

Supplemental Table S1. Statistical summaries of seasonal epilimnetic temperature metrics (°C) for the 12 study lakes from the early 1980s through 2017.

	1-May	1-Jun	1-Jul	1-Aug	1-Sep	1-Oct	1-Nov	July-Aug (mean)	Maximum Recorded
Mendota (1980-2017)									
Maximum	11.7	21.7	25.7	27.7	24.4	19.8	14.5	25.9	27.9
75% Quartile	10.1	18.0	23.4	25.2	23.7	18.2	12.3	24.5	26.2
Median	9.0	16.7	22.6	24.1	23.0	17.0	11.3	24.1	25.5
25% Quartile	7.9	15.3	21.9	23.7	21.4	16.4	10.6	23.3	24.9
Minimum	6.6	12.6	19.6	21.6	19.9	14.9	8.9	21.5	23.0
Mean	9.0	16.7	22.6	24.5	22.6	17.3	11.3	23.9	25.5
Std. Deviation	1.4	2.0	1.4	1.3	1.3	1.4	1.3	1.1	1.2
Monona (1980-2017)									
Maximum	13.7	22.9	26.6	27.6	25.1	20.2	14.3	26.2	28.5
75% Quartile	11.9	19.4	24.0	25.9	23.9	18.4	12.0	25.2	26.7
Median	10.8	18.2	23.1	24.7	23.4	17.3	10.8	24.6	25.9
25% Quartile	9.5	16.7	22.3	24.0	21.9	16.4	10.1	23.6	24.9
Minimum	8.1	13.8	20.9	22.2	20.2	15.3	8.6	22.0	22.6
Mean	10.8	18.1	23.3	24.9	23.0	17.5	11.0	24.4	25.9
Std. Deviation	1.5	2.0	1.4	1.4	1.3	1.3	1.4	1.1	1.3
Devil's (1986-2017)									
Maximum	13.6	20.5	26.4	27.1	25.0	19.7	13.3	25.5	27.3
75% Quartile	11.9	19.4	24.2	26.1	23.6	18.2	11.9	25.0	26.5
Median	10.8	18.0	23.5	24.7	22.9	17.5	10.7	24.1	25.3
25% Quartile	9.1	16.8	22.3	23.4	21.8	15.8	9.5	23.4	24.7
Minimum	7.6	13.6	19.3	21.8	19.8	14.4	8.0	21.2	21.9
Mean	10.6	17.8	23.3	24.7	22.7	17.1	10.7	24.0	25.4
Std. Deviation	1.7	1.9	1.6	1.5	1.4	1.4	1.4	1.1	1.2
Trout (1981-2017)									
Maximum	10.0	17.8	23.3	24.4	21.9	16.9	10.6	23.4	25.6
75% Quartile	6.7	15.6	21.3	23.1	20.9	15.8	9.3	22.3	23.8
Median	5.2	14.1	20.1	22.2	19.9	14.6	8.3	21.5	23.3
25% Quartile	3.5	12.3	19.2	21.0	18.8	13.8	7.6	20.7	22.1
Minimum	1.1	9.8	16.0	18.9	17.4	11.6	5.7	18.8	20.2
Mean	5.0	14.1	20.1	22.2	19.9	14.6	8.5	21.4	23.0
Std. Deviation	2.3	2.0	1.6	1.4	1.3	1.4	1.2	1.1	1.3
Sparkling (1981-2017)									
Maximum	12.4	18.9	23.3	24.7	23.2	18.0	11.4	23.9	25.6
75% Quartile	9.3	16.7	22.1	24.0	21.6	16.4	9.7	22.9	24.4
Median	7.1	15.7	21.4	22.7	20.7	15.3	8.8	21.9	23.7
25% Quartile	5.0	14.3	20.1	21.5	19.4	14.3	7.9	21.3	22.6
Minimum	2.2	12.1	17.3	19.8	18.8	12.5	6.7	19.7	21.4
Mean	6.9	15.7	21.1	22.7	20.6	15.2	8.9	22.1	23.5
Std. Deviation	2.9	1.7	1.4	1.4	1.3	1.3	1.2	1.1	1.2
Allequash (1981-2017)									
Maximum	14.6	21.5	25.6	26.4	23.2	17.5	9.6	24.6	27.5
75% Quartile	11.3	18.2	23.2	24.2	21.4	15.1	7.8	23.2	25.0
Median	8.3	17.4	21.8	23.1	20.6	14.5	6.5	22.3	24.3
25% Quartile	6.5	16.2	20.8	22.1	19.1	13.1	5.8	21.6	23.1
Minimum	1.7	13.3	17.3	20.1	17.8	9.5	3.2	19.8	20.9
Mean	8.5	17.5	21.8	23.1	20.4	14.1	6.7	22.3	24.1
Std. Deviation	3.3	1.9	1.7	1.5	1.5	1.8	1.6	1.2	1.4

Supplemental Table S1 (cont.)

	1-May	1-Jun	1-Jul	1-Aug	1-Sep	1-Oct	1-Nov	July-Aug (mean)	Maximum Recorded
Trout Bog (1981-2017)									
Maximum	15.0	20.3	25.4	25.6	24.6	17.5	8.7	24.1	27.1
75% Quartile	11.7	18.9	22.5	23.8	20.5	13.9	7.2	22.9	25.4
Median	9.2	17.9	21.8	23.1	19.6	12.7	6.1	21.9	24.2
25% Quartile	6.6	16.6	20.7	21.4	18.3	12.1	5.4	20.9	23.2
Minimum	1.6	13.0	17.4	19.5	15.8	9.5	2.1	18.3	21.7
Mean	8.9	17.6	21.4	22.7	19.6	13.1	6.1	21.8	24.2
Std. Deviation	3.5	1.8	1.8	1.7	2.0	1.8	1.3	1.4	1.3
Stechlinsee (1980-2017)									
Maximum	13.8	18.6	22.1	25.8	22.2	17.2	13.1	22.4	25.8
75% Quartile	10.9	17.3	20.3	22.2	19.8	15.8	11.1	21.0	22.8
Median	10.2	15.8	19.2	21.0	19.1	15.1	10.3	20.2	21.9
25% Quartile	8.8	14.7	17.8	19.8	18.7	14.4	9.7	19.2	20.6
Minimum	7.3	12.7	14.6	17.5	16.5	13.2	8.4	17.0	18.3
Mean	10.1	15.9	19.0	21.0	19.1	15.1	10.4	20.1	21.8
Std. Deviation	1.6	1.6	1.7	2.0	1.3	1.1	1.3	1.4	1.8
Feldberger Haussee (1985-2017)									
Maximum	15.2	19.5	22.6	25.9	22.4	16.8	11.7	22.9	26.1
75% Quartile	13.3	18.0	20.6	22.4	19.4	15.5	10.4	21.5	22.9
Median	12.1	17.0	19.5	21.0	18.6	14.7	9.8	20.4	22.0
25% Quartile	10.7	15.9	18.6	19.6	17.9	14.1	9.2	19.6	21.5
Minimum	8.3	13.3	16.7	17.9	16.2	13.1	7.0	17.8	18.9
Mean	12.0	16.8	19.6	21.0	18.7	14.8	9.7	20.5	22.1
Std. Deviation	1.6	1.6	1.5	1.9	1.3	1.0	1.2	1.3	1.5
Pyhäjärvi (1982-2017)									
Maximum	11.7	17.3	21.1	23.0	20.4	13.4	8.3	20.9	23.2
75% Quartile	7.5	14.2	18.6	20.5	17.3	12.2	6.2	19.3	21.7
Median	5.8	12.9	17.2	19.7	16.4	11.5	5.8	18.5	20.7
25% Quartile	1.2	12.4	16.5	18.7	15.6	10.4	3.4	18.0	19.7
Minimum	0.5	7.5	14.6	17.0	13.8	8.5	1.1	16.1	17.2
Mean	5.1	13.1	17.6	19.7	16.6	11.3	4.9	18.7	20.6
Std. Deviation	3.3	2.1	1.7	1.5	1.6	1.2	2.0	1.1	1.4
Konnevesi (1984-2017)									
Maximum	-	17.2	21.3	22.5	19.2	13.8	7.6	20.8	25.3
75% Quartile	-	11.8	18.3	20.2	16.5	11.2	5.8	18.9	21.3
Median	-	10.5	16.5	19.1	15.5	10.6	5.6	17.9	20.3
25% Quartile	-	9.3	15.1	17.8	14.6	9.6	4.5	17.2	19.3
Minimum	-	7.9	13.3	16.6	12.1	6.9	2.5	15.1	16.8
Mean	-	10.6	16.6	19.1	15.6	10.6	5.3	17.9	20.3
Std. Deviation	-	2.0	2.1	1.7	1.8	1.3	1.1	1.4	1.9
Kevojärvi (1980-2017)									
Maximum	-	12.1	18.0	18.8	13.5	8.4	-	16.0	19.7
75% Quartile	-	6.1	14.2	16.0	12.0	6.8	-	14.4	17.8
Median	-	4.3	12.7	14.7	10.9	6.0	-	13.7	17.1
25% Quartile	-	1.1	11.3	13.5	10.2	5.2	-	12.9	16.1
Minimum	-	1.1	8.3	12.4	8.6	3.4	-	11.2	13.9
Mean	-	4.5	12.7	14.9	11.1	6.0	-	13.7	17.1
Std. Deviation	-	3.3	2.3	1.8	1.3	1.2	-	1.1	1.4