

TABLE 21. Apparent water quality index for Wisconsin lakes based on water clarity, chlorophyll a content and total phosphorus concentrations (random data set).

Water Quality Index	Approximate Water Clarity Equivalent (m)	Approximate Chlorophyll a Equivalent ( $\mu\text{g/l}$ )	Approximate Total Phosphorus Equivalent ( $\mu\text{g/l}$ )	Approximate TSI* Equivalent
Excellent	>6.0	<1	<1	<34
Very Good	3.0-6.0	1-5	1-10	34-44
Good	2.0-3.0	5-10	10-30	44-50
Fair	1.5-2.0	10-15	30-50	50-54
Poor	1.0-1.5	15-30	50-150	54-60
Very Poor	<1.0	>30	>150	>60

\* After Carlson (1977).

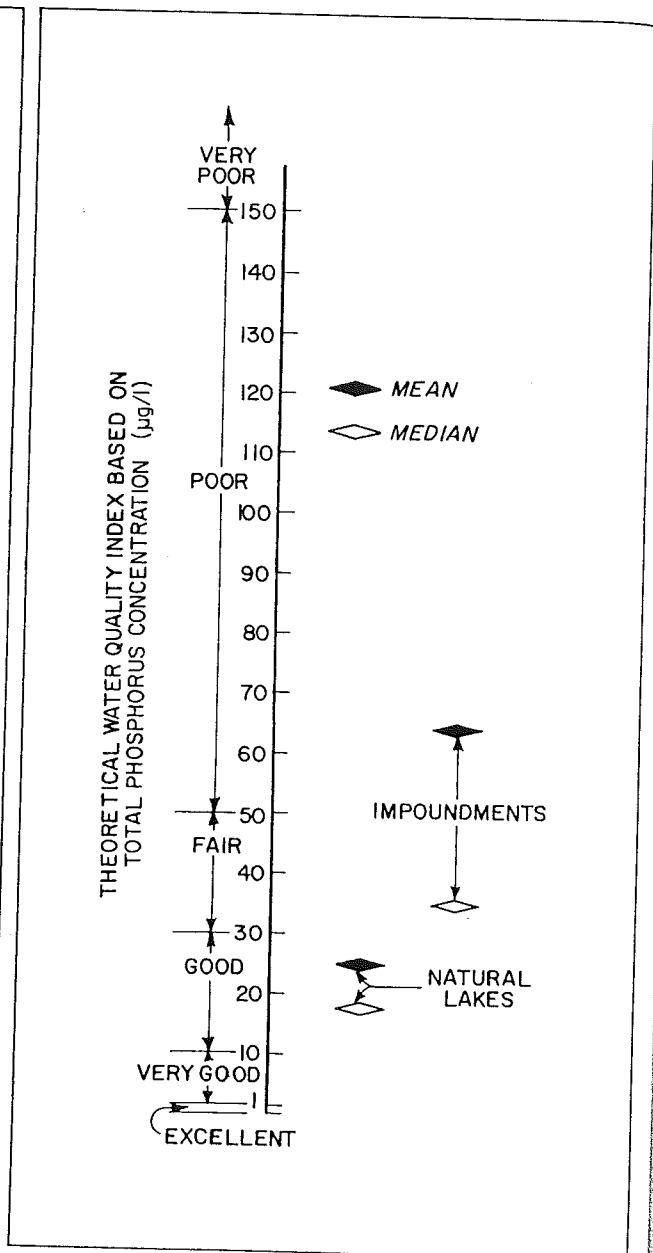
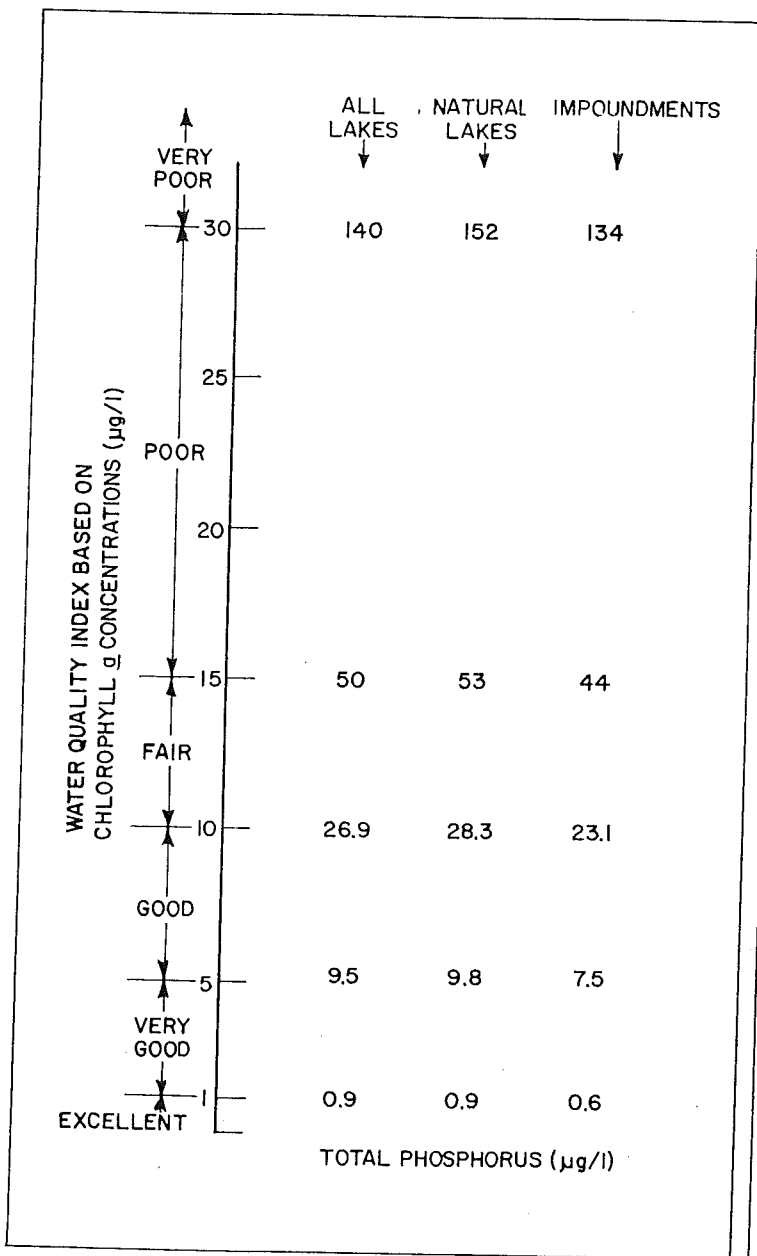


FIGURE 32. Comparison of chlorophyll a and total phosphorus concentrations for different lake types (based on linear regression analysis) in relation to the water quality index.

FIGURE 33. Total phosphorus concentrations for Wisconsin natural lakes and impoundments in relation to "expected" water quality.

Forestville Millpond - Door Co. Trophic Values - Site F1

	7/5/94	7/21/94	8/17/94	9/6/94	9/16/94	9/27/94	10/28/94	11/15/94	12/28/94	3/6/95	3/31/95
Chl a - ug/l	33.5		17.3								
Chl a - TSI	61.4		56.4								
T-Phosphorus - ug/l	76	24	40	41	47	123	30	20	8	10	20
T-Phosphorus - TSI	61.7	52.8	56.8	56.9	58.0	65.4	54.5	51.4	44.3	46.0	51.4
Secchi Depth - ft.	4.5	0.9	4.5	3	1.5	6.5	7	55.5	55.5	55.5	48.9
Secchi Depth - TSI	55.5	78.7	61.4	71.4	50.2	49.1	7.1				

# Forestville Millpond Site F1 Total-P & Secchi Trophic Values

