46	25	1,659	1,255	12,770	15,800	0	2,994	0	2.91
17	0	45	46	25	1,646	1,277	11,061	14,100	0	2,994	.08	2.99
18	0	45	46	25	1,702	1,227	13,355	16,400	0	2,994	.46	3.45
19	0	45	46	25	1,518	1,184	12,182	15,000	0	2,994	0	3.45
20	0	45	46	25	1,078	918	10,788	12,900	0	2,994	.01	3.46
21	0	45	46	25	1,105	766	9,813	11,800	0	2,994	0	3.46

1. Release directed to maintain a flow at Montague of 1,810 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2003 is 11,418 cfs-days. Sixty percent is to be released under normal conditions and forty percent is to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 6.

Diversions by New Jersey through the D & R Canal December 15 - 21, 2003, averaged 66.7 mgd. The average diversion for the 30-day period ending December 21, 2003 was 76.9 mgd and the maximum diversion during the period was 94 mgd on November 27, 2003.

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Summary river data for December 22 - 28, 2003 (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, 2003 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
Dec. 22	461	193	30	700	16	230	0	0	0	493
23	427	174	30	676	16	247	0	0	0	491
24	29	2,651	30	1,559	16	1,523	0	0	0	489
25	29	3,349	30	3,183	16	989	0	0	0	486
26	29	2,285	30	2,987	16	526	0	0	0	484
27	29	1,722	30	2,347	16	406	0	0	0	482
28	29	1,270	30	1,817	16	362	0	0	0	479

Pepacton Reservoir (P):	Available storage Dec. 29, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.709 billion gals. 101.1 % (elev. 1,280.82 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 29, 2003 (0800) Spillway crest elevation 1,150.00 ft.	99.231 billion gals. 103.7 % (elev. 1,152.19 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 29, 2003 (0800) Spillway crest elevation 1,440.00 ft.	35.174 billion gals. 100.7 % (elev. 1,440.47 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 29, 2003 (0800) Combined capacity at spillway level.	276.114 billion gals. 101.9 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 28, 2003 (2400) Spillway crest elevation 1,190.00 ft.	25.950 billion gals. 73.2 % (elev. 1,184.9 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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Dec. 22	0	594	46	25	1,020	482	8,233	10,400	0	2,994	0
23	0	713	46	25	1,078	355	7,573	9,790	0	2,994	0	3.46
24	0	713	46	25	1,097	599	11,520	14,000	0	2,994	.43	3.89
25	0	713	46	25	1,597	706	35,513	38,600	0	2,994	.58	4.47
26	0	661	46	25	1,463	730	28,975	31,900	0	2,994	.02	4.49
27	0	45	46	25	1,053	770	22,061	24,000	0	2,994	0	4.49
28	0	45	46	25	1,021	752	17,211	19,100	0	2,994	0	4.49

1. Release directed to maintain a flow at Montague of 1,810 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2003 is 11,418 cfs-days. Sixty percent is to be released under normal conditions and forty percent is to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 6.

Diversions by New Jersey through the D & R Canal December 22 - 28, 2003, averaged 77.6 mgd. The average diversion for the 30-day period ending December 28, 2003 was 73.7 mgd and the maximum diversion during the period was 92 mgd on December 5 and 6, 2003.

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Summary river data for December 29, 2003 - January 4, 2004 (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, 2003 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	spill begin 0800	beginning 0800	beginning 0800	beginning 0800	
Dec. 29	34	1,051	30	1,372	16	215	0	0	286	478
30	222	917	30	1,187	16	10	0	0	384	478
31	401	669	30	950	16	0	3	0	305	477
Jan. 1	458	345	30	950	16	0	289	0	0	476
2	460	113	30	852	16	68	459	0	0	476
3	459	53	30	837	16	272	495	0	0	476
4	464	77	30	1,004	16	413	500	0	0	476

Pepacton Reservoir (P):	Available storage Jan. 5, 2004 (0800) Spillway crest elevation 1,280.00 ft.	140.560 billion gals. 100.3 % (elev. 1,280.20 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Jan. 5, 2004 (0800) Spillway crest elevation 1,150.00 ft.	98.474 billion gals. 102.9 % (elev. 1,151.72 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Jan. 5, 2004 (0800) Spillway crest elevation 1,440.00 ft.	35.229 billion gals. 100.8 % (elev. 1,440.58 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Jan. 5, 2004 (0800) Combined capacity at spillway level.	274.263 billion gals. 101.3 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Jan. 4, 2004 (2400) Spillway crest elevation 1,190.00 ft.	24.490 billion gals. 69.1 % (elev. 1,184.1 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 ²	Total Discharge	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Dec. 29	0	45	46	25	1,069	791	13,924	15,900	0	2,994	0
30	0	45	46	25	1,075	816	11,993	14,000	0	2,994	.09	4.58
31	0	45	46	25	1,063	734	11,287	13,200	0	2,994	.05	4.63
Jan. 1	0	53	46	25	1,012	727	10,237	12,100	0	2,994	0	0
2	0	343	46	25	1,064	741	8,881	11,100	0	2,994	.08	.08
3	0	620	46	25	1,047	504	7,958	10,200	0	2,994	.15	.23
4	0	709	46	25	960	383	9,277	11,400	0	2,994	.21	.44

1. Release directed to maintain a flow at Montague of 1,810 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2003 is 11,418 cfs-days. Sixty percent is to be released under normal conditions and forty percent is to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 6.

Diversions by New Jersey through the D & R Canal December 29, 2003 - January 4, 2004 averaged 84.3 mgd. The average diversion for the 30-day period ending January 4, 2004 was 73.1 mgd and the maximum diversion during the period was 92 mg on December 6, 2003.