



Monthly Ground-Water Conditions in Pennsylvania

March 1999

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 MARCH 1999

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	6.28	6.36	5.72	6.11	8.04/69	5.07/97	6.47	3/30	UP	DOWN	-0.17
Beaver	BV-156	1967	8.26	8.12	8.01	8.51	9.95/68	7.88/94	8.18	3/23	DOWN	DOWN	0.25
Butler	BT-311	1970	2.84	3.51	3.34	5.48	11.31/71	2.84/99	2.78	3/20	UP	UP	2.64
Crawford	CW-413	1967	51.20	54.01	49.74	47.61*	51.20/99*	43.77/91*	50.45	3/19	UP	DOWN	-3.59*
Elk	EK-108	1975	5.98**	6.41**	N/D	4.04	6.41/97**	2.37/91	5.80**	3/20	UP	N/D	-1.94**
Erie	ER-82	1966	NDR	19.61	19.53	18.46*	19.68/83*	17.11/96*	NDR	NDR	NDR	NDR	NDR
Fayette	FA-17	1968	21.12	22.35	20.48	21.95	23.11/73	19.39/92	20.13	3/23	UP	DOWN	0.83
Forest	FO-11	1974	8.51	8.45	8.04	8.66	9.28/82	7.83/97	8.59	3/20	DOWN	DOWN	0.15
Green	GR-118	1973	23.10	23.43	25.55	30.43	35.11/87	22.86/93	22.75	3/23	UP	UP	7.33
Lawrence	LA-1201	1967	15.72	15.61	15.36	15.40	16.40/95	13.52/74	16.50	3/30	DOWN	DOWN	-0.32
Mercer	MR-1364	1964	2.16+	1.98	N/D	3.78	5.17/64	2.16/99+	2.46	3/21	DOWN	N/D	1.62
Somerset	SO-2	1937	40.34	43.68	33.04	33.03*	40.34/99*	32.33/97*	37.38	3/22	UP	DOWN	-7.31*
Warren	WR-50	1972	42.34	42.62	40.61	41.92	43.58/83	39.62/97	42.20	3/30	UP	DOWN	-0.42
Washington	WS-155	1971	35.58	35.37	35.58	34.94	36.28/87	33.66/75	35.74	3/23	DOWN	SAME	-0.64
Westmoreland	WE-300	1968	16.28	17.01	14.48	15.99	21.80/68	14.10/91	15.41	3/15	UP	DOWN	-0.29
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	135.99	136.06	134.63	129.11	139.00/81	117.90/79	134.98	3/30	UP	DOWN	-6.88
Bucks	BK-929	1967	45.81	47.08	42.39	42.06*	45.81/99*	40.19/91*	45.37	3/29	UP	DOWN	-3.75*
Bucks	BK-1020	1975	29.00	31.84	26.57	30.39	36.32/85	26.57/98	26.81	3/30	UP	DOWN	1.39
Carbon	CB-104	1969	40.15	35.69	33.25	39.17	60.65/80	28.38/77	35.81	3/30	DOWN	DOWN	-0.98
Chester	CH-10	1966	11.73	12.21	10.48	11.69	14.12/85	9.47/97	11.14	3/30	UP	DOWN	-0.04
Delaware	DE-723	1983	6.94	7.15	6.25	5.99	6.94/99	4.59/94	6.77	3/28	UP	DOWN	-0.95
Lebanon	LB-372	1973	8.53	7.88	7.21	7.95	9.78/81	6.59/94	8.58	3/30	DOWN	DOWN	-0.58
Lehigh	LE-644	1971	69.03	69.47	59.89	56.07	78.68/92	43.51/78	67.34	3/30	UP	DOWN	-12.96
Monroe	MO-190	1968	8.92	8.87	8.02	9.40	11.72/89	8.02/98	8.27	3/30	DOWN	DOWN	0.48
Montgomery	MG-225	1956	13.12	14.36	12.15	24.23	42.34/59	12.15/98	11.74	3/29	UP	DOWN	11.11
Montgomery	MG-917	1997	8.71	9.16	8.12	N/D	N/D	N/D	8.45	3/29	UP	DOWN	N/D
Pike	PI-200	1981	69.64	73.56	62.81	44.83	69.64/99	30.42/83	77.58	3/30	UP	DOWN	-24.81
Schuylkill	SC-296	1975	45.89	44.36	41.28	42.61	47.34/80	37.35/86	43.93	3/30	DOWN	DOWN	-3.28
Wayne	WN-64	1968	27.16	27.80	23.69	24.42*	27.16/99*	22.38/91*	26.35	3/30	UP	DOWN	-2.74*

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.

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

WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK MARCH 1999

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	11.51	11.72	11.46	11.50	11.98/81	10.91/94	11.83	3/30	UP	DOWN	-0.01
Bedford	BD-150	1965	29.69	31.69	1.29	12.44	34.81/66	-0.38/97	23.25	3/26	UP	DOWN	-17.25
Blair	BA-74	1969	14.23	14.42	12.83	11.79	14.74/70	10.45/89	13.19	3/24	UP	DOWN	-2.44
Bradford	BR-92	1966	6.95	8.28	3.17	6.30	10.01/89	3.17/98	5.62	3/30	UP	DOWN	-0.65
Cameron	CM-13	1967	22.40	22.51	22.72	22.98	23.88/73	22.19/72	22.33	3/30	UP	UP	0.58
Clinton	CN-1	1950	49.80	51.20	46.22	48.72	51.96/65	46.22/98	49.10	3/30	UP	DOWN	-1.08
Cumberland	CU-2	1951	24.95	26.65	10.43	17.51	26.05/92	10.43/98	22.34	3/26	UP	DOWN	-7.44
Dauphin	DA-350	1964	4.41	4.63	4.00	4.27	4.82/69	3.68/94	4.50	3/30	UP	DOWN	-0.14
Franklin	FR-332	1975	17.24	16.95	14.99	24.22	30.43/76	14.99/98	16.90	3/30	DOWN	DOWN	6.98
Huntingdon	HU-301	1969	52.93	53.39	52.16	53.13	54.33/81	52.04/94	52.89	3/30	UP	DOWN	0.20
Juniata	JU-351	1968	N/D	12.88	12.34	12.88	13.45/69	12.17/93	12.33	3/24	N/D	N/D	N/D
Lancaster	LN-514	1964	32.47	32.23	27.15	31.04	33.27/81	25.02/94	32.00	3/29	DOWN	DOWN	-1.43
Luzerne	LU-294	1994	31.76	31.75	30.73	31.35	33.22/60	29.51/71	31.90	3/18	DOWN	DOWN	-0.41
Lycoming	LY-112	1967	86.56	87.50	86.24	87.47	93.00/69	84.99/71	86.58	3/30	UP	DOWN	0.91
Mifflin	MF-344	1983	48.13	47.31	42.17	48.12	64.43/92	32.75/94	41.25	3/24	DOWN	DOWN	-0.01
Potter	PO-72	1967	16.57	16.33	14.69	16.33	21.65/81	12.05/92	10.56	3/30	DOWN	DOWN	-0.24
Snyder	SN-130	1968	18.56	18.74	18.29	18.50	18.97/90	17.57/94	18.88	3/30	UP	DOWN	-0.06
Sullivan	SU-34	1965	25.23	25.70	23.60	24.89	28.29/69	22.15/94	25.49	3/30	UP	DOWN	-0.34
Susquehanna	SQ-61	1972	29.37	29.36	29.61	28.06	31.37/81	25.13/90	29.04	3/30	DOWN	UP	-1.31
Tioga	TI-100	1972	30.17	30.77	31.70	32.51	34.41/89	30.17/99	29.83	3/28	UP	UP	2.34
Union	UN-51	1967	39.26	N/D	31.92	36.84	40.52/69	31.92/98	38.10	3/30	N/D	DOWN	-2.42

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.

NOTES:

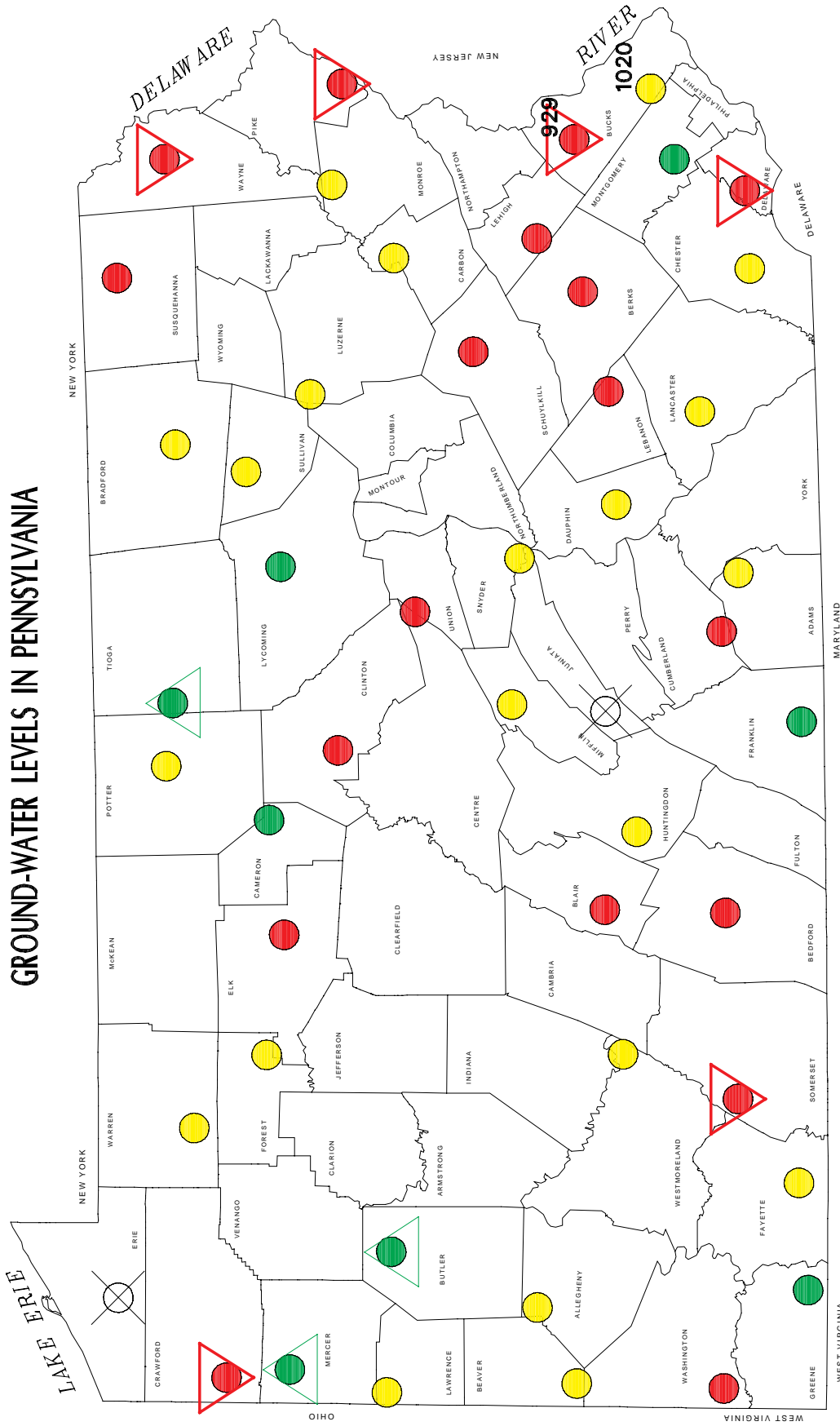
- 1) Continuous water-level records for wells CE-118 (Centre County) and PH-12 (Philadelphia County) are being collected but are not reported in the monthly summary because they are not used for drought monitoring.
- 2) Well MG-917 is not shown on map because insufficient years of record have been collected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



MARCH 1999

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.

