

Appendix 4. Monthly 25th percentile streamflows estimated using the Sustainable Yield Estimator for reservoirs in Massachusetts 1960 - 2004

[Mgal/d, million gallons per day]		Monthly 25th percentile of streamflows from 1960 - 2004 (Mgal / d)											
Water supplier	Reservoir	January	February	March	April	May	June	July	August	September	October	November	December
Amherst Water Department	Amethyst Brook Intake	0.26	0.27	0.58	0.62	0.37	0.13	0.05	0.03	0.03	0.09	0.17	0.27
	Atkins Reservoir	0.76	0.79	1.64	1.74	1.05	0.35	0.12	0.08	0.08	0.23	0.51	0.76
	Hawley Reservoir	0.69	0.71	1.47	1.57	0.96	0.32	0.11	0.08	0.07	0.21	0.45	0.70
	Hill Reservoir	1.84	1.90	3.85	4.09	2.55	0.95	0.39	0.28	0.26	0.68	1.24	1.86
Ashburnham/Winchendon Joint Water Board	Upper Naukeag	0.54	0.54	0.90	2.07	0.80	0.23	0.10	0.06	0.04	0.11	0.32	0.58
	Nagog Pond	0.31	0.43	0.83	0.83	0.45	0.17	0.05	0.02	0.02	0.06	0.20	0.33
	Emerson Brook	1.32	1.53	3.03	3.78	1.94	0.84	0.21	0.11	0.10	0.23	0.81	1.33
	Middleton Pond	0.51	0.59	1.20	1.51	0.75	0.32	0.09	0.04	0.04	0.10	0.30	0.51
Danvers Water Department	Swan Pond	0.46	0.54	1.09	1.37	0.68	0.29	0.07	0.03	0.03	0.07	0.28	0.46
	Copicut Reservoir	4.54	5.13	7.75	6.55	4.54	1.85	0.52	0.35	0.41	0.94	2.48	4.12
	North Watuppa Reservoir	6.21	7.02	10.55	8.94	6.22	2.70	0.90	0.63	0.74	1.59	3.42	5.65
	Bickford Reservoir	1.37	1.49	2.99	3.11	1.89	0.62	0.21	0.14	0.13	0.33	0.95	1.41
Fitchburg Water Department	Fitchburg Reservoir	0.79	0.91	1.78	2.44	1.24	0.48	0.14	0.07	0.06	0.13	0.45	0.77
	Lovell Reservoir	1.33	1.54	2.96	4.07	2.07	0.82	0.21	0.11	0.10	0.20	0.77	1.30
	Mare Meadow Reservoir	1.12	1.22	2.45	2.55	1.55	0.45	0.13	0.08	0.08	0.21	0.77	1.15
	Meetinghouse Reservoir	0.53	0.57	1.18	1.23	0.73	0.23	0.07	0.05	0.04	0.12	0.36	0.54
Fitchburg Water Department	Scott Reservoir	0.30	0.35	0.69	0.95	0.48	0.18	0.05	0.02	0.02	0.05	0.17	0.29
	Wachusett Reservoir	0.57	0.62	1.27	1.32	0.79	0.32	0.14	0.09	0.08	0.22	0.39	0.59
	Green River	20.88	22.04	37.30	86.71	41.47	15.80	6.71	4.13	4.11	6.78	15.14	23.54
	Leyden Glen Reservoir	1.81	1.92	3.40	8.51	3.81	1.32	0.41	0.20	0.20	0.41	1.25	2.07
Hingham/Hull (Aquarian Water Company)	Accord Pond	0.46	0.55	0.86	0.70	0.44	0.16	0.05	0.04	0.04	0.13	0.29	0.42
	Belmont Reservoir	0.12	0.13	0.28	0.30	0.17	0.07	0.02	0.02	0.02	0.05	0.08	0.12
	Schoolhouse Reservoir	1.18	1.23	2.52	2.68	1.62	0.64	0.26	0.19	0.18	0.48	0.81	1.18
	Upper (Leahey) Reservoir	0.23	0.24	0.51	0.54	0.32	0.12	0.04	0.03	0.03	0.09	0.15	0.23
Leicester (Cherry Valley and Rochdale Water)	Henshaw Pond	0.36	0.42	0.78	0.95	0.50	0.21	0.07	0.04	0.03	0.08	0.19	0.35
	Distributing Reservoir	0.50	0.55	1.12	1.17	0.70	0.24	0.08	0.05	0.05	0.13	0.34	0.52
	Fall Brook Reservoir	0.52	0.57	1.16	1.21	0.72	0.21	0.06	0.04	0.03	0.09	0.35	0.54
	Goodfellow Pond	0.19	0.20	0.43	0.44	0.26	0.09	0.03	0.02	0.02	0.05	0.12	0.19
Leominster DPW- Water Division	Haynes Reservoir	0.13	0.15	0.31	0.33	0.19	0.06	0.02	0.01	0.01	0.03	0.09	0.14
	Morse Reservoir	0.11	0.13	0.27	0.28	0.16	0.05	0.02	0.01	0.01	0.03	0.08	0.12
	Notown Reservoir	1.80	1.95	3.88	4.04	2.47	0.83	0.29	0.19	0.18	0.45	1.24	1.85
	Simonds Pond	0.07	0.07	0.15	0.16	0.09	0.03	0.01	0.00	0.00	0.01	0.04	0.07
Lincoln Water Department	Flints Pond (Sandy Pond)	0.25	0.35	0.68	0.68	0.36	0.13	0.03	0.02	0.02	0.04	0.16	0.27
	Marlborough DPW - Water and Sewer Division	1.70	1.84	3.68	3.82	2.33	0.77	0.26	0.17	0.16	0.41	1.17	1.75
	Marlborough DPW - Water and Sewer Division	0.09	0.12	0.25	0.25	0.13	0.05	0.01	0.01	0.01	0.01	0.06	0.10
	Milford Water Company	0.60	0.80	1.30	1.08	0.70	0.20	0.05	0.03	0.04	0.13	0.38	0.55
North Brookfield Water Department	Doane Pond	0.30	0.35	0.66	0.80	0.42	0.17	0.05	0.03	0.02	0.06	0.16	0.30
	Horse Pond	0.34	0.39	0.73	0.89	0.46	0.19	0.05	0.03	0.02	0.06	0.17	0.33
	Ashley Lake	1.07	1.12	2.29	2.44	1.48	0.54	0.20	0.14	0.14	0.37	0.73	1.07
	Cleveland Reservoir	4.72	4.99	10.66	18.65	9.22	3.72	1.95	1.35	1.19	2.36	5.30	7.09
Pittsfield Water Department	Pittsfield Water Department	1.14	1.19	2.44	2.60	1.57	0.63	0.26	0.19	0.18	0.48	0.78	1.14

Appendix 4. Monthly 25th percentile streamflows estimated using the Sustainable Yield Estimator for reservoirs in Massachusetts, 1960 - 2004

		Monthly 25th percentile of streamflows from 1960 - 2004 (Mgal / d)												
[Mgal/d, million gallons per day]		Reservoir	January	February	March	April	May	June	July	August	September	October	November	December
Pittsfield Water Department		Sandwash Reservoir	0.66	0.69	1.43	1.53	0.92	0.36	0.14	0.10	0.10	0.26	0.45	0.66
		Upper Sackett Reservoir	0.31	0.33	0.69	0.73	0.43	0.16	0.06	0.04	0.04	0.12	0.21	0.31
		Main Reservoir	2.17	2.66	4.14	3.22	1.89	0.68	0.22	0.19	0.19	0.43	1.33	1.94
South Deerfield Water Supply District			1.38	1.64	2.76	5.91	2.82	1.00	0.35	0.19	0.19	0.43	1.03	1.47
South Deerfield Water Supply District			0.39	0.46	0.79	1.77	0.81	0.27	0.07	0.04	0.04	0.09	0.28	0.41
Southbridge Water Department		Cohasse Reservoir	0.88	1.11	2.01	1.75	1.09	0.33	0.11	0.07	0.07	0.22	0.54	0.81
Southbridge Water Department		Hatchet Brook Reservoir No. 3	0.27	0.35	0.64	0.56	0.34	0.10	0.03	0.04	0.02	0.07	0.16	0.25
Southbridge Water Department		Hatchet Brook Reservoir No. 4	0.28	0.36	0.66	0.57	0.35	0.10	0.03	0.02	0.02	0.06	0.17	0.26
Southbridge Water Department		Hatchet Brook Reservoir No. 5	0.45	0.56	1.04	0.90	0.55	0.17	0.06	0.03	0.04	0.12	0.27	0.41
Southbridge Water Department		Hatchet Pond	0.08	0.10	0.18	0.16	0.09	0.03	0.01	0.00	0.01	0.02	0.04	0.07
Springfield Water Department		Borden Brook Reservoir	3.61	3.59	6.90	8.48	4.33	1.60	0.69	0.47	0.55	1.41	3.49	4.30
Springfield Water Department		Cobble Mt. Reservoir	18.50	18.31	35.21	41.21	22.90	8.27	4.12	2.94	3.17	5.97	16.41	20.69
Wakefield Water Department		Crystal Lake	0.31	0.43	0.84	0.84	0.45	0.17	0.05	0.03	0.03	0.06	0.20	0.34
West Springfield Water Department			2.21	2.69	5.18	6.43	3.59	1.40	0.58	0.34	0.35	0.70	1.38	2.29
Westborough Water Department		Sandra Pond	0.59	0.80	1.29	1.08	0.70	0.25	0.08	0.05	0.06	0.20	0.37	0.55
Westfield Water Department		Granville Reservoir	2.80	2.77	5.56	6.60	3.51	1.13	0.48	0.30	0.34	0.77	2.46	3.15
Westfield Water Department		Montgomery Reservoir	1.03	1.12	2.03	3.45	1.75	0.59	0.24	0.14	0.14	0.34	0.80	1.19
Winchester Water Department		Middle Reservoir	0.08	0.11	0.22	0.22	0.12	0.04	0.01	0.00	0.00	0.01	0.05	0.09
Winchester Water Department		North Reservoir	0.22	0.30	0.60	0.60	0.32	0.12	0.03	0.02	0.02	0.04	0.14	0.24
Winchester Water Department		South Reservoir	0.13	0.18	0.36	0.36	0.19	0.07	0.01	0.01	0.01	0.02	0.08	0.14
Worcester Water Department		Holden Reservoir No. 1	2.15	2.46	4.45	5.33	2.92	1.27	0.46	0.27	0.22	0.53	1.18	2.10
Worcester Water Department		Holden Reservoir No. 2	0.27	0.31	0.59	0.72	0.38	0.15	0.06	0.03	0.02	0.07	0.15	0.27
Worcester Water Department		Kendall Reservoir	0.75	0.82	1.67	1.74	1.04	0.34	0.11	0.07	0.07	0.18	0.51	0.78
Worcester Water Department		Kettle Brook Reservoir No. 1	0.47	0.54	1.00	1.22	0.64	0.27	0.08	0.04	0.03	0.09	0.24	0.46
Worcester Water Department		Kettle Brook Reservoir No. 2	0.18	0.20	0.39	0.48	0.24	0.10	0.03	0.02	0.01	0.04	0.09	0.17
Worcester Water Department		Kettle Brook Reservoir No. 3	0.28	0.32	0.61	0.74	0.39	0.16	0.05	0.02	0.02	0.06	0.15	0.27
Worcester Water Department		Kettle Brook Reservoir No. 4	0.79	0.90	1.66	2.01	1.07	0.45	0.13	0.07	0.06	0.15	0.41	0.77
Worcester Water Department		Lynde Brook Reservoir	1.34	1.53	2.79	3.37	1.82	0.78	0.23	0.13	0.11	0.27	0.71	1.31
Worcester Water Department		Pine Hill Reservoir	2.74	2.97	5.86	6.09	3.75	1.28	0.46	0.31	0.29	0.70	1.91	2.82
Worcester Water Department		Quinapoxet Reservoir	9.78	10.57	20.23	20.98	13.23	5.00	2.16	1.59	1.51	3.11	6.94	10.05