



ICE LAKE

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WATER ON THE WEB

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Ice Lake

<div>LAKE SUMMARY</div> <div>ALSO KNOWN AS CRYSTAL LAKE</div> <div>ICE LAKE</div> <div>Itasca County Grand Rapids Minnesota</div> <div>ID 31-0372</div>		
<div>MORPHOMETRY</div> <p>Elevation = ~390 km (1279' MSL)</p> <p>A_o = 16.6 ha (41 acres)</p> <p>A_w = 85.4 ha (211 acres)</p> <p>Z_{max} = 16.1 m</p> <p>Z_{mean} = 7.0 m</p> <p>V = 1.16×10^6 m³</p> <p>$A_w:A_o$ = 5.1 : 1</p> <p>Shoreline = 1.6 km</p> <p>Littoral area = 32%</p> <p>HRT = 2.6 ± 0.9 yrs (30 year record)</p>	<div>WATERSHED</div> <p>11% Urban (6 storm sewers)</p> <p>35% Wetland/Water</p> <p>54% Forest</p> <p><1% Grassland/Shrubs</p> <p><1% Other</p>	<div>WATER QUALITY</div> <p>Summer Epilimnion May through September (1998 means, \pmsd, range)</p> <p>Secchi = 3.4 ± 0.8 m (2.2 - 4.3 m)</p> <p>Chlorophyll <i>a</i> = 1.4 ± 0.6 ppb (<1 - 4.7)</p> <p>TP = 9 ± 1 ppb (7 - 10 ppb)</p> <p>NO₃-N = 5 ± 6 ppb (<5 - 14 ppb)</p> <p>NH₄-N = 8 ± 6 ppb (<5 - 11 ppb)</p> <p>TN = 432 ± 44 ppb (387 - 502 ppb)</p> <p>Alkalinity = 45 (low, but not acid sensitive)</p> <p>pH = 6.5 - 8.3</p> <p>EC = 114 μS/cm</p>
	<div>SHORELINE CABINS</div> <p>28 perennial (17 1st tier, 11 2nd tier)</p> <p>0 summer all on city sewer</p>	<p>Summer Hypolimnion May through September (1998 means, \pmsd, range)</p> <p>TP = 35 ± 13 ppb (21 - 50 ppb)</p> <p>NO₃-N = 40 ± 35 ppb (<lod - 14 ppb)</p> <p>NH₄-N = 217 ± 96 ppb (78 - 296 ppb)</p> <p>TN = 760 ± 124 ppb (587 - 881 ppb)</p>
<div>MISCELLANEOUS</div>	<div>FISHERY</div>	<div>TROPHIC STATUS (Carlson TSI)</div>

Stratified in summer; limited spring mixing in 1998 and 1999 Ice Out dates: April 11, 1998 April 9, 1999	1983 Bluegill Sunfish Bullhead Northern Pike	42 (mesotrophic)
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<http://www.waterontheweb.org/data/icelake/context/summary.html>
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