



Monthly Ground-Water Conditions in Pennsylvania

April 2000

This report is also available on the World Wide Web at http://pa.water.usgs.gov/gw_report

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
840 Market Street
Lemoyne, PA 17043-1584

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK APRIL 2000

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	6.16	6.48	6.11	5.90	7.17/69	5.27/88	6.10	4/27	UP	DOWN	-0.26
Beaver	BV-156	1967	8.11	8.41	8.13	8.51	9.87/68	7.81/94	8.04	4/24	UP	UP	.40
Butler	BT-311	1970	2.58	NDR	2.57	4.79	12.00/71	2.57/99	2.38	4/20	NDR	DOWN	2.21
Crawford	CW-413	1967	48.82	N/D	49.20	47.68*	49.56/95*	44.97/91*	47.27	4/21	N/D	UP	-1.14*
Elk	EK-108	1975	4.97**	5.64**	5.20**	3.87	6.21/97**	2.47/91	4.80**	4/20	UP	UP	-1.10
Erie	ER-82	1966	18.62	18.72	N/D	18.54*	19.54/91*	17.42/87*	18.26	4/23	UP	N/D	-.08*
Fayette	FA-17	1968	21.04	22.20	20.29	22.19	23.18/77	20.29/99	20.64	4/28	UP	DOWN	1.15
Forest	FO-11	1974	7.85	8.13	7.73	8.47	9.20/76	7.67/94	7.70	4/23	UP	DOWN	.62
Green	GR-118	1973	26.33	26.91	22.80	30.77	35.55/88	22.80/99	26.26	4/24	UP	DOWN	4.44
Lawrence	LA-1201	1967	15.15	15.95	15.79	15.79	19.04/86	14.28/78	16.17	4/27	UP	UP	.64
Mercer	MR-1364	1964	2.04+	N/D	2.13	3.73	5.06/82	0.98/98	1.90+	4/21	N/D	UP	1.69
Somerset	SO-2	1937	36.67^	39.14^	35.24	33.01*	35.24/99*	32.11/94*	34.47^	4/19	UP	DOWN	-3.66*
Warren	WR-50	1972	40.79	41.80	41.31	41.19	42.40/77	39.73/91	40.55	4/27	UP	UP	.40
Washington	WS-155	1971	35.35	35.82	35.80	35.11	36.03/98	33.93/74	35.65	4/24	UP	UP	-.24
Westmoreland	WE-300	1968	14.58	16.17	14.61	15.60	20.32/68	14.01/91	13.91	4/20	UP	UP	1.02
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	128.32	134.73	134.99	126.62	138.30/81	110.80/94	128.81	4/27	UP	UP	-1.70
Bucks	BK-929	1967	40.92	41.87	44.59	41.78*	44.59/99*	39.92/91*	40.71	4/26	UP	UP	.86*
Bucks	BK-1020	1975	27.95	27.50	28.66	29.48	35.77/85	26.27/83	28.42	4/27	DOWN	UP	1.53
Carbon	CB-104	1969	35.52	32.39	43.17	37.54	50.27/95	23.38/93	37.39	4/18	DOWN	UP	2.02
Chester	CH-10	1966	10.11	10.50	11.85	11.56	14.16/66	9.57/84	10.31	4/27	UP	UP	1.45
Delaware	DE-723	1983	5.23	5.71	6.86	5.80	6.99/95	3.87/93	5.56	4/26	UP	UP	.57
Lebanon	LB-372	1973	7.58	7.78	9.05	7.92	9.73/81	6.33/93	8.16	4/27	UP	UP	.34
Lehigh	LE-644	1971	59.94	66.08	67.75	53.51	76.49/81	35.85/94	60.29	4/27	UP	UP	-6.43
Monroe	MO-190	1968	8.79	8.47	9.17	8.68	10.29/85	7.45/83	8.78	4/27	DOWN	UP	-.11
Montgomery	MG-225	1956	10.59++	10.67++	12.91	22.26	41.21/66	11.55/96	10.94++	4/26	UP	UP	11.67
Montgomery	MG-917	1997	8.21	8.24	8.72	8.49	8.72/99	8.26/98	8.13	4/26	UP	UP	.28
Pike	PI-200	1981	57.48	53.03	68.19	46.20	68.19/99	28.53/83	59.99	4/27	DOWN	UP	-11.28
Schuylkill	SC-296	1975	41.04	40.94	47.50	42.45	49.82/95	36.77/84	47.02	4/27	DOWN	UP	1.41
Wayne	WN-64	1968	24.10	25.21	26.23	23.44*	26.23/99*	21.77/94*	23.60	4/27	UP	UP	-.66*

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 new 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.

** Water level in well EK-108 is affected by land-use changes made in fall of 1996. Record adjusted to compute current conditions shown on map.

^ Below normal conditions for well SO-2 are due to nearby pumping.

+ Above normal conditions for well MR-1364 are probably due to changes in aquifer caused by Pymatuning Earthquake on Sept. 25, 1998. Record adjusted to compute current conditions shown on map.

++ Above normal conditions for well MG-225 are caused by decreased pumping from nearby wells.

WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK APRIL 2000

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 Susquehanna River Basin													
Adams	AD-146	1968	11.49	11.45	11.58	11.68	12.01/71	11.27/73	11.57	4/27	DOWN	UP	0.19
Bedford	BD-150	1965	17.45	22.70	20.65	9.63	34.53/66	0.33/84	12.21	4/24	UP	UP	-7.82
Blair	BA-74	1969	12.14	12.37	13.04	11.80	14.39/71	10.22/83	11.80	4/24	UP	UP	-.34
Bradford	BR-92	1966	3.08	4.23	6.75	5.85	9.81/81	2.36/93	3.66	4/27	UP	UP	2.77
Cameron	CM-13	1967	22.56	22.75	22.49	22.80	23.85/81	18.59/93	22.45	4/27	UP	DOWN	.24
Clinton	CN-1	1950	48.32	49.37	47.95	47.67	49.86/81	45.20/94	47.49	4/27	UP	DOWN	-.65
Cumberland	CU-2	1951	18.78	23.19	20.75	15.17	21.63/92	9.64/93	16.68	4/28	UP	UP	-3.61
Dauphin	DA-350	1964	4.13	4.11	4.38	4.31	4.92/71	3.80/83	4.31	4/27	DOWN	UP	.18
Franklin	FR-332	1975	16.19	16.47	17.14	23.94	29.78/88	16.21/98	16.28	4/27	UP	UP	7.75
Huntingdon	HU-301	1969	53.30	53.38	52.48	53.06	54.17/86	51.55/87	52.52	4/27	UP	DOWN	-.24
Juniata	JU-351	1968	12.41	12.43	12.65	12.81	13.34/71	11.92/94	12.14	4/26	UP	UP	.40
Lancaster	LN-514	1964	28.95	27.64	32.62	30.30	33.22/69	22.47/93	31.85	4/28	DOWN	UP	1.35
Luzerne	LU-294	1994	30.87	30.79	32.15	31.91	32.84/95	31.22/98	31.60	4/30	DOWN	UP	1.04
Lycoming	LY-112	1967	101.60 ^{^^}	101.94 ^{^^}	88.02	87.27	89.23/88	85.05/80	101.56	4/27	UP	DOWN	-14.33
Mifflin	MF-344	1983	49.89	47.59	52.10	47.46	57.61/90	27.31/93	41.38	4/26	DOWN	UP	-2.43
Potter	PO-72	1967	14.56	16.27	14.43	15.28	19.82/85	10.28/93	15.22	4/27	UP	DOWN	.72
Snyder	SN-130	1968	18.57	18.55	18.87	18.66	19.12/81	17.83/93	18.71	4/27	DOWN	UP	.09
Sullivan	SU-34	1965	23.55	24.14	25.77	25.20	27.32/88	21.52/93	25.11	4/27	UP	UP	1.65
Susquehanna	SQ-61	1972	29.69	30.11	28.97	27.32	31.58/81	24.52/87	29.53	4/27	UP	DOWN	-2.37
Tioga	TI-100	1972	30.37	30.58	30.04	32.15	33.79/89	30.04/99	30.07	4/25	UP	DOWN	1.78
Union	UN-51	1967	34.97	36.53	34.65	34.85	38.44/81	29.52/94	33.75	4/27	UP	DOWN	-.12

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 new recorded maximum or minimum

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

^{^^} Below normal conditions for well LY-112 are due to installation of nearby well in August 1999. Record adjusted to compute current conditions shown on map.

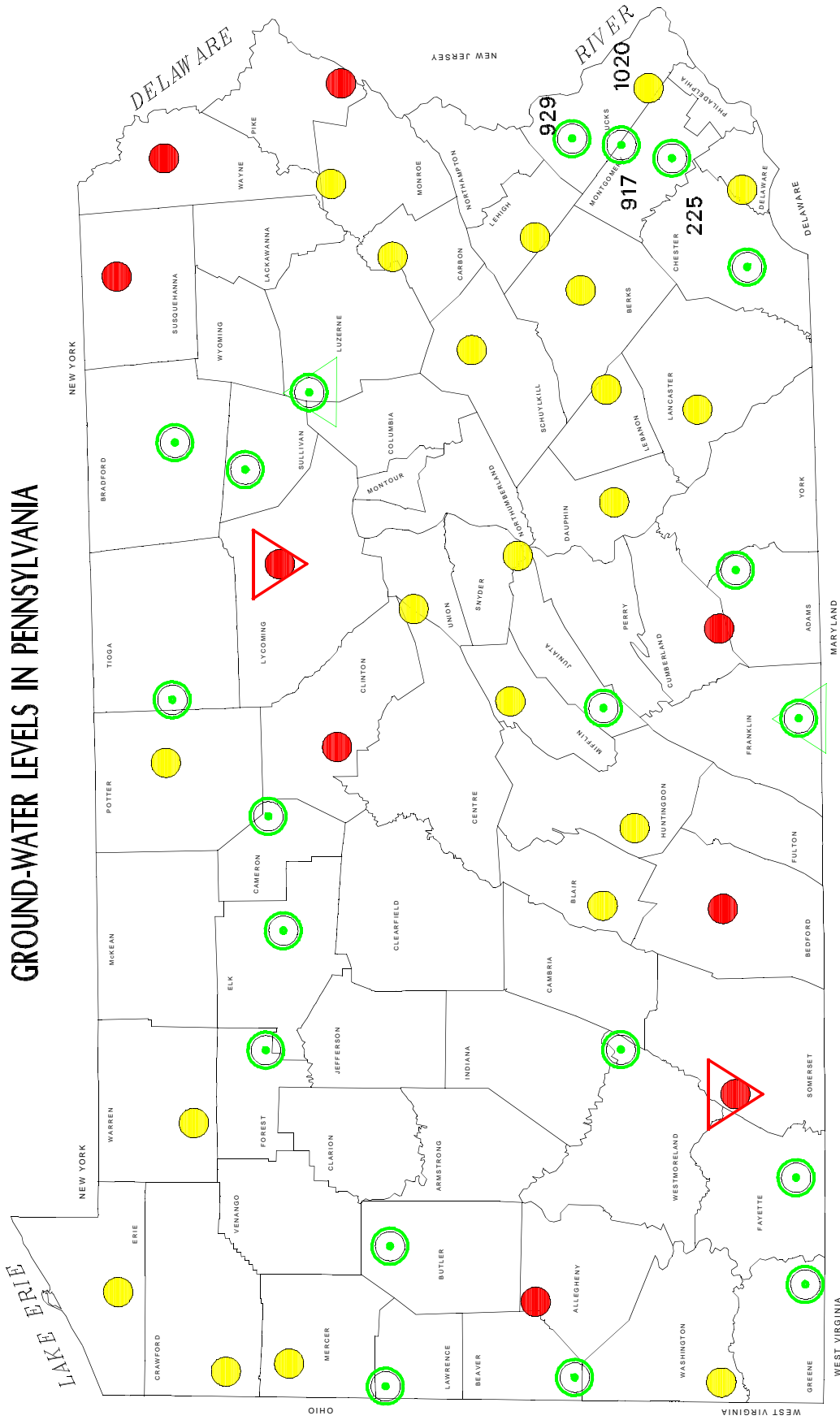
NOTE:







- 1) Continuous water-level records for wells CE-118 (Centre County), BD-654 (Bedford 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.

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



-  Above Normal
-  Normal
-  Below Normal
-  No data for this month
-  Record High
-  Record Low

APRIL 2000

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.