

Library Reference 11.7.1

Trophic State Indicator Parameters Compared With Onondaga Lake 2009 Water Quality Conditions

Indicator Parameters	Trophic State Designation*			Onondaga Lake Measured Conditions, 2009
	Oligotrophic	Mesotrophic	Eutrophic	
Summer average total phosphorus, upper waters (µg/l)	<10	10-35	35 -100	17.4 (Jun-Sep)
Summer average chlorophyll- <i>a</i> , upper waters (µg/l)	<2.5	2.5 – 8	8 – 25	5.9 (Jun-Sep)
Peak chlorophyll- <i>a</i> (µg/l)	<8	8-25	25-75	14.4 (Nov 17)
Average Secchi disk transparency (m)	>6	6-3	3-1.5	3.2 (Jun-Sep)
Minimum Secchi disk transparency (m)	>3	3-1.5	1.5-0.7	1.7 (Jun 2)
Minimum DO in hypolimnion (% saturation)	80 – 100	10-80	Less than 10	0 (July – Sept)

* Janus, L.L., and R.A. Vollenweider. 1981. *The OECD Cooperative Program on Eutrophication. Summary Report.* Canadian Contribution. Canada Center for Inland Waters, Burlington.