

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY

413956070164301. Barnstable well A1W 230.

LOCATION.--Lat 41°39'56", long 70°16'43", Barnstable County, Hydrologic Unit 01090002, 50 ft west of Mary Dunn Road at Hyannis Airport and 0.3 mi north of intersection of Willow Street and State Highway 28 in Barnstable.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 35.8 ft, screened 32.8 to 35.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 43.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.51 ft below land-surface datum, May 20, 1987; lowest measured, 26.59 ft below land-surface datum, Oct. 21, 1991.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	25.64	DEC 20	26.27	FEB 26	26.03	APR 26	25.06	JUN 21	24.39	AUG 28	26.27
NOV 20	26.05	JAN 25	25.98	MAR 25	25.89	MAY 23	24.12	JUL 25	25.32	SEP 29	23.43
WATER YEAR 2002		HIGHEST	23.43	SEP 29, 2002		LOWEST	26.27	DEC 20, 2001		AUG 28, 2002	

414154070165001. Barnstable well A1W 247.

LOCATION.--Lat 41°41'54", long 70°16'50", Barnstable County, Hydrologic Unit 01090002, 30 ft east of Mary Dunn Road and 0.2 mi south of State Highway 6A in Barnstable.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 52 ft, screened 49 to 52 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 44.52 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.52 ft below land-surface datum, Apr. 22, 1997; lowest measured, 28.64 ft below land-surface datum, Oct. 25, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	26.38	DEC 20	26.97	FEB 26	27.29	APR 26	26.62	JUN 21	26.17	AUG 28	27.00
NOV 20	26.66	JAN 25	27.19	MAR 25	27.28	MAY 23	26.48	JUL 25	26.58	SEP 29	27.27
WATER YEAR 2002		HIGHEST	26.17	JUN 21, 2002		LOWEST	27.29	FEB 26, 2002			

414129070361401. Bourne well BHW 198.

LOCATION.--Lat 41°41'29", long 70°36'14", Barnstable County, Hydrologic Unit 01090002, 50 ft west of County Road and 0.3 mi south of Pocasset Road in Bourne.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 50 ft, screened 47 to 50 ft; new well drilled at same location August 1990, diameter 2.0 in., depth 50 ft, screened 40–50 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 55.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.65 ft above land-surface datum; prior to August 1990, 2.47 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.73 ft below land-surface datum, Mar. 24, 1998; lowest measured, 36.17 ft below land-surface datum, Oct. 25, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	34.32	DEC 21	34.94	FEB 26	34.86	APR 24	34.42	JUL 24	34.34	SEP 20	35.14
NOV 27	34.70	JAN 28	34.90	MAR 22	34.91	MAY 24	34.12	AUG 23	34.87		
WATER YEAR 2002		HIGHEST	34.12	MAY 24, 2002		LOWEST	35.14	SEP 20, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY--Continued

414518070020301. Brewster well BMW 21.

LOCATION.--Lat 41°45'18", long 70°02'03", Barnstable County, Hydrologic Unit 01090002, about 50 ft north of Nook Road, 0.1 mi south of Cliff Pond, 0.3 mi east of Silas Road, and at Nickerson State Park in Brewster.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.5 in., depth 24.8 ft, screened 21.8 to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 36.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--October 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.90 ft below land-surface datum, Apr. 25, 1974; lowest measured, 13.37 ft below land-surface datum, Sept. 26, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	12.20	DEC 20	12.83	FEB 19	13.04	APR 23	12.80	JUN 20	12.56	AUG 22	13.27
22	12.37	JAN 24	12.87	MAR 21	13.03	MAY 21	12.56	JUL 25	12.92	SEP 26	13.37
NOV 21	12.66										
WATER YEAR 2002	HIGHEST	12.20	OCT 02, 2001	LOWEST	13.37	SEP 26, 2002					

414630070014901. Brewster well BMW 22.

LOCATION.--Lat 41°46'30", long 70°01'49", Barnstable County, Hydrologic Unit 01090002, 50 ft east of entrance to Nickerson State Park and 50 ft south of State Highway 6A in Brewster.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 52 ft, screened 49 to 52 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape, digital recorder (60-minute interval) with satellite telemeter since December 2001.

DATUM.--Elevation of land-surface datum is 50.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.06 ft above land-surface datum, prior to December 2001, at land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated. Water levels affected by daily tidal fluctuations of about 0.03 ft.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.13 ft below land-surface datum, May 26, 1983; lowest measured, 33.60 ft below land-surface datum, Jan. 31, 1966.

**DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	33.37	33.47	33.55	33.33	32.81	32.53	32.50	32.94	33.38
2	---	---	---	33.38	33.47	33.55	33.29	32.80	32.53	32.51	32.95	33.39
3	---	---	---	33.38	33.48	33.54	33.26	32.80	32.52	32.52	32.97	33.39
4	---	---	---	33.40	33.47	33.54	33.24	32.79	32.52	32.54	32.98	33.39
5	---	---	e33.28	33.40	33.46	33.55	33.22	32.79	32.52	32.57	32.99	33.40
6	---	---	33.29	33.41	33.47	33.55	33.19	32.79	32.51	32.58	33.01	33.40
7	---	---	33.29	33.41	33.48	33.56	33.17	32.78	32.50	32.59	33.03	33.41
8	---	---	33.30	33.42	33.49	33.56	33.15	32.78	32.49	32.61	33.05	33.42
9	---	---	33.30	33.43	33.50	33.56	33.12	32.78	32.48	32.62	33.06	33.42
10	---	---	33.31	33.44	33.50	33.56	33.10	32.78	32.48	32.63	33.08	33.44
11	---	---	33.32	33.45	33.50	33.57	33.08	32.78	32.47	32.65	33.09	33.44
12	---	---	33.31	33.46	33.50	33.57	33.06	32.77	32.46	32.66	33.10	33.45
13	---	---	33.28	33.44	33.51	33.57	33.04	32.76	32.45	32.67	33.12	33.46
14	---	---	33.28	33.45	33.52	33.57	33.02	32.75	32.44	32.69	33.14	33.48
15	---	---	33.29	33.44	33.52	33.57	33.01	32.75	32.43	32.70	33.15	33.48
16	---	---	33.29	33.43	33.53	33.57	32.99	32.74	32.42	32.71	33.17	33.49
17	---	---	33.29	33.42	33.52	33.57	32.97	32.73	32.42	32.72	33.18	33.50
18	---	---	33.29	33.43	33.52	33.57	32.96	32.71	32.42	32.73	33.20	33.51
19	---	---	33.29	33.43	33.52	33.57	32.94	32.70	32.43	32.74	33.21	33.53
20	---	---	33.30	33.43	33.53	33.57	32.93	32.69	32.44	32.76	33.23	33.54
21	---	---	33.30	33.43	33.53	33.54	32.92	32.67	32.44	32.77	33.25	33.55
22	e32.84	---	33.30	33.45	33.53	33.52	32.92	32.67	32.44	32.79	33.26	33.56
23	---	---	33.31	33.46	33.53	33.52	32.90	32.65	32.43	32.80	33.27	33.57
24	---	---	33.31	33.47	33.54	33.52	32.89	32.63	32.43	32.82	33.28	33.57
25	---	---	33.32	33.48	33.54	33.52	32.88	32.62	32.44	32.84	33.29	33.57
26	---	---	33.33	33.47	33.54	33.51	32.87	32.61	32.44	32.85	33.30	33.57
27	---	---	33.33	33.47	33.54	33.49	32.86	32.60	32.44	32.87	33.33	33.56
28	---	e33.16	33.34	33.46	33.53	33.45	32.85	32.59	32.45	32.88	33.34	33.57
29	---	---	33.35	33.47	---	33.42	32.83	32.57	32.47	32.88	33.36	33.58
30	---	---	33.35	33.47	---	33.39	32.82	32.56	32.49	32.90	33.37	33.58
31	---	---	33.36	33.48	---	33.36	---	32.55	---	32.92	33.37	---
MEAN	---	---	---	33.44	33.51	33.53	33.03	32.71	32.46	32.71	33.16	33.49
LOW	---	---	---	33.48	33.54	33.57	33.33	32.81	32.53	32.92	33.37	33.58
HIGH	---	---	---	33.37	33.46	33.36	32.82	32.55	32.42	32.50	32.94	33.38
WTR YR 2002	INSTANTANEOUS	HIGH	32.41	JUNE 17-19	LOW	33.59	MAR 12, 16, SEP 30					

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY--Continued

414100070011101. Chatham well CGW 138.

LOCATION.--Lat 41°41'00", long 70°01'11", Barnstable County, Hydrologic Unit 01090002, 50 ft east of State Highway 137 and 300 ft north of State Highway 28 in Chatham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 44 ft, screened 41 to 44 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 35.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.77 ft above land-surface datum; prior to June 1980, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.94 ft below land-surface datum, Apr. 25, 1983; lowest measured, 26.38 ft below land-surface datum, Sept. 25, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	25.09	DEC 20	25.65	FEB 19	25.61	APR 23	24.78	JUN 20	24.63	AUG 22	25.56
	22 25.24	JAN 24	25.61	MAR 21	25.55	MAY 21	24.67	JUL 25	25.26	SEP 26	25.61
NOV 21	25.47										
WATER YEAR	2002	HIGHEST	24.63	JUN 20, 2002		LOWEST	25.65	DEC 20, 2001			

413525070291904. Mashpee well MIW 29.

LOCATION.--Lat 41°35'25", long 70°29'19", Barnstable County, Hydrologic Unit 01090002, 20 ft west of dirt road, 0.8 mi north of intersection of Great Hay Road and dirt road which is 0.12 mi northeast of intersection of Red Brook Road and Great Hay Road in Mashpee.

Owner: Town of Mashpee.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Hydraulic-rotary drilled observation water-table well, diameter 2.0 in., depth 40.0 ft, screened 37.0 to 40.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 15.78 above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel coupling, 1.36 ft above land-surface datum.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.62 ft below land-surface datum, Apr. 22 1987; lowest measured, 10.03 ft below land-surface datum, Oct. 24, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.54	DEC 21	9.92	FEB 26	9.66	APR 24	8.90	JUN 21	8.67	AUG 23	9.80
NOV 27	9.84	JAN 28	9.60	MAR 22	9.55	MAY 24	8.61	JUL 24	9.29	SEP 20	9.91
WATER YEAR	2002	HIGHEST	8.61	MAY 24, 2002		LOWEST	9.92	DEC 21, 2001			

414418070241601. Sandwich well SDW 252.

LOCATION.--Lat 41°44'18", long 70°24'16", Barnstable County, Hydrologic Unit 01090002, 0.5 mi north of State Highway 6A and 15 ft east of Private Road in Sandwich.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 57 ft, screened 55 to 57 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 53.47 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.88 ft below land-surface datum, Apr. 25, 1983; lowest measured, 48.23 ft below land-surface datum, Oct. 25, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	47.92	DEC 21	47.81	FEB 26	47.85	APR 24	47.81	JUN 21	47.54	AUG 23	48.08
NOV 27	47.94	JAN 28	48.03	MAR 22	48.00	MAY 24	47.69	JUL 24	47.86	SEP 20	47.94
WATER YEAR	2002	HIGHEST	47.54	JUN 21, 2002		LOWEST	48.08	AUG 23, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY--Continued

414124070265901. Sandwich well SDW 253.

LOCATION.--Lat 41°41'24", long 70°26'59", Barnstable County, Hydrologic Unit 01090002, 800 ft west of Stowe Road and 50 ft south of Farmersville Road in Sandwich.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 70 ft, screened 67 to 70 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 111.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.78 ft below land-surface datum, July 30, 1973; lowest measured, 55.05 ft below land-surface datum, Feb. 28, 1967.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	52.53	DEC 21	53.13	FEB 26	53.59	APR 24	53.62	JUN 21	53.57	AUG 23	54.55
NOV 27	52.97	JAN 30	53.30	MAR 22	53.58	MAY 24	53.32	JUL 24	54.06	SEP 20	54.59
WATER YEAR 2002		HIGHEST	52.53	OCT 25, 2001		LOWEST	54.59	SEP 20, 2002			

420239070062001. Truro well TSW 1.

LOCATION.--Lat 42°02'39", long 70°06'20", Barnstable County, Hydrologic Unit 01090002, near old pumping station about 200 ft north of State Highway 6A and 1.2 mi northwest of North Truro.

Owner: Town of Provincetown.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 68 ft, cased to 68 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 16.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping, barometric pressure, and tide.

PERIOD OF RECORD.--August 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.28 ft below land-surface datum, Mar. 23, 1983; lowest measured, 12.10 ft below land-surface datum, Sept. 11, 1954.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	10.70	DEC 20	10.60	FEB 19	10.61	APR 23	10.82	JUN 20	10.55	AUG 22	10.85
NOV 21	10.73	JAN 24	10.86	MAR 21	10.94	MAY 21	10.64	JUL 25	10.69	SEP 26	10.79
WATER YEAR 2002		HIGHEST	10.55	JUN 20, 2002		LOWEST	10.94	MAR 21, 2002			

420206070045901. Truro well TSW 89.

LOCATION.--Lat 42°02'06", long 70°04'59", Barnstable County, Hydrologic Unit 01090002, 300 ft west of U.S. Highway 6 and 50 ft north of Highland Road in Truro.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 21.7 ft, screened 16.7 to 21.7 ft; prior to November 1989, diameter 1.25 in., depth 27.7 ft, screened 24.7 to 27.7 ft at same location.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 16.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum; prior to November 1989, 0.22 ft above land-surface datum.

PERIOD OF RECORD.--September 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.20 ft below land-surface datum, Apr. 25, 1983; lowest measured, 12.96 ft below land-surface datum, Sept. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	12.38	DEC 20	12.75	FEB 19	12.45	APR 23	12.51	JUN 20	12.23	AUG 22	12.61
NOV 21	12.90	JAN 24	12.50	MAR 21	12.59	MAY 21	12.30	JUL 25	12.38	SEP 26	12.53
WATER YEAR 2002		HIGHEST	12.23	JUN 20, 2002		LOWEST	12.90	NOV 21, 2001			

GROUND-WATER LEVELS IN MASSACHUSETTS

BARNSTABLE COUNTY--Continued

415353069585401. Wellfleet well WNW 17.

LOCATION.--Lat 41°53'53", long 69°58'54", Barnstable County, Hydrologic Unit 01090002, about 150 ft east of old pumping station and 45 ft west of road to the public beach at Cape Cod National Seashore in Wellfleet.

Owner: Cape Cod National Seashore.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in., depth 42 ft, screen information not available.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 19.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.24 ft above land-surface datum, 1.13 ft prior to June 1992.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.27 ft below land-surface datum, June 27, 1967; lowest measured, 12.75 ft below land-surface datum, Jan. 31, 1967.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	11.58	DEC 20	12.27	FEB 19	12.46	APR 23	11.87	JUN 20	11.64	AUG 22	12.13
	22 11.80	JAN 24	12.35	MAR 21	12.47	MAY 21	11.72	JUL 24	11.86	SEP 26	12.25
NOV 21	12.04										
WATER YEAR	2002	HIGHEST	11.58	OCT 02, 2001	LOWEST	12.47	MAR 21, 2002				

BERKSHIRE COUNTY

421550073025101. Becket well A3W 12.

LOCATION.--Lat 42°15'50", long 73°02'51", Berkshire County, Hydrologic Unit 01080206, at edge of Bonny Rigg Restaurant parking lot, 30 ft north of Route 20 and 0.2 mi east of Route 8.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 35 ft, screened 25 to 35 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1285 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.36 ft below land-surface datum, Apr. 24, 1996; lowest measured, 4.62 ft below land-surface datum, Aug. 23, 1988, July 24, 1991.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.30	DEC 20	2.77	FEB 26	3.06	APR 26	2.93	JUN 27	3.04	AUG 28	3.53
NOV 28	3.21	JAN 29	3.12	MAR 22	2.94	MAY 29	2.88	JUL 30	3.17	SEP 24	3.35
WATER YEAR	2002	HIGHEST	2.77	DEC 20, 2001	LOWEST	3.53	AUG 28, 2002				

423503073075401. Cheshire well CJW 2.

LOCATION.--Lat 42°35'03", long 73°07'54", Berkshire County, Hydrologic Unit 02020003, at intersection of Wells and Jenks Roads 2.3 mi northeast of Cheshire.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 22 ft, cased with stone to 22 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1,210 ft, above National Geodetic Vertical Datum of 1929. Measuring point: Inside rim of concrete well top, 1.0 ft above land-surface datum.

REMARKS.--Water level may be affected by nearby pumping during summer period.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft below land-surface datum, Jan. 19, 1952; lowest measured, 19.83 ft below land-surface datum, Aug. 24, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.17	DEC 19	5.58	FEB 25	5.65	APR 25	3.40	JUN 26	3.31	AUG 27	10.04
NOV 27	8.72	JAN 28	6.18	MAR 21	3.38	MAY 28	3.55	JUL 29	7.42	SEP 23	9.80
WATER YEAR	2002	HIGHEST	3.31	JUN 26, 2002	LOWEST	10.04	AUG 27, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

BERKSHIRE COUNTY--Continued

421316073212801. Great Barrington well GMW 2.

LOCATION.--Lat 42°13'16", long 73°21'28", Berkshire County, Hydrologic Unit 01100005, 30 ft west of State Highway 41 and 1.5 mi north of intersection of State Highway 41 and U.S. Highway 7 in Great Barrington.

Owner: Private owner.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 16 ft, cased with stone to 16 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 732 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of stone curbing, east side of well, 1.12 ft above land-surface datum. Prior to July 25, 1978, measured at land-surface datum.

REMARKS.--Water level affected by stream.

PERIOD OF RECORD.--June 1951 to current year. Continuous graphic recorder January 1968 to August 1982.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.99 ft below land-surface datum, Apr. 21, 1983; lowest measured, 14.97 ft below land-surface datum, Nov. 20, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	12.31	DEC 19	12.34	FEB 25	12.04	APR 25	10.82	JUN 26	10.48	AUG 27	12.26
NOV 28	12.49	JAN 28	12.24	MAR 21	11.80	MAY 29	10.12	JUL 29	11.99	SEP 23	12.14
WATER YEAR 2002	HIGHEST	10.12	MAY 29, 2002	LOWEST	12.49	NOV 28, 2001					

420912073043001. Otis well OTW 7.

LOCATION.--Lat 42°09'12", long 73°04'30", Berkshire County, Hydrologic Unit 01080207, about 400 ft south of Hawley Road and 15 ft west of State Highway 8 in Otis.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 17.5 ft, screened 15.5 to 17.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1,145 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.12 ft above land-surface datum.

REMARKS.--Water levels affected by Minor Brook and Farmington River.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.55 ft below land-surface datum, Apr. 21, 1983; lowest measured, 10.16 ft below land-surface datum, Sept. 21, 1983.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.41	DEC 20	8.76	FEB 26	8.74	APR 26	8.44	JUN 27	8.43	AUG 28	9.92
NOV 28	9.50	JAN 29	9.26	MAR 22	8.44	MAY 29	7.99	JUL 30	9.27	SEP 24	9.91
WATER YEAR 2002	HIGHEST	7.99	MAY 29, 2002	LOWEST	9.92	AUG 28, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

BERKSHIRE COUNTY--Continued

422745073112001. Pittsfield well PTW 51.

LOCATION.--Lat 42°27'45", long 73°11'20", Berkshire County, Hydrologic Unit 01100005, 30 ft east of Hubbard Ave. and about 100 ft north of Barton Brook in Pittsfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 31.5 ft, screened 26.5 to 31.5 ft. Prior to July 1986, augered observation water-table well, diameter 1.25 in., depth 31.5 ft, screened 29.5 to 31.5 ft.

INSTRUMENTATION.--Monthly measurement with groundwater electric tape by USGS personnel. Digital recorder (60-min punch) July 1986 to current year, satellite telemeter since July 2001.

DATUM.--Elevation of land-surface datum is 1,050 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing in base of aluminum shelter, 1.83 ft above land-surface datum; prior to July 1986, top of casing, 2.50 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--August 1963 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.30 ft below land-surface datum, Apr. 25, 1969; lowest measured, 27.57 ft below land-surface datum, Dec. 11, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.79	23.45	24.81	21.26	20.04	16.63	15.82	15.33	14.73	15.15	18.56	21.52
2	21.84	23.51	24.67	21.27	19.52	16.60	15.80	15.29	14.75	15.23	18.66	21.60
3	21.90	23.56	24.71	21.28	19.04	16.47	15.78	15.30	14.81	15.33	18.67	21.68
4	21.95	23.61	24.78	21.32	18.63	16.41	15.79	15.32	14.83	15.44	18.76	21.77
5	22.01	23.66	24.84	21.37	18.36	16.40	15.78	15.29	14.81	15.55	18.86	21.86
6	22.07	23.72	24.87	21.40	18.18	16.35	15.79	15.28	14.76	15.66	18.97	21.95
7	22.13	23.77	24.90	21.44	18.01	16.34	15.82	15.25	14.69	15.78	19.09	22.04
8	22.19	23.82	24.92	21.51	17.89	16.33	15.82	15.28	14.65	15.89	e19.17	22.13
9	22.25	23.88	24.95	21.55	17.83	16.30	15.81	15.25	14.62	15.99	---	22.22
10	22.31	23.93	24.97	21.61	17.72	16.24	15.84	15.25	14.64	16.12	---	22.31
11	22.37	23.98	25.01	21.66	17.59	16.24	15.84	15.30	14.63	16.25	---	22.39
12	22.43	24.03	25.03	21.71	17.45	16.21	15.80	15.26	14.65	16.39	---	22.49
13	22.50	24.08	25.06	21.72	17.36	16.19	15.78	15.17	14.68	16.52	---	22.58
14	22.56	24.14	24.94	21.77	17.34	16.22	15.76	14.99	14.68	16.66	---	22.66
15	22.58	24.19	24.58	21.79	17.28	16.21	15.70	14.94	14.68	16.80	---	22.76
16	22.53	24.24	24.24	21.82	17.22	16.22	15.66	14.91	14.69	16.94	---	22.81
17	22.61	24.29	23.96	21.83	17.18	16.25	15.61	14.90	14.69	17.08	---	22.83
18	22.67	24.33	23.73	21.86	17.18	16.22	15.58	14.85	14.73	17.21	---	22.90
19	22.73	24.38	23.52	21.89	17.15	16.24	15.54	14.79	14.76	17.33	---	22.99
20	22.78	24.43	23.34	21.91	17.11	16.22	15.52	14.77	14.79	17.31	---	23.07
21	22.84	24.48	23.16	21.93	17.03	16.20	15.50	14.76	14.80	17.43	---	23.15
22	22.90	24.53	22.97	21.99	16.95	16.22	15.46	14.78	14.83	17.55	---	23.23
23	22.95	24.58	22.78	22.02	16.90	16.22	15.48	14.77	14.82	17.66	---	23.31
24	23.01	24.63	22.62	22.02	16.86	16.25	15.48	14.76	14.81	17.69	---	23.39
25	23.06	24.68	22.36	21.97	16.79	16.26	15.46	14.82	14.85	17.80	---	23.46
26	23.11	24.70	22.03	21.85	16.71	16.22	15.46	14.82	14.89	17.90	---	23.54
27	23.17	24.73	21.75	21.71	16.64	16.12	15.46	14.83	14.94	18.00	e21.22	23.60
28	23.23	24.77	21.60	21.56	16.64	16.06	15.41	14.84	14.99	18.11	21.30	23.59
29	23.28	24.81	21.46	21.39	---	16.02	15.37	14.84	15.04	18.22	21.37	23.60
30	23.34	24.85	21.34	21.10	---	15.96	15.35	14.83	15.09	18.33	21.34	23.67
31	23.39	---	21.27	20.63	---	15.90	---	14.77	---	18.44	21.42	---
MEAN	22.60	24.19	23.72	21.62	17.59	16.25	15.64	15.02	14.78	16.83	---	22.70
LOW	23.39	24.85	25.06	22.02	20.04	16.63	15.84	15.33	15.09	18.44	---	23.67
HIGH	21.79	23.45	21.27	20.63	16.64	15.90	15.35	14.76	14.62	15.15	---	21.52
WTR YR 2002	INSTANTANEOUS HIGH	14.61	JUNE 9, 11	LOW	25.07	DEC 13, 14						

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

BERKSHIRE COUNTY--Continued

420351073193602. Sheffield well SJW 58.

LOCATION.--Lat 42°03'51", long 73°19'36", Berkshire County, Hydrologic Unit 01100005, about 100 ft east of U.S. Highway 7 and 30 ft north of Hewins Road in Sheffield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well with sand point, diameter 2.0 in., depth 32 ft, screened 27 to 32 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 680 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.02 ft below land-surface datum, June 23, 1990; lowest measured, 16.95 ft below land-surface datum, Sept. 23, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	15.53	DEC 19	16.23	FEB 25	16.80	APR 25	16.80	JUN 26	15.70	AUG 27	16.58
NOV 28	15.96	JAN 28	16.61	MAR 21	16.91	MAY 29	16.09	JUL 29	16.08	SEP 23	16.95
WATER YEAR 2002	HIGHEST 15.53	OCT 24, 2001	LOWEST 16.95	SEP 23, 2002							

BRISTOL COUNTY

415447071155301. Attleboro well ATW 83.

LOCATION.--Lat 41°54'47", long 71°15'53", Bristol County, Hydrologic Unit 01090004, about 150 ft north of parking lot and 200 ft west of dirt road at Bristol County Nursing Home in Attleboro.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 20.6 ft, screened 18.6 to 20.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 145 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.98 ft below land-surface datum, Jan. 27, 1978; lowest measured, 5.34 ft below land-surface datum, Aug. 30, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.40	DEC 27	3.91	FEB 26	3.91	APR 29	3.73	JUN 25	4.11	AUG 27	5.17
NOV 27	4.36	JAN 29	3.85	MAR 26	3.65	MAY 29	3.66	JUL 29	4.79	SEP 24	4.68
WATER YEAR 2002	HIGHEST 3.65	MAR 26, 2002	LOWEST 5.17	AUG 27, 2002							

414705071045301. Freetown well F3W 23.

LOCATION.--Lat 41°47'05", long 71°04'53", Bristol County, Hydrologic Unit 01090004, about 300 ft west of State Highway 24 and 200 ft north of State Highway 79 in Freetown.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 42 ft, screened 40 to 42 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 38 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by tide.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.72 ft below land-surface datum, Apr. 22, 1983; lowest measured, 15.70 ft below land-surface datum, Jan. 29, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	14.57	DEC 26	15.22	FEB 26	15.34	APR 29	14.58	JUN 24	14.22	AUG 27	15.33
NOV 28	15.06	JAN 29	15.29	MAR 26	15.30	MAY 28	14.16	JUL 29	14.86	SEP 24	15.33
WATER YEAR 2002	HIGHEST 14.16	MAY 28, 2002	LOWEST 15.34	FEB 26, 2002							

GROUND-WATER LEVELS IN MASSACHUSETTS

BRISTOL COUNTY--Continued

414025070572801. New Bedford well NGW 116.

LOCATION.--Lat 41°40'25", long 70°57'28", Bristol County, Hydrologic Unit 01090002, New Bedford Municipal Airport, 30 ft east of control tower building in New Bedford.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 27.3 ft, screened 25.3 to 27.3 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 65 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.31 ft below land-surface datum, Mar. 26, 1969; lowest measured, 5.20 ft below land-surface datum, July 24, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.26	DEC 26	3.91	FEB 26	4.10	APR 30	3.76	JUN 24	4.09	AUG 27	5.13
NOV 28	4.60	JAN 29	3.92	MAR 26	3.88	MAY 29	3.81	JUL 30	4.82	SEP 25	4.53
WATER YEAR 2002	HIGHEST	3.76	APR 30, 2002	LOWEST	5.13	AUG 27, 2002					

415812071111101. Norton well N4W 37.

LOCATION.--Lat 41°58'12", long 71°11'11", Bristol County, Hydrologic Unit 01090004, at Wheaton College, 250 ft northeast of observatory in Norton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 19.5 ft, screened 17.5 to 19.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 105 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.35 ft below land-surface datum, Dec. 29, 1969; lowest measured, 11.39 ft below land-surface datum, Sept. 24, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	8.88	DEC 27	7.64	FEB 25	7.07	APR 30	7.06	JUN 25	7.29	AUG 26	9.37
NOV 27	9.54	JAN 29	6.93	MAR 26	6.25	MAY 29	6.43	JUL 30	8.77	SEP 25	8.96
WATER YEAR 2002	HIGHEST	6.25	MAR 26, 2002	LOWEST	9.54	NOV 27, 2001					

414714071175901. Seekonk well SHW 275.

LOCATION.--Lat 41°47'14", long 71°17'59", Bristol County, Hydrologic Unit 01090004, middle of median strip of Interstate Highway 195 and 1.1 mi west of Palmer River in Seekonk.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 14.4 ft, screened 12.4 to 14.4 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 21 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.02 ft below land-surface datum, Dec. 20, 1986; lowest measured, 8.02 ft below land-surface datum, Sept. 26, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.61	DEC 26	5.91	FEB 26	5.83	APR 29	5.44	JUN 24	5.89	AUG 27	7.75
NOV 28	6.70	JAN 29	5.79	MAR 26	5.58	MAY 28	5.67	JUL 29	6.93	SEP 24	6.90
WATER YEAR 2002	HIGHEST	5.44	APR 29, 2002	LOWEST	7.75	AUG 27, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

BRISTOL COUNTY--Continued

415457071060101. Taunton well TAW 337.

LOCATION.--Lat 41°54'57", long 71°06'01", Bristol County, Hydrologic Unit 01090004, Taunton State Hospital, about 200 ft west of Mill River and about 300 ft east of Danforth Street in Taunton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 20 ft, screened 18 to 20 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water levels affected by Mill River.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.96 ft below land-surface datum, Dec. 29, 1969; lowest measured, 12.43 ft below land-surface datum, Oct. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.99	DEC 26	9.75	FEB 25	9.39	APR 30	8.90	JUN 25	9.00	AUG 26	10.14
NOV 28	10.08	JAN 29	9.37	MAR 26	8.97	MAY 29	8.43	JUL 30	9.72	SEP 25	10.03
WATER YEAR	2002	HIGHEST	8.43	MAY 29, 2002	LOWEST	10.14	AUG 26, 2002				

DUKES COUNTY

412346070353403. Edgartown well ENW 52.

LOCATION.--Lat 41°23'46", long 70°35'34", Dukes County, Hydrologic Unit 01090002, 0.5 mi west of Airport Road and 0.6 mi north of West Tisbury Road in Edgartown.

Owner: Martha's Vineyard State Forest.

AQUIFER.--Glacial sand, gravel and cobbles of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 64 ft, screened 61 to 64 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 34 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--December 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.93 ft below land-surface datum, May 24 and June 27, 1987; lowest measured, 20.95 ft below land-surface datum, Mar. 28, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	18.66	DEC 28	19.79	FEB 26	20.56	APR 25	20.24	JUN 27	19.32	AUG 27	19.64
NOV 27	19.25	JAN 29	20.26	MAR 28	20.95	MAY 28	19.71	JUL 26	19.33	SEP 30	20.06
WATER YEAR	2002	HIGHEST	18.66	OCT 26, 2001	LOWEST	20.95	MAR 28, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY

423641071102501. Andover well AJW 462.

LOCATION.--Lat 42°36'41", long 71°10'25", Essex County, Hydrologic Unit 01070002, about 1,200 ft south of Shawsheen River, and 30 ft west of Interstate Highway 93 in Andover.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 32.5 ft, screened 30.5 to 32.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 110 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by nearby construction starting about January 1993 to about January 1995.

PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.72 ft below land-surface datum, June 20, 1984; lowest measured, 22.56 ft below land-surface datum, July 28, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	16.35	DEC 28	16.52	FEB 25	16.40	APR 26	15.85	JUN 24	15.55	AUG 28	16.49
NOV 28	16.68	JAN 30	16.40	MAR 27	16.13	MAY 31	15.41	JUL 29	16.13		
WATER YEAR 2002		HIGHEST	15.41	MAY 31, 2002		LOWEST	16.68	NOV 28, 2001			

424322070592401. Georgetown well GCW 168.

LOCATION.--Lat 42°43'22", long 70°59'24", Essex County, Hydrologic Unit 01090001, 18 ft south of State Highway 133 and 25 ft east of Winter Street at Murca Park in Georgetown.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 21 ft, screened 19 to 21 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.27 ft below land-surface datum, Mar. 27, 2001; lowest measured, 6.65 ft below land-surface datum, Sept. 22, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.18	DEC 28	5.36	FEB 25	4.72	APR 26	4.40	JUN 24	4.67	AUG 28	6.43
NOV 27	6.19	JAN 30	4.95	MAR 27	4.21	MAY 29	4.11	JUL 29	5.72	SEP 30	5.90
WATER YEAR 2002		HIGHEST	4.11	MAY 29, 2002		LOWEST	6.43	AUG 28, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY--Continued

424841071004101. Haverhill well HLW 23.

LOCATION.--Lat 42°48'41", long 71°00'41", Essex County, Hydrologic Unit 01070002, about 50 ft north of Amesbury Line Road and 0.9 mi south of State Highway 110 in Haverhill.

Owner: Private owner.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 12 in., depth 15.1 ft, cased with tile to 15.1 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric tape by observer. Continuous graphic recorder October 1960 to September 1982, digital recorder (60-minute punch) October 1984 to current year.

DATUM.--Elevation of land-surface datum is 105 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole in base of steel recorder shelter, 1.71 ft above land-surface datum, 1.65 ft prior to June 8, 1995.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.96 ft below land-surface datum, Apr. 7, 8, 1987; lowest, 15.02 ft below land-surface datum, Feb. 2, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.09	14.43	14.65	14.42	14.08	13.54	12.85	12.52	11.38	11.57	12.53	13.38
2	14.10	14.44	14.66	14.42	14.06	13.52	12.81	12.52	11.38	11.59	12.55	13.40
3	14.12	14.45	14.66	14.43	14.04	13.50	12.76	12.50	11.40	11.61	12.59	13.42
4	14.12	14.46	14.67	14.44	14.02	13.47	12.73	12.48	11.42	11.64	12.63	13.44
5	14.14	14.46	14.67	14.45	13.99	13.45	12.69	12.46	11.42	11.67	12.66	13.45
6	14.15	14.48	14.68	14.47	13.97	13.43	12.66	12.44	11.43	11.70	12.69	13.47
7	14.17	14.48	14.69	14.48	13.96	13.41	12.64	12.42	11.43	11.73	12.73	13.49
8	14.18	14.49	14.69	14.49	13.94	13.38	12.61	12.41	11.40	11.77	12.76	13.51
9	14.20	14.50	14.70	14.50	13.94	13.36	12.59	12.40	11.39	11.79	12.80	13.53
10	14.21	14.50	14.70	14.51	13.92	13.34	12.58	12.39	11.41	11.83	12.83	13.55
11	14.22	14.51	14.71	14.52	13.90	13.33	12.58	12.39	11.42	11.86	12.86	13.57
12	14.23	14.52	14.71	14.52	13.85	13.31	12.56	12.38	11.44	11.89	12.89	13.59
13	14.25	14.53	14.70	14.52	13.82	13.30	12.55	12.36	11.42	11.92	12.92	13.61
14	14.26	14.54	14.70	14.48	13.79	13.28	12.55	12.25	11.41	11.95	12.95	13.63
15	14.27	14.54	14.68	14.45	13.77	13.28	12.56	12.12	11.41	11.98	12.99	13.65
16	14.28	14.55	14.65	14.42	13.75	13.27	12.56	12.00	11.38	12.02	13.01	13.66
17	14.28	14.56	14.63	14.41	13.73	13.27	12.56	11.91	11.38	12.05	13.04	13.68
18	14.28	14.57	14.62	14.40	13.71	13.26	12.57	11.85	11.38	12.09	13.07	13.69
19	14.29	14.58	14.58	14.40	13.68	13.26	12.58	11.77	11.40	12.12	13.09	13.71
20	14.30	14.59	14.55	14.40	13.67	13.25	12.59	11.71	11.41	12.15	13.12	13.72
21	14.30	14.60	14.53	14.40	13.66	13.24	12.61	11.65	11.41	12.19	13.16	13.74
22	14.31	14.60	14.51	14.40	13.64	13.22	12.62	11.60	11.42	12.22	13.18	13.75
23	14.33	14.61	14.50	14.40	13.63	13.21	12.64	11.56	11.42	12.25	13.20	13.77
24	14.34	14.62	14.49	14.38	13.61	13.20	12.65	11.51	11.42	12.29	13.23	13.76
25	14.35	14.62	14.46	14.31	13.60	13.19	12.66	11.48	11.45	12.32	13.25	13.77
26	14.36	14.63	14.45	14.23	13.58	13.18	12.64	11.46	11.46	12.35	13.27	13.78
27	14.38	14.64	14.43	14.19	13.56	13.15	12.62	11.45	11.48	12.38	13.29	13.80
28	14.39	14.64	14.42	14.17	13.55	13.10	12.59	11.43	11.50	12.41	13.32	13.80
29	14.40	14.64	14.42	14.15	---	13.04	12.56	11.42	11.52	12.44	13.34	13.81
30	14.41	14.65	14.42	14.13	---	12.97	12.54	11.41	11.55	12.47	13.35	13.82
31	14.42	---	14.42	14.11	---	12.91	---	11.40	---	12.51	13.36	---
MEAN	14.26	14.55	14.59	14.39	13.80	13.28	12.62	11.99	11.42	12.02	12.99	13.63
LOW	14.42	14.65	14.71	14.52	14.08	13.54	12.85	12.52	11.55	12.51	13.36	13.82
HIGH	14.09	14.43	14.42	14.11	13.55	12.91	12.54	11.40	11.38	11.57	12.53	13.3
WTR YR 2002	INSTANTANEOUS	HIGH	11.38	JUNE 1, 2, 9, 16-18	LOW	14.71	DEC	11-13				

GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY--Continued

424520070562401. Newbury well NIW 27.

LOCATION.--Lat 42°45'20", long 70°56'24", Essex County, Hydrologic Unit 01090001, about 300 ft east of Interstate Highway 95 and 100 ft north of Central Street in Newbury.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 31 in., depth 19.8 ft, cased with tile to 19.8 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric tape by observer. Continuous graphic recorder January 1967 to September 1982, digital recorder (60-minute punch) October 1984 to current year.

DATUM.--Elevation of land-surface datum is 55 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole in base of steel recorder shelter, 2.15 ft above land-surface datum. Prior to October 1978, 2.0 ft above land-surface datum; October 1978 to Sept. 18, 1990, 1.95 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--February 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.94 ft below land-surface datum, Oct. 21, 1996; lowest, 12.68 ft below land-surface datum, Nov. 24, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.35	11.86	12.13	11.27	9.95	8.70	6.36	5.93	4.76	5.92	8.55	10.39
2	11.36	11.87	12.13	11.27	9.89	8.67	6.22	5.81	4.83	5.98	8.63	10.41
3	11.38	11.88	12.13	11.26	9.83	8.59	6.06	5.70	4.93	6.05	8.70	10.42
4	11.40	11.89	12.14	11.26	9.76	8.47	5.96	5.66	5.03	6.13	8.76	10.42
5	11.42	11.90	12.14	11.26	9.72	8.38	5.86	5.64	5.08	6.22	8.82	10.44
6	11.44	11.91	12.15	11.26	9.70	8.28	5.78	5.63	5.13	6.32	8.89	10.46
7	11.46	11.92	12.15	11.26	9.68	8.20	5.77	5.61	5.18	6.42	8.96	10.49
8	11.48	11.93	12.15	11.26	9.65	8.15	5.77	5.63	5.20	6.52	9.03	10.53
9	11.51	11.94	12.15	11.25	9.66	8.11	5.77	5.67	5.23	6.62	9.10	10.56
10	11.54	11.94	12.12	11.23	9.66	8.05	5.80	5.68	5.28	6.71	9.17	10.60
11	11.56	11.95	12.13	11.22	9.61	8.04	5.87	5.75	5.33	6.82	9.24	10.63
12	11.58	11.96	12.13	11.21	9.52	8.04	5.91	5.82	5.37	6.92	9.31	10.67
13	11.61	11.97	12.13	11.19	9.41	8.02	5.92	5.83	5.41	7.02	9.39	10.72
14	11.63	11.98	12.12	11.15	9.38	8.00	5.95	5.49	5.44	7.12	9.46	10.76
15	11.65	11.99	12.10	11.10	9.34	8.01	5.99	4.99	5.47	7.22	9.54	10.81
16	11.67	12.00	12.06	11.05	9.30	8.01	6.03	4.82	5.40	7.32	9.60	10.85
17	11.68	12.01	12.02	10.99	9.28	8.04	6.07	4.75	5.30	7.43	9.67	10.87
18	11.68	12.02	11.91	10.95	9.27	8.05	6.11	4.72	5.26	7.52	9.73	10.88
19	11.68	12.03	11.82	10.91	9.25	8.04	6.15	4.56	5.27	7.61	9.80	10.91
20	11.68	12.04	11.74	10.88	9.22	8.02	6.17	4.44	5.31	7.69	9.87	10.93
21	11.69	12.05	11.67	10.86	9.18	7.95	6.22	4.39	5.36	7.77	9.94	10.96
22	11.70	12.06	11.62	10.83	9.11	7.79	6.28	4.38	5.40	7.85	10.00	10.99
23	11.72	12.07	11.59	10.81	9.04	7.63	6.33	4.39	5.44	7.93	10.05	11.02
24	11.73	12.08	11.55	10.76	8.98	7.50	6.40	4.38	5.47	8.02	10.10	11.00
25	11.75	12.09	11.50	10.65	8.91	7.41	6.46	4.46	5.54	8.10	10.14	10.99
26	11.76	12.10	11.45	10.48	8.83	7.36	6.46	4.53	5.61	8.17	10.19	10.99
27	11.77	12.11	11.40	10.32	8.77	7.23	6.45	4.60	5.67	8.23	10.23	10.99
28	11.79	12.12	11.36	10.19	8.72	7.00	6.39	4.66	5.73	8.29	10.28	10.97
29	11.81	12.12	11.32	10.10	---	6.77	6.25	4.68	5.80	8.34	10.33	10.96
30	11.82	12.13	11.30	10.04	---	6.57	6.09	4.70	5.87	8.40	10.35	10.94
31	11.84	---	11.28	10.00	---	6.45	---	4.73	---	8.48	10.37	---
MEAN	11.62	12.00	11.86	10.91	9.38	7.86	6.09	5.10	5.34	7.26	9.55	10.75
LOW	11.84	12.13	12.15	11.27	9.95	8.70	6.46	5.93	5.87	8.48	10.37	11.02
HIGH	11.35	11.86	11.28	10.00	8.72	6.45	5.77	4.38	4.76	5.92	8.55	10.39
WTR YR 2002	INSTANTANEOUS	HIGH	4.38	MAY 21-24	LOW	12.16	DEC 8, 9					

GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY--Continued

423845070542501. Topsfield well TQW 1.

LOCATION.--Lat 42°38'45", long 70°54'25", Essex County, Hydrologic Unit 01090001, 0.7 mi south of Ipswich Road and 120 ft west of Hamilton Road in Topsfield.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 22.5 ft, cased with stone to 22.5 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of steel rim in concrete cover, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--February 1936 to October 1947, April 1957 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.22 ft below land-surface datum, Mar. 23, 1983; lowest measured, 17.52 ft below land-surface datum, Jan. 27, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.67	DEC 28	16.60	FEB 25	14.85	APR 26	10.15	JUN 24	11.11	AUG 28	14.19
NOV 27	16.40	JAN 30	16.00	MAR 27	11.91	MAY 29	9.31	JUL 29	12.74	SEP 30	15.09
WATER YEAR 2002	HIGHEST	9.31	MAY 29, 2002	LOWEST	16.60	DEC 28, 2001					

423505070491702. Wenham well WPW 76.

LOCATION.--Lat 42°35'05", long 70°49'17", Essex County, Hydrologic Unit 01090001, 45 ft west of State Highway 128 and 120 ft of Grapevine Road in Wenham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 22.0 ft, screened 20.0 to 22.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.39 ft below land-surface datum, Jan. 26, 1978; lowest measured, 4.65 ft below land-surface datum, Aug. 30, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	3.69	DEC 28	3.10	FEB 25	2.50	APR 26	2.21	JUN 20	2.80	AUG 28	3.98
NOV 27	3.86	JAN 30	2.51	MAR 27	1.93	MAY 29	2.38	JUL 29	3.30	SEP 30	3.63
WATER YEAR 2002	HIGHEST	1.93	MAR 27, 2002	LOWEST	3.98	AUG 28, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

FRANKLIN COUNTY

423809072435601. Colrain well CSW 8.

LOCATION.--Lat 42°38'09", long 72°43'56", Franklin County, Hydrologic Unit 01080203, 15 ft east of State Highway 112 and 100 ft north of North River Bridge in Colrain.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 32.3 ft, screened 30.3 to 32.3 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 460 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.97 ft above land-surface datum, 1.66 ft prior to October 1995.

REMARKS.--Water levels affected by North River.

PERIOD OF RECORD.--December 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.68 ft below land-surface datum, Apr. 21, 1983 (revised); lowest measured, 23.48 ft below land-surface datum, Jan. 31, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	21.82	DEC 19	22.39	FEB 25	22.90	APR 25	20.95	JUN 26	17.81	AUG 27	20.10
NOV 27	22.32	JAN 28	22.90	MAR 21	22.62	MAY 28	18.39	JUL 29	18.80	SEP 23	20.94
WATER YEAR 2002		HIGHEST	17.81	JUN 26, 2002		LOWEST	22.90	JAN 28, 2002		FEB 25, 2002	

423310072355801. Deerfield well DFW 44.

LOCATION.--Lat 42°33'10", long 72°35'58", Franklin County, Hydrologic Unit 01080203, 1.2 mi south of Deerfield River Bridge and 15 ft east of U.S. Highway 5 in Deerfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 27.6 ft, screened 25.6 to 27.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 140 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--December 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.42 ft below land-surface datum, May 29, 1979; lowest measured, 6.16 ft below land-surface datum, Sept. 25, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.87	DEC 19	2.55	FEB 25	2.74	APR 25	2.65	JUN 26	2.70	AUG 27	4.76
NOV 27	3.91	JAN 28	3.00	MAR 21	2.39	MAY 28	2.67	JUL 29	3.11	SEP 23	4.07
WATER YEAR 2002		HIGHEST	2.39	MAR 21, 2002		LOWEST	4.76	AUG 27, 2002			

423339072524101. Hawley well HMW 8.

LOCATION.--Lat 42°33'39", long 72°52'41", Franklin County, Hydrologic Unit 01080206, in state forest parking area on west side of Plainfield Road opposite East Cemetery.

Owner: State Forest.

AQUIFER.--Glacial till and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 17 ft, screened 7 to 17 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1700 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.18 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.48 ft below land-surface datum, Apr. 25, 1996; lowest measured, 6.92 ft below land-surface datum, Sept. 27, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.83	DEC 19	4.36	FEB 25	4.07	APR 25	3.59	JUN 26	3.48	AUG 27	5.38
NOV 27	5.46	JAN 28	4.79	MAR 21	4.02	MAY 28	3.17	JUL 29	4.16	SEP 23	5.71
WATER YEAR 2002		HIGHEST	3.17	MAY 28, 2002		LOWEST	5.71	SEP 23, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

FRANKLIN COUNTY--Continued

423441072170701. Orange well ORW 63.

LOCATION.--Lat 42°34'41", long 72°17'07", Franklin County, Hydrologic Unit 01080202, at Orange Airport, 100 ft along and 50 ft northwest of main entrance road to airport, off East River Street in Orange.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 20.6 ft, screened 18.6 to 20.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 530 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.75 ft above land-surface datum, 3.45 ft prior to May 1992.

PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.81 ft below land-surface datum, Apr. 25, 1996; lowest measured, 8.74 ft below land-surface datum, Nov. 27, 2001.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.51	DEC 19	8.68	FEB 25	8.31	APR 25	7.45	JUN 26	6.79	AUG 27	8.11
NOV 27	8.74	JAN 28	8.58	MAR 21	7.92	MAY 28	6.69	JUL 29	7.56	SEP 23	8.42
WATER YEAR 2002	HIGHEST	6.69	MAY 28, 2002	LOWEST	8.74	NOV 27, 2001					

422607072324401. Sunderland well S6W 7.

LOCATION.--Lat 42°26'07", long 72°32'44", Franklin County, Hydrologic Unit 01080201, about 100 ft east of State Highway 116 and 30 ft north of Russellville Brook in Sunderland.

Owner: Sunderland Water Department.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in., depth 54 ft, cased to 54 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water level affected by pumping and nearby Russellville Brook.

PERIOD OF RECORD.--November 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.25 ft below land-surface datum, Apr. 24, 1984; lowest measured, 23.27 ft below land-surface datum, Apr. 25, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	18.06	DEC 19	19.95	FEB 25	21.58	APR 25	23.27	JUN 26	20.31	AUG 27	19.62
NOV 27	18.45	JAN 28	20.24	MAR 21	22.43	MAY 28	20.10	JUL 29	19.68	SEP 23	20.21
WATER YEAR 2002	HIGHEST	18.06	OCT 24, 2001	LOWEST	23.27	APR 25, 2002					

422559072332402. Sunderland well S6W 68.

LOCATION.--Lat 42°25'59", long 72°33'24", Franklin County, Hydrologic Unit 01080201, about 175 ft east of North Plain Road and 500 ft north of Plum Tree Road in Sunderland.

Owner: Private owner.

AQUIFER.--Glacial lacustrine deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in., depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Oct. 22, 1989, May 21, 1990; lowest measured, 5.41 ft below land-surface datum, Sept. 23, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.53	DEC 19	4.22	FEB 25	4.29	APR 25	4.00	JUN 26	3.96	AUG 27	5.19
NOV 27	4.78	JAN 28	4.74	MAR 21	3.97	MAY 28	3.49	JUL 29	4.68	SEP 23	5.41
WATER YEAR 2002	HIGHEST	3.49	MAY 28, 2002	LOWEST	5.41	SEP 23, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPDEN COUNTY

421228072585301. Blandford well BEW 9.

LOCATION.--Lat 42°12'28", long 72°58'53", Hampden County, Hydrologic Unit 01080206, 10 ft west of Blair Road and 0.25 mi south of intersection with North Blandford Road.

Owner: Springfield Water Department.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1140 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.39 ft below land-surface datum, June 27, 2002; lowest measured, 4.60 ft below land-surface datum, Aug. 24, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	2.18	DEC 20	2.08	FEB 26	2.29	APR 26	1.99	JUN 27	1.39	AUG 28	3.14
NOV 28	2.21	JAN 29	2.35	MAR 22	2.09	MAY 29	2.12	JUL 30	2.67	SEP 24	2.91
WATER YEAR	2002	HIGHEST	1.39	JUN 27, 2002		LOWEST	3.14	AUG 28, 2002			

421012072324501. Chicopee well CMW 95.

LOCATION.--Lat 42°10'12", long 72°32'45", Hampden County, Hydrologic Unit 01080204, in Chicopee Memorial State Park, 100 ft east of check-in house on north side of road in Chicopee.

Owner: Commonwealth of Massachusetts.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0-in. PVC, depth 34.0 ft, screened 30.0 to 34.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 200 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.48 ft above land-surface datum, 3.0 ft prior to October 1995.

PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.40 ft below land-surface datum, Aug. 21, 1984; lowest measured, 24.03 ft below land-surface datum, Sept. 23, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	22.56	DEC 19	23.16	FEB 25	23.60	APR 25	23.69	JUN 26	23.01	AUG 27	23.78
NOV 27	22.94	JAN 28	23.44	MAR 21	23.72	MAY 28	23.30	JUL 29	23.43	SEP 23	24.03
WATER YEAR	2002	HIGHEST	22.56	OCT 24, 2001		LOWEST	24.03	SEP 23, 2002			

420357072511601. Granville well GLW 5.

LOCATION.--Lat 42°03'57", long 72°51'16", Hampden County, Hydrologic Unit 01080206, near Granville Public School, 275 ft south of State Highway 57 and 0.2 mi west of Sodom Street in Granville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 67.7 ft, screened 65.7 to 67.7 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 675 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.06 ft below land-surface datum, June 21, 1983; lowest, 37.20 ft below land-surface datum, Jan. 24, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	34.29	DEC 20	35.27	JAN 29	35.71	FEB 26	35.88	MAR 22	35.98	AUG 28	35.09
NOV 28	34.92										
WATER YEAR	2002	HIGHEST	34.29	OCT 25, 2001		LOWEST	35.98	MAR 22, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPDEN COUNTY--Continued

420259072581701. Granville well GLW 6.

LOCATION.--Lat 42°02'59", long 72°58'17", Hampden County, Hydrologic Unit 01080207, at Granville State Forest, 20 ft west of West Hartland Road and 0.9 mi north of state boundary in Granville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 20.8 ft, screened 18.8 to 20.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1,160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.78 ft above land-surface datum, 2.5 ft prior to October 1995.

REMARKS.--Water levels affected by Halfway Brook.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.49 ft below land-surface datum, Apr. 26, 1972; lowest measured, 8.50 ft below land-surface datum, Aug. 23, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.94	DEC 20	5.84	FEB 26	5.77	APR 26	5.30	JUN 27	5.30	AUG 28	8.38
NOV 28	7.34	JAN 29	6.78	MAR 22	5.24	MAY 29	4.49	JUL 30	7.55	SEP 24	8.31
WATER YEAR	2002	HIGHEST	4.49	MAY 29, 2002	LOWEST	8.38	AUG 28, 2002				

421240072490201. Montgomery well M7W 19.

LOCATION.--Lat 42°12'40", long 72°49'02", Hampden County, Hydrologic Unit 01080206, at corner of Russell Road and road to cemetery, about 500 ft south of intersection of Main Road and Russell Road.

Owner: Westfield Water Department.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 18 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.33 ft above land-surface datum, Feb. 25, 1998; lowest measured, 4.31 ft below land-surface datum, Sept. 21, 1993

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.03	DEC 20	2.69	FEB 26	2.53	APR 26	1.70	JUN 27	1.18	AUG 28	3.63
NOV 28	3.33	JAN 29	3.01	MAR 22	2.15	MAY 29	.89	JUL 30	2.23	SEP 24	3.83
WATER YEAR	2002	HIGHEST	0.89	MAY 29, 2002	LOWEST	3.83	SEP 24, 2002				

420430072491201. Southwick well SVW 95.

LOCATION.--Lat 42°04'30", long 72°49'12", Hampden County, Hydrologic Unit 01080206, in garden 100 ft north of Route 57 and about 600 ft west of intersection with Loomis Street.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 37 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 270 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum, 3.0 ft prior to October 1995.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.66 ft below land-surface datum, July 24, 1989; lowest measured, 6.52 ft below land-surface datum, Sept. 24, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.84	DEC 20	5.82	FEB 26	6.17	APR 26	6.04	JUN 27	5.27	AUG 28	6.33
NOV 28	6.16	JAN 29	6.38	MAR 22	5.94	MAY 29	5.17	JUL 30	5.88	SEP 24	6.52
WATER YEAR	2002	HIGHEST	5.17	MAY 29, 2002	LOWEST	6.52	SEP 24, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPDEN COUNTY--Continued

420646072420101. Westfield well WVW 62.

LOCATION.--Lat 42°06'46", long 72°42'01", Hampden County, Hydrologic Unit 01080206, at Western Massachusetts Hospital about 200 ft east of East Mountain Road and 0.4 mi north of U.S. Highway 20 in Westfield.

Owner: Commonwealth of Massachusetts.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in., depth 22 ft, casing information not available.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.5 ft above land-surface datum.

REMARKS.--Water level affected by pumping.

PERIOD OF RECORD.--August 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.70 ft below land-surface datum, Oct. 29, 1975; lowest measured, well dry, Sept. 22, 1983, Nov. 21, 1983.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.78	DEC 20	10.35	FEB 26	10.28	APR 26	9.13	JUN 27	8.10	AUG 28	10.27
NOV 28	10.18	JAN 29	10.63	MAR 22	9.86	MAY 29	7.93	JUL 30	9.23	SEP 24	10.82
WATER YEAR 2002		HIGHEST	7.93	MAY 29, 2002		LOWEST	10.82	SEP 24, 2002			

420924072422602. Westfield well WVW 152.

LOCATION.--Lat 42°09'24", long 72°42'26", Hampden County, Hydrologic Unit 01080206, about 100 ft south of Owen District Road, 0.4 mi west of intersection of Owen District Road and Mountain Road at East Mountain Country Club, 0.4 mi east of Barnes Municipal Airport.

Owner: City of Westfield.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.0 in., depth 16 ft, screened 6 to 16 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 215.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.43 ft below land-surface datum, Feb. 20, 1997; lowest measured, 4.72 ft below land-surface datum, Dec. 21, 1986, Jan. 24, 1987.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.15	DEC 20	2.72	FEB 26	3.16	APR 26	3.20	JUN 27	3.32	AUG 28	3.65
NOV 28	3.08	JAN 29	3.17	MAR 22	2.85	MAY 29	3.19	JUL 30	3.54	SEP 24	3.58
WATER YEAR 2002		HIGHEST	2.72	DEC 20, 2001		LOWEST	3.65	AUG 28, 2002			

420905072254001. Wilbraham well XJW 55.

LOCATION.--Lat 42°09'05", long 72°25'40", Hampden County, Hydrologic Unit 01080204, 45 ft south of U.S. Highway 20 and 0.1 mi west of North Main Street in Wilbraham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 62.5 ft, screened 60.5 to 62.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 255 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.07 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.15 ft below land-surface datum, Jan. 2, 1997; lowest measured, 45.44 ft below land-surface datum, Jan. 24, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	43.02	DEC 19	44.37	FEB 25	44.63	APR 25	43.60	JUN 26	39.11	AUG 27	42.34
NOV 27	43.90	JAN 28	44.77	MAR 21	44.50	MAY 28	41.00	JUL 29	40.80	SEP 23	43.18
WATER YEAR 2002		HIGHEST	39.11	JUN 26, 2002		LOWEST	44.77	JAN 28, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPSHIRE COUNTY

422733072532601. Cummington well CYW 13.

LOCATION.--Lat 42°27'33", long 72°53'26", Hampshire County, Hydrologic Unit 01080206, at end of dirt road between lumber yard and elementary school in Cummington center.

Owner: Town of Cummington.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 39 ft, screened 29 to 39 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 988 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.59 ft above land-surface datum, 3.0 ft prior to October 1995.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, Apr. 21, 1993; lowest measured, 6.52 ft below land-surface datum, Sept. 23, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.00	DEC 19	5.29	FEB 25	5.40	APR 25	4.80	JUN 26	4.90	AUG 27	6.36
NOV 27	6.00	JAN 28	5.56	MAR 21	5.27	MAY 28	4.44	JUL 29	5.86	SEP 23	6.29
WATER YEAR 2002	HIGHEST	4.44	MAY 28, 2002	LOWEST	6.36	AUG 27, 2002					

421355072322001. Granby well GKW 68.

LOCATION.--Lat 42°13'55", long 72°32'20", Hampshire County, Hydrologic Unit 01080201, about 15 ft east of Morgan Street, 0.3 mi south of East Street, and 2.0 mi southwest of Granby.

Owner: Holyoke Water Power Co.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 18 ft, screened 16 to 18 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 239.17 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--April 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.25 ft below land-surface datum, Apr. 21, 1983; lowest measured, 11.17 ft below land-surface datum, Nov. 25, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	10.58	DEC 19	10.80	FEB 25	9.93	APR 25	8.55	JUN 26	7.78	AUG 27	9.82
NOV 27	10.76	JAN 28	10.33	MAR 21	9.43	MAY 28	7.67	JUL 29	8.95	SEP 23	10.46
WATER YEAR 2002	HIGHEST	7.67	MAY 28, 2002	LOWEST	10.80	DEC 19, 2001					

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPSHIRE COUNTY--Continued

422103072241102. Pelham well PDW 23.

LOCATION.--Lat 42°21'03", long 72°24'11", Hampshire County, Hydrologic Unit 01080204, at Knight's Corner, 50 ft east of U.S. Highway 202 and 75 ft south of small pond in Pelham.

Owner: Massachusetts Department of Public Works.

AQUIFER.--Bedrock.

WELL CHARACTERISTICS.--Air-percussion observation water-table well, diameter 6.0 in., depth 740 ft, cased to 740 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric tape by USGS personnel. Continuous graphic recorder October 1981 to December 1983, April 1986 to October 1991; digital recorder (60-minute punch) October 1991 to current year, satellite telemeter since September 2001.

DATUM.--Elevation of land-surface datum is 939 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in base of aluminum recorder shelter, 1.53 ft above land-surface datum, 1.60 ft prior to November 1995.

REMARKS.--Water levels affected by unknown pumping, regulation, or construction; missing periods of more than one day are not estimated.

PERIOD OF RECORD.--October 1981 to October 1991; digital recorder (60-minute interval) October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft below land-surface datum, Apr. 7, 1982; lowest, 24.04 ft below land-surface datum, May 5, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.28	17.62	17.68	17.23	16.79	16.35	15.57	15.77	15.57	16.18	17.12	18.26
2	17.19	17.58	17.68	17.23	16.72	16.38	15.53	15.72	15.74	16.20	17.21	18.21
3	17.18	17.52	17.68	17.29	16.70	16.24	15.46	15.70	15.81	16.16	17.24	18.17
4	17.16	17.51	17.74	17.26	16.63	16.14	15.43	15.72	15.85	16.12	17.36	18.16
5	17.14	17.52	17.73	17.26	16.69	16.16	15.44	15.71	15.83	16.09	17.36	18.19
6	17.09	17.51	17.71	17.21	16.70	16.14	15.40	15.71	15.78	16.11	17.31	18.23
7	17.07	17.50	17.69	17.09	16.67	16.11	15.40	15.70	15.74	16.14	17.31	18.27
8	17.09	17.52	17.69	17.11	16.63	16.11	15.43	15.74	15.73	16.27	17.34	18.34
9	17.12	17.51	17.64	17.09	16.66	16.09	15.40	15.81	15.70	16.31	17.39	18.34
10	17.19	17.50	17.74	17.04	16.75	16.04	15.39	15.79	15.73	16.32	17.41	18.36
11	17.18	17.50	17.74	17.03	16.63	16.04	15.43	15.81	15.80	16.39	17.54	18.34
12	17.14	17.61	17.74	17.01	16.61	16.02	15.47	15.81	15.76	16.42	17.72	18.41
13	17.12	17.67	17.69	16.95	16.58	15.97	15.46	15.74	15.76	16.47	17.75	18.47
14	17.12	17.65	17.63	16.99	16.59	15.90	15.47	15.64	15.75	16.56	17.76	18.53
15	17.07	17.61	17.61	16.99	16.57	15.89	15.47	15.63	15.74	16.66	17.78	18.59
16	17.07	17.67	17.62	17.01	16.51	15.90	15.57	15.65	15.73	16.69	17.80	18.57
17	17.01	17.71	17.64	17.00	16.47	15.96	15.61	15.66	15.71	16.74	17.82	18.61
18	17.06	17.71	17.52	16.99	16.58	15.95	15.71	15.62	15.74	16.79	17.84	18.65
19	17.08	17.67	17.46	16.99	16.62	15.89	15.75	15.58	15.77	16.86	17.86	18.71
20	17.10	17.61	17.43	16.96	16.60	15.84	15.74	15.61	15.80	16.86	17.96	18.74
21	17.59	17.72	17.42	16.95	16.50	15.71	15.79	15.62	15.85	16.89	18.07	18.74
22	17.65	17.73	17.44	17.02	16.49	15.70	15.80	15.59	15.90	16.95	18.16	18.76
23	17.65	17.74	17.43	17.06	16.48	15.71	15.79	15.56	15.93	16.93	18.14	18.74
24	17.62	17.75	17.41	16.99	16.53	15.76	15.83	15.54	15.91	16.92	18.12	18.77
25	17.58	17.75	17.39	16.95	16.49	15.79	15.87	15.55	15.92	16.99	18.11	18.80
26	17.54	17.75	17.30	16.99	16.41	15.79	15.93	15.55	15.94	17.01	18.13	18.83
27	17.57	17.73	17.29	16.99	16.31	15.71	15.98	15.54	15.98	16.99	18.14	18.79
28	17.63	17.70	17.26	16.95	16.26	15.71	15.95	15.54	15.96	16.98	18.19	18.76
29	17.68	17.71	17.21	16.95	---	15.68	15.84	15.60	16.01	16.97	18.21	18.80
30	17.65	17.70	17.17	16.92	---	15.62	15.82	15.60	16.10	16.97	18.21	18.79
31	17.65	---	17.16	16.91	---	15.65	---	15.56	---	17.06	18.26	---
MEAN	17.30	17.63	17.53	17.05	16.58	15.93	15.62	15.66	15.82	16.61	17.76	18.53
LOW	17.68	17.75	17.74	17.29	16.79	16.38	15.98	15.81	16.10	17.06	18.26	18.83
HIGH	17.01	17.50	17.16	16.91	16.26	15.62	15.39	15.54	15.57	16.09	17.12	18.16
WTR YR 2002	INSTANTANEOUS	HIGH	15.37	APR 9, 10	LOW	18.85	SEP 26					

GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPSHIRE COUNTY--Continued

422103072241103. Pelham well PDW 24.

LOCATION.--Lat 42°21'03", long 72°24'11", Hampshire County, Hydrologic Unit 01080204, at Knight's Corner, 50 ft east of U.S. Highway 202 and 75 ft south of small pond in Pelham.

Owner: Massachusetts Department of Public Works.

AQUIFER.--Glacial sand and till of the Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., PVC, depth 25.0 ft, screened 21.0 to 25.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 940 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.86 ft above land-surface datum, 3.0 ft prior to October 1995.

PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.80 ft below land-surface datum, Mar. 29, 1994; lowest water level measured, 8.35 ft below land-surface datum, Sept. 25, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	7.51	JAN 03	6.75	FEB 26	5.65	APR 30	4.11	JUN 26	4.70	AUG 23	7.58
NOV 29	7.80	29	6.57	MAR 26	4.87	MAY 30	4.21	JUL 30	6.25	SEP 25	8.35
WATER YEAR 2002		HIGHEST	4.11	APR 30, 2002		LOWEST	8.35	SEP 25, 2002			

421627072201701. Ware well WEW 43.

LOCATION.--Lat 42°16'27", long 72°20'17", Hampshire County, Hydrologic Unit 01080204, 30 ft north of State Highway 9 and 200 ft east of Swift River in Ware.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 27.2 ft, screened 25.2 to 27.2 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 380 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Swift River.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1975, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.08 ft below land-surface datum, Apr. 28, 1997; lowest measured, 11.51 ft below land-surface datum, Jan. 20, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	8.62	JAN 03	9.30	FEB 26	9.30	APR 30	8.99	JUN 26	9.01	AUG 23	9.00
NOV 27	8.75	29	9.40	MAR 26	9.27	MAY 30	8.73	JUL 30	8.82	SEP 25	9.00
WATER YEAR 2002		HIGHEST	8.62	OCT 24, 2001		LOWEST	9.40	JAN 29, 2002			

421923072451001. Westhampton well WXW 20.

LOCATION.--Lat 42°20'28", long 72°48'24", Hampshire County, Hydrologic Unit 01080206, 20 ft north of Northwest Road and 0.75 mi west of intersection of Kings Road and Northwest Road, 4 mi northwest of Westhampton.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 42 ft, screened 32 to 42 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1175 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--July 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.17 ft below land-surface datum, May 29, 1996; lowest measured, 18.60 ft below land-surface datum, Feb. 26, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	16.29	DEC 20	17.80	FEB 26	18.60	APR 26	15.38	JUN 27	10.19	AUG 28	13.88
NOV 28	17.24	JAN 29	18.45	MAR 22	18.30	MAY 29	11.38	JUL 30	12.03	SEP 24	15.31
WATER YEAR 2002		HIGHEST	10.19	JUN 27, 2002		LOWEST	18.60	FEB 26, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY

422812071244401. Acton well ACW 158.

LOCATION.--Lat 42°28'12", long 71°24'44", Middlesex County, Hydrologic Unit 01070005, 30 ft north of State Highway 2 and 150 ft east of Wetherbee Street in Acton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 33.8 ft, screened 31.8 to 33.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape; digital recorder (60-minute interval) with satellite telemeter, since July 2001.

DATUM.--Elevation of land-surface datum is 153 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf in base of steel shelter, 3.68 ft above land-surface datum. Prior to July 2001, top of casing, 3.60 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.98 ft below land-surface datum, Apr. 23, 1987; lowest measured, 21.86 ft below land-surface datum, Jan. 26, 1966.

DEPTH BELOW LAND S. DCP, in FT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	18.24	18.32	18.94
2	---	---	---	---	---	---	---	---	---	e17.89	18.34	18.96
3	---	---	---	---	---	---	---	---	---	17.89	18.36	18.98
4	---	---	---	---	---	---	---	---	---	17.88	18.39	19.00
5	---	---	---	---	---	---	---	---	---	17.88	18.42	19.02
6	---	---	---	---	---	---	---	---	---	17.89	18.44	19.04
7	---	---	---	---	---	---	---	---	---	17.90	18.46	19.06
8	---	---	---	---	---	---	---	---	---	17.90	18.48	19.09
9	---	---	---	---	---	---	---	---	---	17.90	18.50	19.11
10	---	---	---	---	---	---	---	---	---	17.91	18.53	19.13
11	---	---	---	---	---	---	---	---	---	17.92	18.56	19.15
12	---	---	---	---	---	---	---	---	---	17.93	18.58	19.17
13	---	---	---	---	---	---	---	---	---	17.95	18.59	19.19
14	---	---	---	---	---	---	---	---	---	17.96	18.61	19.21
15	---	---	---	---	---	---	---	---	---	17.97	18.63	19.23
16	---	---	---	---	---	---	---	---	---	17.99	18.65	19.25
17	---	---	---	---	---	---	---	---	---	18.01	18.66	19.27
18	---	---	---	---	---	---	---	---	---	18.02	18.68	19.29
19	---	---	---	---	---	---	---	---	e17.84	18.04	18.69	19.31
20	---	---	---	---	---	---	---	---	---	18.06	18.71	19.33
21	---	---	---	---	e19.20	---	---	---	---	18.08	18.73	19.35
22	---	---	---	e19.18	---	---	---	---	---	18.09	18.75	19.37
23	e19.48	---	---	---	---	---	e17.18	e17.46	---	18.11	18.77	19.38
24	---	---	---	---	---	---	---	---	---	18.13	18.79	19.40
25	---	---	---	---	---	---	---	---	---	18.15	18.81	19.42
26	---	---	---	---	---	---	---	---	---	18.18	18.82	19.44
27	---	e19.43	---	---	---	---	---	---	---	18.20	18.84	19.45
28	---	---	---	---	---	e17.81	---	---	---	18.22	18.86	19.47
29	---	---	e19.08	---	---	---	---	---	---	18.25	18.88	19.49
30	---	---	---	---	---	---	---	---	---	18.27	18.90	19.50
31	---	---	---	---	---	---	---	---	---	18.29	18.92	---
MEAN	---	---	---	---	---	---	---	---	---	18.04	18.63	19.23
LOW	---	---	---	---	---	---	---	---	---	18.29	18.92	19.50
HIGH	---	---	---	---	---	---	---	---	---	17.88	18.32	18.94

WTR YR 2001 INSTANTANEOUS HIGH e17.18 APR 23 LOW 19.51 SEP 30
(includes monthly and recorded values)

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

422812071244401. Acton well ACW 158--Continued.

**DEPTH BELOW LAND S. DCP, in FT, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.54	20.03	20.41	20.71	20.68	20.55	20.31	19.88	19.57	19.65	20.07	20.55
2	19.55	20.05	20.42	20.71	20.68	20.54	20.30	19.87	19.56	19.66	20.08	20.56
3	19.57	20.06	20.43	20.72	20.67	20.54	20.27	19.87	19.57	19.67	20.10	20.58
4	19.59	20.07	20.44	20.72	20.66	20.53	20.25	19.86	19.57	19.68	20.11	20.59
5	19.60	20.08	20.45	20.73	20.66	20.53	20.22	19.86	19.57	19.70	20.13	20.61
6	19.62	20.10	20.46	20.74	20.66	20.52	20.20	19.85	19.57	19.71	20.14	20.62
7	19.63	20.11	20.47	20.74	20.66	20.52	20.17	19.84	19.57	19.73	20.16	20.63
8	19.66	20.12	20.48	20.75	20.66	20.51	20.15	19.84	19.57	19.74	20.18	20.65
9	19.67	20.13	20.49	20.74	20.66	20.50	20.12	19.83	19.56	19.75	20.19	20.66
10	19.69	20.15	20.50	20.76	20.64	20.50	20.10	19.83	19.56	19.76	20.21	20.67
11	19.70	20.16	20.51	20.76	20.65	20.49	20.08	19.83	19.55	19.78	20.22	20.69
12	19.72	20.17	20.52	20.77	20.63	20.48	20.06	19.83	19.54	19.79	20.24	20.70
13	19.74	20.19	20.53	20.77	20.63	20.48	20.04	19.82	19.54	19.80	20.25	20.71
14	19.75	20.21	20.54	20.78	20.62	20.47	20.02	19.82	19.54	19.81	20.27	20.73
15	19.77	20.22	20.55	20.77	20.61	20.47	20.00	19.81	19.54	19.83	20.29	20.74
16	19.79	20.24	---	20.77	20.60	20.46	19.99	19.80	19.54	19.84	20.30	20.75
17	19.80	20.25	---	20.76	20.60	20.46	19.97	19.79	19.55	19.86	20.31	20.76
18	19.82	20.26	---	20.76	20.60	20.45	19.96	19.77	19.56	19.87	20.33	20.77
19	19.83	20.27	---	20.76	20.58	20.45	19.95	19.75	19.57	19.89	20.35	20.78
20	19.85	20.29	---	20.77	20.58	20.44	19.94	19.74	19.57	19.90	20.37	20.79
21	19.86	20.30	---	20.76	20.58	20.44	19.93	19.72	19.57	19.91	20.38	20.80
22	19.88	20.31	---	20.78	20.58	20.43	19.92	19.70	19.57	19.92	20.39	20.81
23	19.89	20.32	---	20.77	20.57	20.42	19.91	19.67	19.57	19.94	20.41	20.82
24	19.91	20.34	---	20.77	20.57	20.42	19.91	19.65	19.58	19.95	20.43	20.83
25	19.92	20.34	---	20.77	20.56	20.41	19.91	19.64	19.59	19.97	20.45	20.84
26	19.93	20.35	---	20.75	20.56	20.40	19.91	19.62	19.59	19.98	20.46	20.85
27	19.95	20.36	e20.69	20.73	20.55	20.39	19.91	19.61	19.60	20.00	20.47	20.86
28	19.97	20.38	20.69	20.71	20.55	20.38	19.90	19.60	19.62	20.01	20.49	20.88
29	19.98	20.39	20.69	20.71	---	20.36	19.89	19.59	19.64	20.02	20.50	20.88
30	19.99	20.40	20.70	20.70	---	20.35	19.89	19.58	19.65	20.04	20.52	20.89
31	20.01	---	20.70	20.69	---	20.33	---	19.57	---	20.05	20.54	---
MEAN	19.78	20.22	---	20.75	20.62	20.46	20.04	19.76	19.57	19.85	20.30	20.73
LOW	20.01	20.40	---	20.78	20.68	20.55	20.31	19.88	19.65	20.05	20.54	20.89
HIGH	19.54	20.03	---	20.69	20.55	20.33	19.89	19.57	19.54	19.65	20.07	20.55

WTR YR 2002 INSTANTANEOUS HIGH 19.52 OCT 1 LOW 20.90 SEP 30

e Estimated

423349071134101. Billerica well BCW 363.

LOCATION.--Lat 42°33'49", long 71°13'41", Middlesex County, Hydrologic Unit 01070002, 20 ft south of Baldwin Road and 50 ft west of Westminster Road in Billerica.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 15.5 ft, cased with stone to 15.5 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 166 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe on wooden cover, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.73 ft below land-surface datum, Apr. 1, 1993; lowest measured, dry Aug. 24, Sept. 22, Oct. 25, 1983.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	DRY	DEC 27	DRY	FEB 26	12.13	APR 30	8.71	JUN 20	9.10	AUG 27	12.14
NOV 26	DRY	JAN 28	DRY	MAR 26	9.86	MAY 28	8.20	JUL 30	11.80	SEP 26	DRY
WATER YEAR 2002		HIGHEST 8.20		MAY 28, 2002		LOWEST 12.14		AUG 27, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

423546071190701.--Chelmsford well CHW 384.

LOCATION.--Lat 42°35'46", long 71°19'07", Middlesex County, Hydrologic Unit 0107000, 25 ft east of U.S. Highway 3 and 0.4 mi north of State Highway 129 in Chelmsford.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 42.0 ft, screened 40.0 to 42.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 125 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--May 1987 to September 2002 (destroyed).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.02 ft below land-surface datum, Mar. 28, 2001; lowest measured, 17.38 ft below land-surface datum, Nov. 26, 2001.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	16.46	DEC 20	17.37	FEB 26	16.33	APR 30	15.96	JUN 20	15.85	AUG 27	16.93
NOV 26	17.38	JAN 25	16.85	MAR 27	15.94	MAY 28	15.74	JUL 30	16.40	SEP 26	16.58
WATER YEAR	2002	HIGHEST	15.74	MAY 28, 2002	LOWEST	17.38	NOV 26, 2001				

422637071202701. Concord well CTW 165.

LOCATION.--Lat 42°26'37", long 71°20'27", Middlesex County, Hydrologic Unit 01070005, 30 ft south of State Highway 2 and 0.1 mi west of State Highway 126 in Concord.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 66.7 ft, screened 64.7 to 66.7 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 199.26 ft (revised) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum, 2.0 ft prior to October 1991.

PERIOD OF RECORD.--February 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.50 ft below land-surface datum, July 20, 1984; lowest measured, 47.10 ft below land-surface datum, Feb. 28, 1967.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	42.12	DEC 20	43.00	FEB 26	43.86	APR 30	44.35	JUN 20	44.22	AUG 27	44.68
NOV 26	42.70	JAN 28	43.55	MAR 26	44.19	MAY 28	44.29	JUL 30	44.47	SEP 26	44.95
WATER YEAR	2002	HIGHEST	42.12	OCT 24, 2001	LOWEST	44.95	SEP 26, 2002				

422650071214402. Concord well CTW 167.

LOCATION.--Lat 42°26'50", long 71°21'44", Middlesex County, Hydrologic Unit 01070005, 10 ft south of State Highway 2 and 10 ft west of Sudbury Road in Concord.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 24.8 ft, screened 21.8 to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 135 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.3 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.47 ft below land-surface datum, Apr. 21, 1984; lowest measured, 11.46 ft below land-surface datum, Sept. 26, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	10.63	DEC 20	11.36	FEB 26	10.03	APR 30	8.73	JUN 20	8.95	AUG 27	10.92
NOV 26	11.25	JAN 28	10.63	MAR 26	9.68	MAY 28	8.40	JUL 30	10.09	SEP 26	11.46
WATER YEAR	2002	HIGHEST	8.40	MAY 28, 2002	LOWEST	11.46	SEP 26, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

422627071154002. Lexington well LTW 104.

LOCATION.--Lat 42°26'27", long 71°15'40", Middlesex County, Hydrologic Unit 01090001, at The Commonwealth of Massachusetts Department of Public Works maintenance depot, 0.2 mi west of State Highway 128 and 500 ft south of State Highway 2A in Lexington.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 20.7 ft, screened 18.7 to 20.7 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 180 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.72 ft below land-surface datum, Apr. 1, 1993; lowest measured, 4.35 ft below land-surface datum, Aug. 26, 1975.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	2.84	DEC 20	1.57	FEB 26	1.90	APR 30	1.05	JUN 20	1.95	AUG 27	3.78
NOV 26	3.07	JAN 28	1.65	MAR 26	1.85	MAY 31	1.45	JUL 30	3.00	SEP 26	2.19
WATER YEAR	2002	HIGHEST	1.05	APR 30, 2002		LOWEST	3.78	AUG 27, 2002			

424055071435301. Townsend well TRW 13.

LOCATION.--Lat 42°40'55", long 71°43'43", Middlesex County, Hydrologic Unit 01070004, 15 ft south of Dudley Road and 15 ft north of Turnpike Road in Townsend.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 32.9 ft, screened 30.9 to 32.9 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 313 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.55 ft below land-surface datum, Apr. 24, 1987; lowest measured, 17.41 ft below land-surface datum, Jan. 26, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	14.33	DEC 20	15.09	FEB 26	15.58	APR 30	14.33	JUN 20	13.17	AUG 27	13.89
NOV 26	14.80	JAN 25	15.41	MAR 26	15.20	MAY 29	13.52	JUL 30	13.42	SEP 30	14.40
WATER YEAR	2002	HIGHEST	13.17	JUN 20, 2002		LOWEST	15.58	FEB 26, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

423115071032001. Wakefield well WAW 38.

LOCATION.--Lat 42°31'15", long 71°03'20", Middlesex County, Hydrologic Unit 01090001, 75 ft north of State Highway 128 and 0.4 mi southeast of Saugus River in Wakefield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 25.5 ft, screened 23.5 to 25.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape; digital recorder (60-minute interval) with satellite telemeter since July 2001.

DATUM.--Elevation of land-surface datum is 80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of plywood floor in base of steel shelter, 3.54 ft above land-surface datum; prior to July 2001, top of casing, 3.45 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.92 ft below land-surface datum, Oct. 29, 1996; lowest measured, 9.99 ft below land-surface datum, Sept. 22, 1965.

DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	7.35
2	---	---	---	---	---	---	---	---	---	---	---	7.41
3	---	---	---	---	---	---	---	---	---	---	---	7.44
4	---	---	---	---	---	---	---	---	---	---	---	7.48
5	---	---	---	---	---	---	---	---	---	---	---	7.51
6	---	---	---	---	---	---	---	---	---	---	---	7.55
7	---	---	---	---	---	---	---	---	---	---	---	7.58
8	---	---	---	---	---	---	---	---	---	---	---	7.61
9	---	---	---	---	---	---	---	---	---	---	e6.92	7.65
10	---	---	---	---	---	---	---	---	---	---	6.91	7.69
11	---	---	---	---	---	---	---	---	---	---	6.83	7.72
12	---	---	---	---	---	---	---	---	---	---	6.61	7.75
13	---	---	---	---	---	---	---	---	---	---	6.36	7.79
14	---	---	---	---	---	---	---	---	---	---	6.43	7.80
15	---	---	---	---	---	---	---	---	---	---	6.52	7.78
16	---	---	---	---	---	---	---	---	---	---	6.59	7.82
17	---	---	---	---	---	---	---	---	---	---	6.65	7.86
18	---	---	---	---	---	---	---	---	e6.39	---	6.71	7.89
19	---	---	---	---	---	---	---	---	---	---	6.77	7.92
20	---	---	---	---	---	---	---	---	---	---	6.81	7.94
21	---	---	---	---	e6.13	---	---	---	---	---	6.83	7.90
22	---	---	---	e6.45	---	---	---	---	---	---	6.86	7.78
23	---	---	---	---	---	---	---	---	---	---	6.91	7.73
24	---	---	---	---	---	---	---	e6.97	---	---	6.97	7.75
25	e7.20	---	---	---	---	---	e6.03	---	---	---	7.02	7.77
26	---	---	---	---	---	---	---	---	---	e7.01	7.06	7.74
27	---	---	---	---	---	e4.75	---	---	---	---	7.10	7.78
28	---	e5.87	---	---	---	---	---	---	---	---	7.15	7.82
29	---	---	e5.93	---	---	---	---	---	---	---	7.22	7.86
30	---	---	---	---	---	---	---	---	---	---	7.27	7.90
31	---	---	---	---	---	---	---	---	---	---	7.31	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	7.72
LOW	---	---	---	---	---	---	---	---	---	---	---	7.94
HIGH	---	---	---	---	---	---	---	---	---	---	---	7.35

WTR YR 2001 INSTANTANEOUS HIGH e4.75 MAR 27 LOW 7.94 SEP 20, 2

(includes monthly and recorded values)

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

423115071032001. Wakefield well WAW 38--Continued.

**DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.92	8.43	8.77	7.93	7.17	6.89	5.57	6.39	5.72	6.77	7.76	8.36
2	7.95	8.43	8.79	7.97	7.00	6.91	5.59	6.39	5.85	6.82	7.80	8.36
3	7.98	8.44	8.80	7.99	6.97	6.72	5.72	6.28	5.97	6.87	7.83	8.29
4	8.01	8.45	8.81	8.02	6.97	6.65	5.78	6.36	6.06	6.92	7.87	8.23
5	8.03	8.46	8.82	8.05	7.00	6.70	5.85	6.42	6.11	6.98	7.90	8.23
6	8.06	8.45	8.82	8.07	7.03	6.73	5.91	6.48	e6.09	7.03	7.94	8.26
7	8.09	8.46	8.84	7.97	7.05	6.78	5.99	6.52	e5.79	7.08	7.98	8.30
8	8.12	8.48	8.85	7.91	7.07	6.83	6.03	6.59	5.80	7.13	8.02	8.34
9	8.15	8.48	8.86	7.88	7.11	6.84	6.06	6.63	5.90	7.17	8.06	8.37
10	8.17	8.50	8.84	7.89	7.10	6.79	6.12	6.64	6.02	7.12	8.10	8.41
11	8.20	8.51	8.81	7.88	6.87	6.84	6.19	6.70	6.10	7.17	8.13	8.44
12	8.22	8.53	8.78	7.86	6.81	6.86	6.22	6.71	6.15	7.22	8.17	8.50
13	8.25	8.55	8.74	7.75	6.85	6.87	6.25	6.38	6.20	7.26	8.20	8.54
14	8.26	8.56	8.69	7.56	6.90	6.89	6.30	5.36	6.26	7.30	8.24	8.58
15	8.28	8.58	8.59	7.50	6.92	6.92	6.34	5.62	6.14	7.34	8.28	8.62
16	8.29	8.59	8.50	7.48	6.94	6.82	6.38	5.81	6.10	7.39	8.31	8.59
17	8.16	8.61	8.45	7.46	6.96	6.75	6.43	5.92	6.12	7.44	8.34	8.48
18	8.12	8.62	8.29	7.47	6.96	6.76	6.48	5.65	6.23	7.48	8.38	8.47
19	8.13	8.63	8.09	7.49	6.96	6.70	6.51	5.51	6.32	7.49	8.42	8.50
20	8.16	8.66	8.02	7.51	6.97	6.63	6.55	5.71	6.38	7.51	8.45	8.53
21	8.19	8.67	8.01	7.51	6.91	6.27	6.60	5.83	6.43	7.54	8.48	8.57
22	8.22	8.69	8.03	7.51	6.89	6.16	6.63	5.94	6.49	7.58	8.51	8.61
23	8.25	8.70	8.03	7.47	6.92	6.26	6.67	6.01	6.52	7.61	8.51	8.44
24	8.26	8.72	7.95	7.35	6.96	6.34	6.71	6.07	6.57	7.52	8.52	8.26
25	8.28	8.74	7.81	7.27	6.97	6.41	6.72	6.17	6.64	7.51	8.52	8.23
26	8.31	8.75	7.78	7.24	6.97	6.40	6.45	6.23	6.69	7.55	8.54	8.22
27	8.33	8.75	7.78	7.26	6.94	5.89	6.52	6.28	6.73	7.59	8.56	8.20
28	8.36	8.76	7.80	7.26	6.86	5.93	6.49	6.27	6.62	7.62	8.59	8.14
29	8.37	8.77	7.83	7.28	---	6.04	6.33	6.08	6.64	7.64	8.59	8.10
30	8.39	8.77	7.87	7.28	---	6.08	6.33	5.32	6.72	7.67	8.42	8.10
31	8.42	---	7.90	7.26	---	6.14	---	5.56	---	7.72	8.37	---
MEAN	8.19	8.59	8.39	7.62	6.97	6.57	6.26	6.12	6.25	7.32	8.25	8.38
LOW	8.42	8.77	8.86	8.07	7.17	6.92	6.72	6.71	6.73	7.72	8.59	8.62
HIGH	7.92	8.43	7.78	7.24	6.81	5.89	5.57	5.32	5.72	6.77	7.76	8.10

WTR YR 2002 INSTANTANEOUS HIGH 5.22 MAY 30 LOW 8.86 DEC 8-10

e Estimated

421852071220501. Wayland well WKW 2.

LOCATION.--Lat 42°18'52", long 71°22'05", Middlesex County, Hydrologic Unit 01070005, 0.25 mi west of State Highway 27 and 100 ft south of State Highway 30, at Cochituate State Park in Wayland.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 33.0 ft, screened 31.0 to 33.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 157.75 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.76 ft above land-surface datum, 4.0 ft prior to April 1993.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.96 ft below land-surface datum, Mar. 27, 1972; lowest measured, 18.10 below land-surface datum, Sept. 26, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	17.33	DEC 20	17.48	FEB 26	17.06	APR 30	16.29	JUN 20	15.94	AUG 27	17.08
NOV 26	17.55	JAN 28	17.15	MAR 26	16.74	MAY 28	15.98	JUL 30	16.63	SEP 26	17.32
WATER YEAR 2002		HIGHEST 15.94		JUN 20, 2002		LOWEST 17.55		NOV 26, 2001			

GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

423401071093801. Wilmington well XMW 78.

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

Owner: Town of Wilmington.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 42 in., depth 12 ft, cased with stone to 12 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric tape by observer. Continuous graphic recorder March 1958 to September 1982, digital recorder (60-minute interval) October 1984 to current year; satellite telemeter since February 2001.

DATUM.--Elevation of land-surface datum is 95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole in base of steel recorder shelter, 0.27 ft above land-surface datum, 0.42 ft prior to May 1991.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--July 1951 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.12 ft below land-surface datum, Mar. 30, 2001; lowest, 11.27 ft below land-surface datum, Oct. 30, 1957.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.21	9.63	9.81	9.21	8.80	8.33	7.58	7.80	7.49	8.16	9.08	9.83
2	9.22	9.65	9.82	9.21	8.78	8.32	7.56	7.78	7.52	8.19	9.11	9.84
3	9.24	9.65	9.82	9.19	8.74	8.29	7.52	7.75	7.58	8.23	9.14	9.84
4	9.25	9.66	9.83	9.19	8.71	8.26	7.48	7.75	7.62	8.26	9.16	9.83
5	9.27	9.67	9.83	9.19	8.69	8.23	7.43	7.73	7.65	8.30	9.18	9.83
6	9.29	9.68	9.83	9.19	8.67	8.20	7.39	7.71	7.68	8.34	9.21	9.85
7	9.31	9.69	9.83	9.18	8.65	8.18	7.38	7.71	7.64	8.38	9.24	9.85
8	9.34	9.69	9.83	9.18	8.63	8.16	7.37	7.73	7.59	8.42	9.27	9.86
9	9.35	9.70	9.84	9.18	8.63	8.14	7.36	7.75	7.59	8.46	9.30	9.87
10	9.37	9.70	9.84	9.17	8.62	8.12	7.39	7.77	7.63	8.50	9.33	9.88
11	9.39	9.71	9.84	9.17	8.56	8.12	7.45	7.83	7.67	8.53	9.36	9.90
12	9.41	9.71	9.84	9.17	8.55	8.11	7.47	7.86	7.70	8.57	9.39	9.91
13	9.43	9.72	9.83	9.15	8.55	8.10	7.49	7.75	7.72	8.61	9.42	9.93
14	9.44	9.73	9.81	9.11	8.54	8.10	7.52	7.43	7.75	8.65	9.45	9.94
15	9.46	9.73	9.77	9.10	8.54	e8.11	7.57	7.42	e7.76	8.69	9.48	9.96
16	9.48	9.74	9.73	9.10	8.53	8.11	7.60	7.37	7.78	8.73	9.51	9.97
17	9.45	9.74	9.69	9.08	8.52	8.14	7.63	7.32	7.79	8.76	9.54	9.99
18	9.48	9.75	9.63	9.07	8.53	8.14	7.66	7.25	7.81	8.80	9.57	10.0
19	9.50	9.75	9.56	9.06	8.52	8.15	7.69	7.19	7.84	8.75	9.60	10.01
20	9.51	9.76	9.52	9.03	8.51	8.13	7.72	7.18	7.87	8.80	9.62	10.02
21	9.52	9.77	9.49	9.02	8.50	8.10	7.75	7.16	7.89	8.84	9.66	10.04
22	9.53	9.77	9.46	9.01	8.46	8.08	7.78	7.15	7.92	8.87	9.68	10.05
23	9.54	9.78	9.43	9.00	8.44	8.04	7.81	e7.15	7.94	8.90	9.70	9.94
24	9.55	9.79	9.39	8.98	8.42	8.02	7.85	7.16	7.97	8.91	9.73	9.94
25	9.55	9.79	9.35	8.97	8.40	8.00	7.87	7.24	8.01	8.93	9.75	9.95
26	9.57	9.80	9.32	8.95	8.37	7.97	7.87	7.29	8.04	8.94	9.77	9.96
27	9.58	9.80	9.30	8.93	8.35	7.93	7.88	7.34	8.07	8.96	9.79	9.96
28	9.59	9.81	9.27	8.90	8.34	7.87	7.87	7.39	8.09	8.98	9.81	9.94
29	9.61	9.81	9.25	8.88	---	7.82	7.84	7.42	8.10	9.00	9.83	9.90
30	9.62	9.81	9.24	8.86	---	7.77	7.83	7.44	8.13	9.03	9.82	9.88
31	9.63	---	9.22	8.83	---	7.74	---	7.46	---	9.06	9.81	---
MEAN	9.44	9.73	9.62	9.07	8.56	8.09	7.62	7.49	7.79	8.66	9.49	9.92
LOW	9.63	9.81	9.84	9.21	8.80	8.33	7.88	7.86	8.13	9.06	9.83	10.05
HIGH	9.21	9.63	9.22	8.83	8.34	7.74	7.36	7.15	7.49	8.16	9.08	9.83

WTR YR 2002 INSTANTANEOUS HIGH 7.15 MAY 22-24 LOW 10.07 SEP 23

e Estimated

422819071065701. Winchester well XOW 14.

LOCATION.--Lat 42°28'19", long 71°06'57", Middlesex County, Hydrologic Unit 01090001, at 220 Forest Street and 100 ft north of Forest Street in Winchester.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 17.0 ft, cased with stone to 17.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 116.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of angle iron, at land-surface datum.

PERIOD OF RECORD.--July 1940 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.03 ft below land-surface datum, Mar. 26, 1969; lowest measured, 15.60 ft below land-surface datum, Oct. 31, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	13.47	DEC 31	10.20	MAR 27	7.62	MAY 29	9.10	JUL 29	12.03	AUG 27	13.23
NOV 28	13.81	FEB 25	8.86	APR 26	10.16						
WATER YEAR 2002		HIGHEST	7.62	MAR 27, 2002		LOWEST	13.81	NOV 28, 2001			

GROUND-WATER LEVELS IN MASSACHUSETTS

NANTUCKET COUNTY

411555070021901. Nantucket well NBW 228.

LOCATION.--Lat 41°15'55", long 70°02'19", Nantucket County, Hydrologic Unit 01090002, 165 ft south of Milestone Road and 300 ft east of Madequecham Valley Brook in Nantucket.

Owner: Nantucket Conservation Foundation.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 35.6 ft, screened 32.6 to 35.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 39 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.34 ft above land-surface datum, 0.7 ft prior to November 1994.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.51 ft below land-surface datum, July 28, 1997; lowest measured, 27.90 ft below land-surface datum, Feb. 23, 1981.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	25.32	DEC 31	26.31	FEB 26	26.72	APR 23	26.13	JUN 25	24.90	AUG 27	25.25
NOV 30	25.86	JAN 29	26.63	MAR 22	26.71	MAY 23	25.26	JUL 23	24.90	SEP 25	25.64
WATER YEAR 2002	HIGHEST 24.90	JUN 25, 2002	JUL 23, 2002	LOWEST 26.72	FEB 26, 2002						

NORFOLK COUNTY

421250071090901. Dedham well DDW 231.

LOCATION.--Lat 42°12'50", long 71°09'09", Norfolk County, Hydrologic Unit 01090001, 50 ft south of State Highway 128 and 0.3 mi west of University Avenue in Dedham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 21.9 ft, screened 19.9 to 21.9 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 65 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.3 ft above land-surface datum. Prior to July 17, 1978, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.45 ft below land-surface datum, Mar. 28, 1978; lowest measured, 15.95 ft below land-surface datum, Oct. 28, 1997.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	13.64	DEC 31	13.07	FEB 27	8.88	APR 24	6.54	JUN 28	7.20	AUG 26	12.64
NOV 29	14.21	JAN 28	11.36	MAR 28	5.81	MAY 31	5.11	JUL 30	10.76	SEP 26	13.24
WATER YEAR 2002	HIGHEST 5.11	MAY 31, 2002	LOWEST 14.21	NOV 29, 2001							

421435071165701. Dover well DVW 10.

LOCATION.--Lat 42°14'35", long 71°16'57", Norfolk County, Hydrologic Unit 01090001, at Dover Public School about 400 ft southwest of and about 400 ft west of Center Street in Dover.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 54 ft, screened 52 to 54 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.95 ft below land-surface datum, Apr. 20, 1987; lowest measured, 36.87 ft below land-surface datum, Jan. 21, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	34.56	DEC 20	35.52	FEB 27	35.57	APR 30	34.26	JUN 20	32.63	AUG 28	33.74
NOV 29	35.22	JAN 28	35.79	MAR 26	35.28	MAY 28	33.56	JUL 30	33.12	SEP 27	34.31
WATER YEAR 2002	HIGHEST 32.63	JUN 20, 2002	LOWEST 35.79	JAN 28, 2002							

GROUND-WATER LEVELS IN MASSACHUSETTS

NORFOLK COUNTY--Continued

420432071151201. Foxborough well FXW 3.

LOCATION.--Lat 42°04'32", long 71°15'12", Norfolk County, Hydrologic Unit 01090004, at Foxborough State Hospital, near railroad tracks, 100 ft east of driveway, and 250 ft north of Chestnut Street in Foxborough.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 32 ft, screened 30 to 32 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 290 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.24 ft below land-surface datum, Mar. 25, 1968; lowest measured, 21.42 ft below land-surface datum, Dec. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	20.68	DEC 27	20.76	FEB 25	20.09	APR 30	19.22	JUN 24	18.96	AUG 26	20.37
NOV 28	20.91	JAN 30	20.41	MAR 26	19.49	MAY 29	18.77	JUL 30	19.78	SEP 24	20.22
WATER YEAR 2002	HIGHEST 18.77	MAY 29, 2002	LOWEST 20.91	NOV 28, 2001							

420717071221301 KINGSBURY POND NEAR NORFOLK, MA

LOCATION.--Lat 42°07'17", long 71°22'13", Norfolk County, Hydrologic Unit 01090001, on southeast corner of pond, 150 ft northwest of Miller Street, 2.3 mi west of Norfolk.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Standpipe, 3-in. diameter, with sealed bottom; connected through siphon effect with pond by 0.75-in. diameter polyethylene tubing.

INSTRUMENTATION.--Water-stage recorder.

DATUM.--Elevation of gage is measuring point at base of instrument shelter floor, 137.68 ft above National Geodetic Vertical Datum (NGVD) of 1929.

PERIOD OF RECORD.--November 2000 to current year.

REMARKS.--Missing periods of more than one day are not estimated.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 132.67 ft, June 17, 2001; minimum, 126.54 ft., Apr. 25, 2002.

ELEVATION, IN FEET ABOVE NGVD OF 1929, OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129.08	127.92	127.27	126.96	126.84	126.64	126.73	126.64	127.33	127.88	127.51	126.98
2	129.03	127.90	127.25	126.96	126.84	126.64	126.72	126.65	127.34	127.88	127.52	126.99
3	128.99	127.89	127.23	126.96	126.83	126.70	126.72	126.70	127.34	127.88	127.57	127.01
4	128.95	127.87	127.20	126.98	126.80	126.70	126.72	126.69	127.34	127.87	127.55	127.00
5	128.91	127.85	127.18	126.99	126.80	126.68	126.71	126.69	127.36	127.86	127.52	126.97
6	128.87	127.83	127.16	126.99	126.80	126.67	126.69	126.69	127.45	127.83	127.48	126.94
7	128.83	127.79	127.14	126.97	126.80	126.66	126.68	126.68	127.55	127.81	127.44	126.92
8	128.77	127.76	127.12	126.97	126.80	126.66	126.67	126.69	127.58	127.80	127.40	126.90
9	128.72	127.74	127.14	126.97	126.81	126.62	126.67	126.68	127.60	127.80	127.38	126.88
10	128.68	127.70	127.12	126.97	126.81	126.65	126.67	126.70	127.61	127.83	127.36	126.85
11	128.65	127.67	127.11	126.97	126.79	126.63	126.68	126.69	127.62	127.81	127.34	126.83
12	128.61	127.65	127.09	126.96	126.79	126.61	126.66	126.70	127.63	127.79	127.31	126.78
13	128.58	127.62	127.08	126.94	126.79	126.60	126.65	126.79	127.64	127.77	127.29	126.74
14	128.55	127.58	127.06	126.93	126.80	126.60	126.64	126.95	127.66	127.75	127.27	126.72
15	128.52	127.56	127.09	126.93	126.80	126.58	126.63	126.95	127.71	127.74	127.24	126.70
16	128.49	127.54	127.07	126.93	126.79	126.60	126.63	126.95	127.74	127.72	127.21	126.78
17	128.47	127.52	127.06	126.92	126.78	126.59	126.62	126.96	127.77	127.70	127.18	126.85
18	128.42	127.50	127.12	126.92	126.72	126.59	126.61	127.05	127.79	127.68	127.15	126.82
19	128.37	127.47	127.12	126.93	126.68	126.60	126.60	127.10	127.81	127.68	127.12	126.80
20	128.34	127.46	127.10	126.92	126.67	126.61	126.59	127.10	127.83	127.68	127.16	126.78
21	128.30	127.45	127.08	126.92	126.69	126.65	126.57	127.11	127.85	127.66	127.16	126.74
22	128.27	127.42	127.05	126.92	126.68	126.63	126.56	127.12	127.87	127.65	127.13	126.73
23	128.24	127.40	127.03	126.92	126.67	126.61	126.57	127.13	127.89	127.63	127.11	126.75
24	128.21	127.38	127.07	126.91	126.66	126.60	126.56	127.14	127.89	127.65	127.08	126.73
25	128.18	127.36	127.07	126.90	126.65	126.59	126.56	127.16	127.89	127.63	127.07	126.70
26	128.14	127.36	127.05	126.91	126.63	126.59	126.60	127.16	127.89	127.60	127.04	126.68
27	128.10	127.34	127.03	126.91	126.64	126.65	126.59	127.18	127.89	127.58	127.01	126.71
28	128.06	127.32	127.01	126.89	126.65	126.65	126.60	127.20	127.89	127.56	126.99	126.71
29	128.02	127.31	127.00	126.85	---	126.64	126.63	127.25	127.89	127.57	126.99	126.67
30	127.99	127.29	126.98	126.82	---	126.65	126.64	127.26	127.89	127.55	127.03	126.65
31	127.95	---	126.96	126.83	---	126.64	---	127.29	---	127.53	127.01	---
MEAN	128.49	127.58	127.10	126.93	126.75	126.63	126.64	126.94	127.68	127.72	127.25	126.81
MAX	129.08	127.92	127.27	126.99	126.84	126.70	126.73	127.29	127.89	127.88	127.57	127.01
MIN	127.95	127.29	126.96	126.82	126.63	126.58	126.56	126.64	127.33	127.53	126.99	126.65
WTR YR 2002	INSTANTANEOUS	MAX	129.10	OCT 1	MIN	126.54	APR 25					

GROUND-WATER LEVELS IN MASSACHUSETTS

NORFOLK COUNTY--Continued

420545071174001. Norfolk well NNW 27.

LOCATION.--Lat 42°05'45", long 71°17'40", Norfolk County, Hydrologic Unit 01090001, 15 ft northwest of State Highway 1A and 0.1 mi northeast of Valley Street in Norfolk.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in. (previously reported as 1.25 in.), depth 18.4 ft, screened 16.4 to 18.4 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape; digital recorder (60-minute interval) with satellite telemeter since August 2001.

DATUM.--Elevation of land-surface datum is 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of plywood floor in base of steel shelter, 3.57 ft above land-surface datum; prior to August 2001, top of casing, 1.7 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.94 ft below land-surface datum, Mar. 28, 2001, and Apr. 20, 1987; lowest measured, 7.99 ft below land-surface datum, July 30, 1997.

DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	7.10
2	---	---	---	---	---	---	---	---	---	---	---	7.14
3	---	---	---	---	---	---	---	---	---	---	---	7.16
4	---	---	---	---	---	---	---	---	---	---	---	7.16
5	---	---	---	---	---	---	---	---	---	---	---	7.18
6	---	---	---	---	---	---	---	---	---	---	---	7.22
7	---	---	---	---	---	---	---	---	---	---	---	7.24
8	---	---	---	---	---	---	---	---	---	---	---	7.27
9	---	---	---	---	---	---	---	---	---	---	---	7.29
10	---	---	---	---	---	---	---	---	---	---	7.04	7.32
11	---	---	---	---	---	---	---	---	---	---	7.01	7.35
12	---	---	---	---	---	---	---	---	---	---	6.84	7.38
13	---	---	---	---	---	---	---	---	---	---	6.44	7.39
14	---	---	---	---	---	---	---	---	---	---	6.58	7.24
15	---	---	---	---	---	---	---	---	---	---	6.67	7.26
16	---	---	---	---	---	---	---	---	---	---	6.72	7.32
17	---	---	---	---	---	---	---	---	---	---	6.77	7.38
18	---	---	---	---	---	---	---	---	---	---	6.82	7.41
19	---	---	---	---	---	---	---	---	---	---	6.86	7.43
20	---	---	---	---	---	---	---	---	---	---	6.71	7.45
21	---	---	---	---	---	---	---	---	---	---	6.75	7.25
22	---	---	---	---	---	---	---	e5.53	---	---	6.83	7.16
23	---	---	---	---	e5.17	---	---	---	---	---	6.88	7.26
24	---	---	---	---	---	---	---	---	---	---	6.93	7.31
25	---	---	---	---	---	---	---	---	e5.15	---	6.97	7.26
26	---	---	---	e5.54	---	---	---	---	---	e6.46	7.00	7.23
27	---	---	---	---	---	---	e5.61	---	---	---	6.97	7.28
28	---	e5.34	e4.90	---	---	e3.94	---	---	---	---	6.91	7.32
29	---	---	---	---	---	---	---	---	---	---	7.00	7.34
30	e6.01	---	---	---	---	---	---	---	---	---	7.06	7.37
31	---	---	---	---	---	---	---	---	---	---	7.09	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	7.28
LOW	---	---	---	---	---	---	---	---	---	---	---	7.45
HIGH	---	---	---	---	---	---	---	---	---	---	---	7.10

WTR YR 2001 INSTANTANEOUS HIGH e3.94 MAR 28 LOW 7.45 SEP 20
(includes monthly and recorded values)

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

NORFOLK COUNTY--Continued

420545071174001. Norfolk well NNW 27--Continued.

DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.37	7.35	7.28	6.88	6.43	6.58	5.76	6.25	5.95	6.50	7.40	7.44
2	7.38	7.37	7.29	6.91	6.47	6.61	5.79	6.19	6.03	6.54	7.36	7.20
3	7.41	7.31	7.29	6.92	6.50	6.25	5.82	5.98	6.08	6.59	7.29	7.05
4	7.42	7.31	7.30	6.94	6.51	6.23	5.84	6.04	6.13	6.64	7.38	7.17
5	7.45	7.27	7.30	6.96	6.54	6.25	5.88	6.07	6.13	6.69	7.44	7.23
6	7.46	7.25	7.30	6.96	6.57	6.27	5.92	6.09	5.90	6.74	7.48	7.27
7	7.46	7.29	7.31	6.69	6.59	6.30	5.96	6.12	5.62	6.79	7.51	7.31
8	7.47	7.31	7.32	6.75	6.62	6.33	5.99	6.16	5.74	6.82	7.55	7.35
9	7.48	7.30	7.16	6.80	6.65	6.35	6.02	6.20	5.81	6.83	7.58	7.38
10	7.48	7.31	7.20	6.83	6.67	6.22	6.02	6.13	5.88	6.76	7.61	7.42
11	7.49	7.32	7.23	6.78	6.40	6.29	6.07	6.22	5.94	6.88	7.64	7.45
12	7.50	7.32	7.23	6.76	6.47	6.33	6.10	6.18	5.99	6.94	7.67	7.49
13	7.50	7.33	7.22	6.63	6.52	6.35	6.13	5.86	6.01	6.98	7.70	7.52
14	7.49	7.33	7.16	6.63	6.54	6.37	6.13	5.39	6.02	7.03	7.73	7.55
15	7.45	7.33	6.99	6.56	6.56	6.39	6.13	5.52	5.85	7.07	7.77	7.53
16	7.44	7.33	7.08	6.59	6.57	6.33	6.18	5.62	5.91	7.11	7.80	7.06
17	7.25	7.34	7.01	6.59	6.58	6.38	6.21	5.69	5.84	7.15	7.82	6.98
18	7.33	7.34	6.65	6.61	6.56	6.37	6.25	5.46	5.92	7.19	7.85	7.08
19	7.35	7.34	6.79	6.64	6.60	6.35	6.26	5.44	5.99	7.17	7.88	7.13
20	7.36	7.33	6.84	6.64	6.62	6.32	6.28	5.54	6.04	7.19	7.53	7.16
21	7.37	7.33	6.88	6.61	6.49	6.16	6.32	5.62	6.08	7.22	7.56	7.19
22	7.38	7.34	6.91	6.60	6.55	6.19	6.32	5.69	6.12	7.26	7.62	7.21
23	7.39	7.34	6.93	6.62	6.58	6.21	6.32	5.74	6.15	7.21	7.55	6.66
24	7.39	7.34	6.67	6.59	6.61	6.23	6.37	5.78	6.19	7.10	7.60	6.76
25	7.39	7.32	6.71	6.59	6.63	6.26	6.35	5.84	6.24	7.22	7.50	6.84
26	7.39	7.18	6.75	6.60	6.63	6.21	6.19	5.88	6.28	7.28	7.57	6.86
27	7.40	7.25	6.77	6.61	6.53	5.94	6.30	5.93	6.33	7.31	7.62	6.58
28	7.41	7.27	6.80	6.62	6.53	6.01	6.24	5.89	6.36	7.32	7.66	6.68
29	7.41	7.27	6.82	6.64	---	6.03	6.18	5.90	6.42	7.21	7.50	6.76
30	7.41	7.28	6.84	6.58	---	6.02	6.20	5.98	6.46	7.31	7.30	6.81
31	7.40	---	6.86	6.59	---	6.05	---	5.98	---	7.36	7.41	---
MEAN	7.42	7.31	7.03	6.70	6.55	6.26	6.12	5.88	6.05	7.01	7.58	7.14
LOW	7.50	7.37	7.32	6.96	6.67	6.61	6.37	6.25	6.46	7.36	7.88	7.55
HIGH	7.25	7.18	6.65	6.56	6.40	5.94	5.76	5.39	5.62	6.50	7.29	6.58

WTR YR 2002 INSTANTANEOUS HIGH 5.26 MAY 18 LOW 7.90 AUG 19, 20

420954070564501. Weymouth well XGW 2.

LOCATION.--Lat 42°09'54", long 70°56'45", Norfolk County, Hydrologic Unit 01090001, 40 ft south of main gate guard house at U.S. Naval Air Station at Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 30 ft, screened 28 to 30 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 180 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.45 ft above land-surface datum, 3.0 ft prior to November 1989.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.57 ft below land-surface datum, Apr. 2, 1993; lowest measured, 22.63 ft below land-surface datum, Nov. 21, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	18.10	DEC 26	20.04	FEB 25	15.29	APR 29	10.58	JUN 24	9.72	AUG 26	17.74
NOV 27	19.75	JAN 28	17.91	MAR 25	11.98	MAY 28	9.11	JUL 29	14.48	SEP 24	19.27
WATER YEAR 2002	HIGHEST	9.11	MAY 28, 2002	LOWEST	20.04	DEC 26, 2001					

GROUND-WATER LEVELS IN MASSACHUSETTS

NORFOLK COUNTY--Continued

421147070571901. Weymouth well XGW 3.

LOCATION.--Lat 42°11'47", long 70°57'19", Norfolk County, Hydrologic Unit 01090001, about 100 ft east of State Highway 18 and about 600 ft off State Highway 3 in Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 22.3 ft, screened 20.3 to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by pumping.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.91 ft below land-surface datum, Jan. 27, 1978; lowest measured, 18.10 ft below land-surface datum, Sept. 27, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	7.02	DEC 26	6.08	FEB 25	4.81	APR 29	4.63	JUN 24	5.06	AUG 26	9.81
NOV 27	8.71	JAN 28	4.97	MAR 25	4.77	MAY 28	4.95	JUL 29	7.24	SEP 24	8.21
WATER YEAR 2002		HIGHEST	4.63	APR 29, 2002		LOWEST	9.81	AUG 26, 2002			

421120070562801. Weymouth well XGW 4.

LOCATION.--Lat 42°11'20", long 70°56'28", Norfolk County, Hydrologic Unit 01090001, at median strip of State Highway 3 and 0.8 mi south of State Highway 18 in Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 22.6 ft, screened 20.6 to 22.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water-level measured, 4.39 ft below land-surface datum, Apr. 2, 1993; lowest measured, 10.45 ft below land-surface datum, Sept. 27, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	7.61	DEC 26	6.84	FEB 25	6.62	APR 29	6.51	JUN 24	6.76	AUG 26	8.38
NOV 27	7.86	JAN 28	6.81	MAR 25	6.41	MAY 28	6.48	JUL 29	7.86	SEP 24	7.41
WATER YEAR 2002		HIGHEST	6.41	MAR 25, 2002		LOWEST	8.38	AUG 26, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY

420321070433502. Duxbury well D4W 79.

LOCATION.--Lat 42°03'21", long 70°43'35", Plymouth County, Hydrologic Unit 01090002, 30 ft west of State Highway 3 and about 300 ft north of State Highway 14 in Duxbury.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and silty clay of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 23.5 ft, screened 21.5 to 23.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape, digital recorder (60-minute interval) with satellite telemeter since August 2001.

DATUM.--Elevation of land-surface datum is 55 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of plywood floor in base of steel shelter, 3.18 ft above land-surface datum; prior to August 2001, top of casing, 1.5 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.10 ft below land-surface datum, Jan. 26, 1978; lowest measured, 10.68 ft below land-surface datum, Sept. 28, 1965.

DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	9.16	8.94
2	---	---	---	---	---	---	---	---	---	---	9.26	8.98
3	---	---	---	---	---	---	---	---	---	---	9.26	9.01
4	---	---	---	---	---	---	---	---	---	---	9.20	9.05
5	---	---	---	---	---	---	---	---	---	---	9.05	9.09
6	---	---	---	---	---	---	---	---	---	---	8.98	9.13
7	---	---	---	---	---	---	---	---	---	---	8.97	9.15
8	---	---	---	---	---	---	---	---	---	---	9.02	9.19
9	---	---	---	---	---	---	---	---	---	---	9.08	9.22
10	---	---	---	---	---	---	---	---	---	---	9.14	9.26
11	---	---	---	---	---	---	---	---	---	---	9.19	9.29
12	---	---	---	---	---	---	---	---	---	---	9.21	9.32
13	---	---	---	---	---	---	---	---	---	---	9.10	9.36
14	---	---	---	---	---	---	---	---	---	---	8.81	9.39
15	---	---	---	---	---	---	---	---	---	---	8.71	9.41
16	---	---	---	---	---	---	---	---	---	---	8.71	9.42
17	---	---	---	---	---	---	---	---	---	---	8.73	9.45
18	---	---	---	---	---	---	---	---	---	---	8.77	9.47
19	---	---	---	---	---	---	---	---	---	---	8.82	9.50
20	---	---	---	---	---	---	---	---	---	---	8.86	9.53
21	---	---	---	---	---	---	---	---	---	---	8.83	9.56
22	---	---	---	---	e7.73	---	---	---	---	---	8.80	9.45
23	---	---	---	---	---	---	---	---	---	---	8.82	9.29
24	---	---	---	---	---	---	e7.48	e8.19	---	---	8.85	9.26
25	---	---	---	---	---	---	---	---	e8.18	---	8.89	9.27
26	---	---	e7.65	---	---	---	---	---	---	---	8.91	9.27
27	---	---	---	---	---	---	---	---	---	---	8.94	9.29
28	---	---	---	---	---	---	---	---	---	---	8.92	9.31
29	---	e8.20	---	---	---	e6.84	---	---	---	---	8.86	9.32
30	e8.90	---	---	---	---	---	---	---	---	---	8.88	9.33
31	---	---	---	---	---	---	---	---	---	e8.99	8.92	---
MEAN	---	---	---	---	---	---	---	---	---	---	8.96	9.28
LOW	---	---	---	---	---	---	---	---	---	---	9.26	9.56
HIGH	---	---	---	---	---	---	---	---	---	---	8.71	8.94

WTR YR 2001 INSTANTANEOUS HIGH e6.84 MAR 29 LOW 9.57 SEP 21
(includes monthly and recorded values)

e Estimated

GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY

420321070433502. Duxbury well D4W 79--Continued.

DEPTH BELOW LAND S. DCP & LOGGER, in FT, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.35	9.21	9.20	8.51	8.28	8.02	7.59	7.96	7.80	8.43	9.10	9.78
2	9.37	9.20	9.21	8.51	8.24	8.01	7.48	8.00	7.83	8.46	9.15	9.77
3	9.40	9.20	9.22	8.52	8.23	7.97	7.48	7.93	7.90	8.50	9.19	9.62
4	9.42	9.20	9.22	8.52	8.24	7.88	7.53	7.89	7.98	8.55	9.24	9.44
5	9.45	9.18	9.22	8.53	8.27	7.86	7.58	7.90	8.02	8.60	9.28	9.38
6	9.47	9.15	9.23	8.53	8.28	7.85	7.62	7.92	8.03	8.66	9.30	9.38
7	9.49	9.14	9.23	8.48	8.29	7.86	7.68	7.95	7.93	8.70	9.35	9.40
8	9.50	9.15	9.25	8.40	8.29	7.91	7.73	7.98	7.73	8.73	9.39	9.43
9	9.50	9.14	9.23	8.38	8.30	7.93	7.75	8.02	7.69	8.76	9.44	9.46
10	9.49	9.15	9.14	8.36	8.32	7.92	7.78	8.03	7.73	8.76	9.48	9.50
11	9.49	9.15	9.07	8.36	8.26	7.89	7.82	8.04	7.80	8.74	9.52	9.53
12	9.50	9.17	9.04	8.34	8.20	7.90	7.85	8.07	7.86	8.77	9.56	9.57
13	9.50	9.18	9.03	8.29	8.19	7.91	7.87	8.02	7.91	8.82	9.60	9.62
14	9.49	9.18	9.01	8.18	8.22	7.93	7.89	7.68	7.95	8.86	9.64	9.67
15	9.44	9.18	8.98	8.11	8.21	7.98	7.93	7.46	7.93	8.89	9.69	9.74
16	9.37	9.18	8.94	8.06	8.20	8.01	7.95	7.45	7.79	8.87	9.73	9.72
17	9.22	9.20	8.90	8.03	8.18	8.03	7.97	7.48	7.77	8.83	9.77	9.55
18	9.15	9.20	8.81	8.02	8.14	8.04	7.99	7.49	7.82	8.83	9.82	9.46
19	9.13	9.20	8.70	8.03	8.07	8.05	8.00	7.34	7.89	8.85	9.87	9.44
20	9.13	9.19	8.65	8.02	8.06	8.06	7.99	7.32	7.95	8.82	9.92	9.45
21	9.14	9.21	8.64	8.04	8.05	7.96	8.00	7.37	8.00	8.81	9.88	9.47
22	9.18	9.21	8.65	8.01	8.03	7.90	8.02	7.44	8.05	8.83	9.85	9.50
23	9.25	9.23	8.65	8.00	8.05	7.92	8.03	7.52	8.09	8.88	9.84	9.42
24	9.23	9.24	8.61	7.95	8.07	7.95	8.05	7.57	8.11	8.92	9.83	9.18
25	9.18	9.24	8.53	7.95	8.07	8.00	8.06	7.65	8.15	8.93	9.81	9.09
26	9.17	9.22	8.49	8.00	8.08	8.04	7.99	7.72	8.20	8.95	9.79	9.05
27	9.17	9.20	8.47	8.07	8.08	7.89	7.90	7.76	8.25	8.97	9.79	9.01
28	9.18	9.20	8.50	8.15	8.03	7.67	7.92	7.80	8.29	8.98	9.81	8.95
29	9.17	9.21	8.51	8.20	---	7.64	7.89	7.78	8.34	8.99	9.82	8.95
30	9.17	9.20	8.50	8.24	---	7.64	7.92	7.75	8.39	9.00	9.80	8.95
31	9.21	---	8.51	8.27	---	7.67	---	7.78	---	9.05	9.78	---
MEAN	9.32	9.19	8.88	8.23	8.18	7.91	7.84	7.74	7.97	8.80	9.61	9.42
LOW	9.50	9.24	9.25	8.53	8.32	8.06	8.06	8.07	8.39	9.05	9.92	9.78
HIGH	9.13	9.14	8.47	7.95	8.03	7.64	7.48	7.32	7.69	8.43	9.10	8.95

WTR YR 2002 INSTANTANEOUS HIGH 7.31 MAY 19, 20 LOW 9.93 AUG 20

420317070432901. Duxbury well D4W 80.

LOCATION.--Lat 42°03'17", long 70°43'29", Plymouth County, Hydrologic Unit 01090002, 78 ft south of State Highway 14 and 250 ft east of State Highway 3 in Duxbury.

Owner: The Commonwealth of Massachusetts Department of Public Works.

AQUIFER.--Bedrock.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6.0 in., depth 181 ft, cased to 59 ft, open hole.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 65 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in concrete cover, at land-surface datum.

PERIOD OF RECORD.--April 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.98 ft below land-surface datum, Feb. 26, 1998; lowest measured, 24.02 ft below land-surface datum, Sept. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	22.55	JAN 28	21.66	MAR 25	21.63	MAY 28	21.29	JUL 29	22.22	SEP 24	22.65
NOV 28	22.65	FEB 25	21.28	APR 29	21.55	JUN 24	21.59	AUG 27	23.00		
WATER YEAR	2002	HIGHEST	21.28	FEB 25, 2002		LOWEST	23.00	AUG 27, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY--Continued

420056070575701. East Bridgewater well EBW 30.

LOCATION.--Lat 42°00'56", long 70°57'57", Plymouth County, Hydrologic Unit 01090004, about 100 ft north of State Highway 106 and 800 ft west of State Highway 18 in East Bridgewater.

Owner: East Bridgewater Medical Center.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 24 ft, cased with stone to 24 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 85 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of stone casing curb, 2.6 ft above land-surface datum.

PERIOD OF RECORD.--July 1958 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.18 ft below land-surface datum, Feb. 26, 1998; lowest measured, 17.83 ft below land-surface datum, Dec. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	14.65	JAN 28	14.59	MAR 25	10.76	MAY 28	6.57	JUL 29	11.18	SEP 24	15.36
DEC 26	16.10	FEB 25	12.79	APR 29	8.25	JUN 24	7.38	AUG 26	13.51		
WATER YEAR 2002	HIGHEST	6.57	MAY 28, 2002	LOWEST	16.10	DEC 26, 2001					

420353070520301. Hanson well HGW 76.

LOCATION.--Lat 42°03'53", long 70°52'03", Plymouth County, Hydrologic Unit 01090002, 100 ft south of State Highway 14 and 150 ft west of town hall in Hanson.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 26.6 ft, screened 24.6 to 26.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Water level affected by Wampatuck Pond.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.50 ft below land-surface datum, Mar. 26, 1969; lowest measured, 6.53 ft below land-surface datum, Sept. 25, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.06	DEC 26	4.75	FEB 25	4.68	APR 29	4.59	JUN 24	5.08	AUG 27	5.85
NOV 28	5.12	JAN 28	4.65	MAR 25	4.61	MAY 28	4.53	JUL 29	5.43	SEP 24	5.81
WATER YEAR 2002	HIGHEST	4.53	MAY 28, 2002	LOWEST	5.85	AUG 27, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY--Continued

415228070554601. Lakeville well LKW 14.

LOCATION.--Lat 41°52'28", long 70°55'46", Plymouth County, Hydrologic Unit 01090004, 30 ft west of parking lot at Lakeville State Hospital in Lakeville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 41 ft, screened 39 to 41 ft.

INSTRUMENTATION.--Monthly measurement with electric tape by observer. Digital recorder (60-min punch) July 1986 to current year. Satellite telemeter at well since September 2001.

DATUM.--Elevation of land-surface datum is 105 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole in base of aluminum recorder shelter, 1.5 ft above land-surface datum.

REMARKS.--Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.56 ft below land-surface datum, May 13, 1998; lowest measured, 23.59 ft below land-surface datum, Oct. 26, 1966.

**DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.58	18.52	19.16	19.49	18.97	18.85	18.08	16.86	16.11	16.85	18.79	---
2	17.61	18.54	19.19	19.49	18.96	18.85	18.00	16.84	16.12	16.90	18.85	---
3	17.65	18.56	19.21	19.49	18.94	18.82	17.91	16.84	16.16	16.96	18.91	---
4	17.69	18.58	19.23	19.49	18.92	18.82	17.83	16.86	16.20	17.02	18.98	e20.54
5	17.72	18.60	19.25	19.51	18.90	18.81	17.73	16.85	16.21	17.09	19.03	20.58
6	17.75	18.62	19.27	19.51	18.89	18.79	17.63	16.84	16.23	17.16	19.10	20.62
7	17.79	18.65	19.30	19.52	18.87	18.77	17.54	16.82	16.27	17.22	19.16	20.66
8	17.83	18.67	19.32	19.54	18.86	18.75	17.45	16.83	16.28	17.28	19.23	20.70
9	17.86	18.69	19.34	19.54	18.86	18.72	17.36	16.82	16.26	17.34	19.29	20.74
10	17.90	18.70	19.36	19.55	18.84	18.69	17.28	16.82	16.25	17.40	19.35	20.78
11	17.93	18.73	19.39	19.56	18.84	18.67	17.22	16.85	16.23	17.47	19.42	20.82
12	17.96	18.75	19.41	19.57	18.83	18.65	17.15	16.85	16.21	17.53	19.48	20.87
13	18.00	18.77	19.42	19.56	18.83	18.62	17.09	16.83	16.21	17.60	19.54	20.91
14	18.02	18.79	19.45	19.57	18.83	18.60	17.04	16.81	16.20	17.66	19.61	20.96
15	18.05	18.81	19.47	19.55	18.83	18.58	17.00	16.81	16.18	17.72	19.67	20.99
16	18.08	18.83	19.49	19.53	18.82	18.56	16.96	16.78	16.19	17.79	19.73	21.03
17	18.11	18.86	19.50	19.49	18.82	18.54	16.93	16.75	16.21	17.86	19.79	21.05
18	18.15	18.88	19.51	19.44	18.83	18.52	16.91	16.71	16.26	17.93	19.85	21.08
19	18.18	18.90	19.53	19.39	18.84	18.51	16.88	16.67	16.30	17.99	19.91	21.11
20	18.21	18.92	19.53	19.34	18.84	18.48	16.86	16.61	16.34	18.05	19.96	21.13
21	18.25	18.94	19.55	19.29	18.83	18.47	16.86	16.55	16.37	18.11	20.01	21.16
22	18.28	18.96	19.55	19.26	18.84	18.45	16.84	16.49	16.41	18.17	20.06	21.19
23	18.31	18.99	19.55	19.22	18.84	18.43	16.85	16.42	16.44	18.24	20.10	21.22
24	18.33	19.01	19.55	19.18	18.85	18.41	16.85	16.35	16.48	18.31	20.14	21.23
25	18.35	19.03	19.56	19.15	18.85	18.40	16.85	16.31	16.54	18.37	20.18	21.25
26	18.38	19.05	19.54	19.12	18.84	18.37	16.85	16.26	16.59	18.43	20.22	21.26
27	18.40	19.08	19.53	19.10	18.83	18.34	16.87	16.22	16.63	18.49	20.27	21.26
28	18.44	19.10	19.52	19.07	18.84	18.31	16.85	16.19	16.68	18.54	20.32	21.27
29	18.46	19.12	19.51	19.04	---	18.26	16.85	16.16	16.75	18.59	20.36	21.27
30	18.48	19.14	19.50	19.02	---	18.21	16.86	16.14	16.81	18.65	20.39	21.27
31	18.50	---	19.50	19.00	---	18.15	---	16.12	---	18.72	e20.42	---
MEAN	18.07	18.83	19.43	19.37	18.86	18.56	17.18	16.62	16.34	17.79	19.68	---
LOW	18.50	19.14	19.56	19.57	18.97	18.85	18.08	16.86	16.81	18.72	20.42	---
HIGH	17.58	18.52	19.16	19.00	18.82	18.15	16.84	16.12	16.11	16.85	18.79	---

WTR YR 2002 INSTANTANEOUS HIGH 16.11 MAY 31, JUNE 1, 2 LOW 21.28 SEP 29, 30

e Estimated

415433070583302. Middleborough well MTW 82.

LOCATION.--Lat 41°54'33", long 70°58'33", Plymouth County, Hydrologic Unit 01090004, 15 ft southeast of southbound side of Interstate 495 and 435 ft southeast of Puddingshear Brook in Middleborough.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 26.5 ft, screened 24.5 to 26.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.50 ft below land-surface datum, Mar. 24, 1983; lowest measured, 17.58 ft below land-surface datum, Oct. 24, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	16.49	DEC 27	16.49	FEB 26	12.47	APR 30	7.42	JUN 24	8.31	AUG 27	16.07
NOV 28	16.71	JAN 28	14.06	MAR 26	10.04	MAY 29	5.50	JUL 30	13.89	SEP 25	16.80
WATER YEAR 2002	HIGHEST	5.50	MAY 29, 2002	LOWEST	16.80	SEP 25, 2002					

GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY--Continued

415453070434901. Plymouth well PWW 22.

LOCATION.--Lat 41°54'53", long 70°43'49", Plymouth County, Hydrologic Unit 01090004, 10 ft from northeast corner of main building at Plymouth Airport.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 40 ft, screened 30 to 40 ft; prior to August 1990, driven observation water-table well, diameter 1.25 in., depth 42 ft, screened 40 to 42 ft at same location.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 145 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--November 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.82 ft below land-surface datum, May 26, 1958; lowest measured, 28.99 ft below land-surface datum, Jan. 28, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	25.62	DEC 26	26.29	FEB 25	26.96	APR 29	25.98	JUN 24	25.32	AUG 27	26.26
NOV 28	25.79	JAN 28	26.74	MAR 25	26.89	MAY 28	26.07	JUL 29	25.76	SEP 24	26.67
WATER YEAR 2002		HIGHEST	25.32	JUN 24, 2002		LOWEST	26.96	FEB 25, 2002			

415217070393102. Plymouth well PWW 494.

LOCATION.--Lat 41°52'17", long 70°39'31", Plymouth County, Hydrologic Unit 01090002, in Myles Standish State Forest, in gravel pit 50 ft southeast of intersection of Lower College Pond Road and Crawford Road, approximately 5 mi northeast of South Carver.

Owner: Massachusetts Department of Environmental Management.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.5 in., depth 47 ft, screened 42 to 47 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 129 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.17 ft above land-surface datum.

PERIOD OF RECORD.--August 1985 to current year. Prior to April 1989, three random measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.28 ft below land-surface datum, July 28, 1998; lowest measured, 33.23 ft below land-surface datum, Nov. 24, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	29.65	DEC 26	30.66	FEB 25	31.39	APR 29	31.27	JUN 24	31.18	AUG 27	32.03
NOV 28	30.21	JAN 28	31.09	MAR 25	31.59	MAY 28	31.20	JUL 29	31.60	SEP 24	32.38
WATER YEAR 2002		HIGHEST	29.65	OCT 26, 2001		LOWEST	32.38	SEP 24, 2002			

414518070435701. Wareham well WFW 51.

LOCATION.--Lat 41°45'18", long 70°43'57", Plymouth County, Hydrologic Unit 01090002, 50 ft east of U.S. Highway 6 in Wareham.

Owner: Private owner.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 12.5 ft, cased with tile to 12.5 ft, open end. Prior to September 1980, well depth was 12.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 21 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of tile casing, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--July 1959 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.34 ft below land-surface datum, Jan. 26, 1978; lowest measured, dry, several months in water years 1980-84.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.37	DEC 26	10.18	FEB 26	9.41	APR 30	8.01	JUN 24	7.88	AUG 27	10.33
NOV 28	9.98	JAN 29	9.50	MAR 26	8.92	MAY 29	7.45	JUL 30	9.01	SEP 25	10.41
WATER YEAR 2002		HIGHEST	7.45	MAY 29, 2002		LOWEST	10.41	SEP 25, 2002			

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY

422125071440101. Boylston well BKW 87.

LOCATION.--Lat 42°21'25", long 71°44'01", Worcester County, Hydrologic Unit 01070004, about 200 ft south of French Road and 30 ft west of State Route 70 in Boylston, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial till of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 12.2 ft, screened 2.2 to 12.2 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 475 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to December 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.84 ft below land-surface datum, Jan. 29, 1996; lowest measured, dry, July 26, Aug. 26, Sept. 22, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	DRY	JAN 25	7.05	APR 23	5.96	MAY 16	3.92	JUL 15	8.54	SEP 24	DRY
NOV 26	DRY	FEB 25	5.99	MAY 06	4.99	JUN 24	6.06	AUG 27	DRY	25	12.20
DEC 26	DRY	MAR 26	3.62								
WATER YEAR	2002	HIGHEST	3.62	MAR 26, 2002	LOWEST	12.20	SEP 25, 2002				

422058072085501. Hardwick well HHW 1.

LOCATION.--Lat 42°20'58", long 72°08'55", Worcester County, Hydrologic Unit 01080204, 30 ft southeast of State Highway 32 and 0.6 mi southwest of Hardwick Road in Hardwick.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 33.2 ft, screened 31.2 to 33.2 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.17 ft below land-surface datum, Apr. 24, 2000; lowest measured, 17.77 ft below land-surface datum, Nov. 22, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	15.95	DEC 24	16.37	FEB 26	16.24	APR 28	15.02	JUN 25	14.21	AUG 24	15.98
NOV 23	16.32	JAN 23	16.64	MAR 26	16.10	MAY 26	13.03	JUL 22	15.22	SEP 22	16.28
WATER YEAR	2002	HIGHEST	13.03	MAY 26, 2002	LOWEST	16.64	JAN 23, 2002				

422020072145901. Hardwick well HHW 31.

LOCATION.--Lat 42°20'20", long 72°14'59", Worcester County, Hydrologic Unit 01080204, 5 ft north of Patrill Hollow Road and approximately 250 ft west of Muddy Brook in Hardwick.

Owner: Town of Hardwick.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 71.0 ft, screened 67.0 ft to 71.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 490 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.91 ft below land-surface datum, Apr. 5, 2001; lowest measured, 12.34 ft below land-surface datum, Nov. 21, 1997.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	11.26	DEC 19	11.17	FEB 25	11.28	APR 25	10.99	MAY 28	10.65	JUN 26	10.72
NOV 27	11.33	JAN 28	11.37	MAR 21	11.22						
WATER YEAR	2002	HIGHEST	10.65	MAY 28, 2002	LOWEST	11.37	JAN 28, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

422102071501401. Holden well HRW 169.

LOCATION.--Lat 42°21'02", long 71°50'14", Worcester County, Hydrologic Unit 01070004, about 50 ft west of intersection of Union and Malden Streets in Holden, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial till of pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well with well pipe inserted, diameter 2.0 in., depth 10.5 ft, screened 0.5 to 10.5 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 670 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to December 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.17 ft below land-surface datum, June 30, 1998; lowest measured, 9.02 ft below land-surface datum, Jan. 25, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	8.08	JAN 25	9.02	MAR 26	5.62	MAY 06	2.22	JUN 24	2.38	AUG 27	5.90
NOV 26	8.98	FEB 25	7.59	APR 23	2.79	16	1.64	JUL 15	3.26	SEP 25	7.15
DEC 26	9.00										
WATER YEAR	2002	HIGHEST	1.64	MAY 16, 2002	LOWEST	9.02		JAN 25, 2002			

420610071421402. Northbridge well NXW 54.

LOCATION.--Lat 42°06'10", long 71°42'14", Worcester County, Hydrologic Unit 01090003, about 100 ft northeast of the intersection of State Highway 146 and Main Street in Northbridge.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth 12 ft, screened 10 to 12 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 370 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.87 ft above land-surface datum, 2.0 ft prior to September 1992.

PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.02 ft below land-surface datum, June 27, 1998; lowest measured, 5.14 ft below land-surface datum, Oct. 22, 1986.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.70	DEC 24	4.83	FEB 26	4.71	APR 28	4.47	JUN 25	4.25	AUG 24	4.72
NOV 23	4.83	JAN 23	4.83	MAR 26	4.52	MAY 26	4.03	JUL 22	4.64	SEP 22	4.72
WATER YEAR	2002	HIGHEST	4.03	MAY 26, 2002	LOWEST	4.83		NOV 23, 2001	DEC 24, 2001	JAN 23, 2002	

422906072124301. Petersham well PHW 16.

LOCATION.--Lat 42°29'06", long 72°12'43", Worcester County, Hydrologic Unit 01080204, 0.6 mi east of West Street Cemetery, 500 ft south of West Street, and 100 ft west of access road in Petersham.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of the Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0-in. PVC, depth 39.0 ft, screened 29.0 to 39.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 790 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.71 ft below land-surface datum, June 5, 1984; lowest measured, 16.93 ft below land-surface datum, Dec. 19, 2001.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	16.49	DEC 19	16.93	FEB 25	15.01	APR 25	12.93	JUN 26	13.57	AUG 27	15.38
NOV 27	16.75	JAN 28	15.72	MAR 21	13.91	MAY 28	11.45	JUL 29	14.66	SEP 23	16.02
WATER YEAR	2002	HIGHEST	11.45	MAY 28, 2002	LOWEST	16.93		DEC 19, 2001			

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

422636071503601. Princeton well PYW 64.

LOCATION.--Lat 42°26'36", long 71°50'36", Worcester County, Hydrologic Unit 01070004, on north side of State Rt 62 and about 100 ft east of Thomas Prince School in Princeton, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial sand and gravel of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 21.9 ft, screened 11.9 to 21.9 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 695 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to December 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.95 ft below land-surface datum, Jan. 29, 1996; lowest measured, dry, Aug. 28, Sept. 22, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	DRY	JAN 25	DRY	MAR 26	16.08	MAY 06	15.92	JUN 24	16.32	AUG 27	DRY
NOV 26	DRY	FEB 25	17.47	APR 23	16.04	30	15.89	JUL 16	17.33	SEP 24	DRY
DEC 26	DRY										
WATER YEAR	2002	HIGHEST	15.89	MAY 30, 2002	LOWEST	17.47	FEB 25, 2002				

421851071312601. Southborough well SSW 12.

LOCATION.--Lat 42°18'51", long 71°31'26", Worcester County, Hydrologic Unit 01070005, 50 ft north of Overlook Drive circle, approximately 0.75 mi northeast of Southborough center.

Owner: Town of Southborough.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Drive-washed observation water-table well, diameter 1.25 in., depth 20 ft, screened 18 to 20 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--July 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.84 ft below land-surface datum, Apr. 1, 1993; lowest measured, 16.90 ft below land-surface datum, Dec. 20, 2001.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	14.77	DEC 20	16.90	FEB 26	8.21	APR 30	2.83	JUN 20	4.47	AUG 27	11.82
NOV 26	16.08	JAN 28	14.44	MAR 26	2.78	MAY 28	2.96	JUL 30	9.13	SEP 26	13.50
WATER YEAR	2002	HIGHEST	2.78	MAR 26, 2002	LOWEST	16.90	DEC 20, 2001				

422805071480801. Sterling well SYW 1.

LOCATION.--Lat 42°28'05", long 71°48'08", Worcester County, Hydrologic Unit 01070004, 45 ft northeast of Justice Hill Road and 0.8 mi west of South Nelson Road in Sterling.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 15 ft, cased with stone to 15 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 710 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of angle iron, at land-surface datum.

PERIOD OF RECORD.--May 1947 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.45 ft below land-surface datum, Feb. 25, 2000; dry, Nov. 28, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.95	DEC 24	11.40	FEB 26	4.19	APR 28	2.69	JUN 25	4.06	AUG 24	11.23
NOV 23	13.05	JAN 23	8.91	MAR 26	2.59	MAY 26	3.12	JUL 22	8.05	SEP 22	12.28
WATER YEAR	2002	HIGHEST	2.59	MAR 26, 2002	LOWEST	13.05	NOV 23, 2001				

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

422520071483001. Sterling well SYW 177.

LOCATION.--Lat 42°25'20", long 71°48'30", Worcester County, Hydrologic Unit 01070004, 20 ft east of State Route 140 and 200 ft northwest of Fox Run Road in Sterling, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial sand and gravel of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 24.4 ft, screened 14.4 to 24.4 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 505 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.40 ft below land-surface datum, Jan. 29, 1996; lowest measured, 16.17 ft below land-surface datum, Sept. 29, 2000.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	15.50	JAN 25	15.15	MAR 26	14.11	MAY 06	14.06	JUN 24	14.40	AUG 27	15.48
NOV 26	15.57	FEB 25	14.58	APR 23	14.22	30	14.18	JUL 16	14.72	SEP 24	15.80
DEC 27	15.26										
WATER YEAR	2002	HIGHEST	14.06	MAY 06, 2002		LOWEST	15.80	SEP 24, 2002			

23717072043101. Templeton well TMW 3.

LOCATION.--Lat 42°37'17", long 72°04'31", Worcester County, Hydrologic Unit 01080202, 60 ft east of U.S. Highway 202 and 0.2 mi south of Winchendon town line in Templeton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 13.8 ft, screened 11.8 to 13.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.2 ft above land-surface datum.

PERIOD OF RECORD.--December 1957 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.99 ft below land-surface datum, Jan. 25, 1996; lowest measured, 5.10 ft below land-surface datum, Sept. 29, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.97	DEC 24	3.75	FEB 26	3.47	APR 28	3.67	JUN 25	3.82	AUG 24	4.59
NOV 23	3.73	JAN 23	3.95	MAR 26	3.55	MAY 26	3.48	JUL 22	4.35	SEP 22	4.46
WATER YEAR	2002	HIGHEST	3.47	FEB 26, 2002		LOWEST	4.59	AUG 24, 2002			

420314071514001. Webster well WLW 1.

LOCATION.--Lat 42°03'14", long 71°51'40", Worcester County, Hydrologic Unit 01100001, 100 ft east of State Highway 52 and 100 ft south of Memorial Beach Drive in Webster.

Owner: Town of Webster.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in., depth 27.0 ft, cased to 27.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1958 to November 1979, October 1981 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.28 ft below land-surface datum, Mar. 25, 1968; lowest measured, 17.91 ft below land-surface datum, Nov. 23, 2001.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	17.06	DEC 24	17.72	FEB 26	14.49	APR 28	13.05	JUN 25	12.90	AUG 24	14.32
NOV 23	17.91	JAN 23	15.85	MAR 26	13.35	MAY 26	12.50	JUL 22	13.72	SEP 22	14.64
WATER YEAR	2002	HIGHEST	12.50	MAY 26, 2002		LOWEST	17.91	NOV 23, 2001			

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

422341071464901. West Boylston well WSW 26.

LOCATION.--Lat 42°23'41", long 71°46'49", Worcester County, Hydrologic Unit 01070004, 50 ft west of Prescott Street and about 0.2 mi south of Pleasant Street in West Boylston, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial sand and gravel of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 16.8 ft, screened 6.8 to 16.8 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 485 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land-surface datum, Jan. 29, 1996; lowest measured, 11.48 ft below land-surface datum, Oct. 27, 1997.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	10.77	JAN 25	9.78	MAR 26	5.24	MAY 06	4.01	JUN 24	6.17	AUG 27	9.52
NOV 26	11.38	FEB 25	6.95	APR 23	4.34	16	3.15	JUL 15	7.24	SEP 24	10.82
DEC 26	10.24										
WATER YEAR	2002	HIGHEST	3.15	MAY 16, 2002	LOWEST	11.38	NOV 26, 2001				

422130071473601. West Boylston well WSW 27.

LOCATION.--Lat 42°21'30", long 71°47'36", Worcester County, Hydrologic Unit 01070004, 200 ft east of Prospect Street and about 500 ft south of Wachusett Country Club building in West Boylston, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial till of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 25.0 ft, screened 15.0 to 25.0 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 680 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.6 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to December 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, Jan. 29, 1996; lowest measured, 22.53 ft below land-surface datum, Sept. 22, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	20.88	JAN 25	20.96	MAR 26	17.25	MAY 06	15.97	JUN 24	16.85	AUG 27	20.36
NOV 26	21.58	FEB 25	18.67	APR 23	16.63	30	16.31	JUL 15	17.88	SEP 25	20.71
DEC 27	21.41										
WATER YEAR	2002	HIGHEST	15.97	MAY 06, 2002	LOWEST	21.58	NOV 26, 2001				

422334071444201. West Boylston well WSW 28.

LOCATION.--Lat 42°23'34", long 71°44'42", Worcester County, Hydrologic Unit 01070004, 15 ft southeast of State Route 110 and 1.9 mi northeast of intersection of State Routes 110 and 12 in West Boylston, MA.

Owner: Metropolitan District Commission.

AQUIFER.--Glacial sand and clay of pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 29.4 ft, screened 19.4 to 29.4 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 525 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.6 ft above land-surface datum.

PERIOD OF RECORD.--June 1995 to December 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.50 ft below land-surface datum, June 30, 1997; lowest measured, 22.55 ft below land-surface datum, Aug. 26, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	20.58	JAN 25	14.84	MAR 26	11.04	MAY 06	10.82	JUN 24	13.19	AUG 27	20.23
NOV 26	21.30	FEB 25	12.31	APR 23	11.83	16	9.68	JUL 15	15.77	SEP 24	21.74
DEC 26	18.09										
WATER YEAR	2002	HIGHEST	9.68	MAY 16, 2002	LOWEST	21.74	SEP 24, 2002				

GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

421410072081301. West Brookfield well WUW 2.

LOCATION.--Lat 42°14'10", long 72°08'13", Worcester County, Hydrologic Unit 01080204, about 50 ft north of State Highway 9 and about 500 ft south of State Highway 67 in West Brookfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 43.0 ft, screened 40 to 43 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 630 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--October 1959 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.79 ft below land-surface datum, May 22, 1983; lowest measured, 23.63 ft below land-surface datum, Feb. 21, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	19.92	DEC 24	20.66	FEB 26	21.03	APR 28	20.26	JUN 25	19.98	AUG 24	20.54
NOV 23	20.13	JAN 23	20.87	MAR 26	20.68	MAY 26	20.18	JUL 22	20.09	SEP 22	20.80
WATER YEAR	2002	HIGHEST	19.92	OCT 25, 2001		LOWEST	21.03	FEB 26, 2002			

424204072015201. Winchendon well XNW 13.

LOCATION.--Lat 42°42'04", long 72°01'52", Worcester County, Hydrologic Unit 01080202, about 50 ft east of Forristall Road, 0.2 mi north of Elmwood Road, and 1.6 mi northeast of Winchendon.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 13.5 ft, cased with stone to 13.5 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape.

DATUM.--Elevation of land-surface datum is 1,209.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of extension pipe, 3.8 ft above land-surface datum.

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.86 ft below land-surface datum, Mar. 20, 1948; lowest measured, 13.50 ft below land-surface datum, Nov. 19, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	12.39	DEC 24	13.28	FEB 26	6.86	APR 28	4.10	JUN 25	4.55	AUG 24	10.48
NOV 23	12.37	JAN 23	13.43	MAR 26	5.67	MAY 26	3.77	JUL 22	8.02	SEP 22	11.45
WATER YEAR	2002	HIGHEST	3.77	MAY 26, 2002		LOWEST	13.43	JAN 23, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

KENT COUNTY

414223071453701. Coventry well COW 342.

LOCATION.--Lat 41°42'23", long 71°45'37", Kent County, Hydrologic Unit 01090004, town of Coventry, Plainfield Pike (Rt. 14) 1/4 mi from intersection with Rt. 117.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 13.1 ft, cased with stone to 13.1 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 380 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of well casing, 0.29 ft above land-surface datum; 1.89 ft above land-surface datum prior to Aug. 24, 2000.

PERIOD OF RECORD.--October 1953 to December 1961, December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.20 ft below land-surface datum, Dec. 22, 1992; lowest measured, 11.91 ft below land-surface datum, Aug. 24, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	11.25	DEC 26	10.46	FEB 21	10.17	APR 24	9.16	JUN 27	9.61	AUG 20	11.63
NOV 29	11.28	JAN 29	10.19	MAR 20	9.29	MAY 28	8.59	JUL 26	10.85	SEP 20	10.79
WATER YEAR	2002	HIGHEST	8.59	MAY 28, 2002	LOWEST	11.63	AUG 20, 2002				

414022071332801. Coventry well COW 411.

LOCATION.--Lat 41°40'22", long 71°33'28", Kent County, Hydrologic Unit 01090004, town of Coventry, about 75 ft west of house on Powhattan Avenue, 1.3 mi southeast of Washington.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 26 ft, cased with concrete to 26 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 260 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of concrete cover, 1.24 ft above land-surface datum.

PERIOD OF RECORD.--October 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.43 ft below land-surface datum, Apr. 23, 1983; dry on Oct. 25, 1986.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	22.80	JAN 29	23.23	MAR 20	22.83	JUN 03	21.54	JUL 25	22.11	SEP 04	22.81
NOV 29	23.17	FEB 22	23.19	APR 24	22.06	JUN 27	21.43	AUG 20	22.62	SEP 20	22.85
DEC 26	23.40										
WATER YEAR	2002	HIGHEST	21.43	JUN 27, 2002	LOWEST	23.40	DEC 26, 2001				

414315071410701. Coventry well COW 466.

LOCATION.--Lat 41°43'15", long 71°41'07", Kent County, Hydrologic Unit 01090004, town of Coventry, Audubon Society, Parker Woodland. Maple Valley Road at Flat River.

Owner: Audobon Society.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 17.8 ft, cased to 7.6 ft, screened from 7.6 ft to 17.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 345 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.91 ft below land-surface datum, Nov. 20, 1995; lowest measured, 5.61 ft below land-surface datum, Aug. 26, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	4.15	JAN 24	2.90	MAR 27	2.55	MAY 22	2.70	JUL 30	4.98	AUG 26	5.61
NOV 27	3.81	FEB 26	2.92	MAY 03	2.73	JUN 27	3.33	AUG 13	5.42	SEP 24	4.69
DEC 27	3.15										
WATER YEAR	2002	HIGHEST	2.55	MAR 27, 2002	LOWEST	5.61	AUG 26, 2002				

GROUND-WATER LEVELS IN RHODE ISLAND

KENT COUNTY--Continued

414106071223901. Warwick well WCW 59.

LOCATION.--Lat 41°41'06", long 71°22'39", Kent County, Hydrologic Unit 01090004, town of Warwick, Warwick Neck, Our Lady of Providence Seminary. Former Senator Aldrich mansion. Next to Rocky Point Amusement Park.

Owner: Our Lady of Providence Seminary.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 27.0 ft, cased with stone to 27.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 125 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on rock, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1949 to December 1955, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.46 ft below land-surface datum, Feb. 20, 1993; lowest measured, 24.77 ft below land-surface datum, Oct. 31, 1949.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	14.69	DEC 26	15.42	FEB 21	8.21	APR 24	5.01	JUN 27	5.45	AUG 20	14.27
NOV 29	15.81	JAN 29	10.70	MAR 20	5.49	MAY 28	4.90	JUL 25	10.17	SEP 20	17.98
WATER YEAR 2002		HIGHEST	4.90	MAY 28, 2002		LOWEST	17.98	SEP 20, 2002			

413907071465001. West Greenwich well GWG 181.

LOCATION.--Lat 41°39'07", long 71°46'50", Kent County, Hydrologic Unit 01090005, town of West Greenwich, about 50 ft from southeast corner of a house 1.3 mi north of intersection of Hazard and Muddy Brook Roads, and 1.8 mi northwest of West Greenwich Center.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 18.5 ft, lined with stone to 18.5 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 380 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of concrete cover, 0.54 ft above land-surface datum.

PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.15 ft below land-surface datum, Jan. 27, 1979; lowest measured, 17.78 ft below land-surface datum, Dec. 22, 1984.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	16.70	JAN 29	16.04	MAR 20	15.39	MAY 28	14.87	JUL 26	16.41	SEP 04	16.68
NOV 29	16.87	FEB 21	16.17	APR 24	15.53	JUN 27	15.87	AUG 20	16.53	SEP 20	16.31
DEC 26	16.84										
WATER YEAR 2002		HIGHEST	1 4.87	MAY 28, 2002		LOWEST	16.87	NOV 29, 2001			

413645071332901. West Greenwich well GWG 206.

LOCATION.--Lat 41°36'45", long 71°33'29", Kent County, Hydrologic Unit 01090004, town of West Greenwich, Hopkins Hill Road.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 9.6 ft, cased with stone to 9.6 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 374.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on rock, 3.05 ft above land-surface datum.

PERIOD OF RECORD.--October 1955 to June 1960, January 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.85 ft below land-surface datum, Oct. 17, 1955; lowest measured, dry, Aug. 26, Sept. 22, Oct. 25, 1993, Sept. 27, 1995, Oct. 23, 1997.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	6.04	DEC 26	5.49	FEB 22	4.72	APR 24	4.13	JUN 27	4.40	AUG 20	7.04
NOV 29	6.20	JAN 29	4.94	MAR 20	4.24	MAY 28	4.03	JUL 26	5.82	SEP 20	6.62
WATER YEAR 2002		HIGHEST	4.03	MAY 28, 2002		LOWEST	7.04	AUG 20, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

NEWPORT COUNTY

41322007115501. Little Compton well LTW 142.

LOCATION.--Lat 41°32'20", long 71°11'55", Newport County, Hydrologic Unit 01090004, town of Little Compton, East of Rt. 77 at intersection with Old Main Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 23.1 ft, cased to 12.9 ft, screened from 12.9 ft to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 100 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.23 ft below land-surface datum, Jan. 22, 1996; lowest measured, dry, Aug. 25, Sept. 29, Oct. 26, Dec. 2, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 28	DRY	FEB 25	13.53	MAY 02	11.75	JUN 28	13.68	AUG 15	18.43	SEP 26	DRY
JAN 29	13.42	MAR 27	11.25	20	6.81	JUL 29	17.46	29	DRY		
WATER YEAR	2002	HIGHEST	6.81	MAY 20, 2002	LOWEST	18.43	AUG 15, 2002				

413325071152401. Portsmouth well POW 551.

LOCATION.--Lat 41°33'25", long 71°15'24", Newport County, Hydrologic Unit 01090004, town of Portsmouth, State police barracks, Portsmouth Terrace on East Main St. (Rt. 138); just south of Union St.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 51.9 ft, cased to 41.7 ft, screened from 41.7 ft to 51.1 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 245 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.42 ft below land-surface datum, Mar. 21, 2000; lowest measured, dry, Sept. 29, Oct. 26, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 28	DRY	FEB 26	38.41	MAY 03	34.49	JUN 25	35.57	AUG 15	46.04	SEP 26	49.90
JAN 28	42.73	MAR 28	35.10	20	27.65	JUL 29	43.36	28	48.21		
WATER YEAR	2002	HIGHEST	27.65	MAY 20, 2002	LOWEST	49.90	SEP 26, 2002				

413442071093801. Tiverton well TIW 274.

LOCATION.--Lat 41°34'42", long 71°09'38", Newport County, Hydrologic Unit 01090004, town of Tiverton, 305 Lake Road.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 13.18 ft, cased with concrete to 13.18 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on cross beam, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.43 ft below land-surface datum, Mar. 27, 2002; lowest measured, 13.61 ft below land-surface datum, June. 26, 2000.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	8.97	JAN 29	2.17	MAR 27	0.43	MAY 20	1.00	JUL 29	9.29	AUG 29	11.19
NOV 28	9.83	FEB 26	2.77	MAY 01	.87	JUN 28	4.01	AUG 15	10.44	SEP 26	10.56
DEC 28	11.43										
WATER YEAR	2002	HIGHEST	0.43	MAR 27, 2002	LOWEST	11.43	DEC 28, 2001				

GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY

415710071402201. Burrillville well BUW 187.

LOCATION.--Lat 41°57'10", long 71°40'22", Providence County, Hydrologic Unit 01090003, town of Burrillville, 25 ft east of road and 75 ft southwest of a house 0.6 mi north of intersection of Harrisville and Lapham Farm Roads, and 0.9 mi south of Harrisville.

Owner: Brothers of the Sacred Heart.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 19.8 ft, lined with stone to 19.8 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 462 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of concrete cover, 0.58 ft above land-surface datum.

PERIOD OF RECORD.--January 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.74 ft below land-surface datum, Apr. 23, 1983; lowest measured, 18.83 ft below land-surface datum, Nov. 3, 1970.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	17.32	JAN 29	16.95	MAR 20	16.12	MAY 28	15.17	JUL 26	16.34	SEP 04	17.36
NOV 29	17.61	FEB 21	16.54	APR 24	15.62	JUN 27	15.37	AUG 20	17.11	SEP 20	17.56
DEC 26	17.46										
WATER YEAR	2002	HIGHEST	15.17	MAY 28, 2002		LOWEST	17.61	NOV 29, 2001			

415546071474701. Burrillville well BUW 395.

LOCATION.--Lat 41°55'46", long 71°47'47", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Memorial State Park, near southeast corner of parking area #3.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 17.7 ft, cased to 7.8 ft, screened from 7.8 ft to 17.2 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 575 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.1 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.04 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, Sept. 26, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.93	JAN 30	9.89	MAR 28	6.77	MAY 21	5.88	JUL 30	14.75	AUG 27	11.58
NOV 26	11.90	FEB 26	9.06	MAY 01	6.68	JUN 25	11.90	AUG 14	11.01	SEP 27	12.57
WATER YEAR	2002	HIGHEST	5.88	MAY 21, 2002		LOWEST	14.75	JUL 30, 2002			

4158470711471401. Burrillville well BUW 396.

LOCATION.--Lat 41°58'47", long 71°47'14", Providence County, Hydrologic Unit 01100001, town of Burrillville, Buck Hill Road, 0.3 mi west of Wakefield Road; north side of road at turn-out, near stream. Near power-line pole #64.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 17.4 ft, cased to 7.2 ft, screened from 7.2 ft to 16.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 530 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.32 ft below land-surface datum, Mar. 28, 1994; lowest measured, 7.65 ft below land-surface datum, Aug. 25, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	5.90	JAN 29	6.16	MAR 28	4.73	MAY 21	5.10	JUL 30	5.86	AUG 28	7.03
NOV 28	6.15	FEB 27	5.55	MAY 01	5.28	JUN 25	5.54	AUG 13	7.08	SEP 27	7.07
DEC 27	DRY										
WATER YEAR	2002	HIGHEST	4.73	MAR 28, 2002		LOWEST	7.08	AUG 13, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY--Continued

415606071462201. Burrillville well BUW 397.

LOCATION.--Lat 41°56'06", long 71°46'22", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Memorial State Park, Center Trail, east of buw 395.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 25.6 ft, cased to 15.2 ft, screened from 15.2 ft to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 705 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.00 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, several times in water years 1993, 1998, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	23.55	JAN 30	DRY	MAR 28	22.40	MAY 21	12.85	JUL 30	DRY	AUG 27	DRY
NOV 26	DRY	FEB 26	DRY	MAY 01	15.40	JUN 26	21.10	AUG 14	DRY	SEP 27	22.89
DEC 27	DRY										
WATER YEAR	2002	HIGHEST	12.85	MAY 21, 2002	LOWEST	23.55	OCT 25, 2001				

415559071471201. Burrillville well BUW 398.

LOCATION.--Lat 41°55'59", long 71°47'12", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Park, Center Trail.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 13.5 ft, cased to 3.3 ft, screened from 3.3 ft to 12.7 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 615 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.7 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.65 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, several times in water year 1998.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 26	DRY	JAN 30	DRY	MAR 28	7.28	MAY 21	6.71	JUL 30	DRY	AUG 27	DRY
DEC 27	DRY	FEB 26	DRY	MAY 01	7.90	JUN 26	10.53	AUG 14	DRY	SEP 27	DRY
WATER YEAR	2002	HIGHEST	6.71	MAY 21, 2002	LOWEST	10.53	JUN 26, 2002				

414448071323001. Cranston well CRW 439.

LOCATION.--Lat 41°44'48", long 71°32'30", Providence County, Hydrologic Unit 01090004, town of Cranston, J.L. Curran Park, west side of Laten Knight Road, 0.3 mi north of Hope Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 23.1 ft, cased to 12.9 ft, screened from 12.9 ft to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 395 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.57 ft below land-surface datum, Mar. 24, 1998; lowest measured, dry, Oct. 26, Nov. 29, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	20.22	JAN 24	20.85	MAR 27	17.46	MAY 22	10.54	JUL 30	17.52	AUG 27	19.47
NOV 27	20.89	FEB 25	19.67	MAY 03	13.42	JUN 27	13.72	AUG 15	18.74	SEP 24	20.36
DEC 27	21.38										
WATER YEAR	2002	HIGHEST	10.54	MAY 22, 2002	LOWEST	21.38	DEC 27, 2001				

GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY--Continued

415626071254601. Cumberland well CUW 265.

LOCATION.--Lat 41°56'26", long 71°25'46", Providence County, Hydrologic Unit 01090003, town of Cumberland, at 27 Scott Street, 900 ft northeast of intersection of Scott Street and Mendon Road in Ashton.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 20 ft, lined with stone to 20 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in wooden cover, 0.06 ft above land-surface datum.

PERIOD OF RECORD.--August 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.20 ft below land-surface datum, Jan. 27, 1979; lowest measured, 17.20 ft below land-surface datum, Sept. 29, 1949.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	15.28	JAN 29	12.43	MAR 20	11.32	MAY 28	10.88	JUL 26	13.20	SEP 04	13.66
NOV 29	15.47	FEB 21	11.89	APR 24	11.71	JUN 27	12.09	AUG 20	13.75	SEP 20	13.40
DEC 26	14.40										
WATER YEAR	2002	HIGHEST	10.88	MAY 28, 2002		LOWEST	15.47	NOV 29, 2001			

414420071422301. Foster well FOW 40.

LOCATION.--Lat 41°44'20", long 71°42'23", Providence County, Hydrologic Unit 01090004, town of Foster, Plainfield Pike.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 48 in., depth 15.4 ft, cased with stone to 15.4 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 630 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow top of casing, 0.40 ft. above land-surface datum.

PERIOD OF RECORD.--July 1953 to February 1959, April 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.29 ft below land-surface datum, May 27, 1954; lowest measured, 13.97 ft below land-surface datum, Oct. 28, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	9.49	DEC 26	7.23	FEB 21	3.96	APR 24	5.00	JUN 27	6.15	AUG 20	11.20
NOV 29	9.44	JAN 29	4.32	MAR 20	3.70	MAY 28	4.66	JUL 26	9.69	SEP 20	11.51
WATER YEAR	2002	HIGHEST	3.70	MAR 20, 2002		LOWEST	11.51	SEP 20, 2002			

414357071405101. Foster well FOW 290.

LOCATION.--Lat 41°43'57", long 71°40'51", Providence County, Hydrologic Unit 01090004, town of Foster, Parker Woodland, Audobon Society. Pig Hill Road, 1 mi north of Maple Valley Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 15.4 ft, cased to 5.2 ft, screened from 5.2 ft to 14.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 345 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.36 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, several times in water years 1993, 1994, and 1998.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 27	DRY	JAN 24	DRY	MAR 27	8.99	MAY 22	5.39	JUL 30	DRY	AUG 26	13.83
DEC 27	DRY	FEB 26	12.75	MAY 03	6.67	JUN 27	7.32	AUG 13	12.63	SEP 24	DRY
WATER YEAR	2002	HIGHEST	5.39	MAY 22, 2002		LOWEST	13.83	AUG 26, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY--Continued

415437071242201. Lincoln well LIW 84.

LOCATION.--Lat 41°54'37", long 71°24'22", Providence County, Hydrologic Unit 0190003, town of Lincoln, at north side of Maplehurst Farms building, and 800 ft west of Blackstone River bridge in Lonsdale.

Owner: Maplehurst Farms, Inc.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 107 ft, cased to 107 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 60 ft above National Geodetic Vertical Datum of 1929. Measuring point: Inside lower lip of 8-in. pipe, 3.32 ft above land-surface datum.

REMARKS.--Water level affected by Blackstone River floods.

PERIOD OF RECORD.--June 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.97 ft above land-surface datum, Jan. 28, 1976, lowest measured, 7.36 ft below land-surface datum, Aug. 24, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	5.91	JAN 29	6.08	MAR 20	5.97	MAY 28	5.28	JUL 26	6.34	SEP 04	6.29
NOV 29	6.09	FEB 21	5.98	APR 24	5.94	JUN 27	5.70	AUG 20	6.59	SEP 20	6.46
DEC 26	5.84										
WATER YEAR	2002	HIGHEST	5.28	MAY 28, 2002		LOWEST	6.59	AUG 20, 2002			

415948071325001 North Smithfield well NSW 21.

LOCATION.--Lat 41°59'48", long 71°32'50", Providence County, Hydrologic Unit 1090003, town of North Smithfield, 500 ft southwest of State Highway 146A, 900 ft west of intersection of State Highway 146A and Harkness Road at Branch Village.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 24 in., depth 16 ft, cased with tile to 16 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 238.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in concrete cover at top of tile casing, 1.84 ft below land-surface datum.

REMARKS.--Well used for domestic supply; water levels affected by pumping, 1947-80.

PERIOD OF RECORD.--May 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.67 ft below land-surface datum, Mar. 26, 1969; lowest measured, 11.71 ft below land-surface datum, Oct. 28, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	11.27	JAN 29	9.16	MAR 20	7.63	MAY 28	6.76	JUL 26	9.49	SEP 04	10.22
NOV 29	10.58	FEB 21	8.39	APR 24	7.46	JUN 27	8.19	AUG 20	10.24	SEP 20	10.40
DEC 26	10.22										
WATER YEAR	2002	HIGHEST	6.76	MAY 28, 2002		LOWEST	11.27	OCT 30, 2001			

GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY--Continued

414746071255601. Providence well PRW 48.

LOCATION.--Lat 41°47'46", long 71°25'56", Providence County, Hydrologic Unit 01090004, city of Providence, at 333 Adelaide Avenue, and 800 ft northwest of Adelaide and 800 ft west of Narragansett Avenues.

Owner: Gorham Division of Textron.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 124 ft, cased to 116 ft, screened 116 to 124 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 45.79 ft, above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole in center of steel cover, 0.48 ft below land-surface datum.

REMARKS.--Water level affected by pumping from one or more nearby wells.

PERIOD OF RECORD.--December 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.78 ft below land-surface datum, Apr. 23, 1983; lowest measured, 10.22 ft below land-surface datum, Oct. 20, 1947.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	4.97	JAN 29	5.21	MAR 20	5.23	MAY 28	4.71	JUL 25	5.11	SEP 04	5.21
NOV 29	4.99	FEB 21	5.27	APR 24	5.06	JUN 27	4.81	AUG 20	5.28	SEP 20	4.99
DEC 26	5.04										
WATER YEAR	2002	HIGHEST	4.71	MAY 28, 2002		LOWEST	5.28	AUG 20, 2002			

WASHINGTON COUNTY

412214071394001. Charlestown well CHW 18.

LOCATION.--Lat 41°22'14", long 71°39'40", Washington County, Hydrologic Unit 01090005, town of Charlestown, 1,900 ft southeast of U.S. Highway 1, at former U.S. Navy Auxiliary Air Station.

Owner: U.S. General Services Administration.

AQUIFER.--Sand and clay of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 32 ft, cased to 32 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.09 ft below land-surface datum, Apr. 23, 1983; lowest measured, 21.63 ft below land-surface datum, Dec. 29, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	20.11	JAN 29	20.83	MAR 20	20.19	MAY 28	15.89	JUL 26	18.55	SEP 04	20.35
NOV 29	20.70	FEB 22	20.40	APR 24	17.90	JUN 27	16.84	AUG 20	19.76	SEP 20	20.73
DEC 27	21.13										
WATER YEAR	2002	HIGHEST	15.89	MAY 28, 2002		LOWEST	21.13	DEC 27, 2001			

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412434071422401. Charlestown well CHW 586.

LOCATION.--Lat 41°24'34", long 71°42'24", Washington County, Hydrologic Unit 01090005, town of Charlestown, Burlingame State Park, 0.7 mi from Buckeye Road on Clawson Trail.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 14.3 ft, cased to 4.1 ft, screened from 4.1 ft to 13.5 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 125 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.84 ft below land-surface datum, Mar. 28, 2002; lowest measured, dry, Aug. 26, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	3.12	DEC 26	3.56	MAR 28	1.84	MAY 20	3.33	JUL 30	4.63	AUG 26	6.51
25	3.90	JAN 28	3.64	APR 30	3.41	JUN 27	3.93	AUG 14	5.83	SEP 26	4.23
NOV 26	3.76	FEB 27	3.76								
WATER YEAR	2002	HIGHEST	1.84	MAR 28, 2002	LOWEST	6.51		AUG 26, 2002			

412424071423601. Charlestown well CHW 587.

LOCATION.--Lat 41°24'24", long 71°42'36", Washington County, Hydrologic Unit 01090005, town of Charlestown, Burlingame State Park, 0.8 mi from Buckeye Brook Road on Mills Trail.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in., depth 12.5 ft, cased to 2.3 ft, screened from 2.3 ft to 11.7 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by Rhode Island Department of Environmental Management.

DATUM.--Elevation of land-surface datum is 90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.35 ft below land-surface datum, Mar. 24, 1999; lowest measured, 12.56 ft below land-surface datum, July 30, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.92	JAN 28	8.56	MAR 28	6.68	MAY 20	4.96	JUL 30	12.56	AUG 26	DRY
NOV 26	DRY	FEB 27	9.08	APR 30	7.14	JUN 27	9.26	AUG 14	11.87	SEP 26	DRY
DEC 26	11.10										
WATER YEAR	2002	HIGHEST	4.96	MAY 20, 2002	LOWEST	12.56		JUL 30, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413423071431901. Exeter well EXW 6.

LOCATION.--Lat 41°34'23", long 71°43'19", Washington County, Hydrologic Unit 01090005, town of Exeter, in Arcadia State Forest, 150 ft west of Wood River, 250 ft south of Ten Rod Road, and 2.0 mi west of Millville.

Owner: State Dept. of Natural Resources.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in., depth 10 ft, cased with concrete to 10 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 132.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of wooden cover, at land-surface datum.

REMARKS.--Water level affected by stage of nearby Wood River.

PERIOD OF RECORD.--December 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.34 ft below land-surface datum, Jan. 27, 1979; lowest measured, 7.97 ft below land-surface datum, Sept. 26, 1981.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	6.87	JAN 29	6.64	MAR 20	6.32	MAY 28	5.58	JUL 26	6.65	SEP 04	6.80
NOV 29	6.95	FEB 21	6.65	APR 24	6.00	JUN 27	5.87	AUG 20	7.04	SEP 20	6.94
DEC 26	6.70										
WATER YEAR	2002	HIGHEST	5.58	MAY 28, 2002		LOWEST	7.04	AUG 20, 2002			

413505071452801. Exeter well EXW 158.

LOCATION.--Lat 41°35'05", long 71°45'28", Washington County, Hydrologic Unit 01090005, town of Exeter, Escoheag Hill Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 18.3 ft, cased with stone to 18.3 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 315 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on rock, at land-surface datum.

PERIOD OF RECORD.--September 1953 to February 1959, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.85 ft below land-surface datum, Mar. 25, 1994; lowest measured, dry, several times during water years 1994 and 1998.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29	17.21	JAN 29	15.11	MAR 20	9.12	MAY 28	6.19	JUL 26	13.44	SEP 20	17.42
DEC 26	17.27	FEB 21	13.32	APR 24	6.94	JUN 27	8.16	AUG 20	16.32		
WATER YEAR	2002	HIGHEST	6.19	MAY 28, 2002		LOWEST	17.42	SEP 20, 2002			

413400071363101. Exeter well EXW 238.

LOCATION.--Lat 41°34'00", long 71°36'31", Washington County, Hydrologic Unit 01090005, town of Exeter, Tripps Corner Road.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 14.4 ft, cased with stone to 14.4 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 333.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on rock, at land-surface datum.

PERIOD OF RECORD.--October 1955 to June 1960, May 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.37 ft below land-surface datum Oct. 17, 1955; lowest measured, 13.61 ft below land-surface datum, July 22, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	11.65	DEC 26	11.21	FEB 22	11.30	APR 24	11.23	JUN 27	12.11	AUG 20	13.38
NOV 29	11.55	JAN 29	11.42	MAR 20	11.20	MAY 28	11.53	JUL 26	12.93	SEP 20	12.76
WATER YEAR	2002	HIGHEST	11.20	MAR 20, 2002		LOWEST	13.38	AUG 20, 2002			

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413135071314201. Exeter well EXW 278.

LOCATION.--Lat 41°31'35", long 71°31'42", Washington County, Hydrologic Unit 01090005, town of Exeter, Liberty Road 1.04 mi from Rt. 2.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 23.9 ft, cased with stone to 23.9 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 230.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow top of casing, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--August 1954 to June 1960, March 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.06 ft below land-surface datum, May 29, 1991; lowest measured, dry, several times in water years 1993, 1994, and 1998.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	20.96	DEC 26	22.69	FEB 22	20.23	APR 24	12.66	JUN 27	11.42	AUG 20	17.94
NOV 29	DRY	JAN 29	22.00	MAR 20	17.83	MAY 28	9.47	JUL 26	15.13	SEP 20	20.72
WATER YEAR	2002	HIGHEST	9.47	MAY 28, 2002	LOWEST	22.69	DEC 26, 2001				

413358071433801. Exeter well EXW 475.

LOCATION.--Lat 41°33'58", long 71°43'38", Washington County, Hydrologic Unit 01090005, town of Exeter, 70 ft east of Mt. Tom Road, 50 ft north of Blitzkrieg Trail, and 2.4 mi northwest of Barberville.

Owner: State Department of Environmental Management.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 40 ft, cased to 38 ft, screened 38 to 40 ft.

INSTRUMENTATION.--Continuous graphic recorder March 1981 to May 1988, digital recorder (60-min punch) June 1988 to current year.

DATUM.--Land-surface datum is 142.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 3.38 ft above land-surface datum.

PERIOD OF RECORD.--March 1981 to current year.

REMARKS.--Missing periods of more than one day are not estimated.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.58 ft below land-surface datum, Apr. 28, 29, 1983; lowest, 16.74 ft below land-surface datum, Oct. 19, 1981, Sept. 17, 1995.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.55	16.09	16.49	16.67	16.55	16.57	15.80	15.23	14.59	14.71	15.64	16.48
2	15.56	16.11	16.50	16.68	16.55	16.56	15.75	15.22	14.59	14.74	15.67	16.49
3	15.58	16.12	16.51	16.69	16.55	16.53	15.70	15.20	14.60	14.76	15.70	16.49
4	15.60	16.13	16.52	16.69	16.55	16.46	15.66	15.20	14.61	14.80	15.72	16.49
5	15.62	16.15	16.53	16.70	16.55	16.42	15.62	15.20	14.61	14.83	15.75	16.49
6	15.64	16.17	16.54	16.71	16.55	16.38	15.58	15.20	14.61	14.86	15.78	16.51
7	15.65	16.18	16.55	16.72	16.56	16.34	15.55	15.18	14.57	14.89	15.81	16.52
8	15.68	16.19	16.57	16.72	16.57	16.31	15.51	15.18	14.54	14.92	15.84	16.53
9	15.70	16.21	16.57	16.72	16.59	16.28	15.48	15.18	14.52	14.94	15.87	16.55
10	15.71	16.22	16.58	16.72	16.59	16.25	15.45	15.18	14.51	14.97	15.89	16.56
11	15.73	16.24	16.59	16.72	16.59	16.22	15.43	15.19	14.50	15.00	15.92	16.58
12	15.75	16.25	16.60	16.73	16.58	16.20	15.40	15.20	14.49	15.04	15.95	16.60
13	15.77	16.27	16.61	16.72	16.58	16.18	15.38	15.19	14.49	15.07	15.99	16.62
14	15.79	16.28	16.62	16.69	16.58	16.17	15.36	15.13	14.49	15.10	16.02	16.63
15	15.81	16.30	16.63	16.65	16.58	16.15	15.35	15.09	14.49	15.13	16.05	16.65
16	15.82	16.31	16.63	16.63	16.58	16.14	15.33	15.05	14.49	15.16	16.08	16.66
17	15.84	16.33	16.64	16.61	16.59	16.13	15.32	15.01	14.48	15.19	16.11	16.65
18	15.86	16.33	16.65	16.60	16.59	16.12	15.31	14.97	14.48	15.22	16.14	16.66
19	15.87	16.34	16.64	16.59	16.59	16.11	15.30	14.92	14.49	15.25	16.17	16.66
20	15.89	16.36	16.65	16.58	16.60	16.10	15.29	14.87	14.50	15.28	16.20	16.68
21	15.91	16.37	16.65	16.57	16.59	16.07	15.29	14.83	14.51	15.32	16.23	16.69
22	15.93	16.39	16.65	16.57	16.58	16.05	15.29	14.79	14.53	15.35	16.25	16.69
23	15.94	16.40	16.66	16.57	16.57	16.04	15.29	14.76	14.53	15.38	16.28	16.70
24	15.96	16.41	16.66	16.57	16.57	16.02	15.29	14.72	14.55	15.41	16.30	16.69
25	15.97	16.43	16.65	16.55	16.57	16.01	15.29	14.70	14.58	15.44	16.33	16.69
26	15.99	16.44	16.64	16.55	16.57	15.99	15.28	14.67	14.60	15.47	16.35	16.69
27	16.01	16.45	16.64	16.55	16.57	15.97	15.27	14.65	14.61	15.50	16.38	16.69
28	16.03	16.46	16.64	16.55	16.57	15.93	15.26	14.64	14.64	15.53	16.41	16.67
29	16.04	16.47	16.65	16.55	---	15.90	15.24	14.63	14.66	15.55	16.43	16.65
30	16.06	16.49	16.66	16.55	---	15.87	15.24	14.63	14.69	15.58	16.45	16.65
31	16.08	---	16.67	16.55	---	15.84	---	14.61	---	15.61	16.47	---
MEAN	15.82	16.30	16.61	16.63	16.57	16.17	15.41	14.97	14.55	15.16	16.07	16.61
LOW	16.08	16.49	16.67	16.73	16.60	16.57	15.80	15.23	14.69	15.61	16.47	16.70
HIGH	15.55	16.09	16.49	16.55	16.55	15.84	15.24	14.61	14.48	14.71	15.64	16.48
WTR YR 2002	INSTANTANEOUS	HIGH	14.48	JUNE 16-19	LOW	16.73	JAN 11-13					

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413252071323601. Exeter well EXW 554.

LOCATION.--Lat 41°32'52", long 71°32'36", Washington County, hydrologic Unit 01090005, town of Exeter, about 1,500 ft south of fire station at Exeter State (Dr. Joseph H. Ladd) School. One half mile west of Rt. 2 on Dawley Rd. and approximately 100 ft north of center line of Dawley Rd.
Owner: State Dept. of Public Welfare.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 25.1 ft, cased to 22.8 ft, screened from 22.8 ft to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 156.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Replacement well for EXW16, which was influenced by parking lot runoff.

PERIOD OF RECORD.--December 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.03 ft below land-surface datum, Mar. 28, 2001; lowest measured, 12.20 ft below land-surface datum, Nov. 29, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	10.99	DEC 26	11.32	FEB 22	11.00	APR 24	9.79	JUN 27	9.94	AUG 20	11.29
NOV 29	11.36	JAN 29	11.05	MAR 20	10.55	MAY 28	9.22	JUL 26	10.60	SEP 20	11.50
WATER YEAR	2002	HIGHEST	9.22	MAY 28, 2002	LOWEST	11.50	SEP 20, 2002				

413126071455501. Hopkinton well HOW 67.

LOCATION.--Lat 41°31'26", long 71°45'55", Washington County, Hydrologic Unit 01090005, town of Hopkinton, Beach Pond Road, Rt. 138.
Owner: Rhode Island Boy Scouts.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 22.9 ft, cased with stone to 22.9 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 335 ft above National Geodetic Vertical Datum of 1929. Measuring point: Spray painted arrow on rock, 1.89 ft above land-surface datum.

PERIOD OF RECORD.--August 1953 to February 1959, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.55 ft below land-surface datum, Mar. 28, 2001; lowest measured, dry, Oct. 29, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	20.80	DEC 27	21.48	FEB 22	20.80	APR 24	17.68	JUN 27	16.47	AUG 20	20.69
NOV 29	21.52	JAN 29	20.90	MAR 20	19.69	MAY 28	15.48	JUL 26	19.02	SEP 20	21.38
WATER YEAR	2002	HIGHEST	15.48	MAY 28, 2002	LOWEST	21.52	NOV 29, 2001				

410947071344803. New Shoreham well NHW 258.

LOCATION.--Lat 41°09'47", long 71°34'48", Washington County, Hydrologic Unit 01090005, town of New Shoreham, Lakeside Drive near Indian Cemetary.

Owner: State of Rhode Island, D.O.T.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 19.0 ft, cased to 14.0 ft, screened from 14.0 ft to 19.0 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by observer.

DATUM.--Elevation of land-surface datum is 120 ft above National Geodetic Vertical Datum of 1929. Measuring point: Notch in PVC casing, 0.85 ft above land-surface datum.

PERIOD OF RECORD.--August 1990 and September 1990, June 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.05 ft below land-surface datum, Mar. 29, 1993; lowest measured, 13.83 ft below land-surface datum, Nov. 21, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28	13.43	JAN 31	13.56	MAR 28	12.85	MAY 27	11.35	JUL 21	11.95	SEP 28	13.13
DEC 30	13.72	FEB 28	13.10	APR 29	11.80	JUN 24	11.45	AUG 26	12.70		
WATER YEAR	2002	HIGHEST	11.35	MAY 27, 2002	LOWEST	13.72	DEC 30, 2001				

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413148071281601. North Kingstown well NKW 255.

LOCATION.--Lat 41°31'48", long 71°28'16", Washington County, Hydrologic Unit 01090004, town of North Kingstown, 100 ft east of Pendar Road, 0.6 mi south of intersection of Pendar and Tower Hill Roads, and 1.0 mi south of Allenton.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 14 ft, cased with concrete to 14 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of concrete cover, 0.24 ft above land-surface datum.

PERIOD OF RECORD.--August 1954 to December 1963, January 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.81 ft below land-surface datum, Mar. 26, 1968; lowest measured, 13.03 ft below land-surface datum, Oct. 26, 1981.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	9.77	JAN 29	9.67	MAR 20	9.80	MAY 28	8.30	JUL 26	10.17	SEP 04	10.41
NOV 29	10.13	FEB 22	10.10	APR 24	9.30	JUN 27	9.10	AUG 20	10.74	SEP 20	10.75
DEC 27	9.96										
WATER YEAR	2002	HIGHEST	8.30	MAY 28, 2002	LOWEST	10.75	SEP 20, 2002				

412932071374302. Richmond well RIW 417.

LOCATION.--Lat 41°29'32", long 71°37'43", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft south of State Highway 138, about 75 ft west of Beaver River, and 3.3 mi north of Kenyon.

Owner: State Department of Transportation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in, depth 40 ft, cased to 37 ft, screened 37 to 40 ft.

INSTRUMENTATION.--Continuous graphic recorder December 1975 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 115.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 0.60 ft above land-surface datum.

REMARKS.--Water level affected by stage of nearby Beaver River. Missing periods of more than one day are not estimated.

PERIOD OF RECORD.--December 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.08 ft below land-surface datum, Apr. 25, 1983; lowest, 8.02 ft below land-surface datum, Oct. 3, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.46	7.67	7.78	7.68	7.49	7.50	6.74	6.53	6.18	6.59	7.34	7.88
2	7.43	7.67	7.78	7.70	7.49	7.50	6.69	6.51	6.21	6.62	7.37	7.75
3	7.43	7.67	7.78	7.71	7.49	7.35	6.69	6.47	6.24	6.65	7.39	7.62
4	7.46	7.68	7.79	7.72	7.49	7.27	6.69	6.47	6.27	6.69	7.41	7.63
5	7.48	7.68	7.80	7.73	7.49	7.27	6.69	6.48	6.29	6.72	7.44	7.64
6	7.49	7.68	7.80	7.74	7.50	7.27	6.69	6.49	6.29	6.75	7.46	7.70
7	7.51	7.69	7.81	7.71	7.51	7.28	6.69	6.49	6.03	6.78	7.49	7.75
8	7.52	7.70	7.81	7.70	7.51	7.28	6.69	6.50	5.98	6.80	7.51	7.79
9	7.53	7.70	7.80	7.70	7.52	7.29	6.69	6.51	6.04	6.82	7.54	7.82
10	7.54	7.71	7.79	7.70	7.53	7.27	6.63	6.51	6.12	6.84	7.57	7.84
11	7.55	7.72	7.79	7.70	7.50	7.26	6.61	6.53	6.18	6.87	7.60	7.87
12	7.56	7.73	7.79	7.68	7.49	7.26	6.61	6.54	6.21	6.90	7.62	7.89
13	7.56	7.73	7.80	7.61	7.49	7.26	6.62	6.47	6.23	6.93	7.64	7.91
14	7.58	7.74	7.80	7.54	7.49	7.26	6.62	6.20	6.26	6.95	7.67	7.92
15	7.58	7.74	7.79	7.52	7.49	7.26	6.63	6.18	6.25	6.98	7.69	7.93
16	7.58	7.74	7.79	7.51	7.49	7.26	6.63	6.20	6.26	7.00	7.70	7.80
17	7.56	7.75	7.79	7.51	7.50	7.26	6.63	6.22	6.25	7.03	7.72	7.77
18	7.56	7.76	7.70	7.51	7.50	7.26	6.65	6.09	6.27	7.05	7.75	7.79
19	7.58	7.77	7.66	7.52	7.50	7.25	6.66	5.95	6.31	7.08	7.78	7.81
20	7.58	7.78	7.66	7.52	7.51	7.21	6.67	5.95	6.35	7.09	7.79	7.84
21	7.59	7.78	7.66	7.53	7.48	7.09	6.69	5.97	6.39	7.10	7.79	7.86
22	7.59	7.78	7.67	7.52	7.47	7.09	6.70	5.99	6.41	7.13	7.81	7.87
23	7.60	7.78	7.69	7.52	7.47	7.09	6.70	6.01	6.42	7.16	7.82	7.78
24	7.61	7.79	7.64	7.49	7.47	7.10	6.70	6.02	6.45	7.18	7.84	7.77
25	7.61	7.79	7.60	7.47	7.48	7.10	6.70	6.06	6.49	7.20	7.85	7.78
26	7.62	7.73	7.60	7.47	7.49	7.10	6.62	6.09	6.49	7.22	7.87	7.80
27	7.62	7.73	7.62	7.47	7.50	6.95	6.64	6.10	6.49	7.24	7.90	7.69
28	7.62	7.74	7.63	7.47	7.50	6.89	6.61	6.13	6.49	7.25	7.91	7.65
29	7.63	7.76	7.63	7.48	---	6.89	6.53	6.15	6.50	7.25	7.90	7.65
30	7.64	7.77	7.65	7.48	---	6.89	6.53	6.17	6.55	7.28	7.82	7.67
31	7.66	---	7.66	7.48	---	6.89	---	6.18	---	7.31	7.84	---
MEAN	7.56	7.73	7.73	7.58	7.49	7.19	6.65	6.26	6.30	6.98	7.67	7.78
LOW	7.66	7.79	7.81	7.74	7.53	7.50	6.74	6.54	6.55	7.31	7.91	7.93
HIGH	7.43	7.67	7.60	7.47	7.47	6.89	6.53	5.95	5.98	6.59	7.34	7.62
WTR YR 2002	INSTANTANEOUS	HIGH	5.95	MAY 19, 20	LOW	7.93	SEP 14, 15					

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412844071422802. Richmond well RIW 600.

LOCATION.--Lat 41°28'44", long 71°42'28", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft west of Hope Valley Road, and 1.5 mi northeast of Woodville.

Owner: State Department of Transportation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 54 ft, cased to 49 ft, screened 49 to 54 ft.

INSTRUMENTATION.--Continuous graphic recorder September 1977 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 100.17 ft, above National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 2.63 ft above land-surface datum.

PERIOD OF RECORD.--September 1977 to current year.

REMARKS.--Missing periods of more than one day are not estimated.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.42 ft below land-surface datum, June 11, 1982; lowest, 36.04 ft below land-surface datum, Sept. 26, 27, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.69	35.02	35.42	35.55	35.27	35.18	34.67	34.29	33.94	34.19	34.92	35.80
2	34.68	35.03	35.43	35.56	35.26	35.18	34.64	34.27	33.94	34.21	34.95	35.81
3	34.69	35.05	35.44	35.56	35.25	35.16	34.60	34.26	33.96	34.23	34.98	35.79
4	34.70	35.07	35.45	35.57	35.24	35.15	34.57	34.25	33.98	34.25	35.00	35.78
5	34.70	35.08	35.46	35.58	35.24	35.13	34.53	34.25	33.98	34.27	35.03	35.78
6	34.71	35.10	35.47	35.59	35.24	35.11	34.50	34.24	33.98	34.30	35.06	35.78
7	34.72	35.11	35.48	35.60	35.24	35.09	34.48	34.23	33.97	34.32	35.09	35.80
8	34.72	35.12	35.49	35.60	35.23	35.08	34.46	34.23	33.94	34.34	35.12	35.81
9	34.73	35.14	35.50	35.60	35.24	35.06	34.44	34.23	33.92	34.36	35.15	35.82
10	34.73	35.14	35.50	35.60	35.24	35.03	34.42	34.23	33.91	34.38	35.18	35.83
11	34.75	35.16	35.52	35.61	35.23	35.02	34.41	34.24	33.91	34.41	35.22	35.85
12	34.75	35.18	35.52	35.60	35.23	35.01	34.40	34.24	33.91	34.43	35.25	35.87
13	34.77	35.19	35.53	35.59	35.22	35.00	34.38	34.24	33.92	34.45	35.28	35.88
14	34.79	35.21	35.54	35.54	35.22	34.99	34.36	34.22	33.94	34.48	35.31	35.90
15	34.80	35.23	35.55	35.51	35.22	34.98	34.35	34.20	33.94	34.50	35.33	35.92
16	34.81	35.24	35.55	35.48	35.21	34.96	34.34	34.19	33.94	34.52	35.36	35.93
17	34.82	35.26	35.56	35.46	35.21	34.96	34.33	34.17	33.95	34.54	35.40	35.94
18	34.83	35.27	35.56	35.44	35.21	34.95	34.33	34.14	33.96	34.57	35.43	35.94
19	34.84	35.28	35.55	35.42	35.20	34.94	34.32	34.12	33.98	34.60	35.47	35.96
20	34.86	35.29	35.55	35.41	35.20	34.92	34.32	34.08	34.00	34.63	35.50	35.97
21	34.86	35.31	35.55	35.40	35.20	34.91	34.33	34.04	34.01	34.65	35.52	35.98
22	34.87	35.32	35.56	35.40	35.20	34.89	34.33	34.02	34.03	34.68	35.55	36.00
23	34.88	35.33	35.56	35.39	35.19	34.87	34.34	34.00	34.05	34.70	35.58	36.01
24	34.89	35.34	35.55	35.38	35.19	34.86	34.34	33.97	34.06	34.73	35.61	36.02
25	34.91	35.35	35.53	35.36	35.19	34.85	34.34	33.97	34.08	34.75	35.64	36.02
26	34.92	35.36	35.51	35.35	35.18	34.83	34.33	33.96	34.10	34.78	35.67	36.03
27	34.93	35.37	35.50	35.34	35.18	34.81	34.33	33.96	34.13	34.80	35.70	36.03
28	34.95	35.39	35.50	35.33	35.18	34.79	34.32	33.95	34.14	34.82	35.72	36.01
29	34.96	35.40	35.51	35.31	---	34.76	34.31	33.94	34.16	34.85	35.75	36.00
30	34.98	35.41	35.52	35.29	---	34.73	34.30	33.94	34.18	34.87	35.76	36.00
31	35.01	---	35.54	35.28	---	34.71	---	33.94	---	34.90	35.78	---
MEAN	34.81	35.23	35.51	35.47	35.22	34.96	34.40	34.13	34.00	34.53	35.36	35.91
LOW	35.01	35.41	35.56	35.61	35.27	35.18	34.67	34.29	34.18	34.90	35.78	36.03
HIGH	34.68	35.02	35.42	35.28	35.18	34.71	34.30	33.94	33.91	34.19	34.92	35.78
WTR YR 2002	INSTANTANEOUS	HIGH	33.91	JUNE 10, 11, 12	LOW	36.04	SEPT 26, 27					

412718071415201. Richmond well RIW 785.

LOCATION.--Lat 41°27'18", long 71°41'52", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft. west of Narragansett Trail, and 1.2 mi north of Wood River Junction.

Owner: Tuckahoe Turf Farms.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 40.06 ft, cased to 34.21 ft, screened from 34.21 ft to 40.06 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 85 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.65 ft above land-surface datum.

REMARKS.--Replacement well for RIW 231 which was destroyed.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.50 ft below land-surface datum, June 30, 1998 lowest measured, 26.92 ft below land-surface datum, Mar. 20, 2002.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	24.63	JAN 29	26.37	MAR 20	26.92	MAY 28	26.17	JUL 26	25.86	SEP 04	26.28
NOV 29	25.34	FEB 22	26.64	APR 24	26.48	JUN 27	25.73	AUG 20	26.09	SEP 20	26.48
DEC 27	25.97										
WATER YEAR 2002	HIGHEST	24.63	OCT 31, 2001	LOWEST	26.92	MAR 20, 2002					

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412918071321001. South Kingstown well SNW 6.

LOCATION.--Lat 41°29'18", long 71°32'10", Washington County, Hydrologic Unit 01090005, town of South Kingstown, in parking lot for Thomas Ryan Center at University of Rhode Island, and 0.9 mi northwest of Kingston.

Owner: University of Rhode Island.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 10 in, depth 34 ft, cased to 34 ft, open end.

INSTRUMENTATION.--Continuous graphic recorder July 1973 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 111.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in base of recorder shelter, 3.07 ft above land-surface datum; prior to Mar. 6, 2002, 0.04 ft above land-surface datum.

RECORD OF PERIOD.--November to December 1947, February 1955 to current year.

REMARKS.--Missing periods of more than one day are not estimated. Original well landscape significantly altered during construction of parking lot during 2002 water year. Land-surface datum changes unknown.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.91 ft below land-surface datum, Apr. 25, 26, 1983; lowest, 15.06 ft below land-surface datum, Dec. 29, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.34	13.89	14.22	---	---	---	12.85	12.31	11.70	12.11	12.88	13.63
2	13.34	13.90	14.23	---	---	---	12.79	12.29	11.70	12.13	12.90	13.64
3	13.35	13.91	14.23	---	---	---	12.71	12.26	11.74	12.14	12.93	13.51
4	13.37	13.93	14.24	---	---	---	12.67	12.25	11.78	12.17	12.95	13.43
5	13.39	13.94	14.24	---	---	---	12.62	12.24	11.79	12.19	12.97	13.43
6	13.40	13.95	14.25	---	---	---	12.59	12.22	11.81	12.21	12.98	13.46
7	13.43	13.97	14.25	---	---	13.50	12.57	12.21	11.77	12.21	13.00	13.51
8	13.46	13.98	14.26	---	---	13.49	12.54	12.21	11.71	12.21	13.03	13.55
9	13.48	13.99	14.27	---	---	13.48	12.50	12.22	11.68	12.23	13.04	13.58
10	13.51	14.00	14.27	---	---	13.48	12.48	12.22	11.69	12.26	13.07	13.56
11	13.53	14.01	14.27	---	---	13.47	12.46	12.23	11.69	12.30	13.09	13.53
12	13.56	14.03	14.27	---	---	13.46	12.43	12.24	11.70	12.34	13.11	13.57
13	13.58	14.04	14.27	---	---	13.45	12.41	12.24	11.73	12.37	13.13	13.60
14	13.60	14.05	---	---	---	13.45	12.39	12.18	11.75	12.40	13.15	13.63
15	13.63	14.07	---	---	---	13.44	12.37	12.13	11.77	12.43	13.18	13.66
16	13.65	14.08	---	---	---	13.43	12.36	12.08	11.79	12.46	13.19	13.68
17	13.67	14.09	---	---	---	13.43	12.35	12.06	11.81	12.49	13.21	13.68
18	13.68	14.11	---	---	---	13.42	12.35	12.03	11.83	12.52	13.24	13.68
19	13.70	14.12	---	---	---	13.42	12.34	11.95	11.86	12.55	13.27	13.69
20	13.71	14.13	---	---	---	13.40	12.34	11.88	11.89	12.58	13.29	13.71
21	13.73	14.15	---	---	---	13.37	12.35	11.84	11.91	12.62	13.32	13.74
22	13.75	14.15	---	---	e13.69	13.32	12.35	11.82	11.93	12.64	13.34	13.76
23	13.77	14.17	---	---	---	13.28	12.36	11.79	11.95	12.67	13.37	13.78
24	13.78	14.18	---	---	---	13.25	12.38	11.76	11.97	12.70	13.41	13.80
25	13.80	14.19	---	---	---	13.23	12.39	11.75	12.00	12.72	13.44	13.81
26	13.81	14.18	---	---	---	13.21	12.38	11.73	12.02	12.74	13.47	13.82
27	13.82	14.19	e14.01	---	---	13.13	12.38	11.73	12.02	12.75	13.50	13.81
28	13.84	14.20	---	e13.71	---	13.04	12.36	11.72	12.04	12.77	13.53	13.78
29	13.85	14.21	---	---	---	12.98	12.33	11.71	12.07	12.80	13.56	13.75
30	13.87	14.21	---	---	---	12.94	12.32	11.70	12.09	12.82	13.58	13.74
31	13.88	---	---	---	---	12.90	---	11.70	---	12.85	13.60	---
MEAN	13.62	14.07	---	---	---	---	12.46	12.02	11.84	12.46	13.22	13.65
LOW	13.88	14.21	---	---	---	---	12.85	12.31	12.09	12.85	13.60	13.82
HIGH	13.34	13.89	---	---	---	---	12.32	11.70	11.68	12.11	12.88	13.43

WTR YR 2002 INSTANTANEOUS HIGH 11.65 JUNE 9, 10 LOW 14.28 DEC 13
(includes monthly and recorded values)

e Estimated

GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412918071321001. South Kingstown well SNW 1198.

LOCATION.--Lat 41°29'35", long 71°35'35", Washington County, Hydrologic Unit 01090005, town of South Kingstown, at Laurel Lane Golf Course, 2.7 mi west of West Kingstown.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 2 in, depth 20.6 ft, cased 18.6 to 20.6 ft.

INSTRUMENTATION.--Monthly measurement with electric or chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 115 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of well casing, 1.95 ft above land-surface datum.

REMARKS.--Well is located about 1,000 ft from SNW 515 (discontinued after June 2000) and may be used as a surrogate for SNW 515. Previously unpublished data for SNW 1198 is provided in table below.

RECORD OF PERIOD.--December 1988 to July 1991, May 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.36 ft below land-surface datum, Mar. 28, 2001; lowest, 11.24 ft below land-surface datum, Oct. 22, 1997.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 01 1988	8.83	AUG 15	9.46	APR 29	6.57	DEC 23	10.60	NOV 21	10.06
JAN 10 1989	8.90	SEP 18	10.26	MAY 21	7.40	JAN 28 1999	8.36	DEC 27	8.28
FEB 27	8.61	NOV 15	9.90	JUN 24	8.85	FEB 26	7.09	JAN 29 2001	8.49
MAR 14	8.72	DEC 13	9.71	JUL 23	10.15	MAR 29	6.70	FEB 23	7.94
APR 17	6.77	FEB 19 1991	8.05	AUG 26	10.24	APR 28	7.87	MAR 28	5.36
MAY 16	6.45	MAR 19	7.43	SEP 24	10.79	MAY 24	8.07	APR 27	6.50
JUN 12	7.20	APR 17	7.34	OCT 22	11.24	JUN 30	9.29	MAY 24	7.75
JUL 11	8.39	MAY 15	7.40	NOV 26	10.09	SEP 28	10.29	JUN 21	7.07
AUG 15	8.49	JUN 17	8.73	DEC 30	9.94	OCT 26	9.35	JUL 31	9.02
SEP 14	9.52	JUL 16	9.94	JAN 28 1998	7.33	NOV 23	9.26	AUG 20	9.56
OCT 18	8.82	MAY 30 1996	7.41	FEB 23	6.36	DEC 21	9.02	DEC 26 2001	10.79
NOV 14	6.71	JUN 26	8.54	MAR 27	5.69	JAN 24 2000	8.75	JAN 29 2002	10.24
DEC 14	7.40	JUL 28	9.06	APR 28	5.93	FEB 28 2000	8.01	FEB 22	10.38
JAN 16 1990	8.10	AUG 22	9.72	MAY 28	6.51	MAR 20	6.82	MAR 20	9.96
FEB 15	6.88	SEP 26	9.59	JUN 30 1998	6.05	APR 21	7.07	APR 24	8.54
MAR 15	7.35	OCT 23	8.75	JUL 29	8.05	MAY 24	7.11	MAY 28	7.37
APR 16	7.01	DEC 26 1996	6.41	AUG 25	9.37	JUN 21	7.69	JUL 26	9.84
MAY 14	6.95	JAN 29 1997	6.80	SEP 30	10.03	JUL 28	9.31	AUG 20	10.91
JUN 12 1990	7.62	FEB 26	7.04	OCT 28	10.13	SEP 25	9.54	SEP 20	11.20
JUL 16	8.99	MAR 24	7.45	NOV 24	10.36	OCT 27	10.31		
PERIOD OF RECORD	HIGHEST	5.36	MAR 28, 2001	LOWEST	11.24	OCT 22, 1997			

412154071462901. Westerly well WEW 522.

LOCATION.--Lat 41°21'54", long 71°46'29", Washington County, Hydrologic Unit 01090005, town of Westerly, 350 ft northwest of intersection of Pound and Old Shore Roads and 1.0 mi north of Dunn Corner.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 16 ft, lined with stone to 16 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Southwest corner of stone casing, 0.91 ft above land-surface datum.

PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.23 ft below land-surface datum, Apr. 23, 1983; lowest measured, 14.99 ft below land-surface datum, Aug. 25, 1999.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	14.10	JAN 29	13.38	MAR 20	13.15	MAY 28	12.42	JUL 26	13.78	SEP 04	14.59
NOV 29	14.22	FEB 22	13.35	APR 24	12.85	JUN 27	12.79	AUG 20	14.54	SEP 20	14.53
DEC 27	13.87										
WATER YEAR	2002	HIGHEST	12.42	MAY 28, 2002	LOWEST	14.59	SEP 04, 2002				

GROUND-WATER QUALITY AT MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO OCTOBER 2002
(NATIONAL WATER QUALITY ASSESSMENT PROGRAM)

Organic pesticide compounds, analyzed by NWQL Schedule 2001, and volatile organic compounds (VOCs), analyzed by NWQL Schedule 2020, are listed with laboratory reporting levels in the section "EXPLANATION OF RECORDS." Only pesticides and VOCs identified by the analyses (either as estimated values or values measured at or above the laboratory reporting level) for one or more samples are listed in the water-quality tables. Water-quality data presented in this table were collected by the Connecticut, Housatonic, and Thames River Basins National Water-Quality Assessment Program (NAWQA).

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	
HAMPSHIRE COUNTY											
MA-A5W 153	421939072270301	8-01-02	1200	125	240	4.7	750	7.1	69	5.6	
HAMPDEN COUNTY											
MA-HUV 116	421236072405601	8-28-02	1200	105	245	.6	763	2.4	73	8.0	
MA-WVW 173	421026072420801	8-27-02	1200	141	262	.5	755	.1	2	7.2	
LOCAL IDENTIFIER	DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	201	30.0	13.0	63	18.6	4.06	1.36	11.7	9	11
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	210	25.0	13.5	98	31.1	4.95	.92	6.81	67	82
MA-WVW 173	8-27-02	318	23.0	15.0	92	33.0	2.24	.57	7.95	82	100
LOCAL IDENTIFIER	DATE	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SULFIDE WATER, FLTRD, (MG/L) (99118)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	0	<0.03	48.2	<0.10	12.6	7.8	--	<0.04	<0.10	1.00
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	0	E.02	16.5	<.10	14.2	13.8	.001	E.03	<.10	1.93
MA-WVW 173	8-27-02	0	E.03	19.7	E.07	16.3	5.1	--	.24	.25	<.05
LOCAL IDENTIFIER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	E COLI, MI MF, WATER (COL/ 100 ML) (90901)	TOTAL COLI-FORM MI MF, WATER (COL/ 100 ML) (90900)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSEN-ATE, WATER, FLTRD (UG/L) (62453)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSEN-ITE, WATER, FLTRD (UG/L) (62452)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	<0.008	0.02	<0.3	<1	<1	1	0.05	--	<0.2	--
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	<.008	.03	E.2	<1	<1	2	E.03	E.3	.4	<.3
MA-WVW 173	8-27-02	<.008	.25	1.0	<1	<1	<1	<.05	E1.0	5.7	5.0

GROUND-WATER QUALITY AT MISCELLANEOUS SITES--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO OCTOBER 2001
(NATIONAL WATER QUALITY ASSESSMENT PROGRAM)

LOCAL IDENTIFIER	DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	HYDROGEN SULFIDE TOTAL (MG/L AS H2S) (71875)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	274	<0.06	E7	0.06	<0.8	0.04	62.7	U	30	1.16
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	256	<.06	15	<.04	E.4	.05	4.1	--	<10	.39
MA-WVW 173	8-27-02	306	<.06	11	<.04	<.8	.38	.2	U	4,560	<.08
LOCAL IDENTIFIER	DATE	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	0.9	7.8	<0.2	1.10	<0.3	<1	87.1	<0.04	<0.2	10
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	2.0	.3	<.2	.18	<.3	<1	94.4	<.04	1.1	2
MA-WVW 173	8-27-02	1.3	826	.4	.43	<.3	<1	89.2	<.04	.6	12
LOCAL IDENTIFIER	DATE	DEETHYL ATRAZINE, WATER DISS. REC (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	E0.034	<0.005	<0.03	<0.03	<0.02	<0.04	<0.03	E0.01	<0.04	2.0
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	<.006	<.005	E.04	<.03	E.09	E.08	E.02	<.05	3.76	2.4
MA-WVW 173	8-27-02	<.006	.006	<.03	.35	<.02	.66	<.03	<.05	.26	1.7
LOCAL IDENTIFIER	DATE	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	RA-224 WATER FLTRD (PCI/L) (50833)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228, DIS-SOLVED (PCI/L AS RA-228) (81366)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)				
HAMPSHIRE COUNTY											
MA-A5W 153	8-01-02	3.3	-0.07	0.16	0.64	510	<0.02				
HAMPDEN COUNTY											
MA-HUV 116	8-28-02	2.4	.06	.04	.33	210	.29				
MA-WVW 173	8-27-02	2.7	.18	.11	.53	480	E.01				

< Less than

E Estimated value

U Analyzed for, not detected