

## WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK APRIL 1998

| County  | Well number | Year record began | Mean depth to water below land surface, in feet |            |                      |                           |   |   | Last recorded water level | Date of last recorded water level | Trend from last month | Trend from last year | Departure from mean for all years, in feet |
|---|-------------|-------------------|---|------------|----------------------|---------------------------|---|---|---------------------------|-----------------------------------|-----------------------|----------------------|--|
|   |             |                   | This month                                      | Last month | This month last year | This month, for all years | Maximum for this month/year of occurrence | Minimum for this month/year of occurrence |                           |                                   |                       |                      |  |
| Observation wells in the Ohio River Basin     |             |                   |   |            |                      |                           |   |   |                           |                                   |                       |                      |  |
| Allegheny                                     | AG-700      | 1967              | 5.49  | 5.72       | 5.32                 | 5.91                      | 7.17/69                                   | 5.27/88                                   | 5.03                      | 4/30                              | UP                    | DOWN                 | 0.42                                       |
| Beaver  | BV-156      | 1967              | 7.99  | 8.02       | 8.21                 | 8.55                      | 9.87/68                                   | 7.81/94                                   | 7.73                      | 4/23                              | UP                    | UP                   | 0.56                                       |
| Butler  | BT-311      | 1970              | 3.24  | 3.27       | 3.07                 | 4.95                      | 12.00/71                                  | 2.70/94                                   | 2.75                      | 4/20                              | UP                    | DOWN                 | 1.71                                       |
| Crawford                                      | CW-413      | 1967              | 49.10   | 50.19      | 48.38                | 47.51*                    | 49.56/95*                                 | 44.97/91*                                 | 47.97                     | 4/21                              | UP                    | DOWN                 | -1.59*                                     |
| Elk   | EK-108      | 1975              | 5.70**  | N/D        | 6.21**               | 3.76                      | 6.21/97**                                 | 2.47/91                                   | 5.40**                    | 4/20                              | N/D                   | UP                   | -1.94**                                    |
| Erie  | ER-82       | 1966              | 19.19   | 19.52      | N/D                  | 18.49*                    | 19.54/91*                                 | 17.42/87*                                 | 18.77                     | 4/22                              | UP                    | N/D                  | -0.70*                                     |
| Fayette                                       | FA-17       | 1968              | 21.02   | 20.39      | 21.98                | 22.31                     | 23.18/77                                  | 21.02/98                                  | 20.96                     | 4/24                              | DOWN                  | UP                   | 1.29                                       |
| Forest  | FO-11       | 1974              | 7.97  | 8.07       | 7.92                 | 8.53                      | 9.20/76                                   | 7.67/94                                   | 7.70                      | 4/22                              | UP                    | DOWN                 | 0.56                                       |
| Green   | GR-118      | 1973              | 25.96   | 25.57      | 23.95                | 31.43                     | 35.55/88                                  | 23.46/96                                  | 26.00                     | 4/23                              | DOWN                  | DOWN                 | 5.47                                       |
| Lawrence                                      | LA-1201     | 1967              | 15.11   | 15.35      | 15.97                | 15.81                     | 19.04/86                                  | 14.28/78                                  | 14.81                     | 4/30                              | UP                    | UP                   | 0.70                                       |
| Mercer  | MR-1364     | 1964              | N/D   | N/D        | N/D                  | 3.83                      | 5.06/82                                   | 2.89/69                                   | N/D                       | N/D                               | N/D                   | N/D                  | N/D  |
| Somerset                                      | SO-2        | 1937              | 32.90   | 33.11      | 32.31                | 32.81*                    | 33.49/92*                                 | 32.11/94*                                 | 32.57                     | 4/20                              | UP                    | DOWN                 | -0.09*                                     |
| Warren  | WR-50       | 1972              | 39.81   | 40.67      | 39.81                | 41.24                     | 42.40/77                                  | 39.73/91                                  | 39.45                     | 4/30                              | UP                    | SAME                 | 1.43                                       |
| Washington                                    | WS-155      | 1971              | 35.90   | 35.32      | 35.90                | 35.05                     | 35.90/98                                  | 33.93/74                                  | 35.86                     | 4/23                              | DOWN                  | SAME                 | -0.85                                      |
| Westmoreland                                  | WE-300      | 1968              | 14.45   | 14.57      | 14.86                | 15.69                     | 20.32/68                                  | 14.01/91                                  | 14.14                     | 4/17                              | UP                    | UP                   | 1.24                                       |
| Observation wells in the Delaware River Basin |             |                   |   |            |                      |                           |   |   |                           |                                   |                       |                      |  |
| Berks   | BE-623      | 1975              | 130.47  | 134.72     | 124.13               | 126.03                    | 138.30/81                                 | 110.80/94                                 | 129.11                    | 4/30                              | UP                    | DOWN                 | -4.44                                      |
| Bucks   | BK-929      | 1967              | 41.65   | 42.51      | 40.74                | 41.53*                    | 43.30/92*                                 | 39.92/91*                                 | 41.63                     | 4/22                              | UP                    | DOWN                 | -0.12*                                     |
| Bucks   | BK-1020     | 1975              | 27.03   | 26.55      | 27.97                | 29.65                     | 35.77/85                                  | 26.27/83                                  | 28.49                     | 4/30                              | DOWN                  | UP                   | 2.62                                       |
| Carbon  | CB-104      | 1969              | 36.32   | 33.24      | 39.96                | 37.36                     | 50.27/95                                  | 23.38/93                                  | 33.69                     | 4/30                              | DOWN                  | UP                   | 1.04                                       |
| Chester                                       | CH-10       | 1966              | 10.82   | 10.45      | 9.82                 | 11.58                     | 14.16/66                                  | 9.57/84                                   | 10.77                     | 4/30                              | DOWN                  | DOWN                 | 0.76                                       |
| Delaware                                      | DE-723      | 1983              | 6.36  | 6.30       | 5.52                 | 5.68                      | 6.99/95                                   | 3.87/93                                   | 6.52                      | 4/26                              | DOWN                  | DOWN                 | -0.68                                      |
| Lebanon                                       | LB-372      | 1973              | 7.33  | 7.21       | 8.22                 | 7.90                      | 9.73/81                                   | 6.33/93                                   | 7.37                      | 4/30                              | DOWN                  | UP                   | 0.57                                       |
| Lehigh  | LE-644      | 1971              | 54.88   | 60.01      | 46.84                | 52.90                     | 76.49/81                                  | 35.85/94                                  | 54.17                     | 4/30                              | UP                    | DOWN                 | -1.98                                      |
| Monroe  | MO-190      | 1968              | 8.14  | 8.01       | 8.60                 | 8.69                      | 10.29/85                                  | 7.45/83                                   | 8.38                      | 4/30                              | DOWN                  | UP                   | 0.55                                       |
| Montgomery                                    | MG-225      | 1956              | 11.58   | 12.97      | 13.82                | 22.86                     | 41.21/66                                  | 11.55/96                                  | 12.77                     | 4/26                              | UP                    | UP                   | 11.28                                      |
| Pike  | PI-200      | 1981              | 68.01   | 62.68      | 55.48                | 42.90                     | 68.01/98                                  | 28.53/83                                  | 62.10                     | 4/30                              | DOWN                  | DOWN                 | -25.11                                     |
| Schuylkill                                    | SC-296      | 1975              | 43.59   | 41.06      | 44.94                | 42.17                     | 49.82/95                                  | 36.77/84                                  | 42.73                     | 4/30                              | DOWN                  | UP                   | -1.42                                      |
| Wayne   | WN-64       | 1968              | 22.89   | 23.69      | 22.58                | 23.22*                    | 24.76/92*                                 | 21.77/94*                                 | 22.82                     | 4/30                              | UP                    | DOWN                 | 0.33*                                      |

N/D indicates no data

NDR indicates no data received at time of report

DOWN = Water level is lower than that reported for last month or year

UP = Water level is higher than that reported for last month or year

Shaded block indicates this month is a recorded maximum or minimum

Year refers to water year, October 1 - September 30.

\* Value for well is computed using less than the full period of record because of a change in well hydraulics, or nearby non-climatic hydrologic stress.

\*\* Below normal conditions for well EK-108 are probably due to recent land use changes.

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|--|-------------|-------------------|---|------------|----------------------|---------------------------|---|---|---------------------------|-----------------------------------|-----------------------|----------------------|--|
|  |             |                   | This month                                      | Last month | This month last year | This month, for all years | Maximum for this month/year of occurrence | Minimum for this month/year of occurrence |                           |                                   |                       |                      |  |
| Observation wells in the Susquehanna River Basin |             |                   |   |            |                      |                           |   |   |                           |                                   |                       |                      |  |
| Adams  | AD-146      | 1968              | 11.64   | 11.45      | 11.82                | 11.67                     | 12.01/71                                  | 11.27/73                                  | 11.67                     | 4/30                              | DOWN                  | UP                   | 0.03                                       |
| Bedford  | BD-150      | 1965              | 2.24  | 1.46       | 4.19                 | 9.58                      | 34.53/66                                  | 0.33/84                                   | 0.85                      | 4/26                              | DOWN                  | UP                   | 7.34                                       |
| Blair  | BA-74       | 1969              | 12.65   | 12.83      | N/D                  | 11.72                     | 14.39/71                                  | 10.22/83                                  | 12.44                     | 4/29                              | UP                    | N/D                  | -0.93                                      |
| Bradford   | BR-92       | 1966              | 4.16  | 3.12       | 7.45                 | 5.88                      | 9.81/81                                   | 2.36/93                                   | 4.68                      | 4/29                              | DOWN                  | UP                   | 1.72                                       |
| Cameron  | CM-13       | 1967              | 22.72   | 22.71      | 22.93                | 22.82                     | 23.85/81                                  | 18.59/93                                  | 22.64                     | 4/30                              | DOWN                  | UP                   | 0.10                                       |
| Clinton  | CN-1        | 1950              | 46.33   | 46.22      | 47.10                | 47.71                     | 49.86/81                                  | 45.20/94                                  | 45.87                     | 4/30                              | DOWN                  | UP                   | 1.38                                       |
| Cumberland                                       | CU-2        | 1951              | 12.18   | 10.37      | 15.86                | 15.11                     | 21.63/92                                  | 9.64/93                                   | 12.05                     | 4/28                              | DOWN                  | UP                   | 2.93                                       |
| Dauphin  | DA-350      | 1964              | 4.26  | 4.07       | 4.60                 | 4.31                      | 4.92/71                                   | 3.80/83                                   | 4.22                      | 4/30                              | DOWN                  | UP                   | 0.05                                       |
| Franklin   | FR-332      | 1975              | 16.21   | 14.98      | 16.75                | 24.57                     | 29.78/88                                  | 16.21/98                                  | 16.46                     | 4/30                              | DOWN                  | UP                   | 8.36                                       |
| Huntingdon                                       | HU-301      | 1969              | 52.67   | 52.16      | 53.77                | 53.10                     | 54.17/86                                  | 51.55/87                                  | 51.75                     | 4/29                              | DOWN                  | UP                   | 0.43                                       |
| Juniata  | JU-351      | 1968              | 12.43   | 12.24      | 12.87                | 12.83                     | 13.34/71                                  | 11.92/94                                  | 12.08                     | 4/28                              | DOWN                  | UP                   | 0.40                                       |
| Lancaster  | LN-514      | 1964              | 27.61   | 27.15      | 32.23                | 30.30                     | 33.22/69                                  | 22.47/93                                  | 29.44                     | 4/28                              | DOWN                  | UP                   | 2.69                                       |
| Luzerne  | LU-294      | 1994              | 31.25   | 30.52      | 31.98                | 30.90                     | 32.88/56                                  | 28.45/93                                  | 30.60                     | 4/24                              | DOWN                  | UP                   | -0.35                                      |
| Lycoming   | LY-112      | 1967              | 86.56   | 86.20      | 88.99                | 87.26                     | 89.23/88                                  | 85.05/80                                  | 86.48                     | 4/30                              | DOWN                  | UP                   | 0.70                                       |
| Mifflin  | MF-344      | 1983              | 44.56   | 41.41      | 55.91                | 47.36                     | 57.61/90                                  | 27.31/93                                  | 38.76                     | 4/29                              | DOWN                  | UP                   | 2.80                                       |
| Potter   | PO-72       | 1967              | 14.78   | 14.68      | 16.96                | 15.33                     | 19.82/85                                  | 10.28/93                                  | 15.28                     | 4/30                              | DOWN                  | UP                   | 0.55                                       |
| Snyder   | SN-130      | 1968              | 18.38   | 18.26      | 19.04                | 18.67                     | 19.12/81                                  | 17.83/93                                  | 18.40                     | 4/30                              | DOWN                  | UP                   | 0.29                                       |
| Sullivan   | SU-34       | 1965              | 24.84   | 23.53      | 26.38                | 25.19                     | 27.32/88                                  | 21.52/93                                  | 26.03                     | 4/30                              | DOWN                  | UP                   | 0.35                                       |
| Susquehanna                                      | SQ-61       | 1972              | 29.09   | 29.63      | 27.43                | 27.19                     | 31.58/81                                  | 24.52/87                                  | 29.00                     | 4/30                              | UP                    | DOWN                 | -1.90                                      |
| Tioga  | TI-100      | 1972              | 31.66   | 31.72      | 31.86                | 32.27                     | 33.79/89                                  | 31.30/93                                  | 31.31                     | 4/22                              | UP                    | UP                   | 0.61                                       |
| Union  | UN-51       | 1967              | 34.87   | 31.85      | 37.14                | 34.86                     | 38.44/81                                  | 29.52/94                                  | 34.48                     | 4/30                              | DOWN                  | UP                   | -0.01                                      |

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### NOTES:

1) Continuous water-level records for wells CE-118 (Centre County) and PH-12 (Philadelphia County) are being collected but are not reported in the monthly summary because they are not used for drought monitoring.

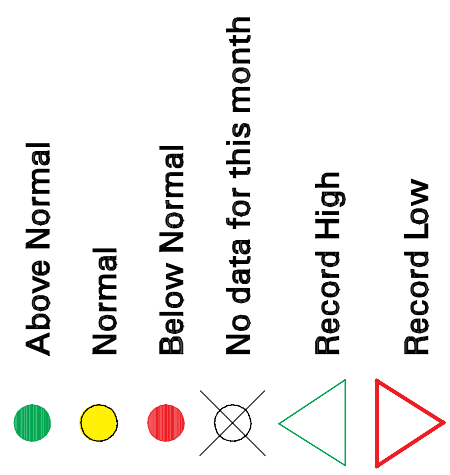
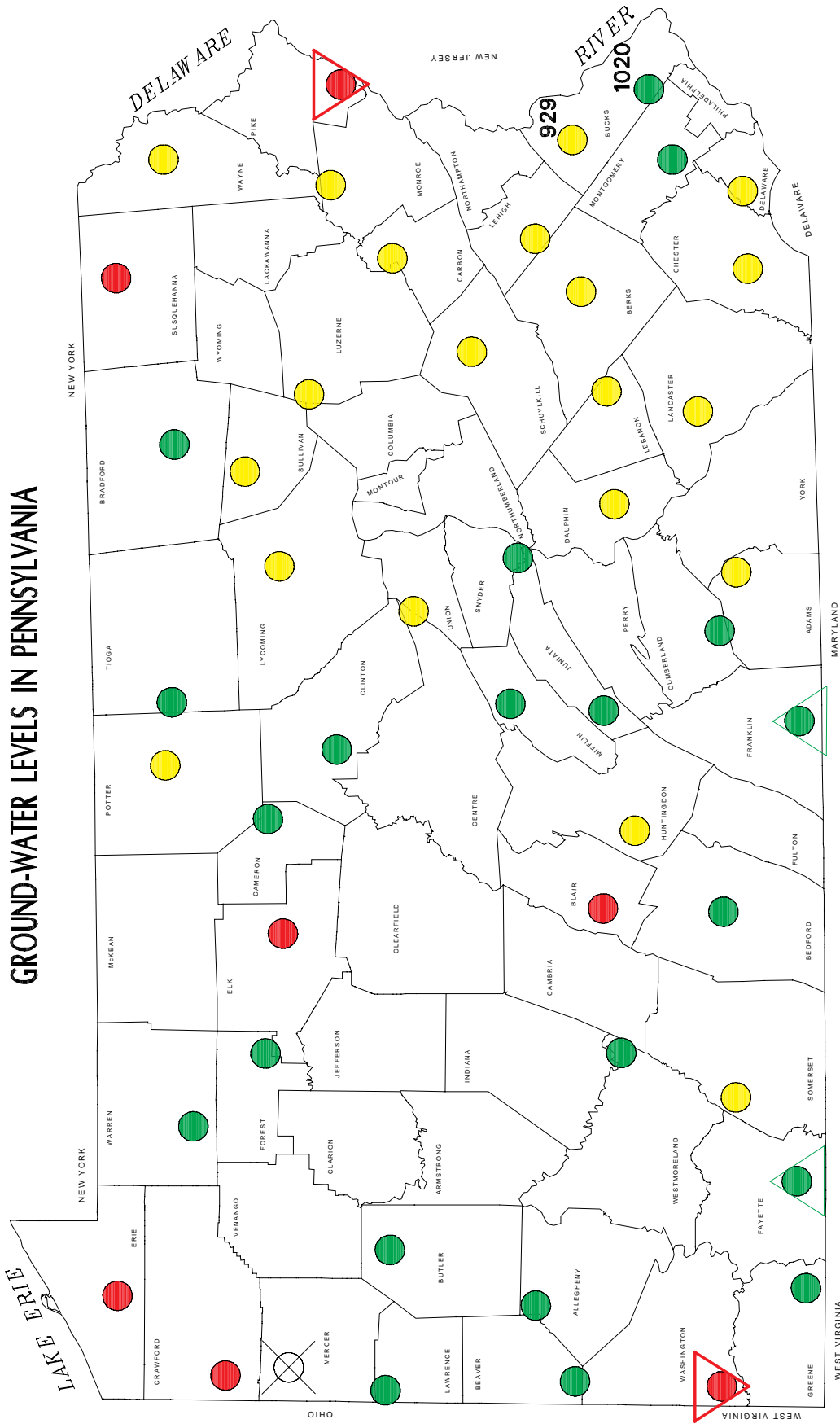
\* Estimated values for well LU-294 are based on data from nearby discontinued well LU-243.

### Questions concerning the ground-water observation wells can be directed to:

Dennis Risser, Ground-Water Program Coordinator, USGS, Lemoyne, PA (717) 730-6911

Naomi Weisbeker, Hydrologic Technician, USGS, Lemoyne, PA (717) 730-6937

# GROUND-WATER LEVELS IN PENNSYLVANIA



**April 1998**

## MEAN WATER LEVELS IN OBSERVATION WELLS

Prepared by the Water Resources Division, U.S. Geological Survey, in cooperation with the Bureau of Watershed Conservation, Pennsylvania Department of Environmental Protection.

Normal is defined as a water level between the 25th percentile and 75th percentile of monthly mean water levels for all previous years of record for this month.