

NORTHAMPTON COUNTY

404745075184001. Local number, NP 820.

LOCATION.--Lat 40°47'45", long 75°18'40", Hydrologic Unit 02040105, at 0.75 mi east of Bushkill Center on SR 1010, at Jacobsburg State Park.
 Owner: Jacobsburg State Park.

AQUIFER.--Martinsburg Shale.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 218 ft, cased to 50 ft.

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

DATUM.--Elevation of land-surface datum is 578 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of metal shelf, 3.25 ft above land-surface datum.

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

PERIOD OF RECORD.--May 3, 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the instantaneous depth below land surface for the period of record indicated above.

Highest water level, 25.07 ft below land-surface datum, Sept. 21, 2004; lowest, 49.79 ft below land-surface datum, Dec. 8, 2001.

EXTREMES FOR CURRENT YEAR.--Highest water level, 25.07 ft below land-surface datum, Sept. 21; lowest, 46.22 ft below land-surface datum, July 12.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 33.91 | 29.85 | 34.15 | 32.93 | 42.52 | 41.67 | 39.64 | 38.52 | 43.27 | 45.49 | 43.00 | 38.24 |
| 2 | 33.64 | 29.44 | 33.73 | 33.70 | 42.70 | 41.62 | 39.78 | 38.53 | 43.38 | 45.54 | 42.87 | 38.28 |
| 3 | 33.66 | 29.65 | 33.63 | 34.44 | 42.74 | 41.56 | 39.91 | 38.60 | 43.49 | 45.60 | 42.78 | 38.34 |
| 4 | 33.84 | 30.25 | 33.73 | 35.16 | 42.84 | 41.36 | 40.05 | 38.69 | 43.59 | 45.67 | 42.74 | 38.43 |
| 5 | 34.28 | 31.01 | 33.99 | 35.74 | 42.93 | 41.09 | 40.32 | 38.78 | 43.65 | 45.72 | 42.77 | 38.62 |
| 6 | 34.83 | 31.85 | 34.38 | 36.25 | 42.81 | 40.77 | 40.55 | 38.92 | 43.73 | 45.81 | 42.84 | 38.81 |
| 7 | 35.42 | 32.71 | 34.91 | 36.61 | 42.24 | 40.56 | 40.72 | 39.04 | 43.82 | 45.87 | 42.93 | 39.00 |
| 8 | 36.01 | 33.61 | 35.53 | 36.83 | 41.55 | 40.24 | 40.93 | 39.21 | 43.91 | 45.93 | 43.05 | 39.12 |
| 9 | 36.61 | 34.48 | 36.12 | 37.01 | 40.83 | 40.04 | 41.15 | 39.32 | 43.98 | 46.03 | 43.19 | 37.72 |
| 10 | 37.18 | 35.21 | 36.65 | 37.21 | 40.27 | 39.88 | 41.38 | 39.48 | 44.04 | 46.10 | 43.27 | 35.21 |
| 11 | 37.73 | 35.82 | 36.80 | 37.38 | 39.96 | 39.72 | 41.59 | 39.67 | 44.03 | 46.16 | 43.40 | 32.90 |
| 12 | 38.20 | 36.34 | 36.01 | 37.54 | 39.78 | 39.65 | 41.76 | 39.87 | 44.03 | 46.13 | 43.54 | 31.43 |
| 13 | 38.72 | 36.79 | 34.71 | 37.76 | 39.66 | 39.77 | 41.72 | 40.07 | 44.06 | 45.70 | 43.19 | 30.87 |
| 14 | 39.13 | 37.32 | 33.52 | 38.04 | 39.63 | 39.87 | 41.35 | 40.30 | 44.09 | 45.25 | 42.39 | 30.96 |
| 15 | 39.31 | 37.79 | 32.83 | 38.27 | 39.73 | 39.97 | 40.61 | 40.49 | 44.21 | 45.02 | 41.67 | 31.40 |
| 16 | 39.60 | 38.23 | 32.75 | 38.59 | 39.90 | 40.11 | 39.63 | 40.72 | 44.35 | 45.00 | 41.09 | 32.02 |
| 17 | 39.78 | 38.64 | 32.77 | 38.92 | 40.07 | 40.28 | 38.66 | 40.96 | 44.44 | 45.00 | 40.72 | 32.76 |
| 18 | 39.94 | 39.02 | 32.76 | 39.13 | 40.19 | 40.50 | 37.93 | 41.13 | 44.52 | 44.97 | 40.54 | 32.56 |
| 19 | 40.12 | 39.21 | 32.57 | 39.48 | 40.37 | 40.68 | 37.40 | 41.32 | 44.63 | 44.77 | 40.52 | 29.13 |
| 20 | 40.36 | 38.95 | 32.45 | 39.82 | 40.58 | 40.78 | 37.14 | 41.54 | 44.74 | 44.57 | 40.59 | 26.15 |
| 21 | 40.43 | 37.86 | 32.56 | 40.12 | 40.71 | 40.78 | 37.09 | 41.69 | 44.82 | 44.43 | 40.43 | 25.17 |
| 22 | 40.62 | 36.71 | 32.80 | 40.34 | 40.97 | 40.82 | 37.19 | 41.83 | 44.87 | 44.36 | 39.80 | 25.39 |
| 23 | 40.81 | 35.84 | 33.22 | 40.62 | 41.11 | 40.64 | 37.43 | 42.00 | 44.96 | 44.36 | 38.94 | 26.16 |
| 24 | 41.08 | 35.26 | 33.59 | 40.85 | 41.15 | 40.37 | 37.74 | 42.18 | 45.05 | 44.46 | 38.22 | 27.19 |
| 25 | 41.30 | 35.06 | 33.19 | 41.15 | 41.25 | 40.09 | 38.10 | 42.39 | 45.12 | 44.55 | 37.72 | 28.31 |
| 26 | 41.44 | 35.14 | 32.13 | 41.36 | 41.38 | 39.85 | 38.32 | 42.53 | 45.15 | 44.62 | 37.44 | 29.49 |
| 27 | 41.28 | 35.39 | 31.35 | 41.48 | 41.48 | 39.66 | 38.44 | 42.66 | 45.26 | 44.66 | 37.37 | 30.69 |
| 28 | 39.65 | 35.59 | 31.05 | 41.64 | 41.58 | 39.62 | 38.55 | 42.77 | 45.34 | 44.34 | 37.47 | 31.70 |
| 29 | 37.05 | 35.49 | 31.12 | 41.87 | 41.64 | 39.61 | 38.56 | 42.98 | 45.38 | 43.78 | 37.71 | 31.88 |
| 30 | 34.05 | 34.87 | 31.51 | 42.04 | --- | 39.60 | 38.52 | 43.11 | 45.44 | 43.40 | 38.00 | 30.72 |
| 31 | 31.34 | --- | 32.18 | 42.27 | --- | 39.60 | --- | 43.18 | --- | 43.17 | 38.15 | --- |
| MEAN | 37.78 | 35.11 | 33.51 | 38.53 | 41.12 | 40.35 | 39.41 | 40.73 | 44.38 | 45.05 | 40.91 | 32.62 |
| MAX | 41.44 | 39.21 | 36.80 | 42.27 | 42.93 | 41.67 | 41.76 | 43.18 | 45.44 | 46.16 | 43.54 | 39.12 |
| MIN | 31.34 | 29.44 | 31.05 | 32.93 | 39.63 | 39.60 | 37.09 | 38.52 | 43.27 | 43.17 | 37.37 | 25.17 |

