

LANCASTER COUNTY

395947076145903. Local number, LN 2039.

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.--Limestone of the Cambro-Ordovician age Conestoga Formation.

WATER-LEVEL RECORDS

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in. steel, depth 63 ft, cased to 19 ft, open hole.

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

DATUM.--Land-surface datum is 348.18 ft (revised) above sea level. Measuring point: Top of casing, 3.3 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. The elevation of the casing is 351.37 ft. On March 22, 2000 water was flowing over the casing. Measured elevations for the well cannot exceed 351.37 ft.

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.

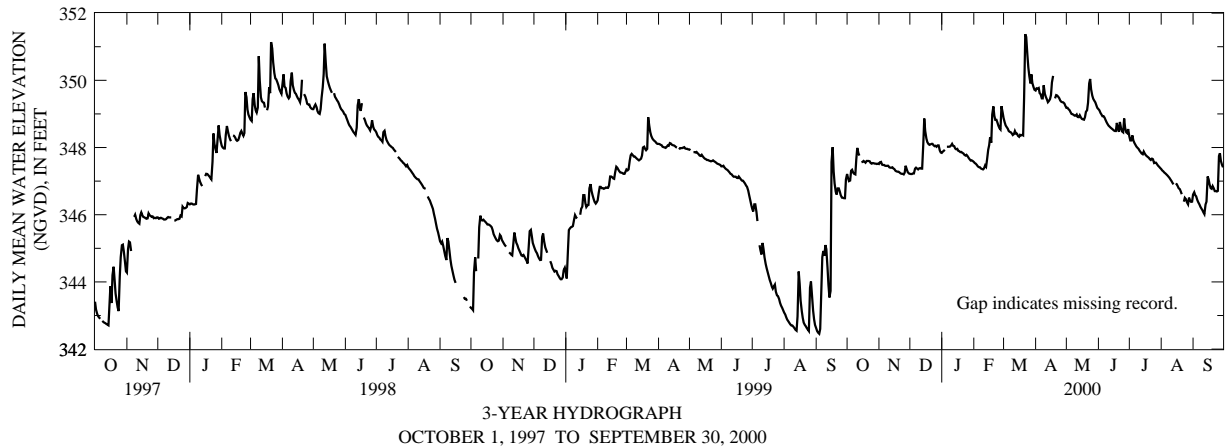
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 351.37 ft, Mar. 22, 2000; lowest water level, 342.46 ft, Sept. 4, 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	347.21	347.51	347.22	347.84	347.57	348.88	349.70	349.18	349.14	348.33	347.36	346.60
2	347.09	347.56	347.21	347.88	347.54	348.75	349.76	349.18	349.11	348.21	347.32	346.67
3	347.00	347.57	347.21	347.90	347.52	348.66	349.75	349.14	349.03	348.21	347.29	346.58
4	347.02	347.49	347.23	347.93	347.48	348.61	349.77	349.11	348.98	348.36	347.26	346.55
5	347.31	347.48	347.23	---	347.44	348.56	349.62	349.05	348.93	348.21	347.23	346.44
6	347.34	347.48	347.37	348.02	347.42	348.49	349.59	349.00	348.93	348.13	347.20	346.37
7	347.25	347.46	347.40	348.02	347.41	348.47	349.46	348.99	348.89	348.08	347.17	346.31
8	347.22	347.45	347.37	348.02	347.38	348.45	349.46	348.97	348.82	348.03	347.13	346.24
9	347.20	347.46	347.35	348.03	347.36	348.42	349.85	348.95	348.75	347.99	347.10	346.19
10	347.66	347.46	347.38	348.06	347.35	348.37	349.60	348.95	348.70	347.96	347.05	346.13
11	347.99	347.41	347.39	348.11	347.38	348.40	349.51	348.98	348.65	347.91	347.00	346.07
12	347.83	347.40	347.37	348.05	347.47	348.49	349.43	348.91	348.62	347.86	346.95	346.02
13	347.76	347.40	347.37	348.04	347.43	348.41	349.35	348.90	348.59	347.82	346.90	346.30
14	---	347.41	348.10	347.97	347.64	348.41	349.38	348.96	348.56	347.80	---	346.39
15	347.56	347.38	348.86	347.95	347.93	348.35	349.44	348.89	348.54	347.88	346.92	347.14
16	347.57	347.36	348.49	347.96	348.07	348.32	349.56	348.85	348.51	347.82	346.91	347.05
17	347.60	347.31	348.27	347.90	348.31	348.38	349.94	348.84	348.49	347.77	346.85	346.90
18	347.58	347.29	348.16	347.89	348.14	348.36	350.13	348.83	348.49	347.74	346.79	346.79
19	347.55	347.28	348.10	347.86	348.98	348.38	---	348.90	348.73	347.72	346.76	346.77
20	347.60	347.28	348.08	347.87	349.22	348.36	349.46	349.06	348.55	347.69	346.69	346.85
21	347.60	347.26	348.09	347.84	348.95	349.47	349.56	349.11	348.47	347.65	346.61	346.78
22	347.60	347.23	348.11	347.82	348.82	351.37	349.55	349.33	348.76	347.63	---	346.70
23	347.59	347.22	348.11	347.78	348.82	351.29	349.51	349.91	348.57	347.67	346.39	346.70
24	347.54	347.22	348.07	347.76	348.74	350.76	349.47	350.04	348.48	347.65	346.50	346.69
25	347.52	347.20	348.04	347.78	348.65	350.38	349.40	349.73	348.45	347.54	346.46	346.71
26	347.54	347.25	348.05	347.75	348.57	350.13	349.36	349.55	348.86	347.55	346.37	347.75
27	347.53	347.46	348.02	347.69	348.54	349.91	349.35	349.45	348.59	347.55	346.31	347.83
28	347.52	347.35	348.06	347.65	349.23	350.18	349.34	349.40	348.45	347.50	346.51	347.60
29	347.52	347.27	348.06	347.61	349.05	349.92	349.31	349.34	348.43	347.46	346.43	347.48
30	347.51	347.23	347.91	347.62	---	349.80	349.24	349.26	348.55	347.43	346.38	347.41
31	347.52	---	347.85	347.60	---	349.72	---	349.18	---	347.39	346.39	---
MEAN	347.48	347.37	347.79	347.87	348.08	349.11	349.55	349.16	348.69	347.82	346.84	346.73
MAX	347.99	347.57	348.86	348.11	349.23	351.37	350.13	350.04	349.14	348.36	347.36	347.83
MIN	347.00	347.20	347.21	347.60	347.35	348.32	349.24	348.83	348.43	347.39	346.31	346.02

WTR YR 2000: HIGHEST 351.37, MARCH 22; LOWEST 346.02, SEPTEMBER 12.



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WATER-QUALITY RECORDS

REMARKS.--Samples collected with submersible 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...	1020	80020	1028	7.1	7.0	906	12.2	266
JAN 2000 05...	1020	80020	1028	7.2	7.0	1140	12.2	268
APR 19...	1000	80020	1028	6.0	7.0	791	12.1	252
AUG 14...	0955	1028	1028	--	--	--	--	--
SEP 28...	1100	1028	1028	7.7	7.2	883	12.2	--

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 (COLS. PER 100 ML) (31673)
OCT 1999 14...	.13	<.020	22.7	<.010	E.003	.48	K2
JAN 2000 05...	.10	<.020	17.1	<.010	<.006	.22	K0
APR 19...	.54	.144	11.1	.021	E.003	-1.57	K5
AUG 14...	--	--	--	--	--	1.31	K790
SEP 28...	--	--	--	--	--	.54	1200