

OFFICE OF THE DELAWARE RIVER MASTER, MILFORD, PA.

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

Summary river data for October 6 - 12, 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<br>June 1, 2003<br>to date |
|--------|-----------------------|---------------------|---------------------|---------------------|--------------------|--|-------------------|-------------------|-----|------------------------------------|
|        | Pepacton              |                     | Cannonsville        |                     | Neversink          | Pepacton                                 | Cannonsville      | Neversink         |     |                                    |
|        | release<br>begin 1200 | spill<br>begin 0800 | release<br>end 2400 | spill<br>begin 0800 | release begin 1500 | beginning<br>0800                        | beginning<br>0800 | beginning<br>0800 |     |                                    |
| Oct. 6 | 29                    | 648                 | 29                  | 301                 | 16                 | 0  | 296               | 382               | 534 |                                    |
| 7      | 29                    | 422                 | 29                  | 257                 | 16                 | 293                                      | 1                 | 253               | 534 |                                    |
| 8      | 29                    | 281                 | 29                  | 290                 | 16                 | 286                                      | 0                 | 235               | 534 |                                    |
| 9      | 29                    | 204                 | 29                  | 290                 | 16                 | 317                                      | 0                 | 383               | 535 |                                    |
| 10     | 29                    | 150                 | 29                  | 396                 | 16                 | 311                                      | 0                 | 383               | 536 |                                    |
| 11     | 29                    | 95                  | 29                  | 355                 | 16                 | 294                                      | 0                 | 384               | 537 |                                    |
| 12     | 29                    | 52                  | 29                  | 322                 | 16                 | 299                                      | 0                 | 385               | 538 |                                    |

|                             |   |  |
|-----------------------------|---|--|
| Pepacton Reservoir (P):     | Available storage Oct. 13, 2003 (0800)<br>Spillway crest elevation 1,280.00 ft. | 140.375 billion gals. 100.1 % (elev. 1,280.10 ft.)<br>140.190 billion gallons. |
| Cannonsville Reservoir (C): | Available storage Oct. 13, 2003 (0800)<br>Spillway crest elevation 1,150.00 ft. | 96.945 billion gals. 101.3 % (elev. 1,150.77 ft.)<br>95.706 billion gallons.   |
| Neversink Reservoir (N):    | Available storage Oct. 13, 2003 (0800)<br>Spillway crest elevation 1,440.00 ft. | 33.746 billion gals. 96.6 % (elev. 1,437.56 ft.)<br>34.941 billion gallons.    |
| Combined contents, PCN:     | Available storage Oct. 13, 2003 (0800)<br>Combined capacity at spillway level.  | 271.066 billion gals. 100.1 %<br>270.837 billion gallons.                      |
| Lake Wallenpaupack:         | Available storage Oct. 12, 2003 (2400)<br>Spillway crest elevation 1,190.00 ft. | 22.665 billion gals. 63.9 % (elev. 1,183.1 ft.)<br>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<br>uncon-<br>trolled <sup>2</sup> | Total<br>Discharge | Excess<br>Release<br>Credits <sup>3</sup> |        | Precipitation<br>(inches) |        |
|--------|----------------------------------|----------|-------------------|----------------|--------------------|------------------|--|--------------------|---|--------|---------------------------|--------|
|        | Directed<br>release <sup>1</sup> | Pepacton | Cannons-<br>ville | Never-<br>sink | Wallen-<br>paupack | Rio<br>Reservoir |  |                    | Daily                                     | Cumul. | Daily                     | Cumul. |
|        |                                  |          |                   |                |                    |                  |  |                    |   |        |                           |        |
| Oct. 6 | 0                                | 45       | 45                | 25             | 0                  | 238              | 8,347                                      | 8,700              | 0   | 2,994  | 0                         | .60    |
| 7      | 0                                | 45       | 45                | 25             | 0                  | 209              | 7,026                                      | 7,350              | 0   | 2,994  | 0                         | .60    |
| 8      | 0                                | 45       | 45                | 25             | 0                  | 482              | 6,213                                      | 6,810              | 0   | 2,994  | 0                         | .60    |
| 9      | 0                                | 45       | 45                | 25             | 0                  | 426              | 5,549                                      | 6,090              | 0   | 2,994  | 0                         | .60    |
| 10     | 0                                | 45       | 45                | 25             | 0                  | 500              | 4,995                                      | 5,610              | 0   | 2,994  | 0                         | .60    |
| 11     | 0                                | 45       | 45                | 25             | 0                  | 454              | 4,631                                      | 5,200              | 0   | 2,994  | 0                         | .60    |
| 12     | 0                                | 45       | 45                | 25             | 12                 | 426              | 4,207                                      | 4,760              | 0   | 2,994  | 0                         | .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 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 October 6 - 12, 2003, averaged 96.0 mgd. The average diversion for the 30-day period ending October 12, 2003 was 93.4 mgd and the maximum diversion during the period was 98 mg on September 26 and October 10, 2003.

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Summary river data for October 13 - 19, 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<br>June 1, 2003<br>to date |
|---------|-----------------------|---------------------|---------------------|---------------------|--------------------|--|-------------------|-------------------|-----|------------------------------------|
|         | Pepacton              |                     | Cannonsville        |                     | Neversink          | Pepacton                                 | Cannonsville      | Neversink         |     |                                    |
|         | release<br>begin 1200 | spill<br>begin 0800 | release<br>end 2400 | spill<br>begin 0800 | release begin 1500 | beginning<br>0800                        | beginning<br>0800 | beginning<br>0800 |     |                                    |
| Oct. 13 | 29                    | 33                  | 29                  | 296                 | 16                 | 297                                      | 0                 | 385               | 540 |                                    |
| 14      | 29                    | 36                  | 29                  | 283                 | 16                 | 302                                      | 0                 | 386               | 541 |                                    |
| 15      | 29                    | 167                 | 29                  | 481                 | 16                 | 301                                      | 0                 | 385               | 542 |                                    |
| 16      | 29                    | 203                 | 29                  | 585                 | 16                 | 300                                      | 0                 | 385               | 543 |                                    |
| 17      | 29                    | 171                 | 29                  | 567                 | 16                 | 293                                      | 0                 | 386               | 544 |                                    |
| 18      | 29                    | 137                 | 29                  | 527                 | 16                 | 297                                      | 0                 | 386               | 545 |                                    |
| 19      | 29                    | 146                 | 29                  | 531                 | 16                 | 296                                      | 0                 | 387               | 546 |                                    |

|                             |   |  |
|-----------------------------|---|--|
| Pepacton Reservoir (P):     | Available storage Oct. 20, 2003 (0800)<br>Spillway crest elevation 1,280.00 ft. | 140.597 billion gals. 100.3 % (elev. 1,280.22 ft.)<br>140.190 billion gallons. |
| Cannonsville Reservoir (C): | Available storage Oct. 20, 2003 (0800)<br>Spillway crest elevation 1,150.00 ft. | 97.444 billion gals. 101.8 % (elev. 1,151.08 ft.)<br>95.706 billion gallons.   |
| Neversink Reservoir (N):    | Available storage Oct. 20, 2003 (0800)<br>Spillway crest elevation 1,440.00 ft. | 32.529 billion gals. 93.1 % (elev. 1,435.02 ft.)<br>34.941 billion gallons.    |
| Combined contents, PCN:     | Available storage Oct. 20, 2003 (0800)<br>Combined capacity at spillway level.  | 270.570 billion gals. 99.9 %<br>270.837 billion gallons.                       |
| Lake Wallenpaupack:         | Available storage Oct. 19, 2003 (2400)<br>Spillway crest elevation 1,190.00 ft. | 23.395 billion gals. 66.0 % (elev. 1,183.5 ft.)<br>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<br>uncon-<br>trolled <sup>2</sup> | Total<br>Discharge | Excess<br>Release<br>Credits <sup>3</sup> |        | Precipitation<br>(inches) |        |
|---------|----------------------------------|----------|-------------------|----------------|--------------------|------------------|--|--------------------|---|--------|---------------------------|--------|
|         | Directed<br>release <sup>1</sup> | Pepacton | Cannons-<br>ville | Never-<br>sink | Wallen-<br>paupack | Rio<br>Reservoir |  |                    | Daily                                     | Cumul. | Daily                     | Cumul. |
|         |                                  |          |                   |                |                    |                  |  |                    |   |        |                           |        |
| Oct. 13 | 0                                | 45       | 45                | 25             | 125                | 355              | 3,855                                      | 4,450              | 0   | 2,994  | 0                         | .60    |
| 14      | 0                                | 45       | 45                | 25             | 659                | 135              | 3,541                                      | 4,450              | 0   | 2,994  | 0                         | .60    |
| 15      | 0                                | 45       | 45                | 25             | 597                | 213              | 6,475                                      | 7,400              | 0   | 2,994  | 1.31                      | 1.91   |
| 16      | 0                                | 45       | 45                | 25             | 525                | 468              | 10,392                                     | 11,500             | 0   | 2,994  | .04                       | 1.95   |
| 17      | 0                                | 45       | 45                | 25             | 506                | 379              | 8,300                                      | 9,300              | 0   | 2,994  | 0                         | 1.95   |
| 18      | 0                                | 45       | 45                | 25             | 421                | 284              | 6,950                                      | 7,770              | 0   | 2,994  | .03                       | 1.98   |
| 19      | 0                                | 45       | 45                | 25             | 0                  | 287              | 6,288                                      | 6,690              | 0   | 2,994  | .08                       | 2.06   |

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 October 13 - 19, 2003, averaged 91.9 mgd. The average diversion for the 30-day period ending October 19, 2003 was 93.2 mgd and the maximum diversion during the period was 98 mgd on September 26 and October 10, 2003.

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Summary river data for October 20 - 26, 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<br>June 1, 2003<br>to date |
|---------|-----------------------|---------------------|---------------------|---------------------|--------------------|--|-------------------|-------------------|-----|------------------------------------|
|         | Pepacton              |                     | Cannonsville        |                     | Neversink          | Pepacton                                 | Cannonsville      | Neversink         |     |                                    |
|         | release<br>begin 1200 | spill<br>begin 0800 | release<br>end 2400 | spill<br>begin 0800 | release begin 1500 | beginning<br>0800                        | beginning<br>0800 | beginning<br>0800 |     |                                    |
| Oct. 20 | 29                    | 150                 | 29                  | 495                 | 16                 | 297                                      | 0                 | 387               | 547 |                                    |
| 21      | 29                    | 123                 | 29                  | 374                 | 16                 | 303                                      | 0                 | 387               | 548 |                                    |
| 22      | 29                    | 103                 | 29                  | 341                 | 16                 | 303                                      | 0                 | 387               | 549 |                                    |
| 23      | 29                    | 94                  | 29                  | 395                 | 16                 | 301                                      | 0                 | 387               | 550 |                                    |
| 24      | 29                    | 84                  | 29                  | 351                 | 16                 | 292                                      | 0                 | 388               | 550 |                                    |
| 25      | 29                    | 62                  | 29                  | 287                 | 16                 | 291                                      | 0                 | 389               | 551 |                                    |
| 26      | 29                    | 110                 | 29                  | 261                 | 16                 | 296                                      | 0                 | 390               | 552 |                                    |

|                             |   |  |
|-----------------------------|---|--|
| Pepacton Reservoir (P):     | Available storage Oct. 27, 2003 (0800)<br>Spillway crest elevation 1,280.00 ft. | 140.764 billion gals. 100.4 % (elev. 1,280.31 ft.)<br>140.190 billion gallons. |
| Cannonsville Reservoir (C): | Available storage Oct. 27, 2003 (0800)<br>Spillway crest elevation 1,150.00 ft. | 96.864 billion gals. 101.2 % (elev. 1,150.72 ft.)<br>95.706 billion gallons.   |
| Neversink Reservoir (N):    | Available storage Oct. 27, 2003 (0800)<br>Spillway crest elevation 1,440.00 ft. | 30.923 billion gals. 88.5 % (elev. 1,431.59 ft.)<br>34.941 billion gallons.    |
| Combined contents, PCN:     | Available storage Oct. 27, 2003 (0800)<br>Combined capacity at spillway level.  | 268.551 billion gals. 99.2 %<br>270.837 billion gallons.                       |
| Lake Wallenpaupack:         | Available storage Oct. 26, 2003 (2400)<br>Spillway crest elevation 1,190.00 ft. | 22.847 billion gals. 64.4 % (elev. 1,183.2 ft.)<br>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<br>uncon-<br>trolled <sup>2</sup> | Total<br>Discharge | Excess<br>Release<br>Credits <sup>3</sup> |        | Precipitation<br>(inches) |        |
|---------|----------------------------------|----------|-------------------|----------------|--------------------|------------------|--|--------------------|---|--------|---------------------------|--------|
|         | Directed<br>release <sup>1</sup> | Pepacton | Cannons-<br>ville | Never-<br>sink | Wallen-<br>paupack | Rio<br>Reservoir |  |                    | Daily                                     | Cumul. | Daily                     | Cumul. |
|         |                                  |          |                   |                |                    |                  |  |                    |   |        |                           |        |
| Oct. 20 | 0                                | 45       | 45                | 25             | 69                 | 284              | 6,372                                      | 6,840              | 0   | 2,994  | .14                       | 2.20   |
| 21      | 0                                | 45       | 45                | 25             | 487                | 280              | 6,028                                      | 6,910              | 0   | 2,994  | 0                         | 2.20   |
| 22      | 0                                | 45       | 45                | 25             | 512                | 411              | 5,472                                      | 6,510              | 0   | 2,994  | .03                       | 2.23   |
| 23      | 0                                | 45       | 45                | 25             | 506                | 408              | 5,151                                      | 6,180              | 0   | 2,994  | 0                         | 2.23   |
| 24      | 0                                | 45       | 45                | 25             | 468                | 440              | 4,767                                      | 5,790              | 0   | 2,994  | .01                       | 2.24   |
| 25      | 0                                | 45       | 45                | 25             | 488                | 323              | 4,324                                      | 5,250              | 0   | 2,994  | .01                       | 2.25   |
| 26      | 0                                | 45       | 45                | 25             | 0                  | 230              | 4,155                                      | 4,500              | 0   | 2,994  | 0                         | 2.25   |

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 October 20 - 26, 2003, averaged 92.6 mgd. The average diversion for the 30-day period ending October 26, 2003 was 92.8 mgd and the maximum diversion during the period was 98 mg on October 10, 2003.

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Summary river data for October 27 - November 2, 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<br>June 1, 2003<br>to date |
|         | release<br>begin 1200 | spill<br>begin 0800 | release<br>end 2400 | spill<br>begin 0800 | release<br>begin 1500 | spill<br>begin 0800 | beginning<br>0800                        | beginning<br>0800 | beginning<br>0800 |                                    |
| Oct. 27 | 29                    | 1,721               | 29                  | 587                 | 16                    | 0                   | 62                                       | 0                 | 116               | 550                                |
| 28      | 29                    | 2,962               | 29                  | 1,285               | 16                    | 0                   | 0  | 0                 | 0                 | 546                                |
| 29      | 29                    | 5,536               | 29                  | 2,417               | 16                    | 778                 | 0  | 0                 | 0                 | 542                                |
| 30      | 29                    | 3,819               | 29                  | 3,310               | 16                    | 865                 | 0  | 0                 | 0                 | 539                                |
| 31      | 29                    | 2,304               | 29                  | 2,651               | 16                    | 580                 | 0  | 0                 | 0                 | 535                                |
| Nov. 1  | 29                    | 1,629               | 29                  | 2,044               | 16                    | 450                 | 0  | 0                 | 0                 | 532                                |
| 2       | 29                    | 1,212               | 29                  | 1,581               | 16                    | 385                 | 0  | 0                 | 0                 | 528                                |

|                             |  |  |
|-----------------------------|--|--|
| Pepacton Reservoir (P):     | Available storage Nov. 3, 2003 (0800)<br>Spillway crest elevation 1,280.00 ft. | 141.653 billion gals. 101.0 % (elev. 1,280.79 ft.)<br>140.190 billion gallons. |
| Cannonsville Reservoir (C): | Available storage Nov. 3, 2003 (0800)<br>Spillway crest elevation 1,150.00 ft. | 98.941 billion gals. 103.4 % (elev. 1,152.01 ft.)<br>95.706 billion gallons.   |
| Neversink Reservoir (N):    | Available storage Nov. 3, 2003 (0800)<br>Spillway crest elevation 1,440.00 ft. | 35.174 billion gals. 100.7 % (elev. 1,440.47 ft.)<br>34.941 billion gallons.   |
| Combined contents, PCN:     | Available storage Nov. 3, 2003 (0800)<br>Combined capacity at spillway level.  | 275.768 billion gals. 101.8 %<br>270.837 billion gallons.                      |
| Lake Wallenpaupack:         | Available storage Nov. 2, 2003 (2400)<br>Spillway crest elevation 1,190.00 ft. | 27.045 billion gals. 76.3 % (elev. 1,185.5 ft.)<br>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<br>uncon-<br>trolled <sup>2</sup> | Total<br>Discharge | Excess<br>Release<br>Credits <sup>3</sup> |        | Precipitation<br>(inches) |        |
|--------|----------------------------------|----------|-------------------|----------------|--------------------|------------------|--|--------------------|---|--------|---------------------------|--------|
|        | Directed<br>release <sup>1</sup> | Pepacton | Cannons-<br>ville | Never-<br>sink | Wallen-<br>paupack | Rio<br>Reservoir |  |                    | Daily                                     | Cumul. | Daily                     | Cumul. |
|        | Oct. 27                          | 0        | 45                | 45             | 25                 | 79               | 309  | 6,437              | 6,940                                     | 0      | 2,994                     | .77    |
| 28     | 0                                | 45       | 45                | 25             | 712                | 848              | 26,825                                     | 28,500             | 0   | 2,994  | 1.28                      | 4.30   |
| 29     | 0                                | 45       | 45                | 25             | 803                | 1,511            | 33,571                                     | 36,000             | 0   | 2,994  | .97                       | 5.27   |
| 30     | 0                                | 45       | 45                | 25             | 768                | 2,138            | 46,879                                     | 49,900             | 0   | 2,994  | .35                       | 5.62   |
| 31     | 0                                | 45       | 45                | 25             | 656                | 1,461            | 32,068                                     | 34,300             | 0   | 2,994  | .01                       | 5.63   |
| Nov. 1 | 0                                | 45       | 45                | 25             | 584                | 1,117            | 22,384                                     | 24,200             | 0   | 2,994  | 0                         | 0      |
| 2      | 0                                | 45       | 45                | 25             | 0                  | 809              | 17,476                                     | 18,400             | 0   | 2,994  | 0                         | 0      |

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 October 27 - November 2, 2003, averaged 83.0 mgd. The average diversion for the 30-day period ending November 2, 2003 was 91.1 mgd and the maximum diversion during the period was 98 mg on October 10, 2003.