

Boat Density Study (July 10-11, 2008)

Piers	Ski Boats	Pontoon	Jet Ski	Fishing/w motor	Fishing/nomotor	Paddleboat	canoes/Kayak	Raft	Lake Area	% boats
36	30	44	35	5	8	5	12	5	Rainbow Park	10.39%
59	38	45	24	9	17	10	13	17	Gilmore/Gregory Beach	11.66%
34	16	24	7	5	2	7	10	11	Maple Island	5.31%
88	49	60	32	9	24	40	14	26	Southwest Bay	17.04%
78	36	60	38	9	13	25	4	19	Southshore	13.83%
79	50	67	46	11	13	20	14	16	Northshore	16.52%
105	73	76	65	15	16	32	14	34	Northwestshore	21.75%
17	8	10	5	4	2	9	9	6	Islands	3.51%
496	300	386	252	67	95	148	90	134	Total	100.00%

Boats per acre 2.687
 Boats per pier 2.698
 % skiboats 22.42%
 % pontoon 28.85%
 % jet ski 18.83%
 % paddleboat 11.06%
 % fishing boats 12.11%
 % other* 6.73%

Prepared by Howard and Charlotte Poole and Michelle Varnau
 Boat survey taken on July 10-11, 2008

100.00%

Size of Magician Lake = 498 acres

*includes canoes, kayaks, and non-motor sailboats

Total Boats 1338
 Power Boats** 1005 75.11%
 Non-Power 333 24.89%

** includes ski boats, pontoon boats, jet ski boats, and powered fishing boats

Piers/acre 0.996
 Piers/shoreline mile 49.6

Magician Lake Boat Density

Boat Density = peak weekend power boat use (10% of available power boats or 100.5 boats) divided by
 usable water acreage (estimated at 80% of total acres or 398 acres) = 3.964 acres per boat

Recommended boat density is 20 acres per power boat (Wis., Minn., and Ind. studies)

Recommended power boats at any one time for Magician Lake is (398 acres divided by 20 acres) = 20 power boats
 (July 4th Day weekend observations estimated that 40-50 powerboats were on the lake at peak usage time (mid-afternoons))

Subareas of lake

Rainbow Park - East end of lake between Polk Properties and Gilmore Beach includes Rainbow Park Subdivision
 Gilmore/Gregory Beach - East end of lake in Turtle Bay includes both subdivisions
 Maple Island - West end of lake includes all cottages on Island beyond bridge to island.
 Southwest Bay - Includes cottages from Maple Island bridge around bay (Curren's Subdivision) and cottages around Midway Marine area
 including two canals in far southwest part of bay, stops at Log House on west end of lake
 Southshore - begins at Maple Island bridge and goes east (Curren's Beach area) and includes Polk Properties including canal

Northwestshore - begins at Log House and includes Jones Subdivision and northwest shore to Public Access Point

Islands - Includes all cottages on Hemlock and Rattlesnake Islands