

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.

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

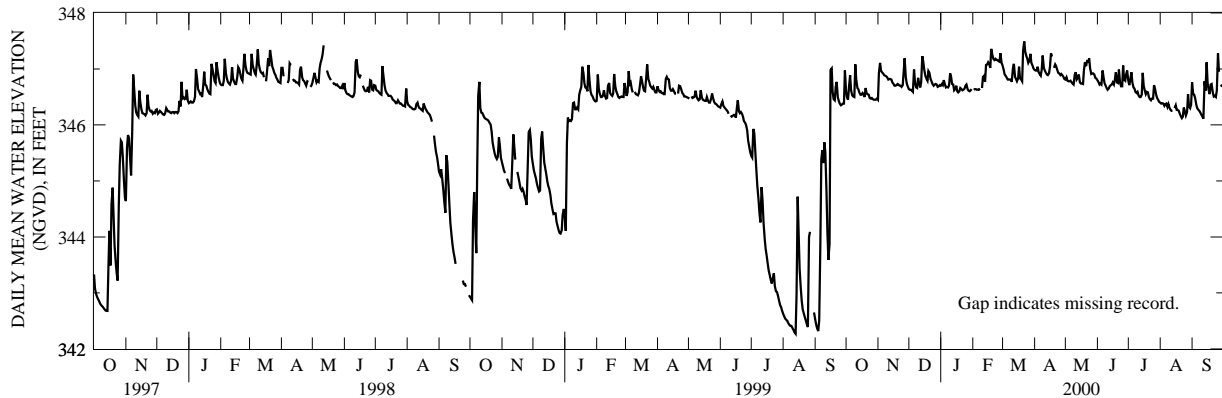
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 347.49 ft, Mar. 22, 2000; lowest water level, 342.27 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	346.60	346.45	346.64	346.70	---	347.06	346.98	346.81	346.80	346.79	346.40	346.76
2	346.49	346.93	346.63	346.73	346.63	346.98	346.97	346.85	346.77	346.71	346.38	346.55
3	346.45	347.11	346.63	346.71	346.64	346.90	346.97	346.79	346.72	346.80	346.39	346.54
4	346.71	346.97	346.61	346.80	346.64	346.88	347.04	346.78	346.74	346.94	346.38	346.48
5	346.89	346.94	346.59	346.72	346.63	346.84	346.94	346.78	346.72	346.76	346.34	346.36
6	346.62	346.92	346.99	346.67	346.63	346.81	346.91	346.79	346.97	346.67	346.37	346.30
7	346.53	346.89	346.76	346.68	346.64	346.81	346.88	346.76	346.85	346.65	346.38	346.27
8	346.51	346.88	346.67	346.67	346.62	346.81	346.99	346.74	346.75	346.59	346.32	346.25
9	346.50	346.87	346.66	346.70	---	346.81	347.24	346.72	346.70	346.57	346.37	346.22
10	347.08	346.85	346.84	346.92	346.66	346.77	347.02	346.90	346.66	346.59	346.31	346.18
11	346.81	346.81	346.74	346.86	346.86	347.01	346.97	346.94	346.63	346.53	346.27	346.15
12	346.66	346.82	346.67	346.73	346.88	347.09	346.93	346.81	346.65	346.50	346.25	346.11
13	346.64	346.82	346.76	346.72	346.77	346.86	346.90	346.84	346.69	346.50	346.25	346.78
14	346.58	346.81	347.23	346.62	347.07	346.82	346.89	346.90	346.71	346.54	---	346.61
15	346.54	346.76	347.13	346.64	347.08	346.78	346.92	346.76	346.72	346.93	346.30	347.12
16	346.54	346.74	346.99	346.70	347.12	346.83	347.04	346.74	346.76	346.70	346.35	346.75
17	346.57	346.70	346.88	346.60	347.09	347.04	347.28	346.74	346.72	346.61	346.27	346.63
18	346.55	346.70	346.83	346.58	347.02	346.83	347.22	346.73	346.81	346.55	346.27	346.55
19	346.50	346.71	346.79	346.60	347.36	346.81	---	346.98	346.94	346.59	346.25	346.72
20	346.66	346.73	346.96	346.66	347.25	346.78	347.02	347.12	346.76	346.58	346.20	346.73
21	346.56	346.72	346.93	346.64	347.18	347.33	347.08	347.05	346.75	346.50	346.16	346.58
22	346.55	346.70	346.82	346.62	347.16	347.49	347.05	347.14	346.99	346.46	346.12	346.51
23	346.54	346.70	346.78	346.63	347.18	347.31	346.98	347.13	346.76	346.44	346.15	346.52
24	346.48	346.68	346.73	346.65	347.16	347.23	346.93	347.19	346.69	346.47	346.31	346.50
25	346.47	346.71	346.70	346.70	347.16	347.18	346.92	347.01	346.69	346.47	346.24	346.62
26	346.48	346.95	346.72	346.72	347.14	347.11	346.89	346.91	347.06	346.71	346.17	347.28
27	346.46	347.19	346.73	346.64	347.13	347.15	346.91	346.92	346.81	346.65	346.23	346.95
28	346.45	346.85	346.72	346.61	347.28	347.27	346.89	346.92	346.79	346.54	346.55	---
29	346.45	346.74	346.68	346.60	347.11	347.11	346.86	346.90	346.91	346.48	346.33	346.72
30	346.45	346.68	346.69	346.62	---	347.06	346.82	346.84	346.97	346.45	346.30	346.68
31	346.47	---	346.71	346.64	---	347.01	---	346.83	---	346.41	346.36	---
MEAN	346.57	346.81	346.78	346.68	346.97	346.99	346.98	346.88	346.78	346.60	346.30	346.57
MAX	347.08	347.19	347.23	346.92	347.36	347.49	347.28	347.19	347.06	346.94	346.55	347.28
MIN	346.45	346.45	346.59	346.58	346.62	346.77	346.82	346.72	346.63	346.41	346.12	346.11

WTR YR 2000: HIGHEST 347.49, MARCH 22; LOWEST 346.11, SEPTEMBER 12.



3-YEAR HYDROGRAPH
OCTOBER 1, 1997 TO SEPTEMBER 30, 2000

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.

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...	1040	80020	1028	.9	6.8	1280	16.4	270
NOV								
02...	1030	80020	1028	.6	6.7	1070	14.2	--
02...	1031	80020	1028	.6	6.7	1070	14.2	--
DEC								
07...	1045	80020	1028	.6	6.9	988	10.7	--
JAN 2000								
05...	1050	80020	1028	.9	7.0	1260	7.0	266
FEB								
09...	1110	80020	1028	.4	7.0	906	4.4	--
MAR								
24...	1015	80020	1028	.6	7.0	859	7.1	--
APR								
19...	0950	80020	1028	1.2	7.0	810	9.5	264
AUG								
14...	0952	1028	1028	.6	6.9	844	20.2	--
SEP								
28...	1215	1028	1028	1.1	7.3	918	18.2	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA 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 (COLS. PER 100 ML) (31673)
OCT 1999							
14...	.85	.044	44.1	.045	.085	1.64	900
NOV							
02...	--	<.020	27.7	--	--	1.72	48
02...	--	<.020	28.1	--	--	1.72	48
DEC							
07...	--	.265	20.2	--	--	1.51	>62000
JAN 2000							
05...	.47	.020	20.6	.011	.050	1.52	K12000
FEB							
09...	--	<.020	15.1	--	--	1.63	510
MAR							
24...	--	<.020	16.5	--	--	1.02	12000
APR							
19...	.55	<.020	12.1	.013	.072	1.15	29000
AUG							
14...	--	--	--	--	--	1.99	K30
SEP							
28...	--	--	--	--	--	1.46	9900