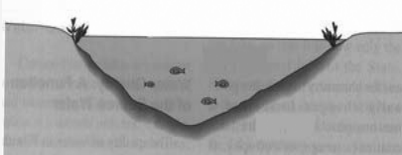
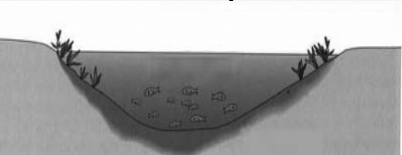
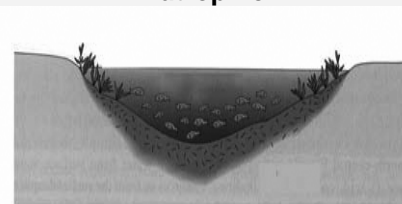
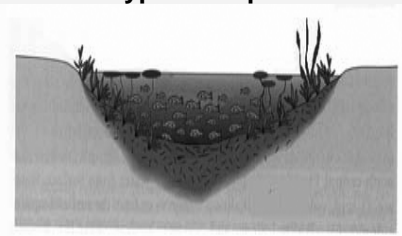


# TROPHIC STATE CLASSIFICATION

[http://plants.ifas.ufl.edu/education/trophic\\_state\\_table\\_final.doc](http://plants.ifas.ufl.edu/education/trophic_state_table_final.doc)

There are several different Trophic State Classification Systems being used today. In 1980, two scientists, Forsberg and Ryding, developed criteria for classifying lakes into trophic states based on four water chemistry parameters (total chlorophyll, total phosphorus, total nitrogen, and water clarity). Although developed for Swedish lakes, their criteria will work for lakes in Florida and have been adopted by Florida LAKEWATCH. Definitions of the four trophic states, descriptions of typical water bodies in each trophic state, and the Forsberg and Ryding criteria are listed in the table below. (Information courtesy of Florida LAKEWATCH <http://lakewatch.ifas.ufl.edu>)

Trophic State	Chl (Total Chlorophyll)  µg/l (micrograms per liter)	TP (Total Phosphorus)  µg/l (micrograms per liter)	TN (Total Nitrogen)  µg/l (micrograms per liter)	SD (Secchi Depth)  feet	Attributes
<p><b>Oligotrophic</b></p> 	<3	<15	<400	>13ft* (3.9624 meters)	<p>A typical <b>oligotrophic*</b> water body will have clear water, few aquatic plants, few fish, not much wildlife, and a sandy bottom.</p> <p style="text-align: right;">*Pronounced <b>oh - lig - oh - TROH - fic</b></p> <p style="text-align: right;"><b>Oligo</b> – means scant or lacking nutrition.</p>
<p><b>Mesotrophic</b></p> 	3 - 7	15 - 25	400 - 600	8 - 13ft* (2.4384-3.9624 meters)	<p>A typical <b>mesotrophic*</b> water body will have moderately clear water and a moderate amount of aquatic plants.</p> <p style="text-align: right;">*Pronounced <b>mees - oh - TROH - fic</b></p> <p style="text-align: right;"><b>Meso</b> – means mid-range or medium nutrition.</p>
<p><b>Eutrophic</b></p> 	7 - 40	25 - 100	600 - 1500	3 - 8ft* (.9144-2.4384 meters)	<p>A typical <b>eutrophic*</b> water body will either have lots of aquatic plants and clear water; or it will have few aquatic plants and less clear water. In either case, it has the potential to support lots of fish and wildlife.</p> <p style="text-align: right;">*Pronounced <b>you - TROH - fic</b></p> <p style="text-align: right;"><b>Eu</b> – means abundant nutrition.</p>
<p><b>Hypereutrophic</b></p> 	>40	>100	>1500	<3ft* (.9144 meters)	<p>A typical <b>hypereutrophic*</b> water body will have very low water clarity, the potential for lots of fish and wildlife, and it may have an abundance of aquatic plants.</p> <p style="text-align: right;">*Pronounced <b>HI - per - you - troh - fic</b></p> <p style="text-align: right;"><b>Hyper</b> – means over-abundant nutrition</p>

\* To convert feet to meters, multiply feet by 0.3048