

Table S1. Common loon sample sizes and general characteristics of Minnesota lakes included in the study.

Lake	County	Number of loons sampled		Lake area (km ²)	Max depth (m)	Secchi depth (m)	pH	Trophic State Index ¹
		adults	juveniles					
Anna	Otter Tail	1	0	234.1	16.8	4.0	NA	42
Arrowhead	St. Louis	1	1	38.6	8.5	4.2	7.2	41
Baby	Cass	2	1	295.0	21.0	4.2	7.9	41
Big Birch	Todd	5	4	287.5	24.7	3.0	8.6	52
Blackbird	Becker	2	0	67.0	1.8	2.2	8.4	51
Burntside	St. Louis	4	2	2,912.2	48.8	5.9	7.0	36
Clearwater	Crow Wing	5	6	359.6	16.2	3.8	8.7	43
Crow River	Kandiyohi	3	0	329.0	2.4	1.8	8.0	53
Eagles Nest 3	St. Louis	2	2	415.9	14.9	4.7	7.2	40
East Fox	Crow Wing	2	0	90.4	19.8	5.1	8.0	40
East Rabbit	Crow Wing	1	2	247.9	102.7	5.0	8.3	38
East Vermilion	St. Louis	6	2	10,369.1	17.4	2.8	7.0	48
George	Anoka	4	4	194.4	9.8	2.8	8.5	51
Little Birch	Todd	4	3	335.4	27.1	3.0	8.0	44
Long	Kandiyohi	1	2	126.6	13.7	4.0	7.6	45
Loon Marsh	Becker	1	0	11.7	1.5	1.2	8.4	58
Mantrap	Hubbard	9	8	163.1	20.7	4.1	8.4	40
McKeown	Cass	2	0	66.2	11.3	5.4	7.9	40
Monongalia	Kandiyohi	1	1	560.2	2.4	0.9	7.8	60
North Tamarac	Becker	2	2	580.1	5.2	2.2	8.7	54
Pleasant	Otter Tail	2	0	150.8	11.6	2.1	8.9	48
Point	Kandiyohi	1	1	69.8	9.8	3.4	8.7	48
Sagatagan	Stearns	1	1	78.4	12.2	5.0	8.5	38
Shagawa	St. Louis	0	1	937.4	14.6	3.7	7.0	46
South Tamarac	Becker	0	1	222.8	4.9	2.0	8.8	47
South Turtle	Otter Tail	4	1	338.6	10.7	5.7	NA	41
Stump	Stearns	1	2	NA	NA	NA	NA	NA
West Fox	Crow Wing	3	2	181.2	16.8	4.5	8.6	42
West Rabbit	Crow Wing	1	0	209.2	15.2	5.1	8.2	43
Wild Rice	St. Louis	3	1	932.6	3.1	1.2	7.6	55

¹ Trophic State Index values for lakes were calculated using the Carlson Index (Carlson 1977).

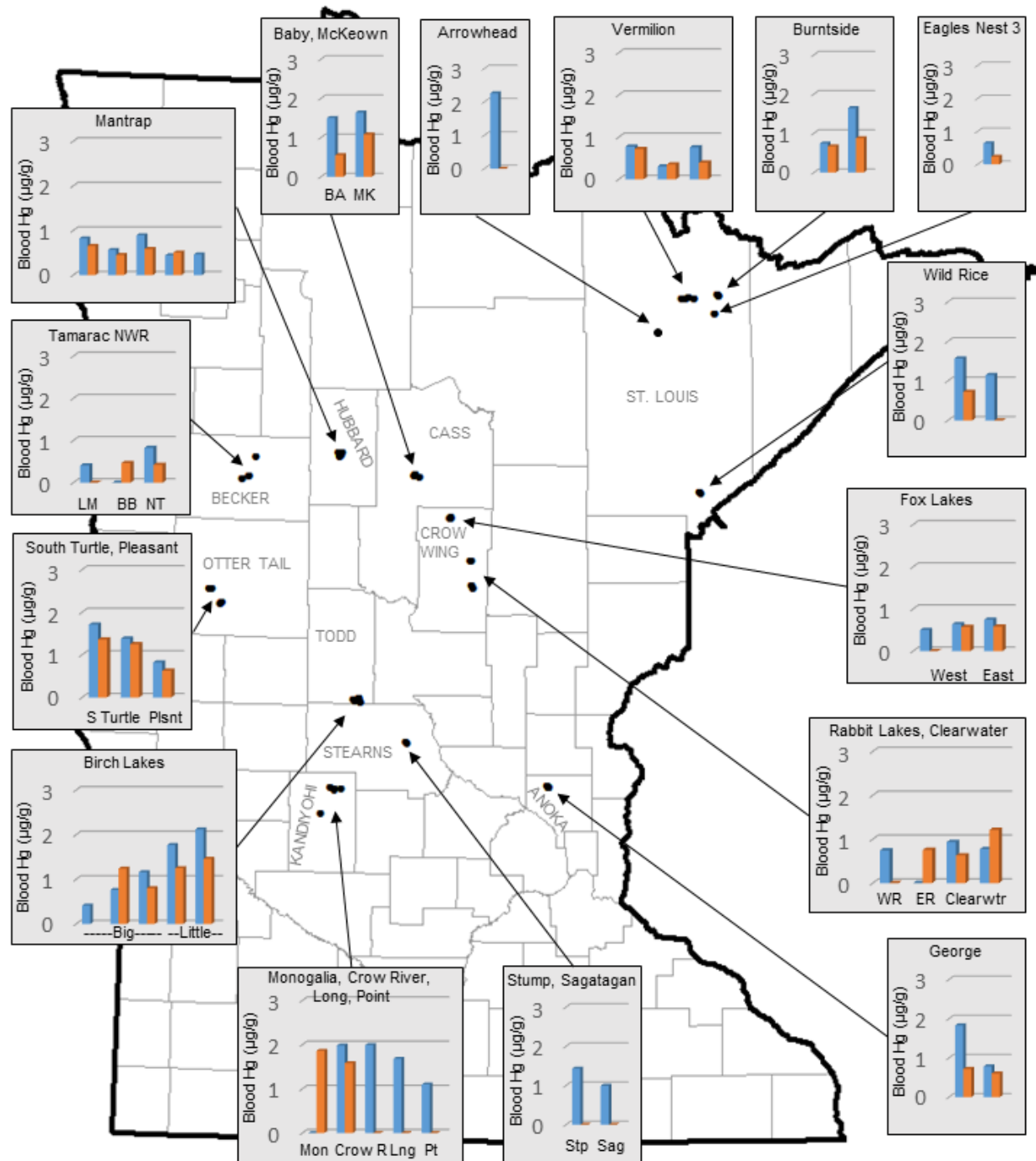


Figure S1. Spatial distribution of adult common loon blood mercury (Hg) concentrations ($\mu\text{g/g}$ wet weight) across Minnesota lakes included in this study. Paired bars represent males (blue) and females (orange) among loon territories. Individual lakes identified on x-axis are BA = Baby, MK = McKeown, West = West Fox, East = East Fox, WR = West Rabbit, ER = East Rabbit, Clearwtr = Clearwater, Stp = Stump, Sag = Sagatagan, Mon = Monongalia, Crow R = Crow River, Lng = Long, Pt = Point, Big = Big Birch, Little = Little Birch, S Turtle = South Turtle, Plsnt = Pleasant, LM = Loon Marsh, BB = Blackbird, NT = North Tamarac. Blood Hg tended to be highest (i.e., adult male blood Hg concentration $\geq 1.5 \mu\text{g/g}$) among loons from breeding territories in Arrowhead Lake (St. Louis County), Long Lake and the Lake Monongalia – Crow River system (Kandiyohi County), Little Birch Lake (Todd County), and Baby Lake and McKeown Lake (Cass County). Blood Hg concentrations were relatively low (i.e., adult male $< 1.0 \mu\text{g/g}$) among loons sampled from territories on lakes in Crow Wing, Becker, and Hubbard counties.