

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for November 1 - 7, 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			Average June 1, 2004 to date
	Pepacton		Cannonsville		Neversink	Pepacton	Cannonsville	Neversink	
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Nov. 1	76	171	287	21	21	0	0	0	490
2	80	315	210	21	21	0	0	0	487
3	80	278	139	21	21	0	0	0	483
4	79	169	120	20	20	314	187	239	485
5	27	42	88	16	16	496	301	383	489
6	28	45	81	16	16	496	301	388	494
7	66	45	65	16	16	484	279	349	498

Pepacton Reservoir (P):	Available storage Nov. 8, 2004 (0800) Spillway crest elevation 1,280.00 ft.	137.930 billion gals. 98.4 % (elev. 1,278.77 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 8, 2004 (0800) Spillway crest elevation 1,150.00 ft.	96.092 billion gals. 100.4 % (elev. 1,150.24 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 8, 2004 (0800) Spillway crest elevation 1,440.00 ft.	31.790 billion gals. 91.0 % (elev. 1,433.45 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 8, 2004 (0800) Combined capacity at spillway level.	265.812 billion gals. 98.1 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 7, 2004 (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	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. 1	0	108	46	25	0	138	3,383	3,700	0	5,209	0	0
2	0	108	45	28	350	71	3,118	3,720	0	5,209	0	0
3	0	118	265	32	308	67	3,060	3,850	0	5,209	.07	.07
4	0	118	487	32	219	67	2,767	3,690	0	5,209	0	.07
5	0	124	430	32	325	199	3,460	4,570	0	5,209	.55	.62
6	0	124	261	31	305	177	3,762	4,660	0	5,209	0	.62
7	0	122	65	25	0	0	3,538	3,750	0	5,209	0	.62

1. Release directed to maintain a flow at Montague of 1,820 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2004 is 13,556 cfs-days. Under normal conditions, 7,856 cfs-days are to be released and 5,700 cfs-days are to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 7.

Diversions by New Jersey through the Delaware & Raritan Canal November 1 -7, 2004 averaged 83.9 mgd. The average diversion for the 30-day period ending November 7, 2004 was 83.6 mgd and the maximum diversion during the period was 97 mgd on October 16, 2004.

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Summary river data for November 8 - 14, 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			Average June 1, 2004 to date
	Pepacton		Cannonsville		Neversink	Pepacton	Cannonsville	Neversink	
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Nov. 8	83	146	34	16	16	494	431	0	500
9	83	113	1	16	16	496	488	0	503
10	83	75	0	16	16	464	34	0	503
11	83	39	30	18	18	491	0	0	503
12	81	51	49	24	24	496	0	259	505
13	61	44	101	16	16	496	0	390	507
14	80	35	138	16	16	496	0	342	509

Pepacton Reservoir (P):	Available storage Nov. 15, 2004 (0800) Spillway crest elevation 1,280.00 ft.	135.493 billion gals. 96.6 % (elev. 1,277.43 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 15, 2004 (0800) Spillway crest elevation 1,150.00 ft.	96.495 billion gals. 100.8 % (elev. 1,150.49 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 15, 2004 (0800) Spillway crest elevation 1,440.00 ft.	31.266 billion gals. 89.5 % (elev. 1,432.33 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 15, 2004 (0800) Combined capacity at spillway level.	263.254 billion gals. 97.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 14, 2004 (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	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. 8	0	42	70	25	0	135	3,138	3,410	0	5,209	0	.62
9	0	43	70	25	295	337	2,890	3,660	0	5,209	.01	.63
10	0	102	226	25	347	0	2,690	3,390	0	5,209	0	.63
11	0	128	175	25	262	0	2,510	3,100	0	5,209	0	.63
12	0	128	116	25	294	0	2,597	3,160	0	5,209	.10	.73
13	0	128	60	28	506	0	2,578	3,300	0	5,209	.17	.90
14	0	128	79	37	0	0	2,676	2,920	0	5,209	0	.90

1. Release directed to maintain a flow at Montague of 1,820 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2004 is 13,556 cfs-days. Under normal conditions, 7,856 cfs-days are to be released and 5,700 cfs-days are to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 7.

Diversions by New Jersey through the Delaware & Raritan Canal November 8 -14, 2004 averaged 83.0 mgd. The average diversion for the 30-day period ending November 14, 2004 was 85.6 mgd and the maximum diversion during the period was 97 mg on October 16, 2004.

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Summary river data for November 15 - 21, 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, 2004 to date
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800		
Nov. 15	90	36	155	25	472	0	371	511	
16	89	30	160	27	463	0	223	512	
17	88	29	251	36	463	0	213	513	
18	89	29	191	45	446	0	263	514	
19	90	29	200	44	449	0	254	515	
20	90	29	212	44	449	0	295	517	
21	90	29	213	44	444	0	294	518	

Pepacton Reservoir (P):	Available storage Nov. 22, 2004 (0800) Spillway crest elevation 1,280.00 ft.	133.114 billion gals. 95.0 % (elev. 1,276.11 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 22, 2004 (0800) Spillway crest elevation 1,150.00 ft.	96.703 billion gals. 101.0 % (elev. 1,150.62 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 22, 2004 (0800) Spillway crest elevation 1,440.00 ft.	29.706 billion gals. 85.0 % (elev. 1,428.92 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 22, 2004 (0800) Combined capacity at spillway level.	259.523 billion gals. 95.8 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 21, 2004 (2400) Spillway crest elevation 1,190.00 ft.	21.048 billion gals. 59.4 % (elev. 1,182.2 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	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. 15	0	125	68	25	0	0	2,572	2,790	0	5,209	0
16	0	94	54	25	245	0	2,582	3,000	0	5,209	0	.90
17	0	124	56	39	568	89	2,434	3,310	0	5,209	0	.90
18	0	139	46	42	312	113	2,518	3,170	0	5,209	0	.90
19	0	138	45	56	583	71	2,337	3,230	0	5,209	.01	.91
20	0	136	45	70	281	85	2,403	3,020	0	5,209	.01	.92
21	0	138	45	68	0	85	2,464	2,800	0	5,209	.21	1.13

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.	

1. Release directed to maintain a flow at Montague of 1,820 cfs.

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

3. The excess-release quantity for the seasonal period beginning June 15, 2004 is 13,556 cfs-days. Under normal conditions, 7,856 cfs-days are to be released and 5,700 cfs-days are to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 7.

Diversions by New Jersey through the Delaware & Raritan Canal November 15 -21, 2004 averaged 84.6 mgd. The average diversion for the 30-day period ending November 21, 2004 was 84.9 mgd and the maximum diversion during the period was 90 mg on October 25, 2004.

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Summary river data for November 22 - 28, 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, 2004 to date
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800		
Nov. 22	90	29	224	45	444	0	294	519	
23	90	29	225	45	449	0	296	520	
24	88	29	230	38	449	0	296	522	
25	68	29	340	32	450	0	295	523	
26	55	29	512	27	449	0	296	524	
27	35	30	592	23	449	0	296	525	
28	23	30	1,281	16	449	0	72	525	

Pepacton Reservoir (P):	Available storage Nov. 29, 2004 (0800) Spillway crest elevation 1,280.00 ft.	134.516 billion gals. 96.0 % (elev. 1,276.89 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Nov. 29, 2004 (0800) Spillway crest elevation 1,150.00 ft.	99.424 billion gals. 103.9 % (elev. 1,152.31 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Nov. 29, 2004 (0800) Spillway crest elevation 1,440.00 ft.	30.378 billion gals. 86.9 % (elev. 1,430.40 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Nov. 29, 2004 (0800) Combined capacity at spillway level.	264.318 billion gals. 97.6 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Nov. 28, 2004 (2400) Spillway crest elevation 1,190.00 ft.	25.037 billion gals. 70.6 % (elev. 1,184.4 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 <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. 22	0	139	45	68	0	156	2,512	2,920	0	5,209	0	1.13
23	0	139	45	68	385	301	2,462	3,400	0	5,209	0	1.13
24	0	139	45	70	261	294	2,471	3,280	0	5,209	.01	1.14
25	0	139	45	70	295	298	3,023	3,870	0	5,209	.49	1.63
26	0	139	45	59	0	301	5,596	6,140	0	5,209	.27	1.90
27	0	136	45	50	0	301	5,718	6,250	0	5,209	0	1.90
28	0	105	45	42	0	301	10,407	10,900	0	5,209	.73	2.63

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.	

1. Release directed to maintain a flow at Montague of 1,820 cfs.

2. Includes conservation release of 100 cfs from Rio Reservoir and spill from Cannonsville Reser voir.

3. The excess-release quantity for the seasonal period beginning June 15, 2004 is 13,556 cfs-days. Under normal conditions, 7,856 cfs-days are to be released and 5,700 cfs-days are to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 7.

Diversions by New Jersey through the Delaware & Raritan Canal November 22 -28, 2004 averaged 82.1 mgd. The average diversion for the 30-day period ending November 28, 2004 was 83.7 mgd and the maximum diversion during the period was 89 mg on October 30 and November 2, 2004.

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Summary river data for November 29 - December 5, 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, 2004 to date
	release begin 1200	spill begin 0800	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Nov. 29	24	0	30	1,842	16	26	0	0	523
30	24	0	30	1,752	16	0	0	0	520
Dec. 1	23	0	30	1,693	16	0	0	0	517
2	23	74	30	2,369	16	0	0	0	514
3	23	564	30	2,086	16	0	0	0	511
4	23	766	30	1,807	16	0	0	0	509
5	23	783	30	1,316	16	0	0	0	506

Pepacton Reservoir (P):	Available storage Dec. 6, 2004 (0800) Spillway crest elevation 1,280.00 ft.	141.357 billion gals. 100.8 % (elev. 1,280.63 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Dec. 6, 2004 (0800) Spillway crest elevation 1,150.00 ft.	98.490 billion gals. 102.9 % (elev. 1,151.73 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Dec. 6, 2004 (0800) Spillway crest elevation 1,440.00 ft.	33.770 billion gals. 96.6 % (elev. 1,437.61 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Dec. 6, 2004 (0800) Combined capacity at spillway level.	273.617 billion gals. 101.0 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Dec. 5, 2004 (2400) Spillway crest elevation 1,190.00 ft.	26.497 billion gals. 74.7 % (elev. 1,185.2 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	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. 29	0	85	46	36	7	298	32,728	33,200	0	5,209	1.01
30	0	54	46	25	1,070	418	19,687	21,300	0	5,209	0	3.64
Dec. 1	0	36	46	25	1,159	504	16,930	18,700	0	5,209	.65	.65
2	0	37	46	25	1,159	1,567	23,966	26,800	0	5,209	.22	.87
3	0	37	46	25	1,148	1,195	16,949	19,400	0	5,209	.01	.88
4	0	36	46	25	1,235	691	13,667	15,700	0	5,209	.02	.90
5	0	36	46	25	1,107	713	11,673	13,600	0	5,209	0	.90

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.	

1. Release directed to maintain a flow at Montague of 1,820 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, 2004 is 13,556 cfs-days. Under normal conditions, 7,856 cfs-days are to be released and 5,700 cfs-days are to be used for a habitat bank per DRBC Docket No. D-77-20 CP, Revision 7.

Diversions by New Jersey through the Delaware & Raritan Canal November 29 - December 5, 2004 averaged 75.6 mgd. The average diversion for the 30-day period ending December 5, 2004 was 81.4 mgd and the maximum diversion during the period was 88 mg on November 24, 2004.