

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.

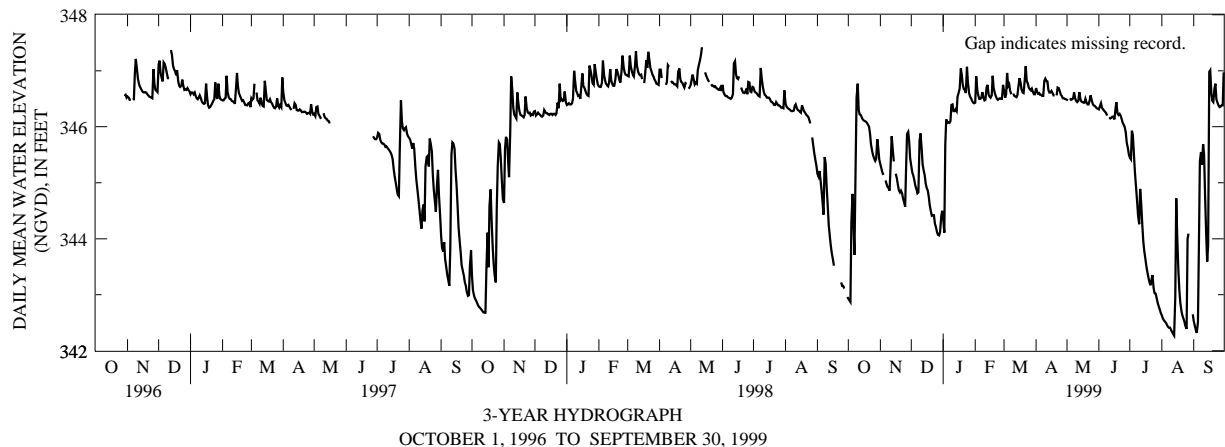
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 347.42 ft, May 12, 1998; lowest water level, 342.27 ft, Aug. 13, 1999.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342.93	345.33	345.30	344.36	346.43	346.65	346.69	346.48	346.31	345.45	342.63	342.53
2	342.90	345.26	345.19	344.11	346.90	346.52	346.63	346.47	346.37	345.42	342.58	342.44
3	342.87	345.19	345.12	345.68	346.65	346.58	346.59	---	346.42	345.93	342.54	342.37
4	344.30	345.14	345.04	346.13	346.56	346.96	346.60	346.51	346.34	345.85	342.52	342.32
5	344.80	---	344.95	346.07	346.50	346.73	346.57	346.48	346.31	345.48	342.50	342.51
6	344.26	345.04	344.88	346.08	346.50	346.76	346.57	346.49	346.29	345.18	342.46	343.88
7	343.71	344.98	344.81	346.07	346.52	346.64	346.55	346.51	346.27	344.90	342.43	345.38
8	345.27	344.93	344.83	346.10	346.62	346.58	346.55	346.61	346.24	344.67	342.41	345.55
9	346.52	344.90	345.75	346.39	346.52	---	346.82	346.50	346.20	344.42	342.41	345.32
10	346.77	344.86	345.88	346.40	346.47	346.59	346.86	346.46	---	344.26	342.37	345.69
11	346.30	345.29	345.61	346.28	346.48	346.55	346.82	346.44	346.17	344.89	342.34	345.51
12	346.22	345.83	345.33	346.28	346.70	346.54	346.81	346.46	346.15	344.65	342.30	344.80
13	346.21	345.61	345.23	346.31	346.75	346.53	346.66	346.62	346.16	344.26	342.27	344.06
14	346.17	345.38	345.13	346.28	346.57	346.57	346.61	346.49	346.18	343.97	342.96	343.59
15	346.13	---	344.99	346.54	346.54	346.72	346.61	346.45	346.18	343.79	344.72	343.88
16	346.11	345.16	344.91	346.61	346.52	346.87	346.64	346.44	346.13	343.65	344.06	346.98
17	346.10	345.08	344.86	346.68	346.56	346.79	346.60	346.43	346.30	343.52	343.43	347.01
18	346.09	344.97	344.75	347.04	346.91	346.67	346.56	346.43	346.44	343.40	343.09	346.59
19	346.07	344.87	344.60	346.93	346.69	346.61	346.56	346.50	346.24	343.31	342.86	346.46
20	346.04	344.83	344.49	346.75	346.60	346.60	---	346.43	346.21	343.23	342.71	346.44
21	346.00	344.86	344.41	346.67	346.55	346.84	346.56	346.40	346.23	343.17	342.63	346.68
22	345.88	344.81	344.42	346.66	346.50	347.08	346.70	346.40	346.20	343.27	342.57	346.77
23	345.69	344.72	344.42	346.60	346.48	346.82	346.69	346.47	346.15	343.35	342.51	346.49
24	345.57	344.66	344.27	347.07	346.50	346.77	346.64	346.56	346.07	343.12	342.44	346.43
25	345.49	344.57	344.20	346.79	346.51	346.70	346.57	346.47	346.04	343.03	342.39	346.38
26	345.43	345.27	344.12	346.60	346.50	346.67	346.55	346.41	346.00	343.02	344.00	346.35
27	345.39	345.87	344.07	346.54	346.50	346.65	346.51	346.38	345.90	342.94	344.09	346.36
28	345.43	345.91	344.06	346.51	346.75	346.68	346.51	346.37	345.72	342.86	---	346.38
29	345.78	345.74	344.12	346.46	---	346.62	346.50	346.35	345.62	342.79	---	346.38
30	345.62	345.44	344.40	346.43	---	346.58	346.49	346.33	345.51	342.74	---	346.97
31	345.42	---	344.50	346.42	---	346.58	---	346.32	---	342.68	342.65	---
MEAN	345.40	345.16	344.79	346.32	346.58	346.68	346.62	346.46	346.15	343.97	342.82	345.28
MAX	346.77	345.91	345.88	347.07	346.91	347.08	346.86	346.62	346.44	345.93	344.72	347.01
MIN	342.87	344.57	344.06	344.11	346.43	346.52	346.49	346.32	345.51	342.68	342.27	342.32

WTR YR 1999: HIGHEST 347.08, MARCH 22; LOWEST 342.27, AUGUST 13.



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. Some concentrations for dissolved orthophosphorus (mg/L as P) exceed values for the corresponding concentrations of dissolved phosphorus (mg/L as P). These results are within the limits of analytical precision and methods.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY COL-LECTING SAMPLE NUMBER (00027)	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD SOLVED) UNITS) (00400)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TEMPER-ATURE WATER (DEG C) (00010)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT									
07...	0925	1028	80020	4.48	796	6.9	3.2	18.2	180
NOV									
05...	1050	1028	80020	3.16	786	6.9	2.2	14.5	700
DEC									
15...	1135	1028	80020	3.25	799	7.0	6.3	10.9	30
JAN									
13...	1035	1028	80020	1.96	819	7.0	--	6.6	K15000
FEB									
09...	1020	1028	80020	1.75	957	6.8	1.1	6.1	1400
MAR									
09...	1045	1028	80020	1.70	899	6.8	1.0	5.6	2100
09...	1046	1028	80020	--	--	--	--	--	--
APR									
20...	1055	1028	80020	1.66	748	7.0	.5	8.7	290
MAY									
03...	1000	1028	80020	1.76	852	7.2	.3	10.3	--
19...	0950	1028	80020	1.77	815	6.7	.7	12.2	230
JUN									
10...	0935	1028	80020	2.04	809	7.0	--	15.3	50
JUL									
07...	0950	1028	80020	3.29	811	6.6	--	17.5	140
AUG									
04...	0945	1028	80020	5.76	864	6.6	3.5	18.2	730
SEP									
22...	1035	1028	80020	1.30	1460	6.5	1.2	18.7	K8400
22...	1036	1028	80020	1.30	1460	6.5	1.2	18.7	K8400

DATE	ALKA-LINITY WAT DIS TOT IT LAB (39087)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT									
07...	250	<.010	10.4	.029	.24	.020	.028	--	--
NOV									
05...	266	--	12.3	--	--	--	--	--	--
DEC									
15...	256	--	12.4	--	--	--	--	--	--
JAN									
13...	244	<.010	18.8	.023	.42	.035	--	130	17
FEB									
09...	--	--	28.3	--	--	--	--	--	--
MAR									
09...	--	--	17.9	--	--	--	--	--	--
09...	--	--	18.8	--	--	--	--	--	--
APR									
20...	244	<.010	13.3	<.020	.47	.049	--	--	--
MAY									
03...	--	.013	12.6	.069	.42	.062	.053	--	--
19...	--	--	12.8	--	--	--	--	--	--
JUN									
10...	--	--	11.4	--	--	--	--	--	--
JUL									
07...	272	.011	9.77	.023	.26	.037	--	--	--
AUG									
04...	--	--	13.5	.032	--	--	--	--	--
SEP									
22...	--	--	60.0	.031	--	--	--	--	--
22...	--	--	59.5	.032	--	--	--	--	--

