

LANCASTER COUNTY

395957076155204. Local number, LN 2044.

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 8 ft, cased to 8 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 296.84 ft above sea level. Measuring point: Top of casing, 1.95 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 current year.

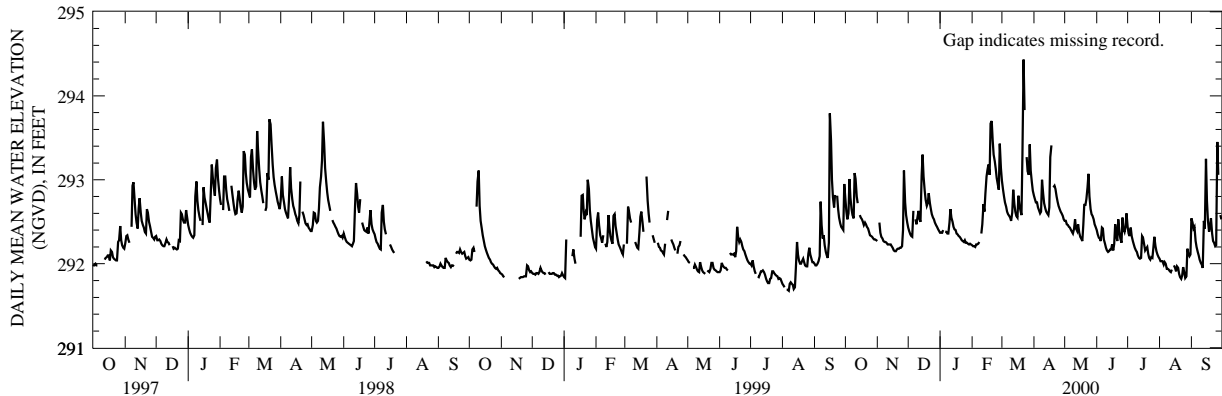
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 294.43 ft, Mar. 22, 2000; lowest water level, 291.60 ft, July 20, 1997.

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	292.77	292.27	292.43	292.37	292.22	292.99	292.81	292.51	292.40	292.44	292.06	292.54
2	292.62	---	292.39	292.37	292.21	292.88	292.77	292.51	292.35	292.36	292.03	292.49
3	292.53	292.49	292.35	292.37	292.21	292.80	292.73	292.47	292.31	292.33	292.03	292.42
4	292.60	292.37	292.33	292.40	292.20	292.73	292.73	292.46	292.30	292.43	292.03	292.44
5	293.01	292.32	292.32	---	292.23	292.68	292.67	292.44	292.27	292.33	291.99	292.27
6	292.79	292.30	292.63	292.38	292.23	292.62	292.64	292.43	292.43	292.27	292.02	292.20
7	292.65	292.27	---	292.38	292.24	292.59	292.60	292.40	292.42	292.23	292.00	292.14
8	292.58	292.26	292.53	292.36	292.26	292.57	292.62	292.38	292.29	292.19	291.94	292.10
9	292.54	292.26	292.47	292.36	---	292.55	293.00	292.36	292.24	292.16	291.94	292.05
10	293.08	292.25	292.55	292.49	292.36	292.51	292.83	292.42	292.19	292.14	291.93	292.01
11	293.01	292.23	292.63	292.65	292.47	292.61	292.72	292.53	292.16	292.10	291.91	291.99
12	292.80	292.23	292.53	292.55	292.71	292.88	292.66	292.42	292.14	292.07	291.90	291.95
13	292.72	292.23	292.50	292.50	292.62	292.71	292.62	292.39	292.15	292.06	291.93	292.51
14	---	292.23	293.05	292.44	292.83	292.62	292.60	292.47	292.17	292.07	---	292.42
15	292.58	292.21	293.30	292.41	293.04	292.57	292.58	292.37	292.17	292.33	291.98	293.25
16	292.55	292.19	293.04	292.40	293.12	292.55	292.67	292.32	292.23	292.31	291.95	292.75
17	292.53	292.16	292.87	292.36	293.18	292.81	293.27	292.30	292.16	292.23	291.91	292.52
18	292.50	292.15	292.76	292.35	293.06	292.70	293.41	292.27	292.24	292.16	291.97	292.38
19	292.46	292.15	292.69	292.33	293.67	292.63	---	292.46	292.47	292.18	291.95	292.44
20	292.49	292.17	292.72	292.32	293.70	292.58	292.91	292.70	292.33	292.20	291.88	292.54
21	292.47	292.18	292.84	292.30	293.47	293.30	292.93	292.70	292.27	292.12	291.84	292.36
22	292.44	292.18	292.72	292.28	293.30	294.43	292.89	292.77	292.53	292.07	291.82	292.27
23	292.42	292.19	292.65	292.27	293.22	293.83	292.80	292.91	292.38	292.05	291.86	292.25
24	292.38	292.19	292.59	292.26	293.13	---	292.74	293.07	292.30	292.08	291.96	292.21
25	292.34	292.21	292.55	292.28	293.02	293.27	292.69	292.80	292.25	292.07	291.90	292.22
26	292.33	292.40	292.53	292.25	292.94	293.10	292.65	292.65	292.55	292.19	291.83	293.45
27	292.32	293.11	292.49	292.25	292.88	293.06	292.62	292.59	292.42	292.32	291.85	293.06
28	292.30	292.73	292.46	292.24	293.43	293.42	292.60	292.57	292.38	292.21	292.18	---
29	292.29	292.58	292.44	292.23	293.14	293.11	292.57	292.53	292.44	292.15	292.12	292.58
30	292.29	292.49	292.41	292.24	---	292.97	292.53	292.47	292.60	292.11	292.09	292.53
31	292.28	---	292.39	292.23	---	292.87	---	292.44	---	292.08	292.11	---
MEAN	292.56	292.31	292.61	292.35	292.82	292.90	292.75	292.52	292.32	292.19	291.96	292.43
MAX	293.08	293.11	293.30	292.65	293.70	294.43	293.41	293.07	292.60	292.44	292.18	293.45
MIN	292.28	292.15	292.32	292.23	292.20	292.51	292.53	292.27	292.14	292.05	291.82	291.95

WTR YR 2000: HIGHEST 294.43, MARCH 22; LOWEST 291.82, AUGUST 22.



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

LANCASTER COUNTY

395957076155204. Local number, LN 2044--Continued

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 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 CAC03 (39087)
OCT 1999								
14...	0915	80020	1028	3.2	7.2	861	16.8	304
NOV								
02...	0910	80020	1028	2.9	7.0	762	15.4	--
DEC								
07...	0925	80020	1028	4.7	7.2	743	12.6	--
JAN 2000								
05...	0920	80020	1028	3.0	7.2	990	9.6	290
FEB								
09...	1015	80020	1028	3.3	7.2	740	7.2	--
MAR								
24...	0910	80020	1028	6.3	7.1	923	8.4	--
APR								
19...	0840	80020	1028	3.2	7.0	1010	9.5	316
AUG								
14...	0848	1028	1028	.8	7.0	770	16.8	--
SEP								
28...	0900	1028	1028	1.3	7.3	804	16.9	--

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 PER 100 ML) (31673)
OCT 1999							
14...	.85	.643	.373	<.010	.005	4.21	K0
NOV							
02...	--	.471	.075	--	--	4.56	K0
DEC							
07...	--	.453	.649	--	--	4.17	K0
JAN 2000							
05...	.25	.110	1.13	<.010	E.004	4.37	K0
FEB							
09...	--	.190	.301	--	--	4.54	K0
MAR							
24...	--	.151	7.03	--	--	3.33	K1
APR							
19...	.13	<.020	15.9	.140	E.003	3.79	K12
AUG							
14...	--	--	--	--	--	4.86	K12
SEP							
28...	--	--	--	--	--	4.10	K400