

LANCASTER COUNTY

395957076155202. Local number, LN 2042.

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 12 ft, cased to 12 ft, closed end, screened from 9 to 10 ft.

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

DATUM.--Land-surface datum is 294.75 ft above sea level. Measuring point: Top of casing, 1.85 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.

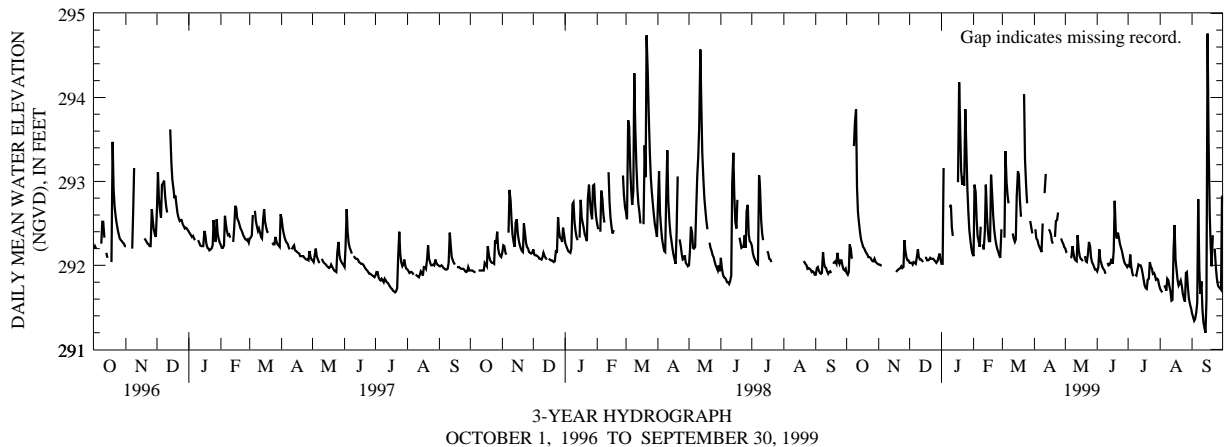
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 294.76 ft, Sept. 16, 1999; lowest water level, 291.20 ft, Sept. 14, 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	291.91	292.01	292.03	292.02	292.11	---	---	292.20	291.93	292.00	291.72	291.43
2	291.89	292.01	292.03	292.02	292.96	---	292.43	292.16	291.98	291.99	291.70	291.38
3	291.92	292.00	292.03	293.16	292.87	292.33	292.32	292.16	292.19	292.13	291.68	291.34
4	292.25	292.00	292.01	---	292.55	293.36	292.30	---	292.07	291.99	---	291.36
5	292.19	---	292.04	---	292.35	292.99	292.25	---	292.02	291.91	291.76	291.44
6	292.08	---	292.03	292.39	292.28	292.84	292.22	292.09	291.98	291.87	291.74	291.56
7	---	---	292.02	---	292.22	292.74	292.19	292.10	291.96	---	291.70	292.79
8	293.42	---	292.09	---	292.46	---	292.16	292.23	291.94	291.89	291.84	291.94
9	293.70	---	292.19	292.69	---	---	292.50	292.14	291.90	291.88	291.82	291.66
10	293.86	---	292.10	292.72	292.25	---	---	292.08	---	291.95	291.75	291.81
11	292.93	---	292.07	292.45	292.19	292.38	292.86	292.06	292.03	292.01	291.70	291.48
12	292.63	---	292.07	292.35	292.41	292.32	293.09	292.05	292.00	292.00	291.58	291.33
13	292.49	---	292.06	---	292.96	292.28	---	292.36	292.01	292.00	291.59	291.25
14	292.39	---	292.04	---	292.58	292.31	---	292.18	292.04	291.97	292.20	291.20
15	292.31	---	---	---	292.40	292.83	292.43	292.11	292.08	291.91	292.48	291.59
16	292.26	---	292.09	---	292.29	293.12	292.41	292.08	292.02	291.83	292.07	294.76
17	292.22	---	292.09	292.99	292.29	293.08	292.37	292.07	292.18	291.76	291.93	293.51
18	292.20	291.92	292.06	294.18	293.08	292.79	292.29	292.05	292.77	291.73	291.82	292.61
19	292.17	291.94	292.06	293.68	292.88	292.58	292.26	---	292.39	291.72	291.76	292.22
20	292.15	291.95	292.07	293.14	292.60	---	---	292.11	292.32	291.83	291.79	291.99
21	292.13	291.96	292.09	292.96	292.44	---	292.34	292.05	292.39	291.84	291.82	292.36
22	292.10	291.97	292.08	293.06	292.32	294.04	292.53	292.04	292.33	292.04	291.75	---
23	292.10	291.99	292.08	292.95	292.25	293.26	292.54	292.14	292.26	291.99	291.66	292.20
24	292.09	291.97	292.08	293.86	292.20	292.94	292.63	292.28	292.21	291.96	291.61	291.98
25	292.07	291.98	292.06	293.43	292.16	292.74	---	292.23	292.17	291.90	291.57	291.85
26	292.05	292.30	292.05	292.90	292.12	---	---	292.09	292.11	291.91	291.91	291.76
27	292.05	292.17	292.03	292.63	292.09	---	292.32	292.04	292.05	291.88	291.92	291.74
28	292.08	292.09	292.05	292.42	292.43	292.53	292.28	292.01	292.02	291.83	291.72	291.73
29	292.04	292.06	292.09	292.29	---	292.45	292.26	291.98	292.00	291.84	291.60	291.71
30	292.03	292.06	292.14	292.20	---	292.38	292.22	291.95	291.98	291.83	291.53	292.83
31	292.02	---	292.07	292.14	---	---	---	291.95	---	291.77	291.49	---
MEAN	292.32	292.02	292.07	292.81	292.43	292.78	292.40	292.11	292.11	291.91	291.77	291.96
MAX	293.86	292.30	292.19	294.18	293.08	294.04	293.09	292.36	292.77	292.13	292.48	294.76
MIN	291.89	291.92	292.01	292.02	292.09	292.28	292.16	291.95	291.90	291.72	291.49	291.20

WTR YR 1999: HIGHEST 294.76, SEPTEMBER 16; LOWEST 291.20, SEPTEMBER 14.



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WATER-QUALITY RECORDS

REMARKS.--Samples collected with peristaltic pump from recovery water after well pumped dry. 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 COLLECTING SAMPLE NUMBER (00027)	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STANDARD SOLVED) UNITS) (00400)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TEMPERATURE WATER (DEG C) (00010)	STREP-TOCOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 07...	0810	1028	80020	2.68	628	7.2	1.0	16.2	K0
NOV 05...	0920	1028	80020	2.76	591	7.3	4.3	14.2	K0
DEC 15...	0930	1028	80020	2.71	617	7.3	7.1	11.6	K1
JAN 13...	0900	1028	80020	2.63	602	7.3	--	9.5	K0
FEB 09...	0855	1028	80020	2.35	618	7.2	3.4	8.8	K1
MAR 09...	0930	1028	80020	2.35	621	7.1	1.5	7.5	K0
APR 20...	0920	1028	80020	2.50	592	7.3	1.2	9.6	K0
MAY 04...	1700	1028	80020	2.60	--	--	--	--	--
19...	0750	1028	80020	2.66	640	6.9	4.0	11.4	K0
JUN 10...	0810	1028	80020	2.79	644	7.1	5.7	13.4	K0
JUL 07...	0815	1028	80020	2.79	640	7.0	--	14.8	K9600
AUG 04...	0800	1028	80020	2.93	753	6.7	.5	15.1	95
SEP 22...	0845	1028	80020	1.74	702	6.4	5.0	16.7	K3

DATE	ALKALINITY 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, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO-DIS-SOLVED (MG/L AS P) (00671)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT 07...	254	<.010	<.050	.557	.67	.017	.020	--	--
NOV 05...	268	--	<.050	--	--	--	--	--	--
DEC 15...	245	--	.051	--	--	--	--	--	--
JAN 13...	242	<.010	<.050	.426	.56	.007	--	99	17
FEB 09...	--	--	--	.434	--	--	--	--	--
MAR 09...	--	--	--	.207	--	--	--	--	--
APR 20...	234	<.010	<.050	.443	.62	<.004	--	--	--
MAY 04...	--	<.010	.050	.563	.79	<.050	.016	--	--
19...	--	--	--	.514	--	--	--	--	--
JUN 10...	--	--	--	.053	--	--	--	--	--
JUL 07...	224	.031	2.49	.200	.54	.066	--	--	--
AUG 04...	--	--	<.050	.506	--	--	--	--	--
SEP 22...	--	--	.050	.761	--	--	--	--	--

