

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for September 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				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		
Sept. 1	57	0	158	0	34	307	294	205	568	
2	442	11	157	0	34	38	20	9	563	
3	368	428	399	0	34	0	0	0	557	
4	45	2,892	611	381	34	0	0	250	554	
5	45	2,332	29	1,059	34	0	0	367	552	
6	45	1,581	29	1,172	34	0	0	383	550	
7	45	1,063	29	1,053	34	0	0	383	548	

Pepacton Reservoir (P):	Available storage Sept. 8, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.486 billion gals. 100.9 % (elev. 1,280.70 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Sept. 8, 2003 (0800) Spillway crest elevation 1,150.00 ft.	98.249 billion gals. 102.7 % (elev. 1,151.58 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Sept. 8, 2003 (0800) Spillway crest elevation 1,440.00 ft.	34.350 billion gals. 98.3 % (elev. 1,438.80 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Sept. 8, 2003 (0800) Combined capacity at spillway level.	274.085 billion gals. 101.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Sept. 7, 2003 (2400) Spillway crest elevation 1,190.00 ft.	21.228 billion gals. 59.9 % (elev. 1,182.3 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.
Sept. 1	670	94	523	53	0	0	1,400	2,070	320	2,419	.26	.26
2	476	94	331	53	87	74	10,061	10,700	478	2,897	3.18	3.44
3	97	90	244	53	487	301	25,125	26,300	97	2,994	.36	3.80
4	0	88	243	53	596	518	27,002	28,500	0	2,994	.86	4.66
5	0	684	617	53	478	833	31,335	34,000	0	2,994	.02	4.68
6	0	569	945	53	485	660	18,588	21,300	0	2,994	.01	4.69
7	0	70	45	53	436	578	13,918	15,100	0	2,994	0	4.69

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

2. Includes conservation release of 100 cfs from Rio Reservoir and spill 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 September 1 - 7, 2003, averaged 96.0 mgd. The average diversion for the 30-day period ending September 7, 2003 was 93.7 mgd and the maximum diversion during the period was 98 mg on August 16 and September 4, 2003.

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Summary river data for September 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				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		
Sept. 8	60	697	29	842	34	376	0	384	550	
9	242	285	221	606	34	390	0	358	552	
10	227	77	407	376	34	437	0	374	555	
11	45	32	313	248	34	443	0	383	558	
12	45	1	215	185	34	448	0	386	560	
13	45	0	150	159	34	448	0	386	563	
14	45	0	150	154	34	444	0	387	565	

Pepacton Reservoir (P):	Available storage Sept. 15, 2003 (0800) Spillway crest elevation 1,280.00 ft.	139.601 billion gals. 99.6 % (elev. 1,279.68 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Sept. 15, 2003 (0800) Spillway crest elevation 1,150.00 ft.	96.447 billion gals. 100.8 % (elev. 1,150.46 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Sept. 15, 2003 (0800) Spillway crest elevation 1,440.00 ft.	32.514 billion gals. 93.1 % (elev. 1,434.99 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Sept. 15, 2003 (0800) Combined capacity at spillway level.	268.562 billion gals. 99.2 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Sept. 14, 2003 (2400) Spillway crest elevation 1,190.00 ft.	19.615 billion gals. 55.3 % (elev. 1,181.4 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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
Sept. 8	0	70	45	53	399	514	10,719	11,800	0	2,994	0	4.69
9	0	70	45	53	597	284	8,451	9,500	0	2,994	0	4.69
10	0	70	45	53	535	142	6,965	7,810	0	2,994	0	4.69
11	0	93	342	53	637	152	5,673	6,950	0	2,994	0	4.69
12	0	374	630	53	639	213	3,971	5,880	0	2,994	0	4.69
13	0	351	484	53	614	117	3,111	4,730	0	2,994	0	4.69
14	0	70	333	53	350	124	3,240	4,170	0	2,994	.22	4.91

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

2. Includes conservation release of 100 cfs from Rio Reservoir and spill 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 September 8 - 14, 2003, averaged 95.4 mgd. The average diversion for the 30-day period ending September 14, 2003 was 94.0 mgd and the maximum diversion during the period was 98 mg on August 16 and September 4, 2003.

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Summary river data for September 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			Average June 1, 2003 to date
	Pepacton	Cannonsville		Neversink	Pepacton	Cannonsville	Neversink	
	release begin 1200	release end 2400	spill begin 0800	release begin 1500	beginning 0800	beginning 0800	beginning 0800	
Sept. 15	113	178	213	34	205	0	128	563
16	293	305	237	34	0	0	0	558
17	320	442	153	34	0	0	0	553
18	319	445	145	34	0	0	0	548
19	58	337	55	34	20	0	285	546
20	45	187	45	34	295	0	383	547
21	45	140	38	34	291	0	384	548

Pepacton Reservoir (P):	Available storage Sept. 22, 2003 (0800) Spillway crest elevation 1,280.00 ft.	139.601 billion gals. 99.6% 140.190 billion gallons.	(elev. 1,279.68 ft.)
Cannonsville Reservoir (C):	Available storage Sept. 22, 2003 (0800) Spillway crest elevation 1,150.00 ft.	96.044 billion gals. 100.4% 95.706 billion gallons.	(elev. 1,150.21 ft.)
Neversink Reservoir (N):	Available storage Sept. 22, 2003 (0800) Spillway crest elevation 1,440.00 ft.	32.552 billion gals. 93.2% 34.941 billion gallons.	(elev. 1,435.07 ft.)
Combined contents, PCN:	Available storage Sept. 22, 2003 (0800) Combined capacity at spillway level.	268.197 billion gals. 99.0% 270.837 billion gallons.	
Lake Wallenpaupack:	Available storage Sept. 21, 2003 (2400) Spillway crest elevation 1,190.00 ft.	19.973 billion gals. 56.3% 35.451 billion gallons.	(elev. 1,181.6 ft.)

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.
Sept. 15	0	70	232	53	435	195	3,635	4,620	0	2,994	.58	5.49
16	0	70	232	53	831	266	11,048	12,500	0	2,994	.64	6.13
17	0	70	275	53	1,543	628	8,831	11,400	0	2,994	0	6.13
18	0	175	472	53	1,576	603	6,081	8,960	0	2,994	.01	6.14
19	0	453	684	53	1,556	603	5,081	8,430	0	2,994	.66	6.80
20	0	495	688	53	1,567	138	5,229	8,170	0	2,994	.19	6.99
21	0	493	521	53	1,595	71	4,107	6,840	0	2,994	0	6.99

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

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

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 September 15 - 21, 2003, averaged 92.4 mgd. The average diversion for the 30-day period ending September 21, 2003 was 93.2 mgd and the maximum diversion during the period was 98 mg on September 4, 2003.

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.

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 June 30 - July 6, 2003, averaged 95.1 mgd. The average diversion for the 30-day period ending July 6, 2003 was 87.4 mgd and the maximum diversion during the period was 96 mg on July 3, 2003.

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Summary river data for September 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	
Sept. 22	45	0	140	86	34	0	297	0	385	549
23	45	118	140	417	34	0	295	0	386	550
24	45	490	140	745	34	0	298	0	384	551
25	45	400	88	729	34	0	278	0	385	552
26	45	414	31	676	34	0	0	0	64	548
27	45	544	31	598	34	0	0	0	0	544
28	45	1,697	31	751	34	174	0	0	0	539

Pepacton Reservoir (P):	Available storage Sept. 29, 2003 (0800) Spillway crest elevation 1,280.00 ft.	142.249 billion gals. 101.5 % (elev. 1,281.11 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Sept. 29, 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 Sept. 29, 2003 (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 Sept. 29, 2003 (0800) Combined capacity at spillway level.	275.566 billion gals. 101.7 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Sept. 28, 2003 (2400) Spillway crest elevation 1,190.00 ft.	19.615 billion gals. 55.3 % (elev. 1,181.4 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	Excess Release Credits ³		Precipitation (inches)	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir			Daily	Cumul.	Daily	Cumul.
Sept. 22	0	90	289	53	1,567	209	3,582	5,790	0	2,994	0	6.99
23	0	70	217	53	1,201	85	10,074	11,700	0	2,994	1.93	8.92
24	0	70	217	53	1,436	170	24,254	26,200	0	2,994	.43	9.35
25	0	70	217	53	1,432	401	15,227	17,400	0	2,994	0	9.35
26	0	70	217	53	1,434	468	11,358	13,600	0	2,994	.06	9.41
27	0	70	136	53	1,432	362	9,147	11,200	0	2,994	.02	9.43
28	0	70	48	53	85	333	11,511	12,100	0	2,994	.86	10.29

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 September 22 - 28, 2003, averaged 91.1 mgd. The average diversion for the 30-day period ending September 28, 2003 was 93.8 mgd and the maximum diversion during the period was 98 mg on September 4 and 26, 2003.

Date	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Excess Release Credits ³	Precipitation	
	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir				(inches)	
									Daily Cumul.	Daily	Cumul.

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Summary river data for September 29 - October 5, 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	
Sept. 29	45	1,673	31	895	34	379	0	0	252	537
30	42	1,315	30	850	28	93	0	0	287	535
Oct. 1	29	968	28	690	16	41	3	0	284	533
2	29	772	29	590	16	8	0	261	253	533
3	29	700	29	427	16	0	0	261	195	532
4	29	756	29	410	16	59	0	296	158	531
5	29	810	29	436	16	42	0	296	379	532

Pepacton Reservoir (P):	Available storage Oct. 6, 2003 (0800) Spillway crest elevation 1,280.00 ft.	141.338 billion gals. 100.8 % (elev. 1,280.62 ft.) 140.190 billion gallons.
Cannonsville Reservoir (C):	Available storage Oct. 6, 2003 (0800) Spillway crest elevation 1,150.00 ft.	97.251 billion gals. 101.6 % (elev. 1,150.96 ft.) 95.706 billion gallons.
Neversink Reservoir (N):	Available storage Oct. 6, 2003 (0800) Spillway crest elevation 1,440.00 ft.	34.931 billion gals. 100.0 % (elev. 1,439.98 ft.) 34.941 billion gallons.
Combined contents, PCN:	Available storage Oct. 6, 2003 (0800) Combined capacity at spillway level.	273.520 billion gals. 101.0 % 270.837 billion gallons.
Lake Wallenpaupack:	Available storage Oct. 5, 2003 (2400) Spillway crest elevation 1,190.00 ft.	21.586 billion gals. 60.9 % (elev. 1,182.5 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 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.
	Sept. 29	0	70	48	53	0	816	17,613	18,600	0	2,994	.08
30	0	70	48	53	0	723	14,406	15,300	0	2,994	.02	10.39
Oct. 1	0	70	48	53	0	915	11,314	12,400	0	2,994	.02	.02
2	0	70	46	43	0	922	9,519	10,600	0	2,994	.01	.03
3	0	65	43	25	0	826	8,281	9,240	0	2,994	.06	.09
4	0	45	45	25	0	418	7,187	7,720	0	2,994	.08	.17
5	0	45	45	25	0	202	7,813	8,130	0	2,994	.43	.60

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 September 29 - October 5, 2003, averaged 93.0 mgd. The average diversion for the 30-day period ending October 5, 2003 was 93.2 mgd and the maximum diversion during the period was 98 mg on September 26, 2003.

	Releases from N.Y.C. Reservoirs				Power releases		Computed uncon- trolled ²	Total Discharge	Excess Release Credits ³	Precipitation	
Date	Directed release ¹	Pepacton	Cannons- ville	Never- sink	Wallen- paupack	Rio Reservoir				(inches)	
									Daily Cumul.	Daily	Cumul.