

## Delaware River Flow and Storage Data -- November 1999 Summary

| DAY  | Delaware @<br>Montague (CFS) |               | Lehigh River @<br>Bethl Easton<br>(CFS) MIN DO |                 | Delaware @<br>Trenton (CFS) |                                    | Schuylkill River @ |                                   |   |           | * Salt<br>Front<br>River<br>Mile | New York City<br>Delaware River Basin<br>Storage |         |       |
|--|------------------------------|---------------|--|-----------------|-----------------------------|------------------------------------|--------------------|-----------------------------------|---|-----------|----------------------------------|--|---------|-------|
|  | 8:00 AM                      | MEAN          |  |                 | 8:00 AM                     | MEAN                               | Phila<br>(CFS)     | Potts<br>(CFS)                    | Vincent<br>Dam                            | Pottstown |                                  | Max Temp EC                                      | BG      | %CAP  |
| 1-Nov  | 1,960                        | 2,060         | 1,200  |                 | 5,480                       | 5,230                              | 1,300              | 873                               |   |           |                                  | 72   | 165.217 | 61.0% |
| 2-Nov  | 2,610                        | 2,770         | 1,450  |                 | 4,790                       | 4,950                              | 1,870              | 986                               |   |           |                                  | 72   | 165.175 | 61.0% |
| 3-Nov  | 3,780                        | 3,900         | 3,730  |                 | 6,670                       | 7,940                              | 4,810              | 2,480                             |   |           |                                  | 72   | 165.921 | 61.3% |
| 4-Nov  | 4,760                        | 5,180         | 4,130  |                 | 11,800                      | 11,700                             | 3,680              | 2,070                             |   |           |                                  | 71   | 167.530 | 61.9% |
| 5-Nov  | 4,960                        | 4,650         | 3,250  |                 | 12,200                      | 11,900                             | 2,670              | 1,680                             |   |           |                                  | 71   | 167.927 | 62.0% |
| 6-Nov  | 4,320                        | 3,900         | 2,610  |                 | 11,600                      | 11,100                             | 2,200              | 1,430                             |   |           |                                  | 71   | 168.429 | 62.2% |
| 7-Nov  | 3,170                        | 3,150         | 2,430  |                 | 9,750                       | 9,510                              | 1,960              | 1,320                             |   |           |                                  | 71   | 168.707 | 62.3% |
| 8-Nov  | 2,950                        | 2,920         | 2,290  |                 | 8,450                       | 8,260                              | 1,880              | 1,240                             |   |           |                                  | 71   | 168.628 | 62.3% |
| 9-Nov  | 2,730                        | 2,740         | 1,850  |                 | 7,730                       | 7,590                              | 1,760              | 1,180                             |   |           |                                  | 71   | 169.067 | 62.4% |
| 10-Nov   | 2,570                        | 2,560         | 1,720  |                 | 6,860                       | 6,860                              | 1,650              | 1,090                             |   |           |                                  | 70   | 168.963 | 62.4% |
| 11-Nov   | 2,460                        | 2,460         | 1,680  |                 | 6,530                       | 6,470                              | 1,550              | 1,070                             |   |           |                                  | 70   | 169.190 | 62.5% |
| 12-Nov   | 2,380                        | 2,380         | 1,610  |                 | 6,260                       | 6,230                              | 1,430              | 1,020                             |   |           |                                  | 71   | 169.123 | 62.4% |
| 13-Nov   | 2,330                        | 2,350         | 1,580  |                 | 5,910                       | 5,890                              | 1,360              | 964                               |   |           |                                  | 71   | 169.304 | 62.5% |
| 14-Nov   | 2,200                        | 2,295         | 1,540  |                 | 5,780                       | 5,715                              | 1,350              | 947                               |   |           |                                  | 71   | 169.278 | 62.5% |
| 15-Nov   | 2,110                        | 2,240         | 1,510  |                 | 5,610                       | 5,540                              | 1,320              | 920                               |   |           |                                  | 72   | 169.261 | 62.5% |
| 16-Nov   | 2,040                        | 2,080         | 1,470  |                 | 5,310                       | 5,280                              | 1,310              | 864                               |   |           |                                  | 72   | 169.187 | 62.5% |
| 17-Nov   | 1,940                        | 1,940         | 1,400  |                 | 5,270                       | 5,280                              | 1,260              | 848                               |   |           |                                  | 72   | 169.222 | 62.5% |
| 18-Nov   | 1,870                        | 1,880         | 1,350  |                 | 4,950                       | 4,910                              | 1,210              | 815                               |   |           |                                  | 72   | 168.836 | 62.3% |
| 19-Nov   | 1,790                        | 1,800         | 1,260  |                 | 4,710                       | 4,680                              | 1,140              | 809                               |   |           |                                  | 72   | 168.864 | 62.3% |
| 20-Nov   | 1,760                        | 1,750         | 1,280  |                 | 4,560                       | 4,530                              | 1,160              | 802                               |   |           |                                  | 72   | 168.742 | 62.3% |
| 21-Nov   | 1,740                        | 1,800         | 1,300  |                 | 4,450                       | 4,480                              | 1,180              | 826                               |   |           |                                  | 73   | 168.542 | 62.2% |
| 22-Nov   | 1,740                        | 1,770         | 1,270  |                 | 4,450                       | 4,560                              | 1,220              | 820                               |   |           |                                  | 73   | 168.395 | 62.2% |
| 23-Nov   | 1,720                        | 1,750         | 1,140  |                 | 4,520                       | 4,550                              | 1,170              | 800                               |   |           |                                  | 73   | 167.851 | 62.0% |
| 24-Nov   | 1,690                        | 1,740         | 969  |                 | 4,410                       | 4,330                              | 1,190              | 813                               |   |           |                                  | 73   | 167.352 | 61.8% |
| 25-Nov   | 1,690                        | 1,760         | 1,050  |                 | 4,080                       | 4,160                              | 1,250              | 831                               |   |           |                                  | 73   | 166.825 | 61.6% |
| 26-Nov   | 1,870                        | 1,940         | 1,180  |                 | 4,220                       | 4,390                              | 1,340              | 1,060                             |   |           |                                  | 73   | 166.289 | 61.4% |
| 27-Nov   | 2,910                        | 7,180         | 5,190  |                 | 5,610                       | 7,940                              | 7,400              | 4,570                             |   |           |                                  | 73   | 168.379 | 62.2% |
| 28-Nov   | 14,000                       | 12,900        | 4,320  |                 | 14,500                      | 17,700                             | 6,430              | 3,820                             |   |           |                                  | 73   | 172.592 | 63.7% |
| 29-Nov   | 9,390                        | 8,910         | 5,220  |                 | 22,900                      | 21,900                             | 4,080              | 2,740                             |   |           |                                  | 73   | 174.610 | 64.5% |
| 30-Nov   | 6,940                        |               | 5,200  |                 | 18,300                      |                                    | 3,290              | 2,730                             |   |           |                                  |  | 175.936 | 65.0% |
| Nov Avg  | 3,279                        | 3,267         | 2,206  |                 | 7,589                       | 7,365                              | 2,181              | 1,414                             |   |           |                                  | 73   | 175.936 | 65.0% |
| Normal   |                              | 4,560         | 2,506  |                 |                             | 9,825                              | 2,384              | 1,100                             |   |           |                                  | 80   | 166.093 | 61.3% |
| % Normal   |                              | 71.7%         | 88.0%  |                 |                             | 75.0%                              | 91.5%              | 128.5%                            |   |           |                                  | -7   |         |       |
| <b>NYC 24-hr reservoir observations November 30, 8:00 am</b> |                              |               |  |                 |                             |                                    |                    |                                   |   |           |                                  |  |         |       |
|  | <b>precip</b>                | <b>usable</b> | <b>sto%</b>                                    | <b>draft mg</b> | <b>direct rel</b>           | <b>DIRECTED<br/>RELEASES (CFS)</b> |                    |                                   | <b>NYC Storage Median - November 30 =</b> |           |                                  | 166.093  | 61.3%   |       |
| <b>Neversink</b>   | 0.00                         | 15.919        | 45.6%  | 188             | 0                           | <b>Blue Marsh</b>                  | 0                  | <b>BG Above Median =</b>          |   |           | 9.843                            | 5.9%   |         |       |
| <b>Pepacton</b>  | 0.04                         | 100.311       | 71.6%  | 448             | 0                           | <b>Beltzville</b>                  | 0                  | <b>BG Above Drought Watch =</b>   |   |           | 65.936                           |  |         |       |
| <b>Cannonsv.</b>   | 0.03                         | 59.706        | 62.4%  | 297             | 0                           | <b>F.E. Walter</b>                 | 0                  | <b>BG Above Drought Warning =</b> |   |           | 81.936                           |  |         |       |
| <b>Rondout</b>   | 0.00                         | 45.026        | 90.7%  | 612             | 0                           | <b>Merrill Ck</b>                  | 0                  | <b>BG Above Drought =</b>         |   |           | 105.936                          |  |         |       |
|  |                              |               |  |                 |                             | <b>NYC Res. Excess Bank</b>        | 0                  | <b>BG Above One Year Ago =</b>    |   |           | 55.645                           |  |         |       |
| <b>DAILY USABLE STORAGE</b>                                  |                              |               |  |                 |                             |                                    |                    |                                   |   |           |                                  |  |         |       |
|  |                              |               |  |                 |                             |                                    | <b>VOL. (BG)</b>   | <b>%CAP</b>                       |   |           |                                  |  |         |       |
|  |                              |               |  |                 |                             | <b>Blue Marsh</b>                  | 5.48               | 84.3                              |   |           |                                  |  |         |       |
|  |                              |               |  |                 |                             | <b>Beltzville</b>                  | 12.49              | 96.1                              |   |           |                                  |  |         |       |

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.

\* 7-day average of chloride at 250 mg/L

**BG=Billion Gallons; CFS=Cubic Feet per Second**

**ESTIMATES OF THE SALT FRONT ARE BASED ON PROVISIONAL DATA AND ARE SUBJECT TO CHANGE.**