

LANCASTER COUNTY

395947076145901. Local number, LN 2037.

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 ft, cased to 6 ft, closed end, screened from 3.5 to 4.5 ft.

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

DATUM.--Land-surface datum is 347.97 ft (revised) above sea level. Measuring point: Top of casing, 1.45 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. Well is dry at 343.64 ft.

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

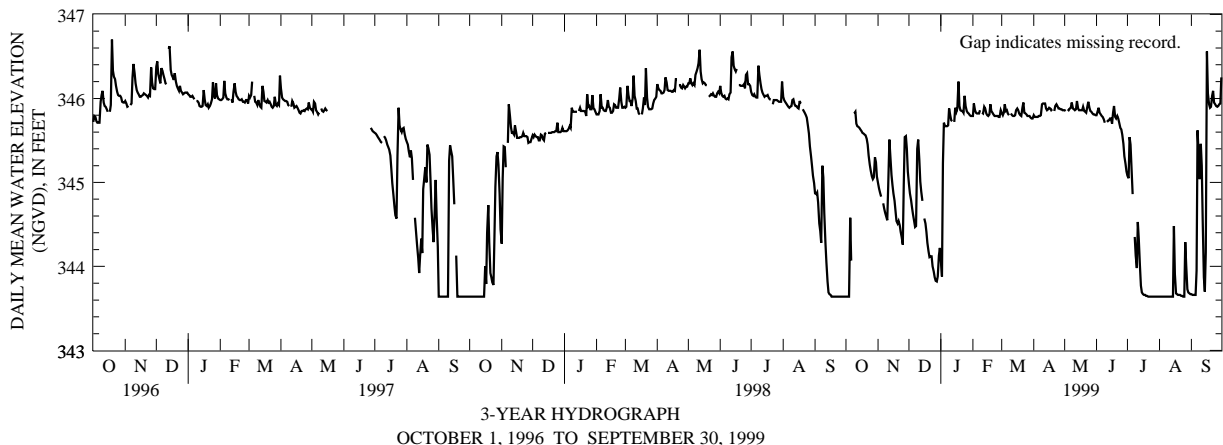
REVISIONS.--Daily mean elevations published for water years 1994, 1995, 1996, 1997, and 1998 have been revised. Revised records are available from the District Office.

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, 346.70 ft, Oct. 19, 1996; lowest measured, dry many days.

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	343.64	344.99	344.98	344.08	345.79	345.83	345.80	345.86	345.80	345.08	343.64	343.67
2	343.64	344.93	344.87	343.88	345.94	345.80	345.78	345.85	345.85	345.05	343.64	343.66
3	343.64	344.88	344.79	345.23	345.86	345.83	345.78	---	345.89	345.54	343.64	343.66
4	343.64	344.83	344.70	345.71	345.83	345.93	345.78	345.87	345.83	345.45	343.64	343.66
5	344.58	---	344.62	345.67	345.82	345.85	345.78	345.86	345.81	345.13	343.64	343.66
6	344.07	344.75	344.54	345.67	345.82	345.86	345.79	345.88	345.79	344.86	343.64	343.95
7	---	344.69	344.47	345.67	345.82	345.82	345.79	345.89	345.78	---	343.64	345.62
8	---	344.64	344.48	345.68	345.86	345.80	345.80	345.95	345.75	344.35	343.64	345.32
9	345.82	344.59	345.40	345.88	---	---	345.93	345.88	345.71	344.13	343.64	345.04
10	345.84	344.55	345.51	345.80	345.83	345.82	345.94	345.87	---	343.98	343.64	345.46
11	345.70	344.96	345.27	345.74	345.82	345.80	345.94	345.86	345.74	344.53	343.64	345.20
12	345.67	345.51	345.01	345.73	345.90	345.79	345.94	345.87	345.73	344.33	343.64	344.54
13	345.66	345.32	344.89	---	345.88	345.79	345.88	345.97	345.74	344.01	343.64	343.87
14	345.65	345.09	344.78	345.72	345.82	345.80	345.86	345.88	345.76	343.77	343.64	343.70
15	345.63	344.97	---	345.89	345.80	345.86	345.87	345.86	345.76	343.69	344.48	344.17
16	345.61	344.87	344.57	345.84	345.79	345.88	345.89	345.86	345.70	343.67	343.91	346.56
17	345.59	344.78	344.51	345.88	345.81	345.86	345.88	345.86	345.83	343.66	343.68	346.06
18	345.58	344.66	344.41	346.20	345.93	345.82	345.86	345.86	345.91	343.66	343.67	345.93
19	345.57	344.54	344.28	345.91	345.85	345.80	345.87	345.90	345.78	343.65	343.66	345.89
20	345.56	344.51	344.18	345.86	345.83	345.79	---	345.85	345.76	343.65	343.66	345.90
21	345.52	344.54	344.11	345.85	345.81	345.89	345.85	345.84	345.79	343.64	343.66	346.03
22	345.45	344.49	344.12	345.85	345.79	345.95	345.91	345.83	345.76	343.64	343.65	346.09
23	345.32	344.41	344.12	345.83	345.79	345.83	345.93	345.90	345.71	343.64	343.65	345.95
24	345.21	344.35	344.00	346.03	345.79	345.82	345.91	345.96	345.65	343.64	343.64	345.93
25	345.14	344.26	343.94	345.91	345.79	345.81	345.88	345.89	345.63	343.64	343.64	345.91
26	345.07	344.97	343.87	345.85	345.78	345.79	345.88	345.85	345.57	343.64	344.29	345.90
27	345.04	345.54	343.83	345.83	345.78	345.79	345.87	345.84	345.46	343.64	344.01	345.91
28	345.06	345.55	343.82	345.82	345.86	345.79	345.87	345.82	345.31	343.64	343.73	345.93
29	345.30	345.40	343.88	345.80	---	345.77	345.86	345.81	345.22	343.64	343.69	345.94
30	345.24	345.13	344.13	345.79	---	345.76	345.86	345.81	345.13	343.64	343.68	346.25
31	345.07	---	344.22	345.79	---	345.76	---	345.80	---	343.64	343.67	---
MEAN	345.12	344.85	344.48	345.68	345.83	345.82	345.86	345.87	345.69	344.07	343.72	345.18
MAX	345.84	345.55	345.51	346.20	345.94	345.95	345.94	345.97	345.91	345.54	344.48	346.56
MIN	343.64	344.26	343.82	343.88	345.78	345.76	345.78	345.80	345.13	343.64	343.64	343.66

WTR YR 1999: HIGHEST 346.56, SEPTEMBER 16; LOWEST 343.64, (dry), OCTOBER 1-4, JULY 21 TO AUGUST 14, AUGUST 24, 25.



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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 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TEMPERATURE WATER (DEG C) (00010)	STREP-TOCOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
NOV 05...	1035	1028	80020	3.17	764	7.3	4.5	12.3	78
DEC 15...	1125	1028	80020	3.30	772	7.4	8.2	9.3	K28
JAN 13...	1015	1028	80020	2.24	772	7.2	--	5.6	170
FEB 09...	1005	1028	80020	2.14	887	7.0	4.4	6.2	230
MAR 09...	1040	1028	80020	2.17	882	7.1	4.9	5.7	26
APR 20...	1040	1028	80020	2.09	769	7.1	4.2	9.1	61
MAY 19...	0930	1028	80020	2.07	820	6.9	3.4	12.4	31
JUN 10...	0930	1028	80020	2.21	815	7.1	--	15.4	20
JUL 07...	0945	1028	80020	3.32	804	6.8	--	19.0	90
SEP 22...	1030	1028	80020	1.76	1040	6.6	2.0	17.8	1900

DATE	ALKALINITY WAT DIS TOT IT LAB (MG/L AS CACO3) (39087)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV 05...	266	--	8.90	--	--	--	--	--	--
DEC 15...	260	--	4.49	--	--	--	--	--	--
JAN 13...	242	<.010	13.1	<.020	.23	.009	130	16	9.9
FEB 09...	--	--	21.9	--	--	--	--	--	--
MAR 09...	--	--	18.5	--	--	--	--	--	--
APR 20...	240	.013	16.2	<.020	.29	.009	--	--	--
MAY 19...	--	--	13.1	--	--	--	--	--	--
JUN 10...	--	--	11.5	--	--	--	--	--	--
JUL 07...	264	.115	9.40	<.020	.28	.013	--	--	--
SEP 22...	--	--	29.4	<.020	--	--	--	--	--

