

Table 4. Firm-yield estimates and 2000–2004 water usage for 38 reservoir systems in Massachusetts. Marlborough, Leominster, Wakefield, and Worcester have water-supply connections with the Massachusetts Water Resources Authority in addition to reservoirs listed here.

[Actual average annual usage refers to the period 2000–2004. Reservoirs with usage that was within 10 percent of the firm yield are considered marginally meeting their firm yield; Mgal/d, million gallons per day; DPW, Department of Public Works]

Water supplier	Reservoir system	Firm yield, no releases (Mgal/d)	Actual average annual usage (Mgal/d)	Operating at less than firm yield?
Amherst Water Department	Atkins Reservoir	1.16	0.83	Yes
Ashburnham/Winchendon	Upper Naukeag Lake	1.72	1.06	Yes
Concord Water Department	Nagog Pond	0.86	0.09	Yes
Fall River Water Department	North Watuppa system	18.20	12.89	Yes
Fitchburg Water Department	Lovell Reservoir system	2.77	0.18	Yes
Fitchburg Water Department	Meetinghouse system	5.61	2.71	Yes
Fitchburg Water Department	Wachusett Lake	1.08	0.35	Yes
Greenfield Water Department	Leyden Glen Reservoir	0.69	0.57	Yes
Hingham/Hull (Aquarian Water Company)	Accord Pond	0.66	0.59	Yes
Lee Water Department	Schoolhouse Reservoir	0.84	0.51	Yes
Leicester (Cherry Valley and Rochdale Water)	Henshaw Pond	0.35	0.26	Yes
Lincoln Water Department	Flints Pond	0.59	0.38	Yes
Marlborough DPW–Water and Sewer Division	Millham system	1.83	1.40	Yes
North Brookfield Water Department	Doane Pond system	0.71	0.42	Yes
Pittsfield Water Department	Ashley Lake	1.37	0.21	Yes
Pittsfield Water Department	Cleveland Reservoir	9.18	7.96	Yes
Pittsfield Water Department	Farnham Reservoir system	2.51	2.23	Yes
Pittsfield Water Department	Upper Sackett Reservoir	0.50	0.08	Yes
South Deerfield Water Supply District	Whately system	1.07	0.68	Yes
Southbridge Water Department	Hatchet Brook system	2.78	1.69	Yes
Springfield Water Department	Cobble Mountain system	42.70	36.57	Yes
Wakefield Water Department	Crystal Lake	0.40	0.28	Yes
West Springfield Water Department	Bearhole Reservoir	1.40	0.73	Yes
Westborough Water Department	Sandra Pond	0.80	0.67	Yes
Westfield Water Department	Granville Reservoir	3.03	2.47	Yes
Westfield Water Department	Montgomery Reservoir	1.13	0.00	Yes
Amherst Water Department	Centennial system	0.87	0.83	Marginally
Lee Water Department	Upper (Leahey) Reservoir	0.59	0.54	Marginally
Leominster DPW–Water Division	Fall Brook Reservoir	0.84	0.88	Marginally
Leominster DPW–Water Division	Simonds Pond system	2.26	2.32	Marginally
Scituate Water Department ³	Main Reservoir	0.63	0.61	Marginally
Winchester Water Department	South Reservoir system	1.01	1.10	Marginally
Danvers Water Department	Middleton Pond system	2.79	3.09	No
Greenfield Water Department	Green River	0.42	0.52	No
Hinsdale Water Department	Belmont Reservoir	0.12	0.15	No
Leominster DPW–Water Division	Distributing Reservoir system	0.58	0.87	No
Milford Water Company	Echo Lake	¹ 1.12	1.40	No
Worcester Water Department ²	Holden Pond system	17.15	23.87	No

¹ Firm yield for Echo Lake includes water from the Charles River diversion.

² Firm yield for the Worcester reservoir system is subject to additional uncertainty due to complex water routing between reservoirs.

³ Firm yield for Scituate does not include Old Oaken Bucket Pond.