

Water-Data Report 2011

**423401071093801 Local number Wilmington well XMW 78**

Sand and gravel aquifers (glaciated regions)  
Ice-Contact Deposits, Including Eskers and Kames

Middlesex County, MA

LOCATION.--Lat 42°34'01", long 71°09'38" referenced to North American Datum of 1927, Middlesex County, MA, Hydrologic Unit 01090001, at building formerly known as Whitefield Public School, about 30 ft west of State Highway 62, and 0.3 mi north of Concord Street in Wilmington.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 12 ft. Upper casing diameter 42.00 in; top of first opening undefined, bottom of last opening undefined.

DATUM.--Land-surface datum is 95 ft above National Geodetic Vertical Datum of 1929. Measuring point: top edge of hole in base of steel shelter, 0.27 ft above land-surface datum, June 1, 1991, to present.

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Digital recorder with satellite telemeter at well since February 2001. Continuous graphic recorder, March 1958 to September 1982; digital recorder, October 1984 to current year; monthly measurements prior to March 1958.

COOPERATION.--Massachusetts Department of Environmental Protection, Office of Watershed Management; Massachusetts Department of Conservation and Recreation, Water Resources Commission.

REMARKS.--Records are good. Missing periods are not estimated.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.30 ft below land-surface datum, Mar. 30, 2010 (recorded value); lowest, 11.27 ft below land-surface datum, Oct. 30, 1957 (monthly measurement).

EXTREMES FOR CURRENT YEAR.--Highest water level, 5.19 ft below land-surface datum, Mar. 18, 2011; lowest, 10.13 ft below land-surface datum, Oct. 1, 2010.

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.12	9.40	8.81	8.41	8.42	7.55	5.82	6.20	7.49	7.87	9.00	8.10
2	9.99	9.41	8.79	8.40	8.42	7.45	5.80	6.25	7.53	7.92	8.90	8.11
3	9.97	9.42	8.77	8.40	8.44	7.39	5.81	6.30	7.58	7.96	8.78	8.12
4	9.97	9.42	8.76	8.40	8.45	7.33	5.82	6.34	7.62	8.01	8.89	8.15
5	9.96	9.36	8.76	8.40	8.45	7.27	5.74	6.37	7.66	8.05	8.94	8.19
6	9.88	9.33	8.75	8.41	8.43	7.11	5.80	6.43	7.70	8.10	8.97	8.23
7	9.78	9.32	8.75	8.42	8.43	6.46	5.85	6.48	7.75	8.14	8.96	8.19
8	9.78	9.29	8.76	8.43	8.39	6.27	5.89	6.53	7.79	8.17	8.76	7.89
9	9.76	9.24	8.77	8.44	8.37	6.17	5.92	6.58	7.83	8.20	8.69	7.92
10	9.75	9.20	8.78	8.47	8.35	6.09	5.96	6.64	7.84	8.24	8.30	7.93
11	9.74	9.18	8.79	8.48	8.34	5.84	5.94	6.69	7.88	8.27	8.45	7.93
12	9.73	9.15	8.74	8.47	8.32	5.63	5.97	6.74	7.86	8.30	8.44	7.92
13	9.73	9.13	8.29	8.51	8.33	5.54	5.87	6.79	7.89	8.34	8.44	7.92
14	9.72	9.10	8.44	8.53	8.31	5.49	5.81	6.84	7.93	8.37	8.44	7.95
15	9.47	9.08	8.40	8.54	8.32	5.48	5.91	6.87	7.96	8.41	8.39	7.99
16	9.50	9.06	8.35	8.55	8.30	5.42	5.96	6.89	8.00	8.45	8.25	8.04
17	9.48	8.98	8.31	8.57	8.28	5.33	5.56	6.95	8.04	8.48	8.27	8.10
18	9.45	8.95	8.29	8.58	8.25	5.24	5.66	6.99	8.07	8.52	8.27	8.14
19	9.43	8.94	8.26	8.51	8.17	5.22	5.71	6.96	8.11	8.55	8.26	8.17
20	9.40	8.92	8.23	8.42	8.12	5.27	5.71	7.00	8.15	8.59	8.27	8.21
21	9.38	8.90	8.22	8.36	8.08	5.28	5.75	7.06	8.19	8.63	8.28	8.24
22	9.37	8.88	8.22	8.35	8.06	5.30	5.84	7.11	8.17	8.67	8.30	8.27
23	9.36	8.86	8.22	8.34	8.04	5.33	5.86	7.13	7.75	8.71	8.35	8.30
24	9.36	8.85	8.24	8.34	8.02	5.39	5.84	7.16	7.88	8.75	8.40	8.21
25	9.35	8.84	8.26	8.34	7.96	5.48	5.90	7.20	7.78	8.78	8.44	8.24
26	9.35	8.82	8.27	8.33	7.81	5.55	5.94	7.24	7.79	8.81	8.46	8.28
27	9.35	8.82	8.24	8.32	7.74	5.60	5.99	7.28	7.80	8.84	8.48	8.32
28	9.35	8.82	8.29	8.34	7.66	5.67	6.01	7.33	7.80	8.88	8.06	8.35
29	9.36	8.82	8.34	8.35	---	5.73	6.06	7.37	7.80	8.91	8.09	8.25
30	9.37	8.82	8.37	8.37	---	5.78	6.13	7.41	7.82	8.94	8.11	8.20
31	9.38	---	8.39	8.40	---	5.82	---	7.45	---	8.97	8.10	---
<b>Mean</b>	9.60	9.08	8.48	8.43	8.22	5.95	5.86	6.86	7.85	8.45	8.48	8.13
<b>Max</b>	10.12	9.42	8.81	8.58	8.45	7.55	6.13	7.45	8.19	8.97	9.00	8.35
<b>Min</b>	9.35	8.82	8.22	8.32	7.66	5.22	5.56	6.20	7.49	7.87	8.06	7.89

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