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Independence Lake

LAKE SUMMARY

LAKE INDEPENDENCE
 Hennepin County Maple Plain Minnesota

ID 27-0176

MORPHOMETRY Elevation = ~291 km (954' MSL) $A_o = 344$ ha (850 acres) $A_w = 1946$ ha (4807 acres) $Z_{max} = 17.7$ m $Z_{mean} = 5.5$ m $V = 18.9 \times 10^6$ m³ $A_w:A_o = 5.6 : 1$ Shoreline = 11.4 km Littoral area = ~50%	WATERSHED 5% Urban 17% Wetland/Water 6% Parkland (Hennepin County Baker Park) 72% Agricultural	WATER QUALITY Summer Epilimnion June and August only (1998 means, \pm sd, range) Secchi = 1.1 ± 0.1 m (2.2 - 4.3 m) Chlorophyll <i>a</i> = 17 ppb (1 datum) TP = 44 ± 2 ppb (42 - 45 ppb) NO ₃ -N = 15 ppb (1 datum) NH ₄ -N = 30 ± 5 ppb (26 - 33 ppb) TN = 1134 ± 9 ppb (1121 - 1148 ppb) Alkalinity = 123 (moderate) pH = 8.4 - 8.5 EC = 348 μS/cm Summer Hypolimnion June and August only (1998 means, \pm sd, range) TP = 159 ± 28 ppb (139 - 179 ppb) NO ₃ -N = 14 ± 2 ppb (12 - 15 ppb) NH ₄ -N = 1265 ± 570 ppb (861 - 1668 ppb) TN = 2008 ± 452 ppb (1688 - 2388 ppb) pH = ~7.1 EC = 372 μ S/cm
MISCELLANEOUS	SHORELINE CABINS 192 perennial ??? summer all on city sewer	TROPHIC STATUS (Carlson TSI)
	FISHERY	

Stratified in summer; complete spring mixing in 1998 and 1999 Ice Out dates: March 29, 1998 March 29, 1999	Northern Pike Walleye Yellow Perch Bluegill Sunfish	54 (mesotrophic)
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<http://www.waterontheweb.org/data/independence/context/summary.html>
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