

Table 7: Summary of Published Optimum Boating Densities

Source	Boating Uses	Suggested Density
Ashton (1971) ²⁷	All uses combined in Cass Lake	5 to 9 acres/boat
	All uses combined in Orchard Lake	4 to 9 acres/boat
	All uses combined in Union Lake	6 to 11 acres/boat
Kusler (1972) ²⁸	Waterskiing combined with all other uses	40 acres/boat
	Waterskiing only	20 acres/boat
	Coordinated waterskiing	15 acres/boat
Jaakson <i>et al.</i> (1989) ²⁹	Waterskiing and motorboat cruising	20 acres/boat
	Fishing	10 acres/boat
	Canoeing, kayaking, sailing	8 acres/boat
	All uses combined	10 acres/boat
Wagner (1991) ³⁰	All boating activities	25 acres/boat
Warbach <i>et al.</i> (1994) ³¹	All motorized (>5 HP) uses	30 acres/boat

Source: Progressive Architecture Engineering, 2001³²

²⁷ Ashton, P.G. 1971. Recreational boating carrying capacity: A preliminary study of three heavily used lakes in southeastern Michigan. Doctoral Thesis, Department of Resource Development, Michigan State University.

²⁸ See Footnote #14 (pg. 7).

²⁹ See Footnote #17 (pg. 9).

³⁰ See Footnote #6 (pg. 4).

³¹ Warbach, J.D., M.A. Wyckoff, G.E. Fisher, P. Johnson and G. Gruenwald. 1994. Regulating keyhole development: Carrying capacity analysis and ordinances providing lake access regulations. Planning and Zoning Center, Inc.

³² See Footnote #24 (pg. 12).