

LANCASTER COUNTY

395947076145904. Local number, LN 2040.

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 7.6 ft, cased to 7.6 ft, closed end, screened from 5 to 6 ft.

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

DATUM.--Land-surface datum is 348.26 ft (revised) above sea level. Measuring point: Top of casing, 1.63 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 (discontinued).

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

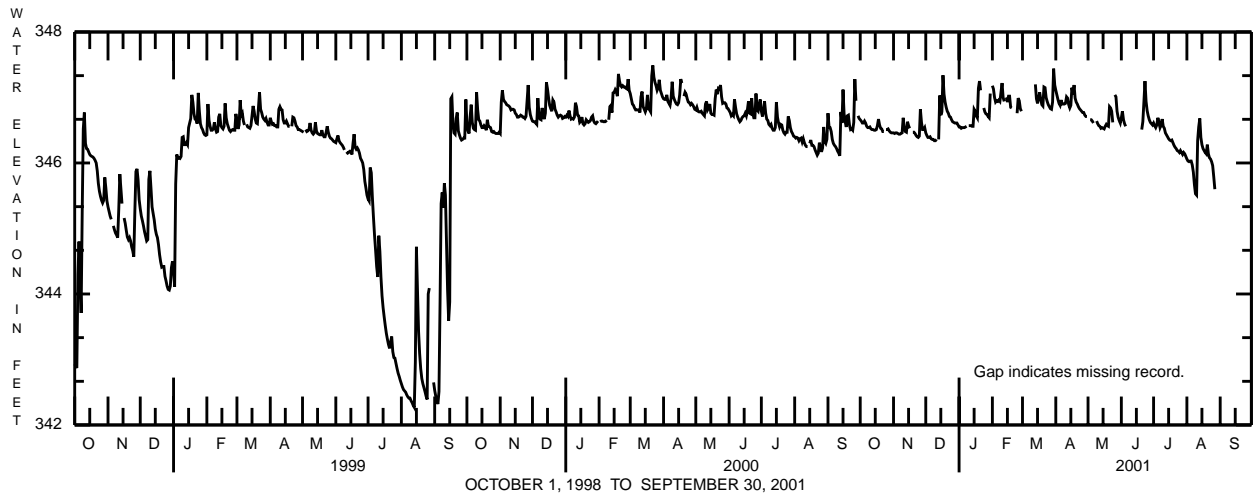
EXTREMES FOR PERIOD OF RECORD.--Prior to October 2000, the extremes shown were based on extremes of the daily mean depth in feet above sea level. Since that date, the extremes are based on the instantaneous depth in feet above sea level.

Highest water level, 348.80 ft, June 22, 2001; lowest water level, 342.26 ft, Aug. 13, 14, 1999.

EXTREMES FOR CURRENT YEAR.--Highest water level, 348.80 ft above sea level, June 22; lowest, 345.38 ft above sea level, Aug. 10.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 1 | 346.66 | 346.46 | 346.46 | 346.55 | 347.18 | --- | 347.11 | --- | 346.69 | 346.61 | 346.06 | --- |
| 2 | 346.64 | 346.45 | 346.42 | 346.55 | 347.13 | --- | 347.04 | --- | 346.79 | 346.57 | 346.03 | --- |
| 3 | 346.61 | 346.46 | 346.39 | 346.53 | 347.00 | --- | 346.97 | 346.66 | 346.66 | 346.54 | 346.02 | --- |
| 4 | 346.61 | 346.46 | 346.39 | 346.54 | 346.93 | --- | 346.91 | 346.66 | 346.60 | 346.58 | 346.03 | --- |
| 5 | 346.64 | 346.45 | 346.40 | 346.54 | 346.95 | --- | 346.88 | 346.64 | 346.56 | 346.69 | 346.03 | --- |
| 6 | 346.61 | 346.44 | 346.37 | 346.54 | 346.94 | --- | 346.96 | 346.61 | --- | 346.63 | 345.97 | --- |
| 7 | 346.56 | 346.44 | 346.36 | 346.55 | 346.96 | --- | 346.90 | --- | --- | 346.54 | 345.86 | --- |
| 8 | 346.54 | 346.45 | 346.36 | 346.56 | 346.94 | --- | 346.90 | --- | --- | 346.58 | 345.67 | --- |
| 9 | 346.54 | 346.46 | 346.34 | --- | 347.08 | --- | 346.90 | 346.64 | --- | 346.67 | 345.53 | --- |
| 10 | 346.55 | 346.69 | 346.34 | 346.57 | 347.22 | --- | 346.91 | 346.60 | --- | 346.56 | 345.51 | --- |
| 11 | 346.52 | 346.53 | 346.36 | 346.57 | 347.00 | --- | 347.01 | 346.57 | --- | 346.53 | 346.34 | --- |
| 12 | 346.51 | 346.48 | --- | 346.57 | 346.94 | --- | 346.99 | 346.56 | --- | 346.46 | 346.55 | --- |
| 13 | 346.51 | 346.47 | 346.36 | 346.56 | --- | 347.20 | 346.89 | 346.53 | --- | 346.43 | 346.68 | --- |
| 14 | 346.50 | 346.63 | 347.03 | 346.56 | 347.00 | 346.98 | 346.84 | 346.54 | --- | 346.40 | 346.39 | --- |
| 15 | 346.50 | 346.57 | 346.73 | 346.82 | 346.93 | 346.91 | 346.88 | 346.53 | --- | 346.37 | 346.28 | --- |
| 16 | 346.51 | 346.53 | 346.78 | 346.79 | 347.02 | 346.99 | 347.15 | 346.52 | --- | 346.35 | 346.22 | --- |
| 17 | 346.57 | --- | 347.34 | 346.72 | 347.02 | 347.08 | 347.05 | 346.56 | --- | 346.34 | 346.19 | --- |
| 18 | 346.67 | --- | 347.05 | 346.69 | 346.85 | 346.97 | 347.19 | 346.59 | --- | 346.35 | 346.16 | --- |
| 19 | 346.58 | 346.47 | 346.93 | 347.14 | 346.84 | 346.89 | 346.99 | 346.57 | --- | 346.31 | 346.14 | --- |
| 20 | 346.53 | 346.47 | 346.85 | 347.25 | --- | 346.87 | 346.93 | 346.56 | 346.51 | 346.27 | 346.28 | --- |
| 21 | 346.52 | 346.45 | 346.79 | 347.11 | --- | 347.16 | 346.90 | 346.86 | 346.63 | 346.24 | 346.14 | --- |
| 22 | 346.48 | 346.42 | 346.76 | --- | --- | 347.15 | 346.86 | 346.84 | 346.93 | 346.22 | 346.08 | --- |
| 23 | 346.48 | 346.40 | 346.71 | --- | --- | 347.00 | 346.83 | 346.79 | 347.25 | 346.19 | 346.06 | --- |
| 24 | --- | 346.39 | 346.70 | 346.84 | 346.76 | 346.94 | 346.81 | 346.62 | 346.94 | 346.18 | 346.02 | --- |
| 25 | 346.51 | 346.41 | 346.66 | 346.78 | 346.99 | 346.89 | 346.79 | --- | 346.80 | 346.16 | 345.96 | --- |
| 26 | 346.51 | 346.82 | 346.63 | 346.75 | 346.95 | 346.86 | 346.77 | 347.04 | 346.72 | 346.19 | 345.79 | --- |
| 27 | 346.52 | 346.62 | 346.62 | 346.74 | 346.83 | 346.83 | 346.77 | 347.01 | 346.66 | 346.16 | 345.60 | --- |
| 28 | 346.49 | 346.51 | 346.61 | 346.71 | 346.79 | 346.82 | 346.73 | 346.79 | 346.62 | 346.13 | --- | --- |
| 29 | 346.47 | 346.51 | 346.61 | 346.69 | --- | 346.93 | 346.71 | 346.70 | 346.60 | 346.16 | --- | --- |
| 30 | 346.46 | 346.54 | 346.61 | 347.06 | --- | 347.44 | 346.71 | 346.65 | 346.58 | 346.14 | --- | --- |
| 31 | 346.46 | --- | 346.58 | --- | --- | 347.19 | --- | 346.61 | --- | 346.10 | --- | --- |
| MEAN | 346.54 | 346.50 | 346.62 | 346.71 | 346.97 | 347.01 | 346.91 | 346.66 | 346.72 | 346.38 | 346.06 | --- |
| MAX | 346.67 | 346.82 | 347.34 | 347.25 | 347.22 | 347.44 | 347.19 | 347.04 | 347.25 | 346.69 | 346.68 | --- |
| MIN | 346.46 | 346.39 | 346.34 | 346.53 | 346.76 | 346.82 | 346.71 | 346.52 | 346.51 | 346.10 | 345.51 | --- |



LANCASTER COUNTY

395947076145904. Local number, LN 2040--Continued

WATER-QUALITY RECORDS

REMARKS.--Samples collected with peristaltic pump from recovery water after well was pumped more than 3 times casing volume.
 PERIOD OF RECORD.--November 1993 to current year (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| DATE | TIME | AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028) | AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027) | DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019) | OXYGEN, DIS- SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095) |
|----------|------|---|--|--|--|--|--|
| OCT 2000 | | | | | | | |
| 24... | 0925 | 1028 | 1028 | 1.77 | .6 | 7.0 | 877 |
| NOV | | | | | | | |
| 14... | 1005 | 1028 | 1028 | 1.79 | 2.3 | 7.0 | 840 |
| DEC | | | | | | | |
| 12... | 0940 | 80020 | 1028 | 1.89 | 5.3 | 7.3 | 772 |
| JAN 2001 | | | | | | | |
| 09... | 0955 | 1028 | 1028 | 1.70 | -- | 7.2 | 906 |
| FEB | | | | | | | |
| 13... | 0910 | 1028 | 1028 | 1.33 | .7 | 7.0 | 903 |
| MAR | | | | | | | |
| 12... | 0900 | 80020 | 1028 | 1.50 | -- | -- | 868 |
| 12... | 0901 | 80020 | 1028 | 1.50 | -- | -- | 868 |
| MAY | | | | | | | |
| 01... | 0900 | 1028 | 1028 | 1.53 | .6 | 6.8 | 844 |
| 29... | 1010 | 1028 | 1028 | 1.54 | .8 | 6.7 | 837 |
| JUN | | | | | | | |
| 19... | 1010 | 80020 | 1028 | 1.77 | 2.5 | 6.8 | 833 |

| DATE | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) | NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) | 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) | PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) | FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673) |
|----------|--|---|--|--|--|--|---|
| OCT 2000 | | | | | | | |
| 24... | -- | -- | -- | -- | -- | -- | 1000 |
| NOV | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | 4200 |
| DEC | | | | | | | |
| 12... | <.041 | .24 | 9.81 | <.006 | .028 | -- | 1100k |
| JAN 2001 | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | 1200 |
| FEB | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | 1200 |
| MAR | | | | | | | |
| 12... | <.041 | .36 | 14.5 | .006 | .024 | -- | 200 |
| 12... | <.041 | .29 | 14.4 | .006 | .024 | -- | -- |
| MAY | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | 50 |
| 29... | -- | -- | -- | -- | -- | -- | 4200 |
| JUN | | | | | | | |
| 19... | <.040 | .35 | 10.4 | .033 | .029 | .018 | 2700 |