Monthly Ground-Water Conditions in Pennsylvania

January 2000

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

WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK
JANUARY 2000

County	Well number	Year record began	Mean depth to water below land surface, 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	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
Observation wells in the Ohio River Basin													
Allegheny	AG-700	1967	7.17	7.39	6.91	6.72	7.89/69	5.20/91	7.39	1/27	UP	DOWN	-.45
Beaver	BV-156	1967	8.88	9.17	8.46	8.82	9.76/73	8.00/91	8.86	1/24	UP	DOWN	-.06
Butler	BT-311	1970	10.98	N/D	12.80	7.39	19.78/77	2.93/93	6.08	1/ 19	N/D	UP	-3.59
Crawford	CW-413	1967	51.90	53.36	56.07	49.05*	56.07/99*	41.53/82*	50.27	1/ 20	UP	UP	-2.85*
Elk	EK-108	1975	6.45**	N/D**	7.14	4.69	8.95/97**	2.50/91	6.15**	1/ 26	N/D	UP	-1.76
Erie	ER-82	1966	18.49	19.13	21.09	18.68*	21.09/99*	17.44/87*	18.57	1/ 23	UP	UP	.19*
Fayette	FA-17	1968	23.63	23.38	23.27	22.19	23.27/99	20.38/71	23.62	1/ 24	DOWN	DOWN	-1.44
Forest	FO-11	1974	8.12	8.23	8.60	8.87	9.64/83	8.13/98	8.27	1/ 22	UP	UP	.75
Green	GR-118	1973	31.09	38.29	44.58	31.61	42.92/88	23.06/94	32.04	1/24	UP	UP	.52
Lawrence	LA-1201	1967	16.23	16.95	16.80	16.12	18.53/92	14.50/74	17.05	1/27	UP	UP	-.11
Mercer	MR-1364	1964	2.01+	1.79+	2.37	3.85	5.49/81	2.37/99	2.14+	1/ 22	DOWN	UP	1.84
Somerset	SO-2	1937	N/D^	37.57^	43.14	34.29*	43.14/99*	32.50/97*	34.87^	1/ 21	N/D	N/D	N/D*
Warren	WR-50	1972	42.22	42.85	43.79	42.48	44.37/77	40.02/91	42.03	1/24	UP	UP	.26
Washington	WS-155	1971	36.35	36.40	35.43	35.23	35.99/83	33.56/79	36.59	1/24	UP	DOWN	-1.12
Westmoreland	WE-300	1968	17.33	18.24	17.85	17.02	19.29/69	14.33/91	17.10	1/ 20	UP	UP	-.31
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	137.79	137.84	139.08	134.10	139.80/81	119.8/97	138.09	1/27	UP	UP	-3.69
Bucks	BK-929	1967	43.73	44.62	49.21	44.08*	49.21/99*	41.80/87*	43.46	1/31	UP	UP	.35*
Bucks	BK-1020	1975	29.94	31.91	39.13	32.99	40.25/81	27.48/91	30.21	1/27	UP	UP	3.05
Carbon	CB-104	1969	46.90	38.55	52.84	46.99	89.67/81	30.56/79	49.34	1/27	DOWN	UP	.09
Chester	CH-10	1966	11.83	11.59	13.51	12.51	15.02/81	9.60/97	12.24	1/27	DOWN	UP	.68
Delaware	DE-723	1983	6.59	6.52	7.46	6.49	7.46/99	4.70/97	6.73	1/31	DOWN	UP	-.10
Lebanon	LB-372	1973	10.01	10.02	8.57	8.68	11.23/81	6.66/78	10.16	1/27	UP	DOWN	-1.33
Lehigh	LE-644	1971	73.19	73.30	76.44	62.57	91.18/71	40.97/78	74.83	1/27	UP	UP	-10.62
Monroe	MO-190	1968	10.41	9.79	12.82	10.50	15.81/81	8.88/78	10.97	1/27	DOWN	UP	.09
Montgomery	MG-225	1956	13.28++	13.01++	16.30	28.03	54.12/66	13.30/96	13.88++	1/31	DOWN	UP	14.75
Montgomery	MG-917	1997	9.23	8.97	11.04	9.96	11.04/99	8.87/98	9.66	1/31	DOWN	UP	.73
Pike	PI-200	1981	71.80	65.47	86.34	48.00	86.34/99	32.69/82	74.43	1/27	DOWN	UP	-23.80
Schuylkill	SC-296	1975	47.57	46.81	49.28	46.07	55.22/81	38.59/91	48.34	1/27	DOWN	UP	-1.50
Wayne	WN-64	1968	26.78	26.69	N/D	25.45*	27.50/92*	22.99/91*	27.08	1/27	DOWN	N/D	-1.33*

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

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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	11.86	11.75	11.96	11.81	12.84/81	11.35/90	11.98	1/27	DOWN	UP	-.05
Bedford	BD-150	1965	30.15	30.12	32.31	19.85	40.58/66	5.56/97	31.12	1/27	DOWN	UP	-10.30
Blair	BA-74	1969	13.72	13.41	17.43	12.81	17.43/99	10.90/91	14.13	1/27	DOWN	UP	-.91
Bradford	BR-92	1966	9.28	9.85	10.14	8.11	11.20/81	4.41/78	9.49	1/27	UP	UP	-1.17
Cameron	CM-13	1967	22.82	22.93	23.14	23.16	24.24/73	22.35/93	22.95	1/27	UP	UP	.34
Clinton	CN-1	1950	50.92	52.29	N/D	49.48	52.46/81	47.38/98	50.74	1/27	UP	N/D	-1.44
Cumberland	CU-2	1951	28.87	29.66	29.90	22.67	30.89/66	13.36/78	28.76	1/28	UP	UP	-6.20
Dauphin	DA-350	1964	4.75	4.79	5.04	4.65	5.76/81	3.69/91	4.96	1/27	UP	UP	-.10
Franklin	FR-332	1975	23.57	24.54	19.80	26.09	32.52/81	16.16/97	24.39	1/27	UP	DOWN	2.52
Huntingdon	HU-301	1969	54.33	54.12	54.20	53.58	55.41/81	51.79/74	54.53	1/27	DOWN	DOWN	-.75
Juniata	JU-351	1968	12.99	12.74	N/D	13.23	14.17/81	12.54/98	13.01	1/27	DOWN	N/D	.24
Lancaster	LN-514	1964	32.96	32.78	32.40	31.86	33.40/81	27.45/74	32.99	1/27	DOWN	DOWN	-1.10
Luzerne	LU-294	1994	32.44	32.95	33.81	32.37	33.81/99	31.63/98	32.36	1/26	UP	UP	-.07
Lycoming	LY-112	1967	103.24^^	102.85^^	92.94	88.53	92.94/99	85.55/79	103.81^^	1/27	DOWN	DOWN	-14.71
Mifflin	MF-344	1983	57.11	53.24	62.85	55.21	75.94/92	44.00/91	58.19	1/26	DOWN	UP	-1.90
Potter	PO-72	1967	17.44	17.10	21.24	19.38	27.05/81	14.38/69	19.93	1/27	DOWN	UP	1.94
Snyder	SN-130	1968	19.05	18.84	19.03	18.75	19.38/81	17.94/98	19.20	1/27	DOWN	DOWN	-.30
Sullivan	SU-34	1965	26.07	25.48	26.61	26.14	29.14/81	23.40/98	27.14	1/27	DOWN	UP	.07
Susquehanna	SQ-61	1972	30.48	30.72	30.96	29.55	36.46/81	26.07/91	30.38	1/27	UP	UP	-.93
Tioga	TI-100	1972	31.41	31.41	32.61	32.98	34.57/89	31.88/91	31.69	1/27	SAME	UP	1.57
Union	UN-51	1967	37.55	36.80	42.17	38.16	42.19/81	35.28/98	38.59	1/27	DOWN	UP	.61

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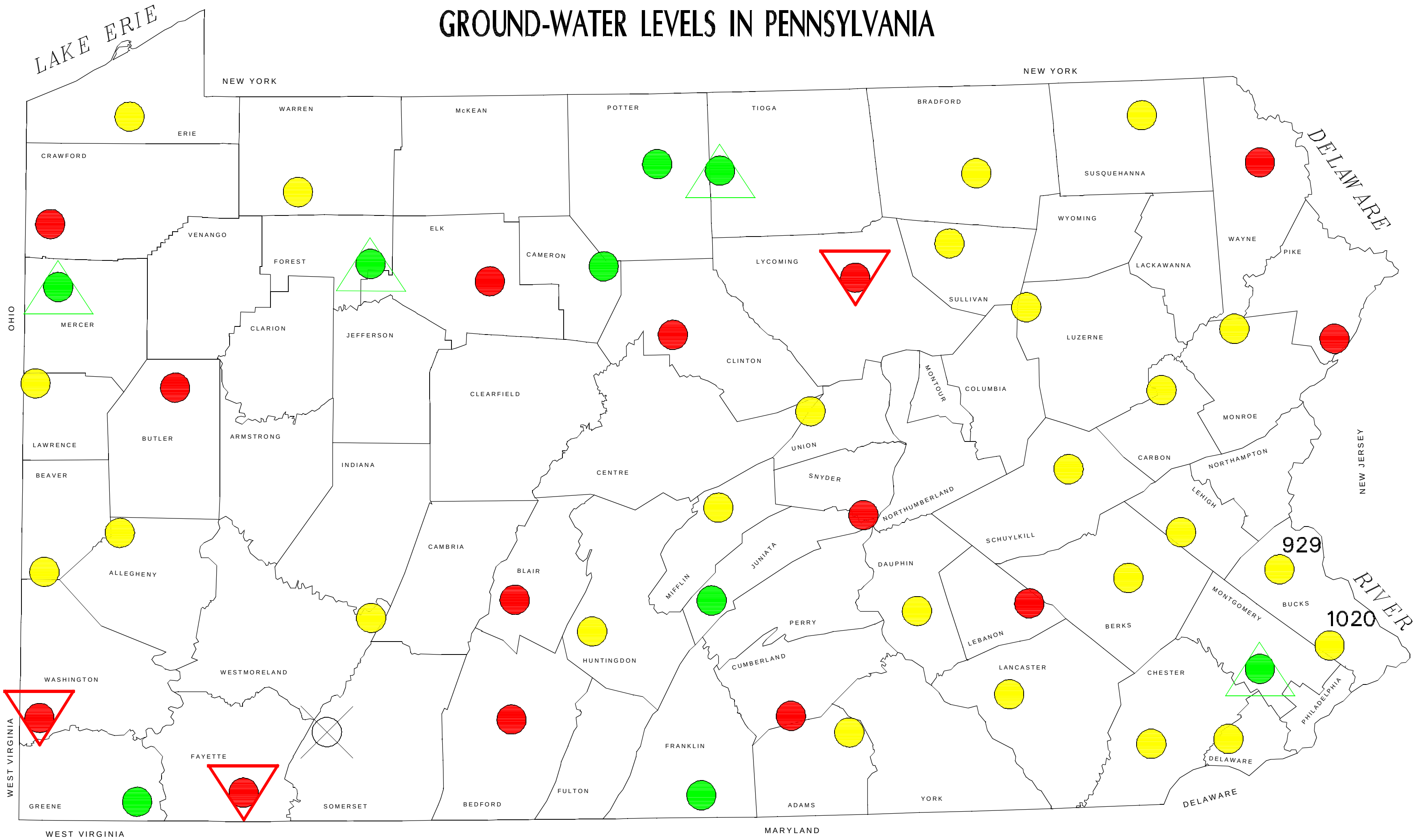
^^ Below normal conditions for well LY-112 are due to installation of nearby well in August 1999.

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 long-term norms.

Questions concerning the ground-water observation wells can be directed to:
Dennis Risser, Ground-Water Program Coordinator, USGS, Lemoyne, PA (717) 730-6911
Marla Stuckey, Hydrologist, USGS, Lemoyne, PA (717) 730-6950

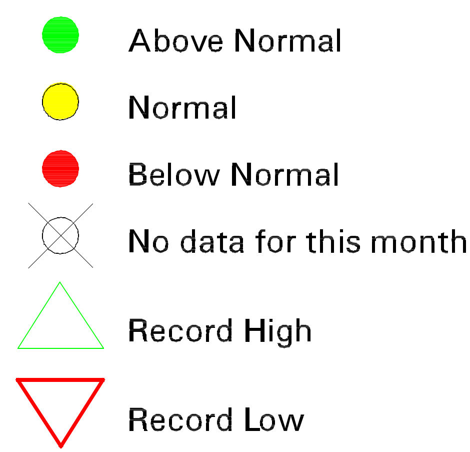
GROUND-WATER LEVELS IN PENNSYLVANIA



JANUARY 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.