

## WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK JUNE 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              | 6.10  | 5.17       | 5.38                 | 6.36                      | 7.46/69                                   | 5.38/97                                   | 5.98                      | 6/28                              | DOWN                  | DOWN                 | 0.26                                       |
| Beaver  | BV-156      | 1967              | 8.40  | 7.83       | 7.94                 | 9.10                      | 10.75/68                                  | 7.90/89                                   | 8.40                      | 6/18                              | DOWN                  | DOWN                 | 0.70                                       |
| Butler  | BT-311      | 1970              | 10.39   | 3.15       | 5.23                 | 9.35                      | 21.08/77                                  | 3.32/89                                   | 17.45                     | 6/20                              | DOWN                  | DOWN                 | -1.04                                      |
| Crawford                                      | CW-413      | 1967              | 49.91   | 47.37      | 49.30                | 50.24*                    | 54.19/92*                                 | 46.37/89*                                 | 50.80                     | 6/20                              | DOWN                  | DOWN                 | 0.33*                                      |
| Elk   | EK-108      | 1975              | 5.21**  | 4.79**     | 5.81**               | 3.97                      | 5.81/97**                                 | 2.67/90                                   | 5.51**                    | 6/20                              | DOWN                  | UP                   | -1.24**                                    |
| Erie  | ER-82       | 1966              | N/D   | 19.28      | 18.41                | 19.80*                    | 21.26/83*                                 | 18.17/86*                                 | 21.19                     | 6/24                              | N/D                   | N/D                  | N/D  |
| Fayette                                       | FA-17       | 1968              | 22.06   | 21.19      | 22.52                | 22.94                     | 24.01/79                                  | 21.46/96                                  | 21.58                     | 6/25                              | DOWN                  | UP                   | 0.88                                       |
| Forest  | FO-11       | 1974              | 8.67  | 8.00       | 8.37                 | 9.28                      | 10.46/91                                  | 8.34/95                                   | 8.60                      | 6/21                              | DOWN                  | DOWN                 | 0.61                                       |
| Green   | GR-118      | 1973              | 27.56   | 26.58      | 24.30                | 32.12                     | 36.92/91                                  | 23.66/96                                  | 26.32                     | 6/18                              | DOWN                  | DOWN                 | 4.56                                       |
| Lawrence                                      | LA-1201     | 1967              | 17.52   | 15.20      | 16.27                | 16.67                     | 18.03/92                                  | 14.67/78                                  | 17.70                     | 6/28                              | DOWN                  | DOWN                 | -0.85                                      |
| Mercer  | MR-1364     | 1964              | 2.66  | 1.66       | 3.05                 | 4.16                      | 5.40/80                                   | 2.45/91                                   | 2.66                      | 6/20                              | DOWN                  | UP                   | 1.50                                       |
| Somerset                                      | SO-2        | 1937              | 32.99   | 32.76      | 32.23                | 32.91*                    | 33.68/92*                                 | 32.23/97*                                 | 33.11                     | 6/21                              | DOWN                  | DOWN                 | -0.08*                                     |
| Warren  | WR-50       | 1972              | 41.40   | 39.27      | 40.20                | 41.87                     | 43.98/77                                  | 39.77/89                                  | 41.86                     | 6/28                              | DOWN                  | DOWN                 | 0.47                                       |
| Washington                                    | WS-155      | 1971              | 35.84   | 35.53      | 35.89                | 35.76                     | 36.51/88                                  | 34.46/80                                  | 34.46                     | 6/18                              | DOWN                  | UP                   | -0.08                                      |
| Westmoreland                                  | WE-300      | 1968              | 15.36   | 13.92      | 14.81                | 17.16                     | 26.34/68                                  | 14.28/89                                  | 16.27                     | 6/16                              | DOWN                  | DOWN                 | 1.80                                       |
| Observation wells in the Delaware River Basin |             |                   |   |            |                      |                           |   |   |                           |                                   |                       |                      |  |
| Berks   | BE-623      | 1975              | 128.71  | 127.67     | 129.47               | 127.52                    | 136.30/81                                 | 115.10/84                                 | 129.82                    | 6/28                              | DOWN                  | UP                   | -1.19                                      |
| Bucks   | BK-929      | 1967              | 42.59   | 41.12      | 41.90                | 42.53*                    | 44.26/95*                                 | 40.08/90*                                 | 42.81                     | 6/16                              | DOWN                  | DOWN                 | -0.06*                                     |
| Bucks   | BK-1020     | 1975              | 29.62   | 26.30      | 31.79                | 32.29                     | 36.21/85                                  | 27.66/89                                  | 30.61                     | 6/28                              | DOWN                  | UP                   | 2.67                                       |
| Carbon  | CB-104      | 1969              | 55.84   | 39.32      | 53.44                | 51.70                     | 65.38/87                                  | 34.92/72                                  | 57.03                     | 6/28                              | DOWN                  | DOWN                 | -4.14                                      |
| Chester                                       | CH-10       | 1966              | 12.31   | 10.97      | 11.73                | 12.75                     | 14.82/69                                  | 10.13/84                                  | 12.65                     | 6/28                              | DOWN                  | DOWN                 | 0.44                                       |
| Delaware                                      | DE-723      | 1983              | 6.79  | 6.39       | 6.52                 | 6.45                      | 7.42/95                                   | 5.44/89                                   | 6.91                      | 6/24                              | DOWN                  | DOWN                 | -0.34                                      |
| Lebanon                                       | LB-372      | 1973              | 7.64  | 7.02       | 8.89                 | 8.48                      | 9.97/81                                   | 6.82/82                                   | 7.55                      | 6/28                              | DOWN                  | UP                   | 0.84                                       |
| Lehigh  | LE-644      | 1971              | 52.67   | 51.61      | 56.78                | 55.76                     | 74.05/81                                  | 38.96/84                                  | 53.97                     | 6/28                              | DOWN                  | UP                   | 3.09                                       |
| Monroe  | MO-190      | 1968              | 9.94  | 8.24       | 10.83                | 10.21                     | 12.10/93                                  | 8.32/72                                   | 9.22                      | 6/28                              | DOWN                  | UP                   | 0.27                                       |
| Montgomery                                    | MG-225      | 1956              | 14.19   | 9.29       | 15.45                | 26.58                     | 52.28/63                                  | 14.19/98                                  | 15.05                     | 6/24                              | DOWN                  | UP                   | 12.39                                      |
| Montgomery                                    | MG-917      | 1997              | NDR   | 8.06       | N/D                  | N/D                       | N/D                                       | N/D                                       | NDR                       | NDR                               | NDR                   | N/D                  | N/D  |
| Pike  | PI-200      | 1981              | 64.76   | 61.65      | 69.09                | 51.05                     | 70.18/95                                  | 32.40/82                                  | 64.17                     | 6/28                              | DOWN                  | UP                   | -13.71                                     |
| Schuylkill                                    | SC-296      | 1975              | 48.96   | 42.32      | 47.80                | 46.23                     | 51.64/93                                  | 39.15/89                                  | 49.08                     | 6/28                              | DOWN                  | DOWN                 | -2.73                                      |
| Wayne   | WN-64       | 1968              | 24.41   | 22.49      | 24.59                | 25.28*                    | 27.16/91*                                 | 21.86/89*                                 | 24.19                     | 6/28                              | DOWN                  | UP                   | 0.87*                                      |

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              | 12.46   | 11.41      | 12.46                | 12.26                     | 13.10/91                                  | 11.09/89                                  | 12.71                     | 6/28                              | DOWN                  | SAME                 | -0.20                                      |
| Bedford  | BD-150      | 1965              | N/D   | -0.58      | 9.40                 | 12.96                     | 36.81/69                                  | 4.93/82                                   | 8.66                      | 6/25                              | N/D                   | N/D                  | N/D  |
| Blair  | BA-74       | 1969              | 14.57   | 12.63      | 12.75                | 12.82                     | 15.32/70                                  | 10.68/82                                  | 14.38                     | 6/25                              | DOWN                  | DOWN                 | -1.75                                      |
| Bradford   | BR-92       | 1966              | 7.40  | 5.36       | 9.76                 | 8.90                      | 10.69/91                                  | 5.80/89                                   | 8.06                      | 6/30                              | DOWN                  | UP                   | 1.50                                       |
| Cameron  | CM-13       | 1967              | 22.59   | 22.33      | 23.27                | 23.38                     | 24.54/93                                  | 22.42/72                                  | 22.83                     | 6/28                              | DOWN                  | UP                   | 0.79                                       |
| Clinton  | CN-1        | 1950              | 47.88   | 45.61      | 48.83                | 48.67                     | 50.89/64                                  | 47.46/75                                  | 48.63                     | 6/28                              | DOWN                  | UP                   | 0.79                                       |
| Cumberland                                       | CU-2        | 1951              | 16.50   | 11.20      | 20.57                | 18.17                     | 22.10/69                                  | 14.47/60                                  | 19.05                     | 6/29                              | DOWN                  | UP                   | 1.67                                       |
| Dauphin  | DA-350      | 1964              | N/D   | 4.08       | 5.09                 | 5.05                      | 5.67/91                                   | 4.26/82                                   | 4.43                      | 6/28                              | N/D                   | N/D                  | N/D  |
| Franklin   | FR-332      | 1975              | 16.84   | 15.45      | 17.95                | 27.19                     | 33.10/76                                  | 16.84/98                                  | 16.92                     | 6/28                              | DOWN                  | UP                   | 10.35                                      |
| Huntingdon                                       | HU-301      | 1969              | 53.71   | 51.82      | 53.01                | 53.76                     | 54.84/77                                  | 51.72/72                                  | 53.42                     | 6/28                              | DOWN                  | DOWN                 | 0.05                                       |
| Juniata  | JU-351      | 1968              | 13.48   | 12.51      | 13.06                | 13.58                     | 15.12/94                                  | 12.60/96                                  | 12.76                     | 6/25                              | DOWN                  | DOWN                 | 0.10                                       |
| Lancaster  | LN-514      | 1964              | 29.22   | 26.79      | 32.92                | 32.44                     | 33.33/69                                  | 29.22/98                                  | 30.37                     | 6/26                              | DOWN                  | UP                   | 3.22                                       |
| Luzerne  | LU-294      | 1994              | 32.73   | 31.38      | 33.62                | 32.65                     | 35.18/59                                  | 30.95/75                                  | 32.16                     | 6/26                              | DOWN                  | UP                   | -0.08                                      |
| Lycoming   | LY-112      | 1967              | 89.81   | 85.99      | 91.47                | 88.92                     | 91.72/94                                  | 86.56/82                                  | 90.14                     | 6/28                              | DOWN                  | UP                   | -0.89                                      |
| Mifflin  | MF-344      | 1983              | N/D   | N/D        | 55.95                | 54.31                     | 60.73/91                                  | 44.20/89                                  | 37.32                     | 6/25                              | N/D                   | N/D                  | N/D  |
| Potter   | PO-72       | 1967              | 21.98   | 15.65      | 19.74                | 21.39                     | 27.48/91                                  | 13.35/89                                  | 23.30                     | 6/28                              | DOWN                  | DOWN                 | -0.59                                      |
| Snyder   | SN-130      | 1968              | 18.96   | 18.19      | 18.96                | 19.02                     | 19.29/77                                  | 18.45/72                                  | 18.99                     | 6/28                              | DOWN                  | SAME                 | 0.06                                       |
| Sullivan   | SU-34       | 1965              | 26.87   | 25.68      | 28.13                | 27.40                     | 29.13/91                                  | 24.28/72                                  | 27.89                     | 6/28                              | DOWN                  | UP                   | 0.53                                       |
| Susquehanna                                      | SQ-61       | 1972              | 30.47   | 29.11      | 29.79                | 30.50                     | 33.81/74                                  | 25.51/89                                  | 29.60                     | 6/28                              | DOWN                  | DOWN                 | 0.03                                       |
| Tioga  | TI-100      | 1972              | 31.84   | 31.34      | 32.46                | 32.63                     | 33.49/92                                  | 31.84/98                                  | 32.10                     | 6/22                              | DOWN                  | UP                   | 0.79                                       |
| Union  | UN-51       | 1967              | 38.46   | 32.52      | 38.19                | 37.64                     | 39.59/77                                  | 34.67/68                                  | 39.39                     | 6/28                              | DOWN                  | DOWN                 | -0.82                                      |

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### NOTES:

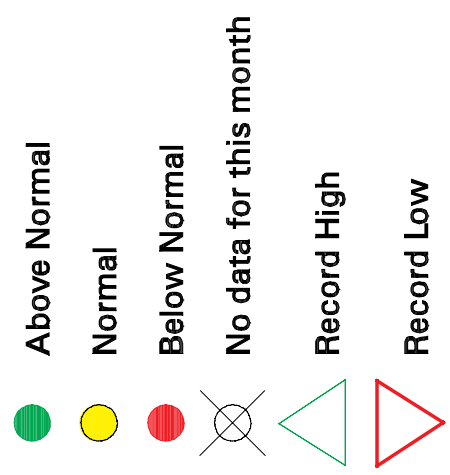
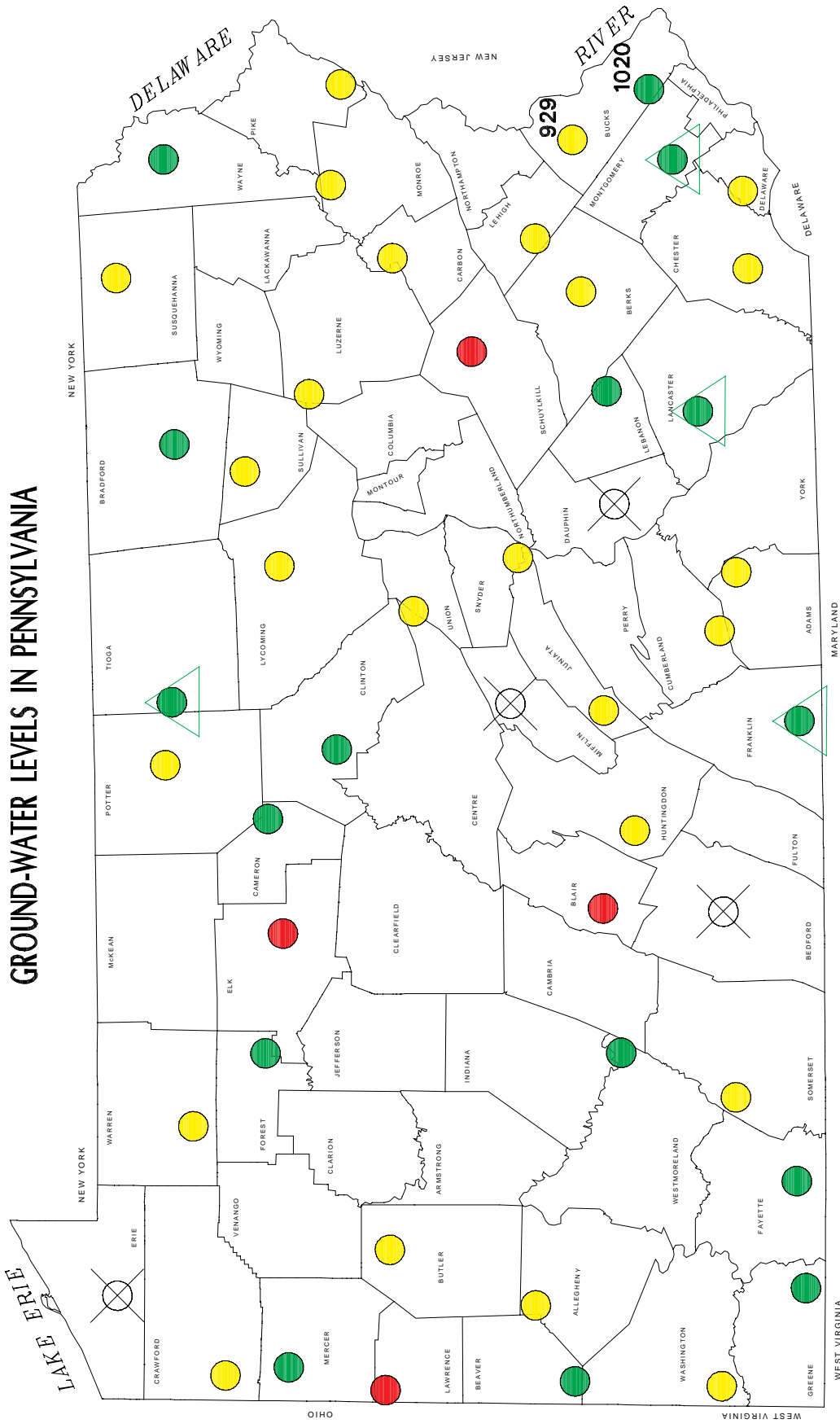
- 1) Continuous water-level records for wells CE-118 (Centre County) and PH-12 (Philadelphia County) are being collected but are not reported in the monthly summary because they are not used for drought monitoring.
- 2) Well MG-917 is not shown on map because insufficient years of record have been collected to establish norms.

\* 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



## JUNE 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.