

Comparison of water quality measurements for Mystic Lake in mid-August (or closest sampling date) during 1980-2009

Depth (m)	Temperature (°C)														
	8/27/1980	8/21/2001	9/5/2002	9/9/2003	8/26/2004	8/11/2005	8/16/2006	8/21/2007	8/19/2008	8/17/2009	8/20/2009	8/21/2009	8/24/2009	8/26/2009	8/28/2009
0.5	23.3	25.4	21.7	22.0	23.0	25.8			27.5	26.4	28.4	27.0	26.8	26.5	26.0
1	23.3	25.4	21.8	22.1	23.0	25.9	23.7	23.0	25.7	26.0	27.9	27.0	26.8	26.5	26.1
2		25.3	21.7	22.1	23.0	25.9	23.8	23.0	25.3	25.4	27.5	26.7	26.8	26.5	26.1
3	22.8	25.2	21.7	22.1	23.0	25.9	23.8	23.0	25.0	25.0	26.4	26.1	26.8	26.5	26.1
4		25.2	21.7	22.0	23.0	25.9	23.8	23.1	24.9	24.5	25.3	24.9	25.9	25.5	25.9
4.5													24.0	24.7	24.9
5	22.5	25.0	21.7	22.0	22.9	24.7	23.8	23.1	24.6	23.9	24.1	23.8	23.0	24.1	23.9
5.5											23.3	23.1	22.4	23.6	23.1
6	22.2	23.4	21.7	22.0	22.8	19.6	23.6	23.0	24.4	23.9	22.4	21.9	20.6	22.7	21.8
6.5											20.9	21.0		21.3	21.5
7		20.4	21.7	22.0	22.7	16.1	21.0	22.3	21.9	22.1		19.8	20.3	20.2	19.4
8	21.7	18.0	21.7	18.9	20.8	14.3	17.1	20.0	18.6	19.9			19.1		17.5
9	19.4	14.8	19.8	15.4	15.6	13.2	15.4	19.0	15.9	17.9			17.5		16.1
10		12.2	15.4	13.8	13.8	12.5		18.3	14.1	16.2			15.9		
11	14.4	10.9	13.7	13.1	12.6	12.1		18.1	13.1	14.7			14.1		
12	14.2	10.5	12.7	12.3	11.4				12.4	12.9			11.9		
13		10.2	12.5	11.6	10.8				11.9	11.7			11.9		
14		10.1	12.5							11.0					
				11.6	10.5										
Depth (m)	Dissolved oxygen (mg/l)														
	8/27/1980	8/21/2001	9/5/2002	9/9/2003	8/26/2004	8/11/2005	8/16/2006	8/21/2007	8/19/2008	8/17/2009	8/20/2009	8/21/2009	8/24/2009	8/26/2009	8/28/2009
0.5	8.80	8.95	7.28	8.25	7.30	9.04			8.12	10.41	10.30	10.44	9.32	9.74	9.71
1	8.80	8.91	7.40	8.22	7.45	9.04	7.58	8.64	8.26	11.30	10.75	11.07	9.32	9.72	9.61
2		8.80	7.39	8.08	7.30	9.02	7.43	8.64	8.33	11.60	10.65	11.81	9.20	9.28	9.28
3	8.80	8.70	7.38	8.16	7.10	8.96	7.40	8.60	8.33	11.60	12.75	12.49	8.96	8.83	9.08
4		8.22	7.39	8.01	7.10	8.85	7.44	8.40	8.34	10.10	10.94	10.35	8.36	7.39	7.59
4.5													4.30	6.00	4.91
5	8.50	8.28	7.39	7.99	6.60	8.04	7.48	8.07	8.20	8.00	5.14	5.15	0.15	3.08	1.50
5.5											3.40	1.50	0.13	0.11	0.43
6	8.40	6.99	7.38	8.09	6.66	7.20	7.06	7.91	8.28	8.06	0.08	0.12	0.12	0.08	0.39
6.5											0.06	0.10		0.08	0.37
7		5.00	7.33	7.78	6.45	4.90	4.08	4.96	8.80	1.50		0.09	0.12	0.08	0.35
8	8.00	3.00	6.84	0.71	2.85	0.72	0.74	0.17	8.69	0.11			0.11		0.34
9	5.30	0.55	1.02	0.31	4.10	0.08	0.36	0.04	0.20	0.09			0.10		0.33
10		0.32	0.17	0.23	0.35	0.07		0.04	0.10	0.08			0.10		
11	0.50	0.22	0.21	0.20	0.24	0.07		0.04	0.05	0.08			0.11		
12	0.40	0.20	0.26	0.18	0.20				0.05	0.08			0.11		
13		0.20	0.30	0.02	0.20				0.05	0.07			0.11		
14		0.19	0.16							0.07					
				0.15	0.20										
Secchi depth (m)	5.5	3.0	3.6	3.4	3.8	1.8	3.6	2.9	4.9	1.2	1.3	1.1	0.9	0.9	0.7

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Depth (m)	8/31/2009	9/2/2009	9/5/2009	9/7/2009	9/9/2009
0.5	23.7	22.7	23.1	21.9	21.8
1	23.7	22.8	22.9	22.0	22.1
2	23.7	22.8	22.7	22.0	22.2
3	23.7	22.8	22.7	22.0	22.2
4	23.6	22.8	22.5	22.1	22.3
4.5	23.6	22.8	22.4	22.1	22.3
5	23.6	22.8	22.3	22.1	22.3
5.5	23.6	22.7	22.3	22.0	22.3
6	21.8	22.4	21.9	21.9	22.1
6.5	20.9	21.1	21.3	21.3	22.0
7	19.7	19.9	19.9	19.3	19.9
8	18.4	18.0	18.7	19.9	18.3
9	16.5	16.7	16.8	15.8	16.7
10	15.1		15.5		
11					
12					
13					
14					
0.5	9.35	9.14	8.86	8.61	11.14
1	9.32	8.92	8.81	8.61	10.88
2	8.87	8.45	8.37	8.16	10.54
3	8.57	8.38	7.60	8.06	10.33
4	8.41	8.13	6.78	8.06	10.10
4.5	8.42	7.75	6.24	8.08	10.10
5	8.39	8.13	5.90	8.17	10.10
5.5	8.39	7.11	5.70	7.56	9.35
6	0.44	3.21	4.05	5.84	9.22
6.5	0.39	0.33	0.27	1.65	7.20
7	0.36	0.29	0.24	0.17	0.27
8	0.33	0.27	0.22	0.15	0.23
9	0.32	0.26	0.21	0.14	0.22
10	0.30		0.20		
11					
12					
13					
14					
Secchi depth (m)	0.9	0.8	1.1	1.2	0.9