Water-Data Report 2012

422803087475302 Local number 46N12E-14.6g2 (Zion well 2)

Cambrian-Ordovician aquifer system
Mount Simon Sandstone

Lake County, IL

LOCATION.--Lat 42°28′05″, long 87°47′58″ referenced to North American Datum of 1983, in SW ¼ NE ¼ NW ¼ sec.14, T.46 N., R.12 E., Lake County, IL, Hydrologic Unit 04040002, at Illinois Beach State Park, northern unit. Owner: U.S. Geological Survey.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 2,264 ft. Upper casing diameter 1.25 in; top of first opening 2,244 ft, bottom of last opening 2,264 ft. Slotted screen, observation, artesian.

DATUM.--Land-surface datum is 586 ft above National Geodetic Vertical Datum of 1929. Measuring point: Black file mark on top of red PVC well casing, 2.67 ft above land-surface datum December 9, 1981 to present. Accuracy of datum is +/- 5 ft.

PERIOD OF RECORD.--
GROUND-WATER LEVELS: September 2010 to current year. December 1981 to August 2010 (periodic).

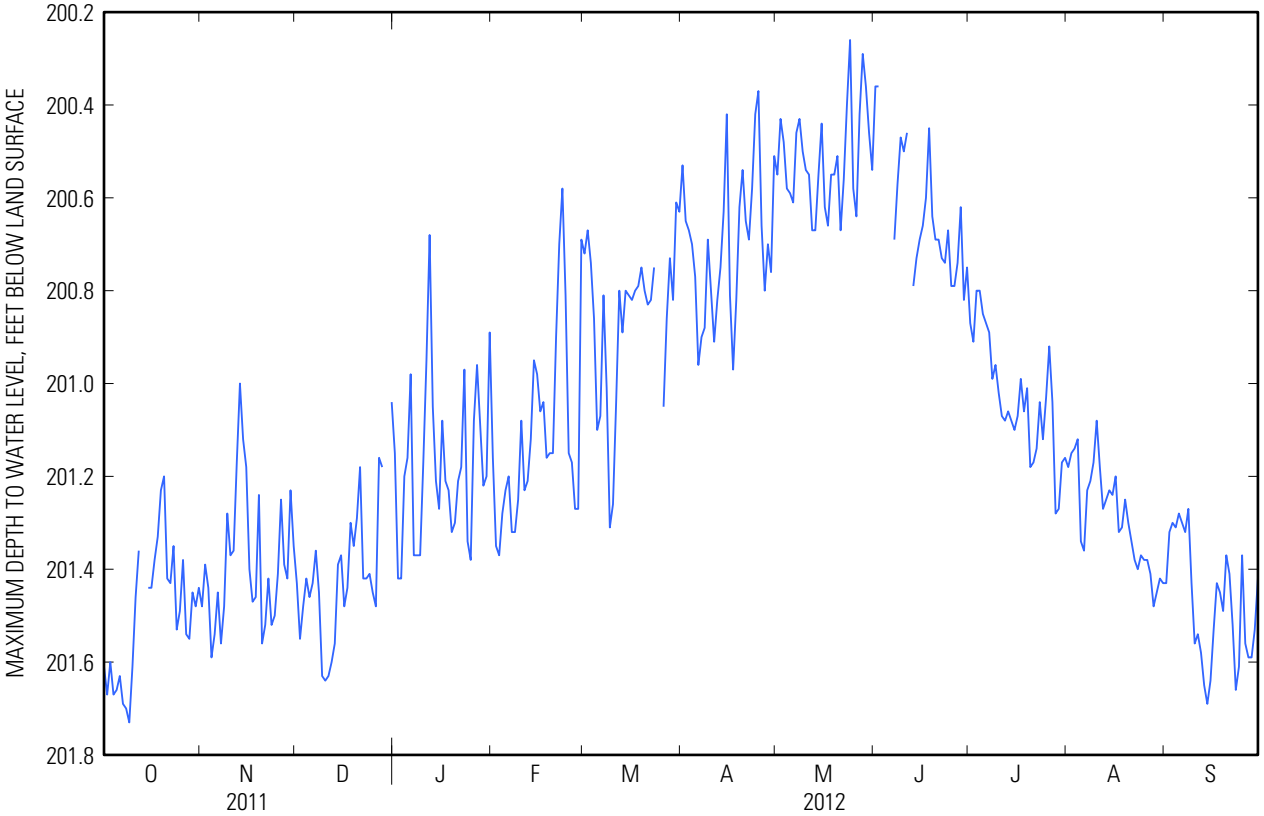
GAGE.--Water level recorder and radio telemetry. Ground water levels affected by regional pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 160.59 ft below land-surface datum, March 8, 1982; lowest, 213.00 ft below land-surface datum, October 10, 2007.

EXTREMES FOR CURRENT YEAR.--Highest recorded water level, 200.09 ft below land-surface datum, May 24; lowest recorded, 201.73 ft below land-surface datum October 9.

422803087475302 Local number 46N12E-14.6g2 (Zion well 2)—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	201.61	201.48	201.43	201.15	201.16	200.72	200.53	200.55	200.36	200.87	201.18	201.43
2	201.67	201.39	201.55	201.42	201.35	200.67	200.65	200.43	200.36	200.91	201.15	201.32
3	201.60	201.44	201.48	201.42	201.37	200.74	200.67	200.48	---	200.80	201.14	201.30
4	201.67	201.59	201.42	201.20	201.28	200.86	200.70	200.58	---	200.80	201.12	201.31
5	201.66	201.54	201.46	201.16	201.23	201.10	200.77	200.59	---	200.85	201.34	201.28
6	201.63	201.45	201.43	200.98	201.20	201.07	200.96	200.61	---	200.87	201.36	201.30
7	201.69	201.56	201.36	201.37	201.32	200.81	200.90	200.46	200.69	200.89	201.23	201.32
8	201.70	201.48	201.45	201.37	201.32	201.01	200.88	200.43	200.57	200.99	201.21	201.27
9	201.73	201.28	201.63	201.37	201.25	201.31	200.69	200.50	200.47	200.96	201.17	201.43
10	201.61	201.37	201.64	201.17	201.08	201.26	200.80	200.54	200.50	201.02	201.08	201.56
11	201.46	201.36	201.63	200.95	201.23	201.04	200.91	200.55	200.46	201.07	201.18	201.54
12	201.36	201.17	201.60	200.68	201.21	200.80	200.82	200.67	---	201.08	201.27	201.58
13	---	201.00	201.56	201.05	201.12	200.89	200.75	200.67	200.79	201.06	201.25	201.65
14	---	201.12	201.39	201.21	200.95	200.80	200.63	200.55	200.73	201.08	201.23	201.69
15	201.44	201.18	201.37	201.27	200.98	200.81	200.42	200.44	200.69	201.10	201.24	201.64
16	201.44	201.40	201.48	201.08	201.06	200.82	200.81	200.62	200.66	201.07	201.20	201.53
17	201.38	201.47	201.44	201.21	201.04	200.80	200.97	200.66	200.60	200.99	201.32	201.43
18	201.33	201.46	201.30	201.23	201.16	200.79	200.82	200.55	200.45	201.06	201.31	201.45
19	201.23	201.24	201.35	201.32	201.15	200.75	200.62	200.55	200.64	201.01	201.25	201.49
20	201.20	201.56	201.29	201.30	201.15	200.80	200.54	200.51	200.69	201.18	201.30	201.37
21	201.42	201.52	201.18	201.21	200.90	200.83	200.65	200.67	200.69	201.17	201.34	201.41
22	201.43	201.42	201.42	201.18	200.70	200.82	200.69	200.56	200.73	201.14	201.38	201.52
23	201.35	201.52	201.42	200.97	200.58	200.75	200.58	200.40	200.74	201.04	201.40	201.66
24	201.53	201.50	201.41	201.34	200.81	---	200.42	200.26	200.67	201.12	201.37	201.61
25	201.49	201.41	201.45	201.38	201.15	---	200.37	200.58	200.79	201.03	201.38	201.37
26	201.38	201.25	201.48	201.08	201.17	201.05	200.66	200.64	200.79	200.92	201.38	201.56
27	201.54	201.39	201.16	200.96	201.27	200.86	200.80	200.42	200.74	201.04	201.41	201.59
28	201.55	201.42	201.18	201.09	201.27	200.73	200.70	200.29	200.62	201.28	201.48	201.59
29	201.45	201.23	---	201.22	200.69	200.82	200.76	200.36	200.82	201.27	201.45	201.53
30	201.48	201.35	---	201.20	---	200.61	200.51	200.46	200.75	201.17	201.42	201.42
31	201.44	---	201.04	200.89	---	200.63	---	200.54	---	201.16	201.43	---
Mean	---	201.38	---	201.18	201.11	---	200.70	200.52	---	201.03	201.29	201.47
Max	---	201.59	---	201.42	201.37	---	200.97	200.67	---	201.28	201.48	201.69
Min	---	201.00	---	200.68	200.58	---	200.37	200.26	---	200.80	201.08	201.27

422803087475302 Local number 46N12E-14.6g2 (Zion well 2)—Continued