

LANCASTER COUNTY

395947076145902. Local number, LN 2038.

LOCATION.--Lat 39°59'47", long 76°14'59", Hydrologic Unit 02050306, 50 ft upstream from box culvert on Mentzer Road, 0.2 mi north of the intersection with SR 741, and 0.5 mi northwest of Lampeter.

Owner: U.S. Geological Survey.

AQUIFER.--Quaternary age alluvium.

WATER-LEVEL RECORDS

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. PVC, depth 6.6 ft, cased to 6.6 ft, closed end, screened from 4 to 5 ft.

INSTRUMENTATION.--Pressure transducer and data logger with 60-minute recording interval.

DATUM.--Land-surface datum is 347.84 (revised) ft above sea level. Measuring point: Top of casing, 1.6 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 District Office.

PERIOD OF RECORD.--June 1994 to current year.

REVISIONS.--Daily mean elevations published for water years 1994, 1995, 1996, and 1997 have been revised. Revised records are available from the District Office.

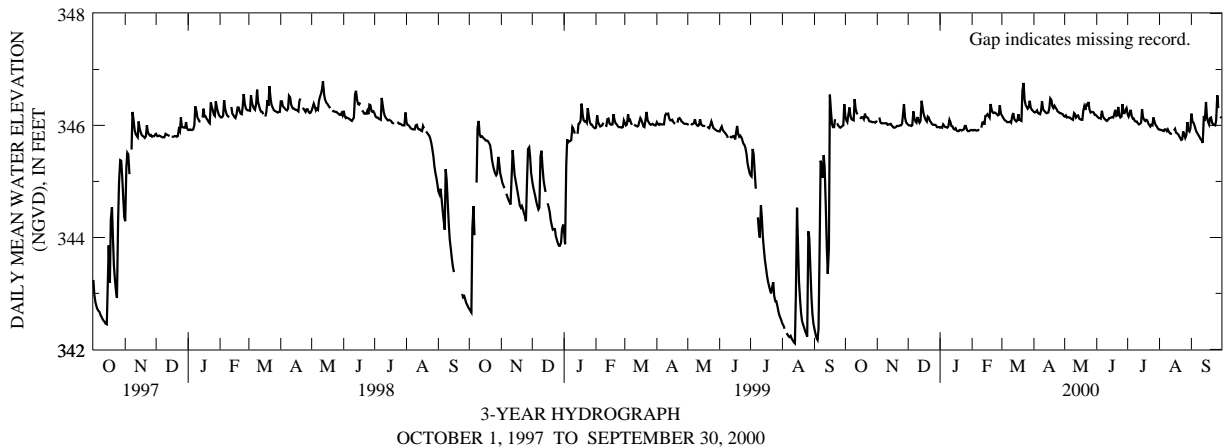
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 347.06 ft, Jan. 19, 1996; lowest water level, 342.11 ft, Aug. 13, 1999.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 346.16 | 346.06 | 346.01 | 345.96 | 345.92 | 346.18 | 346.24 | 346.16 | 346.17 | 346.20 | 345.93 | 346.21 |
| 2 | 346.09 | --- | 346.00 | 345.97 | 345.91 | 346.14 | 346.23 | 346.18 | 346.15 | 346.16 | 345.92 | 346.06 |
| 3 | 346.06 | 346.14 | 346.00 | 345.96 | 345.92 | 346.11 | 346.24 | 346.14 | 346.13 | 346.21 | 345.92 | 346.05 |
| 4 | 346.20 | 346.06 | 345.99 | 346.02 | 345.92 | 346.09 | 346.27 | 346.15 | 346.13 | 346.28 | 345.91 | 346.00 |
| 5 | 346.32 | 346.04 | 346.00 | 345.99 | 345.91 | 346.08 | 346.22 | 346.14 | 346.12 | 346.17 | 345.90 | 345.93 |
| 6 | 346.18 | 346.04 | 346.25 | 345.97 | 345.91 | 346.06 | 346.21 | 346.14 | 346.26 | 346.12 | 345.93 | 345.88 |
| 7 | 346.11 | 346.04 | 346.13 | 345.97 | 345.92 | 346.06 | 346.20 | 346.12 | 346.17 | 346.12 | 345.93 | 345.85 |
| 8 | 346.10 | 346.04 | 346.07 | 345.96 | 345.91 | 346.06 | 346.26 | 346.11 | 346.13 | 346.08 | 345.90 | 345.82 |
| 9 | 346.09 | 346.04 | 346.05 | 345.98 | --- | 346.07 | 346.43 | 346.10 | 346.11 | 346.07 | 345.93 | 345.79 |
| 10 | 346.47 | 346.04 | 346.15 | 346.10 | 345.96 | 346.05 | 346.29 | 346.22 | 346.09 | 346.07 | 345.89 | 345.75 |
| 11 | 346.30 | 346.01 | 346.09 | 346.06 | 346.05 | 346.17 | 346.26 | 346.20 | 346.08 | 346.04 | 345.86 | 345.73 |
| 12 | 346.22 | 346.02 | 346.05 | 345.99 | 346.06 | 346.22 | 346.24 | 346.14 | 346.10 | 346.02 | 345.85 | 345.69 |
| 13 | 346.20 | 346.02 | 346.08 | 345.98 | 346.01 | 346.11 | 346.22 | 346.17 | 346.13 | 346.03 | 345.86 | 346.17 |
| 14 | --- | 346.03 | 346.44 | 345.94 | 346.17 | 346.09 | 346.22 | 346.18 | 346.13 | 346.05 | --- | 346.08 |
| 15 | 346.14 | 346.00 | 346.32 | 345.93 | 346.17 | 346.07 | 346.23 | 346.12 | 346.14 | 346.29 | 345.91 | 346.42 |
| 16 | 346.13 | 345.98 | 346.21 | 345.95 | 346.20 | 346.09 | 346.31 | 346.11 | 346.15 | 346.15 | 345.94 | 346.15 |
| 17 | 346.15 | 345.96 | 346.14 | 345.91 | 346.18 | 346.20 | 346.48 | 346.10 | 346.14 | 346.10 | 345.87 | 346.07 |
| 18 | 346.14 | 345.96 | 346.10 | 345.90 | 346.14 | 346.10 | 346.45 | 346.10 | 346.20 | 346.08 | 345.86 | 346.02 |
| 19 | 346.11 | 345.97 | 346.07 | 345.90 | 346.38 | 346.09 | 346.34 | 346.26 | 346.28 | 346.10 | 345.84 | 346.13 |
| 20 | 346.21 | 345.99 | 346.16 | 345.92 | 346.28 | 346.08 | 346.31 | 346.34 | 346.17 | 346.09 | 345.81 | 346.14 |
| 21 | 346.15 | 345.99 | 346.14 | 345.92 | 346.23 | 346.62 | 346.35 | 346.28 | 346.18 | 346.04 | 345.78 | 346.05 |
| 22 | 346.15 | 345.99 | 346.08 | 345.91 | 346.22 | 346.76 | 346.32 | 346.37 | 346.33 | 346.01 | 345.74 | 346.01 |
| 23 | 346.13 | 346.00 | 346.06 | 345.92 | 346.23 | 346.46 | 346.29 | 346.36 | 346.18 | 345.98 | 345.75 | 346.01 |
| 24 | 346.08 | 346.00 | 346.03 | 345.93 | 346.22 | 346.36 | 346.25 | 346.42 | 346.14 | 346.01 | 345.89 | 346.00 |
| 25 | 346.07 | 346.03 | 346.01 | 345.99 | 346.20 | 346.33 | 346.24 | 346.29 | 346.16 | 346.00 | 345.84 | 346.09 |
| 26 | 346.07 | 346.20 | 346.01 | 345.99 | 346.18 | 346.30 | 346.22 | 346.23 | 346.38 | 346.14 | 345.78 | 346.54 |
| 27 | 346.06 | 346.38 | 346.01 | 345.92 | 346.19 | 346.33 | 346.22 | 346.24 | 346.22 | 346.08 | 345.83 | 346.31 |
| 28 | 346.06 | 346.13 | 346.00 | 345.90 | 346.36 | 346.44 | 346.21 | 346.24 | 346.22 | 346.01 | 346.06 | --- |
| 29 | 346.06 | 346.06 | 345.97 | 345.90 | 346.21 | 346.32 | 346.20 | 346.23 | 346.28 | 345.99 | 345.92 | 346.16 |
| 30 | 346.05 | 346.03 | 345.97 | 345.91 | --- | 346.28 | 346.17 | 346.19 | 346.31 | 345.96 | 345.89 | 346.13 |
| 31 | 346.07 | --- | 345.97 | 345.92 | --- | 346.26 | --- | 346.19 | --- | 345.93 | 345.95 | --- |
| MEAN | 346.14 | 346.04 | 346.08 | 345.95 | 346.11 | 346.21 | 346.27 | 346.20 | 346.18 | 346.08 | 345.88 | 346.04 |
| MAX | 346.47 | 346.38 | 346.44 | 346.10 | 346.38 | 346.76 | 346.48 | 346.42 | 346.38 | 346.29 | 346.06 | 346.54 |
| MIN | 346.05 | 345.96 | 345.97 | 345.90 | 345.91 | 346.05 | 346.17 | 346.10 | 346.08 | 345.93 | 345.74 | 345.69 |

WTR YR 2000: HIGHEST 346.76, MARCH 22; LOWEST 345.69, SEPTEMBER 12.



LANCASTER COUNTY

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WATER-QUALITY RECORDS

REMARKS.--Samples collected with peristaltic pump from recovery water after well pumped dry.
 PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | TIME | AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028) | AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027) | OXYGEN, DIS- SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095) | TEMPER- ATURE WATER (DEG C) (00010) | ALKA- LINITY WAT DIS TOT IT LAB MG/L AS CACO3 (39087) |
|----------|------|---|--|--|--|--|---|--|
| OCT 1999 | | | | | | | | |
| 14... | 1025 | 80020 | 1028 | 1.2 | 7.0 | 1210 | 16.2 | 248 |
| NOV | | | | | | | | |
| 02... | 1015 | 80020 | 1028 | .8 | 6.8 | 1090 | 14.1 | -- |
| DEC | | | | | | | | |
| 07... | 1035 | 80020 | 1028 | 1.5 | 7.0 | 976 | 10.8 | -- |
| JAN 2000 | | | | | | | | |
| 05... | 1030 | 80020 | 1028 | 1.3 | 7.0 | 1240 | 8.4 | 256 |
| FEB | | | | | | | | |
| 09... | 1055 | 80020 | 1028 | 1.3 | 7.1 | 906 | 5.3 | -- |
| MAR | | | | | | | | |
| 24... | 0950 | 80020 | 1028 | 1.4 | 7.1 | 848 | 8.2 | -- |
| APR | | | | | | | | |
| 19... | 0935 | 80020 | 1028 | 1.9 | 7.1 | 802 | 9.4 | 252 |
| AUG | | | | | | | | |
| 14... | 0954 | 1028 | 1028 | .8 | 7.0 | 839 | 19.5 | -- |
| SEP | | | | | | | | |
| 28... | 1045 | 1028 | 1028 | 2.4 | 7.3 | 892 | 17.3 | -- |

| DATE | NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) | DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019) | STREP- TOCOCCI FECAL, KF AGAR PER 100 ML) (31673) |
|----------|---|--|--|--|--|--|---|
| OCT 1999 | | | | | | | |
| 14... | .68 | .026 | 44.4 | .229 | .029 | 1.67 | 120 |
| NOV | | | | | | | |
| 02... | -- | <.020 | 32.6 | -- | -- | 1.75 | 22 |
| DEC | | | | | | | |
| 07... | -- | <.020 | 24.8 | -- | -- | 1.71 | >62000 |
| JAN 2000 | | | | | | | |
| 05... | .37 | <.020 | 22.1 | .056 | .021 | 1.85 | 2400 |
| FEB | | | | | | | |
| 09... | -- | <.020 | 15.8 | -- | -- | 1.91 | 200 |
| MAR | | | | | | | |
| 24... | -- | <.020 | 17.1 | -- | -- | 1.47 | 810 |
| APR | | | | | | | |
| 19... | .41 | <.020 | 13.9 | .018 | .020 | 1.52 | 2300 |
| AUG | | | | | | | |
| 14... | -- | -- | -- | -- | -- | 1.97 | K33 |
| SEP | | | | | | | |
| 28... | -- | -- | -- | -- | -- | 1.62 | 1000 |