Water-Data Report 2010

# 394513074280601 Local number 050630 Penn SF Deep Obs

Northern Atlantic Coastal Plain aquifer system
Cohansey Sand-Kirkwood Formation

Burlington County, NJ

LOCATION.--Lat 39°45′13″, long 74°28′06″ referenced to North American Datum of 1927, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, about 800 ft south of the intersection of Sooy Rd. and Chatsworth Rd., Penn State Forest.

## GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 41 ft. Upper casing diameter 6 in; top of first opening 41 ft. Drilled water-table well.

DATUM.--Land-surface datum is 104.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of base of locking cap, 1.68 ft above land-surface datum, Sep 1, 2004, to present.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Submersible logger pressure transducer--60 minute recording interval. Periodic measurements, October 1991 to April 2001. Water-level recorder, August 1990 to October 1991. Periodic measurements, February 1982 to August 1990. Water-level recorder, November 1977 to February 1982. Periodic measurements, July 1970 to November 1977. Water-level recorder, August 1963 to July 1970. Periodic measurements, January 1951 to August 1963.

REMARKS.--Well depth was 30 ft before deepening in July 1963.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.73 ft below land surface, Apr 9-10, 2010; lowest, 30.06 ft below land surface, Oct 24-26, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level, 21.73 ft below land surface datum, Apr 9, 10; lowest water level, 28.26 ft below land surface datum, Oct 26, 27.

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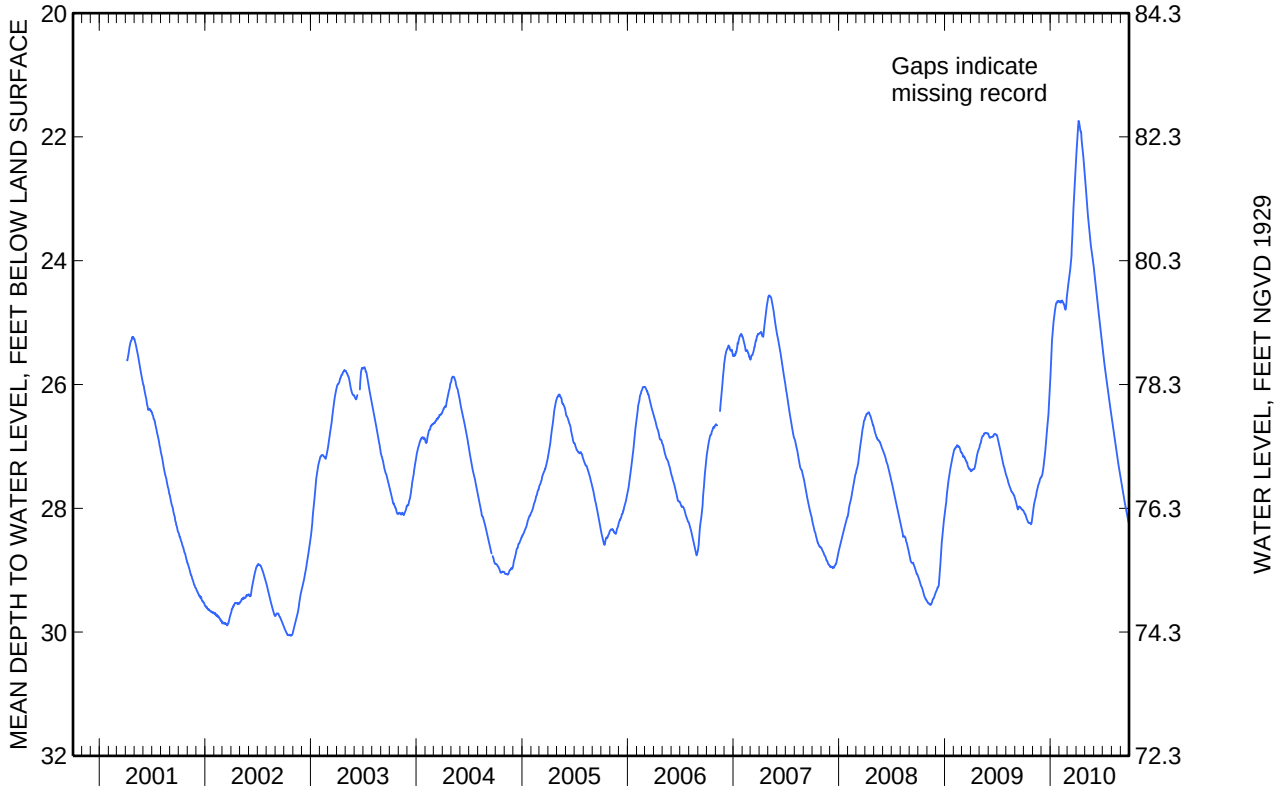
**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 28.05 | 28.10 | 27.49 | 25.88 | 24.66 | 24.51 | 22.28 | 22.66 | 24.14 | 25.41 | 26.53 | 27.50 |
| 2 | 28.06 | 28.06 | 27.49 | 25.77 | 24.66 | 24.47 | 22.21 | 22.72 | 24.18 | 25.45 | 26.56 | 27.53 |
| 3 | 28.07 | 28.02 | 27.47 | 25.67 | 24.66 | 24.42 | 22.13 | 22.78 | 24.22 | 25.50 | 26.60 | 27.55 |
| 4 | 28.08 | 27.99 | 27.46 | 25.57 | 24.67 | 24.38 | 22.05 | 22.83 | 24.26 | 25.54 | 26.63 | 27.58 |
| 5 | 28.09 | 27.96 | 27.43 | 25.48 | 24.68 | 24.34 | 21.98 | 22.90 | 24.30 | 25.57 | 26.65 | 27.61 |
| 6 | 28.10 | 27.93 | 27.41 | 25.39 | 24.65 | 24.31 | 21.90 | 22.95 | 24.34 | 25.62 | 26.69 | 27.65 |
| 7 | 28.10 | 27.91 | 27.38 | 25.30 | 24.65 | 24.28 | 21.83 | 23.02 | 24.40 | 25.66 | 26.72 | 27.68 |
| 8 | 28.12 | 27.88 | 27.35 | 25.22 | 24.66 | 24.23 | 21.77 | 23.06 | 24.45 | 25.70 | 26.76 | 27.71 |
| 9 | 28.13 | 27.87 | 27.31 | 25.16 | 24.67 | 24.20 | 21.74 | 23.12 | 24.50 | 25.74 | 26.79 | 27.74 |
| 10 | 28.14 | 27.85 | 27.26 | 25.10 | 24.65 | 24.17 | 21.75 | 23.21 | 24.54 | 25.78 | 26.83 | 27.77 |
| 11 | 28.16 | 27.83 | 27.23 | 25.04 | 24.64 | 24.14 | 21.78 | 23.28 | 24.59 | 25.82 | 26.86 | 27.80 |
| 12 | 28.18 | 27.81 | 27.19 | 24.99 | 24.66 | 24.11 | 21.80 | 23.33 | 24.63 | 25.86 | 26.90 | 27.83 |
| 13 | 28.19 | 27.78 | 27.15 | 24.94 | 24.67 | 24.06 | 21.84 | 23.39 | 24.67 | 25.90 | 26.93 | 27.86 |
| 14 | 28.20 | 27.76 | 27.09 | 24.90 | 24.67 | 23.98 | 21.88 | 23.44 | 24.70 | 25.94 | 26.97 | 27.88 |
| 15 | 28.21 | 27.73 | 27.04 | 24.87 | 24.69 | 23.89 | 21.90 | 23.48 | 24.75 | 25.97 | 27.00 | 27.91 |
| 16 | 28.22 | 27.71 | 26.99 | 24.84 | 24.70 | 23.80 | 21.91 | 23.54 | 24.79 | 26.00 | 27.03 | 27.94 |
| 17 | 28.23 | 27.69 | 26.94 | 24.80 | 24.70 | 23.70 | 21.91 | 23.59 | 24.83 | 26.02 | 27.06 | 27.96 |
| 18 | 28.23 | 27.67 | 26.89 | 24.76 | 24.71 | 23.59 | 21.96 | 23.63 | 24.87 | 26.05 | 27.10 | 27.99 |
| 19 | 28.24 | 27.65 | 26.82 | 24.73 | 24.74 | 23.48 | 22.02 | 23.66 | 24.92 | 26.09 | 27.13 | 28.01 |
| 20 | 28.24 | 27.63 | 26.76 | 24.71 | 24.76 | 23.38 | 22.08 | 23.69 | 24.96 | 26.12 | 27.15 | 28.03 |
| 21 | 28.24 | 27.62 | 26.71 | 24.70 | 24.78 | 23.28 | 22.14 | 23.73 | 25.00 | 26.16 | 27.19 | 28.05 |
| 22 | 28.24 | 27.60 | 26.67 | 24.68 | 24.79 | 23.18 | 22.17 | 23.77 | 25.04 | 26.19 | 27.22 | 28.08 |
| 23 | 28.24 | 27.59 | 26.62 | 24.68 | 24.79 | 23.05 | 22.23 | 23.81 | 25.09 | 26.22 | 27.24 | 28.10 |
| 24 | 28.24 | 27.58 | 26.57 | 24.68 | 24.76 | 22.94 | 22.31 | 23.85 | 25.13 | 26.26 | 27.27 | 28.12 |
| 25 | 28.25 | 27.56 | 26.53 | 24.66 | 24.71 | 22.85 | 22.35 | 23.89 | 25.17 | 26.29 | 27.29 | 28.14 |
| 26 | 28.26 | 27.54 | 26.47 | 24.65 | 24.64 | 22.75 | 22.37 | 23.92 | 25.21 | 26.33 | 27.32 | 28.17 |
| 27 | 28.25 | 27.52 | 26.36 | 24.65 | 24.60 | 22.71 | 22.40 | 23.95 | 25.25 | 26.37 | 27.35 | 28.19 |
| 28 | 28.24 | 27.51 | 26.26 | 24.66 | 24.55 | 22.66 | 22.46 | 23.99 | 25.29 | 26.40 | 27.38 | 28.21 |
| 29 | 28.22 | 27.51 | 26.17 | 24.66 | --- | 22.57 | 22.53 | 24.03 | 25.32 | 26.43 | 27.41 | 28.23 |
| 30 | 28.18 | 27.50 | 26.08 | 24.66 | --- | 22.46 | 22.60 | 24.06 | 25.37 | 26.47 | 27.44 | 28.25 |
| 31 | 28.14 | --- | 25.98 | 24.65 | --- | 22.35 | --- | 24.11 | --- | 26.50 | 27.47 | --- |
| Mean | 28.18 | 27.75 | 26.92 | 24.98 | 24.68 | 23.62 | 22.08 | 23.46 | 24.76 | 25.98 | 27.02 | 27.90 |
| Max | 28.26 | 28.10 | 27.49 | 25.88 | 24.79 | 24.51 | 22.60 | 24.11 | 25.37 | 26.50 | 27.47 | 28.25 |
| Min | 28.05 | 27.50 | 25.98 | 24.65 | 24.55 | 22.35 | 21.74 | 22.66 | 24.14 | 25.41 | 26.53 | 27.50 |

| | Water Year 2010 |
|---|---|
| Mean | 25.62 |
| High | 21.74 |
| Low | 28.26 |

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