

Water-Data Report 2013

402643075150501 Local number BK 929

Early Mesozoic basin aquifers
Brunswick Formation

Bucks County, PA

LOCATION.--Lat 40°26'42.4", long 75°15'01.6" referenced to North American Datum of 1983, Bucks County, PA, Hydrologic Unit 02040105, at Nockamixon State Park.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 116 ft. Upper casing diameter 6 in; top of first opening 27 ft, bottom of last opening 116 ft. Drilled observation well.

DATUM.--Land-surface datum is 487 ft above North American Vertical Datum of 1988. Measuring point: top of plywood shelf, 3.00 ft above land-surface datum, Mar. 17, 1980, to present. Prior to Mar 17, 1980, top of casing, 1.05 ft above land-surface datum. Prior to June 1970, land surface datum was approximately 16 feet lower. Elevation of land surface is from Lidar map.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Data collection platform with 60-minute recording interval. Satellite telemetry at station.

COOPERATION.--Site maintained in cooperation with the Pennsylvania Department of Environmental Protection and the U.S. Geological Survey.

REMARKS.--In addition to the daily maximum water level table shown below, daily minimum and mean water levels, since October 1994, are also available from the USGS Pennsylvania Water Science Center Office.

EXTREMES FOR PERIOD OF RECORD.--Prior to October 2000, the extremes were based on extremes of the daily maximum depth below land-surface datum. Since that date, the extremes are based on the instantaneous depth below land-surface datum. Highest water level, 36.87 ft below land-surface datum, Apr 16, 2007; lowest, 59.75 ft below land-surface datum, Nov 26, 1968.

EXTREMES FOR CURRENT YEAR.--Highest recorded water level, 38.47 ft below land surface datum, May 15; lowest recorded water level, 45.32 ft below land surface datum, Oct. 13.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	45.08	44.02	43.93	41.51	40.81	---	---	---	39.24	39.41	39.63	40.49
2	45.11	44.01	43.88	41.57	40.82	---	---	---	39.19	39.52	39.58	40.47
3	---	44.06	43.68	41.57	40.44	---	---	---	39.31	39.57	39.57	40.63
4	---	44.19	43.69	41.43	40.33	---	---	---	39.63	39.54	39.68	40.75
5	---	44.33	43.72	41.56	40.22	---	---	---	39.72	39.45	39.80	40.87
6	45.12	44.19	43.79	41.45	40.58	---	---	---	39.67	39.38	39.91	40.97
7	45.18	43.97	43.69	41.59	40.67	---	---	---	39.55	39.31	39.97	40.86
8	45.29	43.82	43.49	41.58	40.45	---	---	---	39.62	39.30	39.90	40.84
9	45.21	44.00	43.69	41.56	---	---	---	---	39.71	39.32	39.89	40.97
10	45.02	44.10	43.43	41.64	---	---	---	---	39.62	39.26	40.01	40.92
11	45.19	44.12	43.63	41.62	---	---	---	---	39.10	39.23	40.11	40.92
12	45.29	44.05	43.77	41.30	---	---	---	---	38.99	39.44	40.03	40.80
13	45.32	44.28	43.76	41.30	---	---	---	---	38.92	39.64	39.97	40.77
14	45.07	44.21	43.58	41.51	---	---	---	39.06	38.87	39.68	40.20	41.07
15	44.74	44.10	43.47	41.55	---	---	---	38.91	38.95	39.59	40.28	41.16
16	44.82	43.99	43.31	41.42	---	---	---	38.64	38.88	39.57	40.33	41.23
17	44.86	44.09	43.01	41.29	---	---	---	38.92	38.79	39.60	40.43	41.41
18	44.84	44.10	42.78	41.55	---	---	---	39.00	38.77	39.52	40.43	41.37
19	44.73	43.97	43.12	41.43	---	---	---	38.98	39.03	39.56	40.31	41.19
20	44.66	43.66	43.13	40.98	---	---	---	38.87	39.16	39.72	40.40	41.14
21	44.77	43.70	42.53	40.99	---	---	---	38.73	39.18	39.66	40.47	41.10
22	44.81	43.72	42.52	41.06	---	---	---	38.72	39.13	39.67	40.36	41.17
23	44.73	43.59	42.54	41.04	---	---	---	38.74	39.08	39.50	40.49	41.34
24	44.70	43.44	42.45	41.15	---	---	---	38.91	39.04	39.56	40.72	41.34
25	44.74	43.53	42.40	41.15	---	---	---	38.98	38.97	39.66	40.77	41.30
26	44.67	43.77	42.38	41.08	---	---	---	39.17	38.96	39.64	40.66	41.46
27	44.55	43.79	41.85	41.20	---	---	---	39.28	38.92	39.57	40.44	41.64
28	44.38	43.83	41.98	41.15	---	---	---	39.23	38.81	39.72	40.44	41.71
29	44.17	43.87	41.86	40.80	---	---	---	39.17	39.04	39.86	40.58	41.66
30	44.05	43.89	41.85	40.75	---	---	---	39.27	39.29	39.82	40.60	41.57
31	44.04	---	41.85	40.51	---	---	---	39.30	---	39.76	40.47	---
Mean	44.83	43.95	43.06	41.30	40.54	---	---	38.99	39.17	39.55	40.21	41.10
Max	45.32	44.33	43.93	41.64	40.82	---	---	39.30	39.72	39.86	40.77	41.71
Min	44.04	43.44	41.85	40.51	40.22	---	---	38.64	38.77	39.23	39.57	40.47

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