

## WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK JANUARY 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	6.98	7.51	6.06	6.72	7.89/69	5.20/91	6.30	1/27	UP	DOWN	-0.26
Beaver	BV-156	1967	8.82	9.22	8.56	8.84	9.76/73	8.00/91	8.10	1/20	UP	DOWN	0.02
Butler	BT-311	1970	16.99	26.86	3.46	7.13	19.78/77	2.93/93	4.80	1/20	UP	DOWN	-9.86
Crawford	CW-413	1967	56.39	N/D	51.21	48.47*	56.39/99*	41.53/82*	53.60	1/20	N/D	DOWN	-7.92*
Elk	EK-108	1975	7.49**	7.87**	5.65**	4.54	8.95/97**	2.50/91	7.00**	1/20	UP	DOWN	-2.95**
Erie	ER-82	1966	21.81	23.88	17.86	18.52*	21.81/99*	17.44/87*	20.44	1/26	UP	DOWN	-3.29*
Fayette	FA-17	1968	23.67	23.90	20.62	22.15	23.67/99	20.38/71	22.79	1/21	UP	DOWN	-1.52
Forest	FO-11	1974	8.95	9.46	8.13	8.88	9.64/83	8.13/98	8.71	1/21	UP	DOWN	-0.07
Green	GR-118	1973	44.58	N/D	26.09	31.66	44.58/99	23.06/94	27.53	1/20	N/D	DOWN	-12.92
Lawrence	LA-1201	1967	17.05	18.86	15.19	16.10	18.53/92	14.50/74	14.76	1/27	UP	DOWN	-0.95
Mercer	MR-1364	1964	2.57	1.70	3.44	3.89	5.49/81	2.57/99+	1.66	1/23	DOWN	UP	1.32
Somerset	SO-2	1937	42.42	37.29	33.49	33.39*	42.42/99*	32.50/97*	40.35	1/24	DOWN	DOWN	-9.03*
Warren	WR-50	1972	43.84	44.00	40.54	42.42	44.37/77	40.02/91	43.53	1/27	UP	DOWN	-1.42
Washington	WS-155	1971	36.27	36.57	35.79	35.20	36.27/99	33.56/79	34.54	1/20	UP	DOWN	-1.07
Westmoreland	WE-300	1968	18.39	N/D	15.31	16.98	19.29/69	14.33/91	18.00	1/15	N/D	DOWN	-1.41
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	139.43	139.50	138.91	133.78	139.80/81	119.80/97	136.90	1/27	UP	DOWN	-5.65
Bucks	BK-929	1967	49.19	50.04	45.63	43.62*	49.19/99*	41.80/87*	47.51	1/26	UP	DOWN	-5.57*
Bucks	BK-1020	1975	39.74	41.01	34.99	32.68	40.25/81	27.48/91	35.59	1/27	UP	DOWN	-7.06
Carbon	CB-104	1969	56.95	76.39	38.05	46.74	89.67/81	30.56/79	23.28	1/27	UP	DOWN	-10.21
Chester	CH-10	1966	13.69	14.97	13.64	12.47	15.02/81	9.60/97	12.02	1/27	UP	DOWN	-1.22
Delaware	DE-723	1983	7.51	8.29	7.03	6.41	7.51/99	4.70/97	6.95	1/26	UP	DOWN	-1.10
Lebanon	LB-372	1973	8.79	10.81	9.81	8.68	11.23/81	6.66/78	6.65	1/27	UP	UP	-0.11
Lehigh	LE-644	1971	77.36	79.33	73.74	62.06	91.18/71	40.97/78	70.23	1/27	UP	DOWN	-15.30
Monroe	MO-190	1968	13.40	14.28	9.21	10.42	15.81/81	8.88/78	9.73	1/27	UP	DOWN	-2.98
Montgomery	MG-225	1956	16.65	18.38	13.80	28.18	54.12/66	13.30/96	14.36	1/27	UP	DOWN	11.53
Montgomery	MG-917	1997	11.29	12.06	8.87	N/D	N/D	N/D	9.95	1/26	UP	DOWN	N/D
Pike	PI-200	1981	88.94	95.32	65.69	45.82	88.94/99	32.69/82	69.80	1/27	UP	DOWN	-43.12
Schuylkill	SC-296	1975	50.77	55.18	42.97	45.92	55.22/81	38.59/91	38.00	1/27	UP	DOWN	-4.85
Wayne	WN-64	1968	N/D	N/D	25.73	25.30*	27.50/92*	22.99/91*	28.27	1/27	N/D	N/D	N/D

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.

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Observation wells in the Susquehanna River Basin													
Adams	AD-146	1968	11.95	12.67	11.51	11.80	12.84/81	11.35/90	11.59	1/27	UP	DOWN	-0.15
Bedford	BD-150	1965	32.36	30.30	12.04	19.45	40.58/66	5.56/97	31.95	1/24	DOWN	DOWN	-12.91
Blair	BA-74	1969	17.75	17.81	13.87	12.64	17.75/99	10.90/91	16.52	1/25	UP	DOWN	-5.11
Bradford	BR-92	1966	10.56	N/D	6.04	8.04	11.20/81	4.41/78	7.04	1/27	N/D	DOWN	-2.52
Cameron	CM-13	1967	23.43	23.74	22.89	23.16	24.24/73	22.35/93	22.95	1/27	UP	DOWN	-0.27
Clinton	CN-1	1950	N/D	53.54	47.38	49.42	52.46/81	47.38/98	53.67	1/11	N/D	N/D	N/D
Cumberland	CU-2	1951	NDR	30.57	17.91	22.56	30.89/66	13.36/78	NDR	NDR	NDR	NDR	NDR
Dauphin	DA-350	1964	5.10	5.81	4.19	4.64	5.76/81	3.69/91	4.43	1/27	UP	DOWN	-0.46
Franklin	FR-332	1975	20.47	27.21	16.97	26.36	32.52/81	16.16/97	15.07	1/27	UP	DOWN	5.89
Huntingdon	HU-301	1969	54.62	54.77	52.69	53.56	55.41/81	51.79/74	54.17	1/20	UP	DOWN	-1.06
Juniata	JU-351	1968	N/D	14.47	12.54	13.23	14.17/81	12.54/98	11.95	1/25	N/D	N/D	N/D
Lancaster	LN-514	1964	32.88	33.32	32.10	31.84	33.40/81	27.45/74	30.13	1/25	UP	DOWN	-1.04
Luzerne	LU-294	1994	35.06	35.74	31.63	32.16	35.32/81	29.88/79	33.20	1/21	UP	DOWN	-2.90
Lycoming	LY-112	1967	93.76	95.88	86.51	88.37	93.76/99	85.55/79	87.49	1/27	UP	DOWN	-5.39
Mifflin	MF-344	1983	69.75	69.71	45.05	54.56	75.94/92	44.00/91	33.22	1/25	DOWN	DOWN	-15.19
Potter	PO-72	1967	22.28	28.47	16.60	19.30	27.05/81	14.38/69	12.62	1/27	UP	DOWN	-2.98
Snyder	SN-130	1968	19.11	19.55	17.94	18.74	19.38/81	17.94/98	18.26	1/27	UP	DOWN	-0.37
Sullivan	SU-34	1965	27.00	29.54	23.40	26.12	29.14/81	23.40/98	22.53	1/27	UP	DOWN	-0.88
Susquehanna	SQ-61	1972	31.15	33.46	29.13	29.49	36.46/81	26.07/91	29.37	1/27	UP	DOWN	-1.66
Tioga	TI-100	1972	33.08	33.06	32.01	32.99	34.57/89	31.88/91	31.89	1/22	DOWN	DOWN	-0.09
Union	UN-51	1967	42.23	42.10	35.28	38.02	42.23/99	35.28/98	41.81	1/27	DOWN	DOWN	-4.21

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### NOTES:

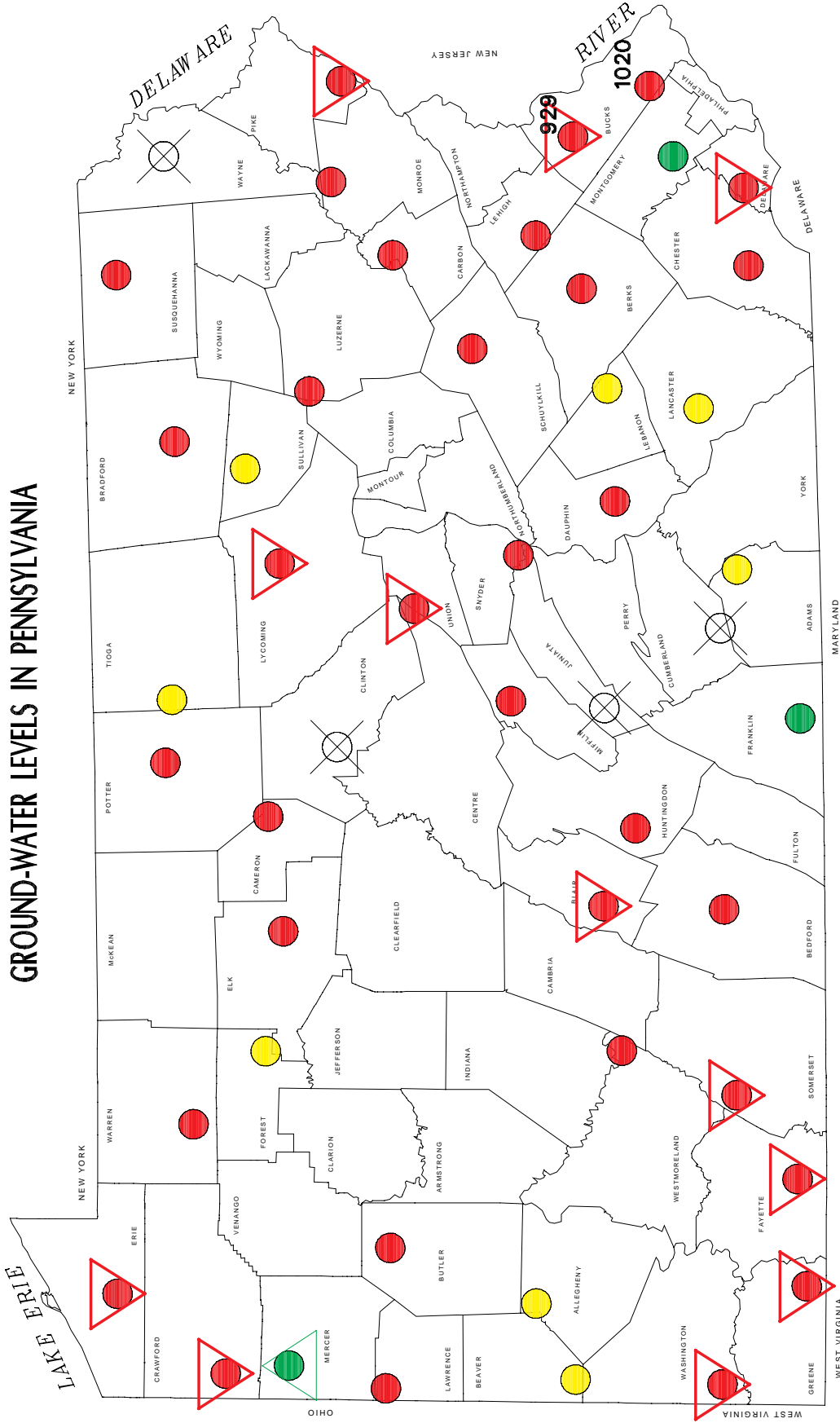
- 1) Continuous water-level records for wells CE-118 (Centre County) and PH-12 (Philadelphia County) are being collected but are not reported in the monthly summary because they are not used for drought monitoring.
- 2) Well MG-917 is not shown on map because insufficient years of record have been collected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



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

## JANUARY 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.