

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for November 3 - 9, 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	
Nov. 3	29	991	28	1,278	16	302	0	0	0	525
4	29	799	28	1,059	16	267	0	0	0	522
5	29	699	28	935	16	308	338	0	0	521
6	29	490	28	874	16	333	449	0	0	520
7	29	311	28	742	16	268	449	0	0	520
8	29	308	28	627	16	73	0	0	352	519
9	29	377	28	496	16	0	0	0	360	518

Pepacton Reservoir (P):	Available storage Nov. 10, 2003 (0800) Spillway crest elevation 1,280.00 ft.	140.950 billion gals. 100.5 % (elev. 1,280.41 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 10, 2003 (0800) Spillway crest elevation 1,150.00 ft.	97.235 billion gals. 101.6 % (elev. 1,150.95 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 10, 2003 (0800) Spillway crest elevation 1,440.00 ft.	34.724 billion gals. 99.4 % (elev. 1,439.56 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 10, 2003 (0800) Combined capacity at spillway level.	272.909 billion gals. 100.8 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 9, 2003 (2400) Spillway crest elevation 1,190.00 ft.	26.315 billion gals. 74.2 % (elev. 1,185.1 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	Excess Release Credits <sup>3</sup>		Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
	Nov. 3	0	45	45	25	136	855	14,494	15,600	0	2,994	.05
4	0	45	45	25	658	844	11,883	13,500	0	2,994	0	.05
5	0	45	43	25	826	865	10,396	12,200	0	2,994	.03	.08
6	0	45	43	25	1,055	833	10,899	12,900	0	2,994	.34	.42
7	0	45	43	25	1,036	447	10,404	12,000	0	2,994	.04	.46
8	0	45	43	25	1,054	454	8,479	10,100	0	2,994	0	.46
9	0	45	43	25	1,055	351	7,281	8,800	0	2,994	0	.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 November 3 - 9, 2003, averaged 87.3 mgd. The average diversion for the 30-day period ending November 9, 2003 was 89.1 mgd and the maximum diversion during the period was 97 mg on November 2 and 3, 2003.

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Summary river data for November 10 - 16, 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				Average June 1, 2003 to date
	Pepacton		Cannonsville		Neversink	Pepacton	Cannonsville	Neversink		
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800		
Nov. 10	29	369	28	526	16	189	0	360	518	
11	29	292	28	448	16	287	0	381	519	
12	29	235	28	449	16	292	0	382	520	
13	29	194	28	495	16	301	0	385	521	
14	29	163	28	495	16	301	0	385	522	
15	29	138	28	480	16	296	0	386	523	
16	29	116	28	473	16	292	0	381	524	

Pepacton Reservoir (P):	Available storage Nov. 17, 2003 (0800) Spillway crest elevation 1,280.00 ft.	140.505 billion gals. 100.2 % (elev. 1,280.17 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 17, 2003 (0800) Spillway crest elevation 1,150.00 ft.	97.299 billion gals. 101.7 % (elev. 1,150.99 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 17, 2003 (0800) Spillway crest elevation 1,440.00 ft.	33.249 billion gals. 95.2 % (elev. 1,436.53 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 17, 2003 (0800) Combined capacity at spillway level.	271.053 billion gals. 100.1 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 16, 2003 (2400) Spillway crest elevation 1,190.00 ft.	23.395 billion gals. 66.0 % (elev. 1,183.5 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	Excess Release Credits <sup>3</sup>		Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
Nov. 10	0	45	43	25	1,051	362	6,584	8,110	0	2,994	0	.46
11	0	45	43	25	1,086	259	6,312	7,770	0	2,994	0	.46
12	0	45	43	25	1,045	252	6,270	7,680	0	2,994	.24	.70
13	0	45	43	25	1,066	645	6,356	8,180	0	2,994	.06	.76
14	0	45	43	25	1,093	486	5,748	7,440	0	2,994	.01	.77
15	0	45	43	25	1,096	152	5,459	6,820	0	2,994	0	.77
16	0	45	43	25	1,025	294	5,078	6,510	0	2,994	0	.77

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 and Cannonsville 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.

Diversion by New Jersey through the D & R Canal November 10 - 16, 2003, averaged 91.4 mgd. The average diversion for the 30-day period ending November 16, 2003 was 88.8 mgd and the maximum diversion during the period was 97 mg on November 2 and 3, 2003.

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Summary river data for November 17 - 23, 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				Average June 1, 2003 to date
	Pepacton		Cannonsville		Neversink	Pepacton	Cannonsville	Neversink		
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800		
Nov. 17	29	91	28	462	16	293	0	393	525	
18	29	88	28	430	16	232	0	312	525	
19	29	824	28	607	16	0	0	129	522	
20	29	2,933	28	2,111	16	0	0	353	521	
21	29	2,514	28	2,561	16	0	0	344	520	
22	29	1,858	28	1,826	16	0	0	341	519	
23	29	1,376	28	1,190	16	0	0	338	518	

Pepacton Reservoir (P):	Available storage Nov. 24, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.764 billion gals. 101.1 % (elev. 1,280.85 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 24, 2003 (0800) Spillway crest elevation 1,150.00 ft.	98.233 billion gals. 102.6 % (elev. 1,151.57 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 24, 2003 (0800) Spillway crest elevation 1,440.00 ft.	34.517 billion gals. 98.8 % (elev. 1,439.14 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 24, 2003 (0800) Combined capacity at spillway level.	274.514 billion gals. 101.4 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 23, 2003 (2400) Spillway crest elevation 1,190.00 ft.	24.125 billion gals. 68.1 % (elev. 1,183.9 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 <sup>2</sup>	Total Discharge	Excess Release Credits <sup>3</sup>		Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
Nov. 17	0	45	43	25	986	199	4,712	6,010	0	2,994	.03	.80
18	0	45	43	25	623	234	4,730	5,700	0	2,994	.02	.82
19	0	45	43	25	642	326	4,849	5,930	0	2,994	.12	.94
20	0	45	43	25	760	362	20,665	21,900	0	2,994	1.73	2.67
21	0	45	43	25	754	663	29,170	30,700	0	2,994	0	2.67
22	0	45	43	25	587	156	22,044	22,900	0	2,994	0	2.67
23	0	45	43	25	568	355	17,064	18,100	0	2,994	0	2.67

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 and Cannonsville 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.

Diversion by New Jersey through the D & R Canal November 17 - 23, 2003, averaged 78.4 mgd. The average diversion for the 30-day period ending November 23, 2003 was 85.6 mgd and the maximum diversion during the period was 97 mg on November 2 and 3, 2003.

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Summary river data for November 24 - 30, 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				Average June 1, 2003 to date
	Pepacton		Cannonsville		Neversink	Pepacton	Cannonsville	Neversink		
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800		
Nov. 24	29	1,172	28	1,105	16	0	0	338	517	
25	29	1,108	29	1,178	16	0	0	342	516	
26	29	932	30	923	16	0	0	343	515	
27	29	832	30	880	16	0	0	341	514	
28	29	1,078	30	809	16	0	0	341	513	
29	29	1,679	30	1,050	16	0	0	342	512	
30	29	1,468	30	1,002	16	0	0	341	512	

Pepacton Reservoir (P):	Available storage Dec. 1, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.894 billion gals. 101.2 % (elev. 1,280.92 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 1, 2003 (0800) Spillway crest elevation 1,150.00 ft.	98.088 billion gals. 102.5 % (elev. 1,151.48 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 1, 2003 (0800) Spillway crest elevation 1,440.00 ft.	34.729 billion gals. 99.4 % (elev. 1,439.57 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 1, 2003 (0800) Combined capacity at spillway level.	274.711 billion gals. 101.4 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 30, 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 <sup>2</sup>	Total Discharge	Excess Release Credits <sup>3</sup>		Precipitation (inches)	
	Directed release <sup>1</sup>	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
Nov. 24	0	45	43	25	414	479	13,894	14,900	0	2,994	0	2.67
25	0	45	43	25	506	681	12,200	13,500	0	2,994	.26	2.93
26	0	45	43	25	439	688	11,260	12,500	0	2,994	.01	2.94
27	0	45	45	25	410	553	9,612	10,700	0	2,994	0	2.94
28	0	45	46	25	66	550	9,268	10,000	0	2,994	.03	2.97
29	0	45	46	25	758	631	16,095	17,600	0	2,994	1.00	3.97
30	0	45	46	25	764	681	17,739	19,300	0	2,994	.01	3.98

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 and Cannonsville 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 November 24 - 30, 2003, averaged 88.4 mgd. The average diversion for the 30-day period ending November 30, 2003 was 87.0 mgd and the maximum diversion during the period was 97 mg on November 2 and 3, 2003.