



Monthly Ground-Water Conditions in Pennsylvania

September 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
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WATER LEVELS FROM PENNSYLVANIA OBSERVATION-WELL NETWORK September 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	8.13	7.92	7.86	7.60	8.55/69	6.40/90	8.11	9/30	DOWN	DOWN	-0.53
Beaver	BV-156	1967	N/D	8.76	9.84	9.81	11.60/73	8.85/92	9.18	9/25	N/D	N/D	N/D
Butler	BT-311	1970	17.98	8.45	25.01	21.25	29.06/83	6.89/90	18.28	9/20	DOWN	UP	3.27
Crawford	CW-413	1967	52.58	51.32	N/D	52.43*	54.99/83*	45.73/87*	53.11	9/25	DOWN	N/D	-1.15*
Elk	EK-108	1975	6.80	6.29	7.59	5.21	7.59/99	2.75/90	6.70	9/20	DOWN	UP	-1.59
Erie	ER-82	1966	18.96	19.63	23.32	21.24*	24.04/98*	18.63/92*	19.46	9/22	UP	UP	2.28*
Fayette	FA-17	1968	22.55	21.96	23.24	23.18	23.96/93	22.41/96	22.98	9/21	DOWN	UP	.63
Forest	FO-11	1974	9.65	9.33	9.93	10.23	11.84/82	8.74/92	9.75	9/26	DOWN	UP	.58
Green	GR-118	1973	32.07	29.80	47.62	36.10	47.62/99	25.81/96	34.54	9/25	DOWN	UP	4.03
Lawrence	LA-1201	1967	17.99	17.18	18.70	17.59	19.11/95	15.37/75	18.02	9/30	DOWN	UP	-4.0
Mercer	MR-1364	1964	3.77+	3.15+	2.32	4.42	5.72/82	2.32/99	3.75+	9/22	DOWN	DOWN	.65
Somerset	SO-2	1937	35.40^	33.22^	40.11	34.81*	40.11/99*	32.95/96*	36.27^	9/22	DOWN	UP	-5.9*
Warren	WR-50	1972	43.35	42.66	43.80	43.57	44.96/78	41.16/87	43.65	9/30	DOWN	UP	.22
Washington	WS-155	1971	36.58	N/D	37.32	36.28	37.59/71	34.24/75	36.48	9/25	N/D	UP	-3.0
Westmoreland	WE-300	1968	16.34	16.34	18.47	18.43	24.26/68	15.85/90	16.52	9/20	SAME	UP	2.09
Observation wells in the Delaware River Basin													
Berks	BE-623	1975	137.21	135.47	139.02	134.34	139.60/81	123.90/84	137.69	9/30	DOWN	UP	-2.87
Bucks	BK-929	1967	45.24	44.44	48.67	46.60*	48.75/95*	42.62/89*	45.75	9/30	DOWN	UP	1.36*
Bucks	BK-1020	1975	30.33	28.55	33.64	35.79	40.66/85	31.56/94	30.62	9/30	DOWN	UP	5.46
Carbon	CB-104	1969	73.34	65.86	66.73	69.67	83.13/93	29.33/87	75.92	9/30	DOWN	DOWN	-3.67
Chester	CH-10	1966	13.86	13.39	13.61	13.83	15.77/95	11.23/89	13.42	9/30	DOWN	DOWN	-.03
Delaware	DE-723	1983	7.27	7.07	7.15	7.36	8.77/95	6.20/96	6.46	9/27	DOWN	DOWN	.09
Lebanon	LB-372	1973	9.55	9.13	10.34	9.68	10.84/91	8.29/76	9.81	9/30	DOWN	UP	.13
Lehigh	LE-644	1971	72.49	68.41	78.99	65.93	80.01/81	47.39/84	72.25	9/30	DOWN	UP	-6.56
Monroe	MO-190	1968	12.25	10.76	15.77	13.13	16.12/93	9.78/87	12.72	9/30	DOWN	UP	.88
Montgomery	MG-225	1956	14.25++	12.39++	12.67	31.69	58.47/63	12.67/99	13.00++	9/27	DOWN	DOWN	17.44
Montgomery	MG-917	1997	9.26	9.37	10.82	10.58	10.82/99	10.34/97	8.97	9/30	UP	UP	1.32
Pike	PI-200	1981	82.06	77.69	73.31	58.62	96.04/98	36.66/90	66.54	9/30	DOWN	DOWN	-23.44
Schuylkill	SC-296	1975	52.79	50.77	49.98	50.26	55.21/93	39.77/87	53.34	9/30	DOWN	DOWN	-2.53
Wayne	WN-64	1968	27.71	27.59	29.92	27.81*	29.92/99*	25.09/90*	27.33	9/30	DOWN	UP	.10*

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.

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

+ Well MR-1364 was affected by the 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 September 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	12.28	12.70	12.76	12.68	13.70/88	11.66/71	11.63	9/30	UP	UP	0.40
Bedford	BD-150	1965	21.78	19.57	30.79	23.75	36.37/66	11.76/79	23.23	9/25	DOWN	UP	1.97
Blair	BA-74	1969	15.74	14.76	15.60	14.50	17.14/97	11.75/79	15.93	9/26	DOWN	DOWN	-1.24
Bradford	BR-92	1966	11.11	9.66	11.40	10.69	11.90/91	7.89/94	11.39	9/30	DOWN	UP	-0.42
Cameron	CM-13	1967	24.10	23.87	24.54	23.88	25.64/72	21.93/88	23.97	9/30	DOWN	UP	-0.22
Clinton	CN-1	1950	51.77	50.56	53.32	51.07	54.51/65	47.75/90	52.24	9/30	DOWN	UP	-0.70
Cumberland	CU-2	1951	24.88	23.35	29.74	25.94	30.12/66	17.80/96	24.44	9/28	DOWN	UP	1.06
Dauphin	DA-350	1964	5.66	5.68	5.37	5.57	6.38/66	4.62/74	5.58	9/30	UP	DOWN	-0.09
Franklin	FR-332	1975	21.33	20.66	22.47	29.16	35.34/76	16.59/96	21.53	9/30	DOWN	UP	7.83
Huntingdon	HU-301	1969	55.21	54.60	54.82	54.52	55.78/83	53.13/96	55.26	9/30	DOWN	DOWN	-0.69
Juniata	JU-351	1968	13.30	13.19	13.53	14.60	15.35/83	12.36/96	13.49	9/26	DOWN	UP	1.30
Lancaster	LN-514	1964	32.84	33.04	32.72	33.07	33.35/81	32.70/71	32.88	9/25	UP	DOWN	.23
Luzerne	LU-294	1994	33.47	32.58	35.28	35.07	35.94/95	33.89/96	33.86	9/30	DOWN	UP	1.60
Lycoming	LY-112	1967	105.32	104.22	104.64	90.73	104.60/99	86.61/79	105.73	9/30	DOWN	DOWN	-14.59
Mifflin	MF-344	1983	54.86	55.66	57.13	62.93	74.41/83	56.56/97	57.57	9/26	UP	UP	8.07
Potter	PO-72	1967	30.06	29.43	32.34	26.43	32.56/91	17.09/92	29.97	9/30	DOWN	UP	-3.63
Snyder	SN-130	1968	19.15	18.97	18.64	19.08	19.43/83	17.55/68	19.25	9/30	DOWN	DOWN	-0.07
Sullivan	SU-34	1965	29.22	28.28	27.76	28.57	30.34/80	26.14/74	29.47	9/30	DOWN	DOWN	-0.65
Susquehanna	SQ-61	1972	34.83	33.84	34.47	33.80	36.81/82	29.55/94	35.25	9/30	DOWN	DOWN	-1.03
Tioga	TI-100	1972	32.26	31.52	32.71	33.17	34.38/88	31.96/94	32.54	9/30	DOWN	UP	.91
Union	UN-51	1967	40.60	39.88	39.80	40.14	41.51/91	36.10/79	40.88	9/30	DOWN	DOWN	-0.46

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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.

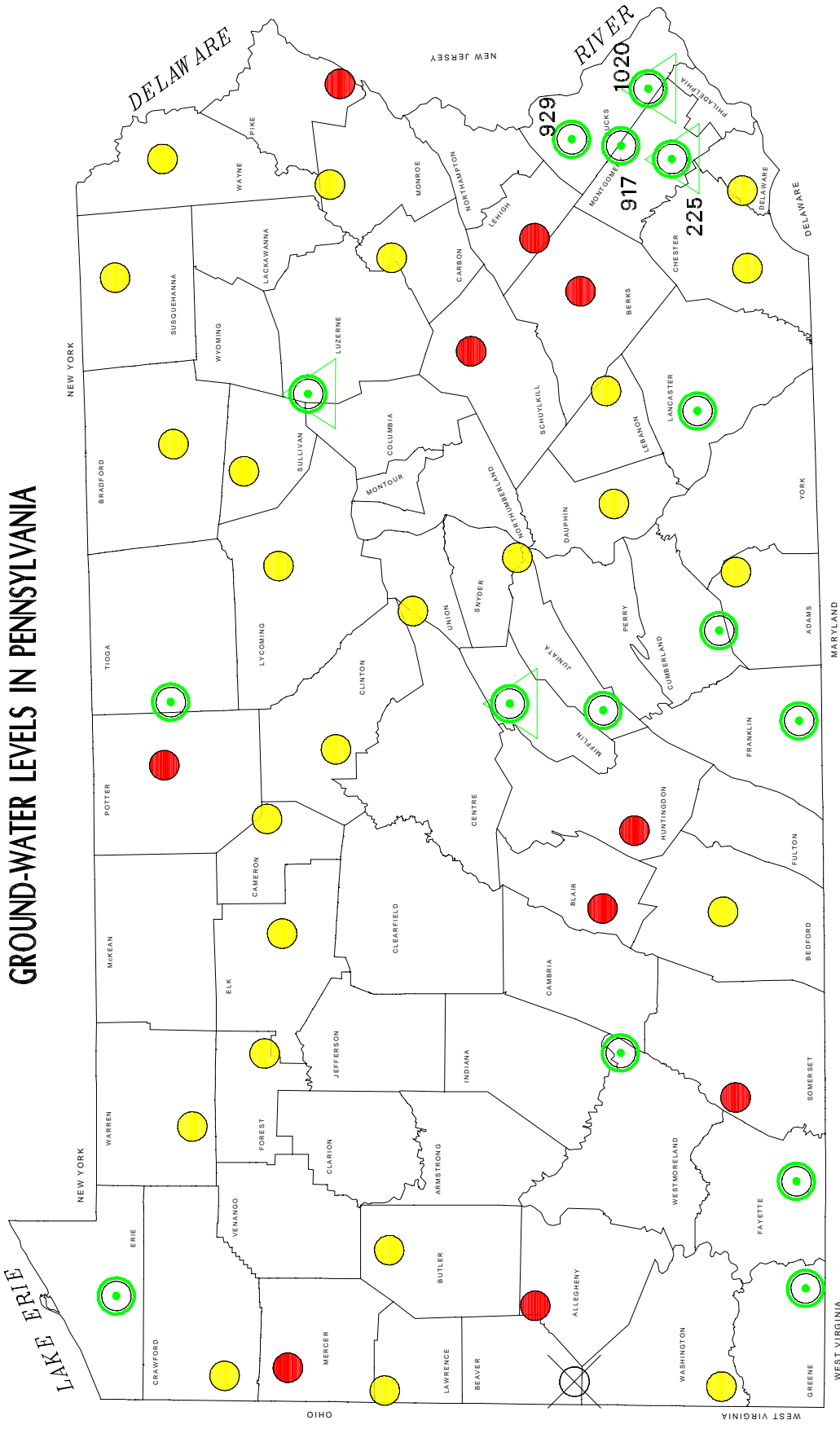
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


- 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:

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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

SEPTEMBER 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.