

LANCASTER COUNTY

395957076155201. Local number, LN 2041.

LOCATION.--Lat 39°59'57", long 76°15'52", Hydrologic Unit 02050306, 40 ft upstream from bridge at intersection of Gypsy Hill Road and Long Rifle Road, and 1.5 mi north of Willow Street.

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 294.78 ft above sea level. Measuring point: Top of casing, 1.7 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.--November 1993 to September 1997, August 1998 to current year.

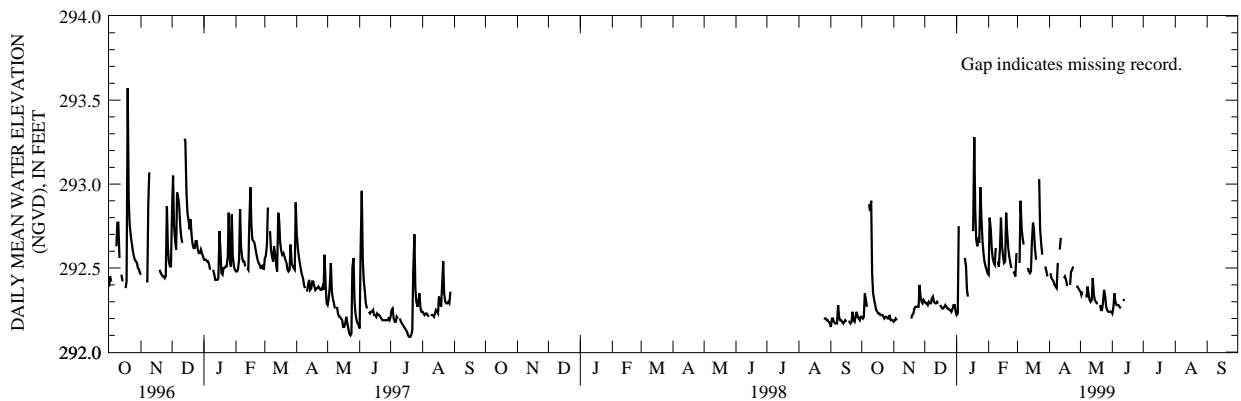
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 293.72 ft, Jan. 19, 1996; lowest water level, 291.94 ft, Sept. 2,3,4,6,7,8, 1995.

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	292.21	292.18	292.30	292.22	292.46	---	---	292.36	292.23	---	---	---
2	292.20	292.19	292.29	292.23	292.80	---	292.47	292.34	292.27	---	---	---
3	292.21	292.20	292.29	292.75	292.73	292.53	292.44	292.36	292.35	---	---	---
4	292.35	292.19	292.28	---	292.62	292.90	292.43	---	292.30	---	---	---
5	292.31	---	292.30	---	292.56	292.73	292.42	---	292.28	---	---	---
6	292.27	---	292.29	292.33	292.53	292.68	292.40	292.33	292.28	---	---	---
7	---	---	292.29	---	292.52	292.64	292.39	292.33	292.28	---	---	---
8	292.88	---	292.32	---	292.62	---	292.38	292.39	292.27	---	---	---
9	292.84	---	292.33	292.56	---	---	292.53	292.34	292.26	---	---	---
10	292.90	---	292.30	292.51	292.54	---	---	292.31	---	---	---	---
11	292.47	---	292.29	292.37	292.51	292.50	292.61	292.30	292.31	---	---	---
12	292.35	---	292.29	292.33	292.62	292.48	292.68	292.31	292.31	---	---	---
13	292.31	---	292.30	---	292.80	292.47	---	292.44	292.31	---	---	---
14	292.28	---	292.29	---	292.63	292.48	---	292.34	---	---	---	---
15	292.25	---	---	---	292.57	292.65	292.44	292.31	---	---	---	---
16	292.24	---	292.28	---	292.53	292.77	292.45	292.30	---	---	---	---
17	292.23	---	292.27	292.72	292.54	292.73	292.43	292.29	---	---	---	---
18	292.23	292.20	292.26	293.28	292.83	292.62	292.40	292.29	---	---	---	---
19	292.22	292.22	292.26	292.85	292.72	292.55	292.40	---	---	---	---	---
20	292.22	292.23	292.27	292.67	292.62	---	---	292.28	---	---	---	---
21	292.22	292.26	292.28	292.63	292.57	---	292.40	292.25	---	---	---	---
22	292.21	292.27	292.27	292.68	292.53	293.03	292.48	292.25	---	---	---	---
23	292.20	292.27	292.26	292.65	292.50	292.73	292.49	292.30	---	---	---	---
24	292.21	292.27	292.26	292.98	---	292.64	292.51	292.37	---	---	---	---
25	292.21	292.27	292.25	292.80	292.48	292.58	---	292.33	---	---	---	---
26	292.20	292.40	292.25	292.66	292.47	---	---	292.27	---	---	---	---
27	292.20	292.33	292.24	292.59	292.45	---	292.39	292.25	---	---	---	---
28	292.22	292.30	292.26	292.54	292.59	292.51	292.39	292.24	---	---	---	---
29	292.19	292.29	292.28	292.51	---	292.48	292.38	292.24	---	---	---	---
30	292.19	292.31	292.28	292.49	---	292.45	292.37	292.24	---	---	---	---
31	292.19	---	292.24	292.47	---	---	---	292.24	---	---	---	---
MEAN	292.31	292.26	292.28	292.60	292.59	292.63	292.45	292.31	292.29	---	---	---
MAX	292.90	292.40	292.33	293.28	292.83	293.03	292.68	292.44	292.35	---	---	---
MIN	292.19	292.18	292.24	292.22	292.45	292.45	292.37	292.24	292.23	---	---	---

WTR YR 1999: HIGHEST RECORDED 293.28, JANUARY 18; LOWEST RECORDED 292.18, NOVEMBER 1.



3-YEAR HYDROGRAPH
OCTOBER 1, 1996 TO SEPTEMBER 30, 1999

LANCASTER COUNTY

395957076155201. Local number, LN 2041--Continued

WATER-QUALITY RECORDS

REMARKS.--Samples collected with peristaltic pump from recovery water after well pumped dry. The water-quality data for this well may be affected by problems associated with the initial construction of the well. Data are anomalous relative to other ground-water wells within the vicinity. The analytical values were verified, indicating that the data reflect actual values. 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 (CODE (00027)	AGENCY ANA-LYZING SAMPLE NUMBER (CODE (00028)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD 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...	0800	1028	80020	2.52	832	7.2	.5	16.1	K0
NOV 05...	0915	1028	80020	2.60	746	7.5	2.1	11.0	<20
DEC 15...	0925	1028	80020	2.49	731	7.5	6.6	9.1	K1
JAN 13...	0910	1028	80020	2.45	709	7.3	--	5.2	66
FEB 09...	0850	1028	80020	2.25	799	7.2	1.9	6.0	330
MAR 09...	0920	1028	80020	2.27	933	7.0	2.5	5.2	55
APR 20...	0915	1028	80020	2.36	773	7.2	1.9	9.1	K3
MAY 19...	0745	1028	80020	2.47	719	7.0	3.6	13.5	31
JUN 10...	0800	1028	80020	2.50	680	6.9	3.2	17.6	K15
JUL 07...	0755	1028	80020	2.47	703	6.8	--	19.5	1200
AUG 04...	0805	1028	80020	2.53	733	6.6	2.5	19.7	K56000
SEP 22...	0840	1028	80020	1.88	848	6.4	2.8	17.0	760

DATE	ALKA-LINITY WAT DIS TOT IT LAB (MG/L AS CACO3 (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...	340	<.010	.135	2.04	2.9	.856	.869	--	--
NOV 05...	317	--	1.05	--	--	--	--	--	--
DEC 15...	300	--	.641	--	--	--	--	--	--
JAN 13...	292	<.010	.788	.078	.66	.143	--	95	16
FEB 09...	--	--	<.050	.552	--	--	--	--	--
MAR 09...	--	--	.179	.600	--	--	--	--	--
APR 20...	--	<.010	.149	.029	.81	.194	--	--	--
MAY 19...	--	--	.201	.563	--	--	--	--	--
JUN 10...	--	--	.201	.700	--	--	--	--	--
JUL 07...	296	<.010	.097	.874	1.4	.352	--	--	--
AUG 04...	--	--	<.050	.945	--	--	--	--	--
SEP 22...	--	--	<.050	.669	--	--	--	--	--

