



Monthly Ground-Water Conditions in Pennsylvania

April 1999

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U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
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WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK APRIL 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	6.13	6.28	5.49	5.90	7.17/69	5.27/88	5.82	4/29	UP	DOWN	-0.23
Beaver	BV-156	1967	8.21	8.26	7.98	8.53	9.87/68	7.81/94	8.03	4/21	UP	DOWN	0.32
Butler	BT-311	1970	2.72	2.84	3.16	4.88	12.00/71	2.70/94	2.33	4/20	UP	UP	2.16
Crawford	CW-413	1967	49.94	51.20	48.65	47.58*	49.94/99*	44.97/91*	49.00	4/19	UP	DOWN	-2.36*
Elk	EK-108	1975	5.41**	5.98**	4.91	3.80	6.21/97**	2.47/91	5.00**	4/20	UP	DOWN	-1.61**
Erie	ER-82	1966	N/D	19.24	19.07	18.53*	19.54/91*	17.42/87*	18.97	4/22	N/D	N/D	N/D
Fayette	FA-17	1968	20.10	21.12	21.16	22.26	23.18/77	20.10/99	20.24	4/26	UP	UP	2.16
Forest	FO-11	1974	8.26	8.51	7.91	8.50	9.20/76	7.67/94	8.03	4/21	UP	DOWN	0.24
Green	GR-118	1973	22.91	23.10	26.00	31.16	35.55/88	22.91/99	22.42	4/21	UP	UP	8.25
Lawrence	LA-1201	1967	15.78	15.72	15.10	15.79	19.04/86	14.28/78	15.72	4/29	DOWN	DOWN	0.01
Mercer	MR-1364	1964	2.28+	2.16+	0.98	3.78	5.06/82	0.98/98	1.62+	4/21	DOWN	DOWN	1.50
Somerset	SO-2	1937	36.29	40.34	32.86	32.81*	36.29/99*	32.11/94*	35.03	4/22	UP	DOWN	-3.48*
Warren	WR-50	1972	41.36	42.34	39.81	41.18	42.40/77	39.73/91	40.68	4/29	UP	DOWN	-0.18
Washington	WS-155	1971	35.95	35.58	36.03	35.08	36.03/98	33.93/74	35.59	4/21	DOWN	UP	-0.87
Westmoreland	WE-300	1968	15.16	16.28	14.22	15.64	20.32/68	14.01/91	14.11	4/16	UP	DOWN	0.48
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	134.97	135.99	130.46	126.23	138.30/81	110.80/94	135.15	4/29	UP	DOWN	-8.74
Bucks	BK-929	1967	44.52	45.81	41.67	41.54*	44.52/99*	39.92/91*	43.97	4/25	UP	DOWN	-2.98*
Bucks	BK-1020	1975	28.58	29.00	27.10	29.52	35.77/85	26.27/83	29.81	4/29	UP	DOWN	0.94
Carbon	CB-104	1969	42.93	40.15	36.23	37.32	50.27/95	23.38/93	45.76	4/29	DOWN	DOWN	-5.61
Chester	CH-10	1966	11.81	11.73	10.83	11.55	14.16/66	9.57/84	12.29	4/29	DOWN	DOWN	-0.26
Delaware	DE-723	1983	6.84	6.94	6.39	5.73	6.99/95	3.87/93	6.91	4/26	UP	DOWN	-1.11
Lebanon	LB-372	1973	9.02	8.53	7.33	7.88	9.73/81	6.33/93	9.44	4/29	DOWN	DOWN	-1.14
Lehigh	LE-644	1971	67.72	69.03	54.90	52.98	76.49/81	35.85/94	68.15	4/29	UP	DOWN	-14.74
Monroe	MO-190	1968	9.13	8.92	8.15	8.67	10.29/85	7.45/83	9.64	4/29	DOWN	DOWN	-0.46
Montgomery	MG-225	1956	12.78	13.12	11.77	22.53	41.21/66	11.55/96	13.34	4/25	UP	DOWN	9.75
Montgomery	MG-917	1997	8.70	8.71	8.26	N/D	N/D	N/D	8.79	4/25	UP	DOWN	N/D
Pike	PI-200	1981	68.38	69.64	67.79	44.65	68.38/99	28.53/83	64.79	4/29	UP	DOWN	-23.73
Schuylkill	SC-296	1975	47.46	45.89	43.57	42.23	49.82/95	36.77/84	48.27	4/29	DOWN	DOWN	-5.23
Wayne	WN-64	1968	26.24	27.16	22.90	23.19*	26.24/99*	21.77/94*	26.06	4/29	UP	DOWN	-3.05*

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	11.55	11.51	11.64	11.67	12.01/71	11.27/73	11.80	4/29	DOWN	UP	0.12
Bedford	BD-150	1965	21.28	29.69	2.26	9.35	34.53/66	0.33/84	16.97	4/25	UP	DOWN	-11.93
Blair	BA-74	1969	13.12	14.23	12.62	11.75	14.39/71	10.22/83	12.90	4/28	UP	DOWN	-1.37
Bradford	BR-92	1966	6.71	6.95	4.21	5.82	9.81/81	2.36/93	7.19	4/29	UP	DOWN	-0.89
Cameron	CM-13	1967	22.23	22.40	22.71	22.81	23.85/81	18.59/93	22.39	4/29	UP	UP	0.58
Clinton	CN-1	1950	47.94	49.80	46.31	47.66	49.86/81	45.20/94	47.80	4/29	UP	DOWN	-0.28
Cumberland	CU-2	1951	21.01	24.95	12.21	15.04	21.63/92	9.64/93	19.81	4/28	UP	DOWN	-5.97
Dauphin	DA-350	1964	4.36	4.41	4.11	4.31	4.92/71	3.80/83	4.62	4/29	UP	DOWN	-0.05
Franklin	FR-332	1975	17.11	17.24	16.21	24.21	29.78/88	16.21/98	17.42	4/29	UP	DOWN	7.10
Huntingdon	HU-301	1969	52.48	52.93	52.52	53.08	54.17/86	51.55/87	52.35	4/29	UP	UP	0.60
Juniata	JU-351	1968	12.64	N/D	12.40	12.82	13.34/71	11.92/94	12.62	4/28	N/D	DOWN	0.18
Lancaster	LN-514	1964	32.54	32.47	27.99	30.22	33.22/69	22.47/93	32.63	4/26	DOWN	DOWN	-2.32
Luzerne	LU-294	1994	32.16	31.76	31.22	30.91	32.88/56	28.45/93	32.98	4/30	DOWN	DOWN	-1.25
Lycoming	LY-112	1967	87.95	86.56	86.55	87.24	89.23/88	85.05/80	88.96	4/29	DOWN	DOWN	-0.71
Mifflin	MF-344	1983	51.84	48.13	44.20	47.12	57.61/90	27.31/93	54.26	4/28	DOWN	DOWN	-4.72
Potter	PO-72	1967	14.20	16.57	14.83	15.31	19.82/85	10.28/93	17.29	4/29	UP	UP	1.11
Snyder	SN-130	1968	18.89	18.56	18.39	18.66	19.12/81	17.83/93	19.00	4/29	DOWN	DOWN	-0.23
Sullivan	SU-34	1965	25.71	25.23	24.86	25.18	27.32/88	21.52/93	26.43	4/29	DOWN	DOWN	-0.53
Susquehanna	SQ-61	1972	28.97	29.37	29.08	27.26	31.58/81	24.52/87	28.98	4/29	UP	UP	-1.71
Tioga	TI-100	1972	30.02	30.17	31.57	32.24	33.79/89	30.02/99	30.05	4/22	UP	UP	2.22
Union	UN-51	1967	34.65	39.26	34.86	34.86	38.44/81	29.52/94	35.86	4/28	UP	UP	0.21

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NOTES:

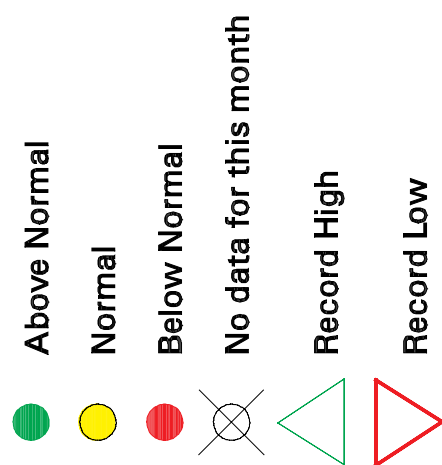
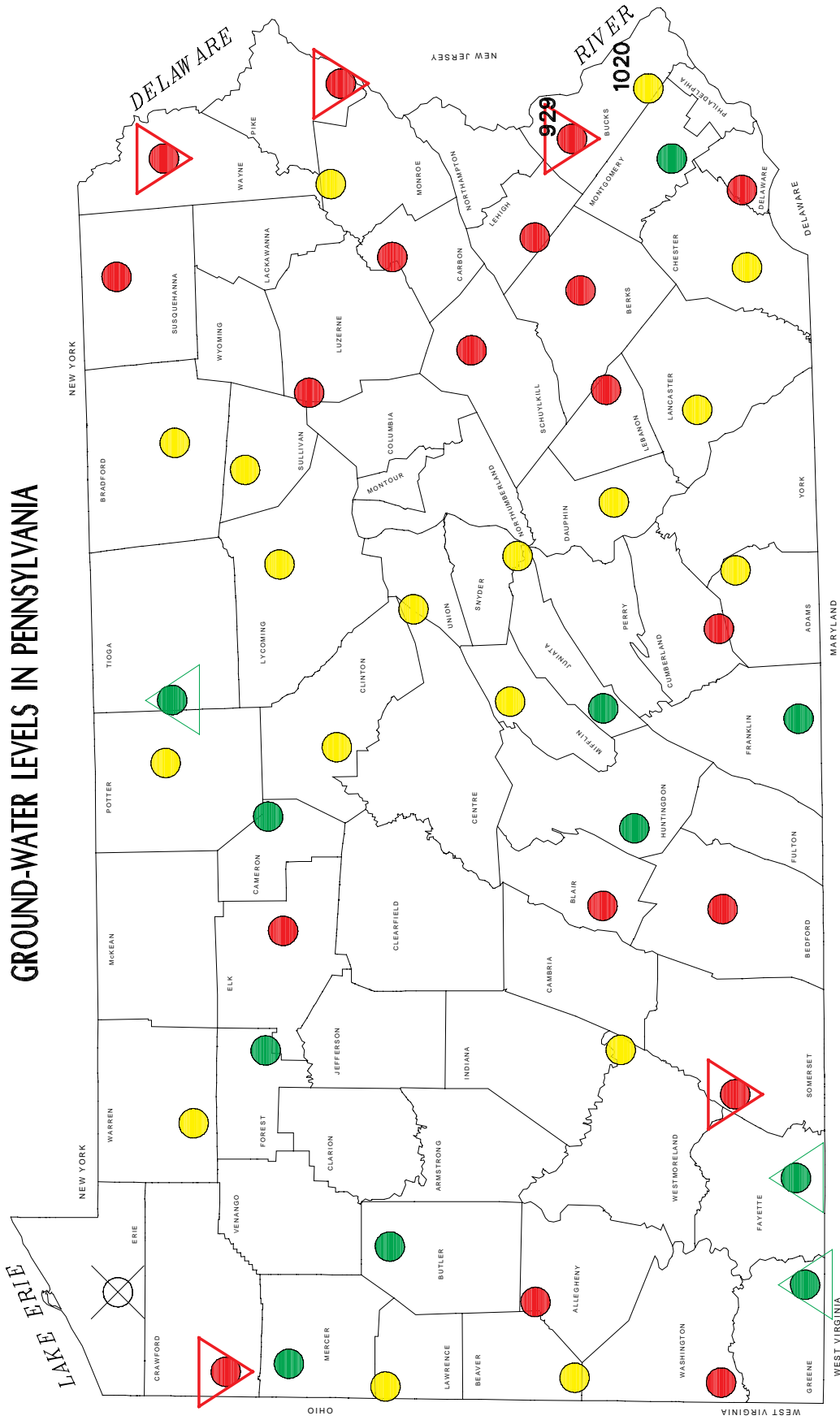
- 1) Continuous water-level records for wells CE-118 (Centre County) and PH-12 (Philadelphia County) are being collected but are not reported in the monthly summary because they are not used for drought monitoring.
- 2) Well MG-917 is not shown on map because insufficient years of record have been collected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

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GROUND-WATER LEVELS IN PENNSYLVANIA



APRIL 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.