## Delaware River Flow and Storage Data - November 2011 Summary

| DAY | Delaware @ Montague (CFS) | | Lehigh River @ | | | Delaware @ Trenton (CFS) | | Schuylkill River @ | | Max Temp Degrees C | [a] Salt Front River Mile | New York City Delaware River Basin Storage | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:00 AM | MEAN | Lehighton FLOW (CFS) | Bethl FLOW (CFS) | Glendon MIN DO (MG/L) | 8:00 AM | MEAN | Philadelphia (CFS) | Pottstown (CFS) | Vincent Dam | | BG | %CAP |
| 1-Nov | 6,930 | 7,130 | 1,720 | 3,980 | | 19,600 | 19,800 | 5,660 | 3,740 | | 63 | 257.634 | 95.1% |
| 2-Nov | 6,900 | 7,130 | 1,810 | 4,010 | | 19,600 | 19,400 | 5,460 | 3,730 | | 63 | 257.429 | 95.0% |
| 3-Nov | 6,610 | 6,840 | 1,810 | 4,210 | | 18,700 | 18,600 | 4,650 | 3,380 | | 64 | 256.994 | 94.9% |
| 4-Nov | 6,550 | 6,720 | 1,510 | 3,620 | | 17,900 | 17,600 | 4,360 | 3,460 | | 64 | 256.390 | 94.7% |
| 5-Nov | 6,270 | 6,240 | 1,460 | 3,490 | | 16,800 | 16,700 | 4,120 | 3,210 | | 64 | 255.957 | 94.5% |
| 6-Nov | 5,330 | 5,530 | 1,400 | 3,270 | | 15,800 | 15,800 | 3,740 | 2,960 | | 65 | 255.487 | 94.3% |
| 7-Nov | 5,070 | 5,530 | 1,320 | 3,140 | | 14,200 | 14,200 | 3,510 | 2,740 | | 65 | 254.896 | 94.1% |
| 8-Nov | 5,570 | 5,660 | 1,170 | 2,810 | | 13,600 | 13,500 | 3,190 | 2,310 | | 65 | 254.300 | 93.9% |
| 9-Nov | 5,360 | 5,470 | 1,250 | 2,830 | | 13,600 | 13,300 | 2,820 | 2,130 | | 65 | 253.640 | 93.7% |
| 10-Nov | 5,070 | 5,730 | 1,140 | 2,700 | | 13,400 | 13,000 | 2,660 | 2,050 | | 66 | 252.964 | 93.4% |
| 11-Nov | 5,070 | 5,210 | 1,090 | 2,630 | | 12,600 | 12,800 | 2,610 | 2,110 | | 66 | 252.388 | 93.2% |
| 12-Nov | 5,230 | 5,200 | 1,050 | 2,460 | | 12,600 | 12,300 | 2,610 | 2,010 | | 67 | 251.892 | 93.0% |
| 13-Nov | 4,270 | 4,630 | 1,080 | 2,410 | | 12,300 | 11,800 | 2,420 | 1,920 | | 67 | 251.333 | 92.8% |
| 14-Nov | 4,080 | 4,440 | 1,060 | 2,350 | | 11,500 | 11,100 | 2,320 | 1,850 | | 66 | 250.677 | 92.6% |
| 15-Nov | 4,540 | 4,630 | 1,040 | 2,310 | | 11,000 | 10,700 | 2,180 | 1,770 | | 67 | 250.175 | 92.4% |
| 16-Nov | 4,820 | 5,030 | 1,080 | 2,480 | | 11,200 | 11,000 | 2,370 | 1,930 | | 67 | 249.702 | 92.2% |
| 17-Nov | 5,470 | 5,560 | 1,300 | 3,320 | | 14,700 | 14,700 | 4,700 | 2,810 | | 67 | 249.264 | 92.0% |
| 18-Nov | 6,040 | 5,740 | 1,330 | 3,020 | | 15,200 | 14,800 | 3,750 | 2,380 | | 67 | 248.822 | 91.9% |
| 19-Nov | 5,440 | 5,150 | 1,120 | 2,550 | | 14,400 | 13,800 | 2,840 | 1,950 | | 67 | 248.329 | 91.7% |
| 20-Nov | 4,520 | 4,590 | 1,090 | 2,410 | | 12,800 | 12,500 | 2,480 | 1,870 | | 68 | 247.783 | 91.5% |
| 21-Nov | 4,420 | 4,840 | 1,050 | 2,410 | | 11,600 | 11,500 | 2,460 | 1,920 | | 68 | 247.233 | 91.3% |
| 22-Nov | 4,990 | 5,130 | 1,010 | 2,800 | | 11,500 | 11,800 | 3,210 | 2,710 | | 68 | 246.650 | 91.1% |
| 23-Nov | 7,140 | 13,200 | 3,480 | 12,400 | | 33,500 | 38,900 | 33,200 | 13,100 | | 68 | 247.076 | 91.2% |
| 24-Nov | 21,100 | 20,000 | 4,110 | 11,000 | | 44,700 | 48,100 | 21,200 | 12,400 | | 68 | 249.408 | 92.1% |
| 25-Nov | 13,500 | 13,400 | 3,490 | 7,990 | | 42,800 | 41,100 | 11,800 | 7,790 | | 68 | 250.689 | 92.6% |
| 26-Nov | 10,800 | 10,800 | 1,960 | 6,000 | | 31,800 | 31,000 | 8,230 | 6,100 | | 67 | 251.523 | 92.9% |
| 27-Nov | 9,720 | 9,520 | 1,860 | 5,070 | | 25,700 | 25,300 | 6,660 | 5,190 | | 66 | 252.154 | 93.1% |
| 28-Nov | 9,310 | 9,520 | 2,020 | 4,930 | | 22,800 | 22,600 | 5,780 | 4,720 | | 65 | 252.449 | 93.2% |
| 29-Nov | 8,650 | 9,120 | 2,190 | 5,000 | | 21,700 | 22,100 | 5,790 | 5,100 | | 62 | 252.571 | 93.3% |
| 30-Nov | 13,300 | 16,300 | 3,820 | 7,890 | | 28,300 | 29,900 | 11,800 | 7,030 | | 57 | 254.101 | 93.8% |
| | | | | | | | | | | | | | |
| **Obs. November Avg.** | 7,069 | 7,466 | 1,694 | 4,183 | | 18,863 | 18,990 | 5,953 | 3,879 | | | | |
| **Normal** | | **4,336** | **1,282** | **2,301** | | | **10,440** | **2,363** | **1,745** | | **80** | | |
| **% of Normal** | | 172.2% | 132.1% | 181.8% | | | 181.9% | 251.9% | 222.3% | | | | |

**TODAY'S RESERVOIR OBSERVATIONS: November 30**

**New York City 24-hr, as of 8 am:**

| | Precip (IN.) | Usable (BG) | Storage (%) | Draft (MG) | Directed Rel (MG) |
|---|---|---|---|---|---|
| **Neversink** | 0.97 | 32.948 | 94.3% | 0 | 0 |
| **Pepacton** | 1.07 | 135.004 | 96.3% | 200 | 0 |
| **Cannonsville** | 1.20 | 86.149 | 90.0% | 478 | 0 |
| **Rondout** | 0.88 | 48.395 | 97.5% | 833 | 0 |

| | | |
|---|---|---|
| **NYC Daily Storage (BG)=** | **254.101** | 93.8% |
| **NYC Daily Storage Median (BG)=** | **166.093** | 61.3% |
| **BG Above Daily Storage Median =** | 88.008 | 52.99% |
| **BG Above Drought Watch =** | 144.101 | |
| **BG Above Drought Warning =** | 160.101 | |
| **BG Above Drought =** | 184.101 | |
| **BG Above One Year Ago =** | 24.704 | |

**Lower Delaware Basin:**

| | Vol. (BG) | [d] %Capacity |
|---|---|---|
| **Blue Marsh** | 4.35 | 101.6 |
| **Beltzville** | 14.04 | 101.0 |

**TODAY'S DIRECTED RELEASES FROM BASIN RESERVOIRS (CFS): November 30**

**Blue Marsh** 0 **Beltzville** 0 **[b]F.E. Walter** 0 **Merrill Cr.** 0 **Lake Wallenpaupack** 0

**DATA SOURCES:**

Storage data provided by New York City Department of Environmental Protection, Bureau of Water Supply.

Chloride data provided by U.S. Geological Survey and Kimberly Clark Corporation.

Lower Basin reservoir storage data provided by Philadelphia District Corps of Engineers.

**NOTES:**

[a] Based on the location of the 7-day average chloride concentration of 250 milligrams/liter (mg/L).

[b] Releases from F.E. Walter are requested from the U.S. Army Corps of Engineers and are made from the reservoir's temporary drought storage.

[c] Directed releases from Lake Wallenpaupack are estimated values supplied by PPL.

[d] Percent of usable storage available.

BG=Billion Gallons; CFS=Cubic Feet per Second; DO= Dissolved Oxygen; MG= Million Gallons;
ESTIMATES OF THE SALT FRONT ARE BASED ON PROVISIONAL DATA AND ARE SUBJECT TO CHANGE.

1. During cold weather, ice effects on stage and discharge determinations at some stream-gaging stations are likely. Flow values reported on this report may be significantly higher or lower than actual streamflow. Revisions will be made as needed when adjusted data becomes available.
2. The salt front river mile location will be updated as chloride data is received.
3. Normal flow values represent the median of monthly means for 1971-2000, except for the Lehigh River at Lehighton. For Lehighton, normal flow values represent the median of monthly means for 1983-2000 (the entire period of record for the station) .
4. Reporting of the minimum dissolved oxygen for the Lehigh River at Glendon and the maximum temperature at the Schuylkill River at Vincent Dam has been discontinued. Reporting will begin again in June 2012.