



The lake assessments are created in partnership with Hillsborough County and the Florida Center for Community Design and Research  
**LAKE ASSESSMENT DOCUMENT**

Lake Thonotosassa      8/29/01      Watershed: Pemberton Creek

**II. Ecological Data**

Aquatic Plant Survey

Approximately equispaced sites are haphazardly mapped around the lake and the aquatic plants at each site are surveyed. The total number of species from all sites is used to approximate the total diversity of aquatic plants and the percent of invasive-exotic plants on the lake and in the watershed (Table 2). Many of these plants are considered ecologically harmful, as they tend to out-compete native species. Such “nuisance” plants can also make boating and other recreational activities difficult or impossible. The common and scientific names of plant species found on your lake are listed in Table 3.

Table 2. Comparison of species diversity between your lake and other assessed lakes located within your watershed.

	<u>Lake Thonotosassa</u>	<u>Pemberton Creek</u> (Average)
Number of Taxa:	17	19
Percent Exotic Plants:	35%	20%

Table 3. Botanical and common names of the most commonly found plants on your lake. Percent frequency (of occurrence), habit (location where found), status (native or exotic), and EPPC status are provided.

<u>Common Name</u>	<u>Plant Species</u>	<u>Frequency</u>	<u>Habit</u>	<u>Status</u>	<u>EPPC</u>
Cypress	Taxodium spp.	93%	Emergent	Native	NL
Water-Lettuce	Pistia stratiotes	71%	Floating	Exotic	I
Cattails	Typha spp.	57%	Emergent	Native	NL
Giant Bulrush	Scirpus californicus	50%	Emergent	Native	NL
Wild Taro, Dasheen, Coco Yam	Colocasia esculenta	43%	Emergent	Exotic	I
Knot grass	Paspalum distichum	43%	Emergent	Native	NL
Water Hyacinth	Eichhornia crassipes	36%	Floating	Exotic	I
Southern Red Maple	Acer rubrum var. trilobum	29%	Emergent	Native	NL
Water Primroses, Primrosewillow	Ludwigia spp.	29%	Emergent	Unknown	NL
Willow	Salix spp.	29%	Emergent	Native	NL
Water Paspalum	Paspalum repens	21%	Emergent	Unknown	NL
Alligator Weed	Alternanthera philoxeroides	14%	Emergent	Exotic	II
Torpedo Grass	Panicum repens	14%	Emergent	Exotic	I
Elderberry	Sambucus canadensis	14%	Emergent	Native	NL
Brazilian Pepper	Schinus terebinthifolius	14%	Emergent	Exotic	I
Maidencane	Panicum hemitomon	7%	Emergent	Native	NL

Lake Thonotosassa 8/29/01 Watershed: Pemberton Creek

Water Spangles, Water Fern

Salvinia minima

7%

Floating

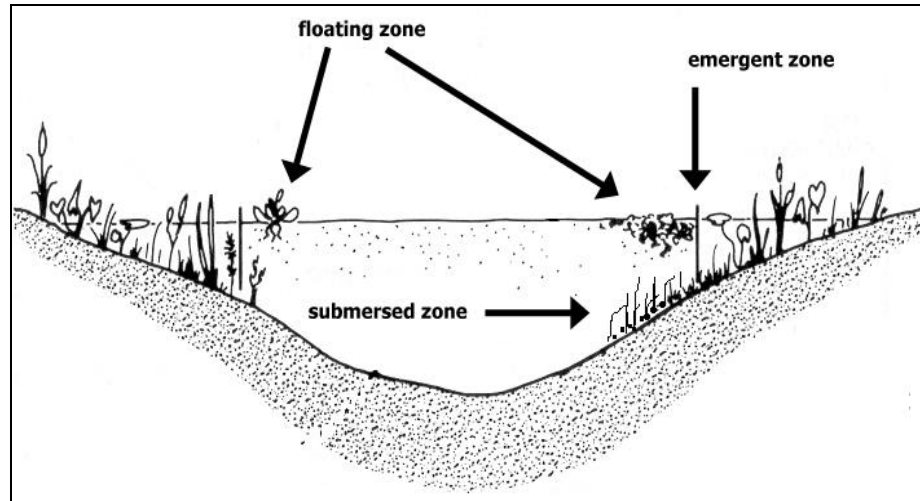
Native

NL

---

### Standing Crop

In addition to an overall survey of the types of plants on a lake, an estimate of the standing crop (biomass) of the lake has been obtained for many lakes. This was done by calculating the average weight of the vegetation within a quarter-meter square quadrat tossed haphazardly into three zones (see Figure) at each sampling site around the lake: (1) the emergent zone, (2) the floating zone and (3) the submersed zone. The average weight of the plants (Table 4) from all sampling sites and the dominant type of vegetation (Table 5) are provided. If data tables are not shown, no standing crop estimates were obtained for this lake.

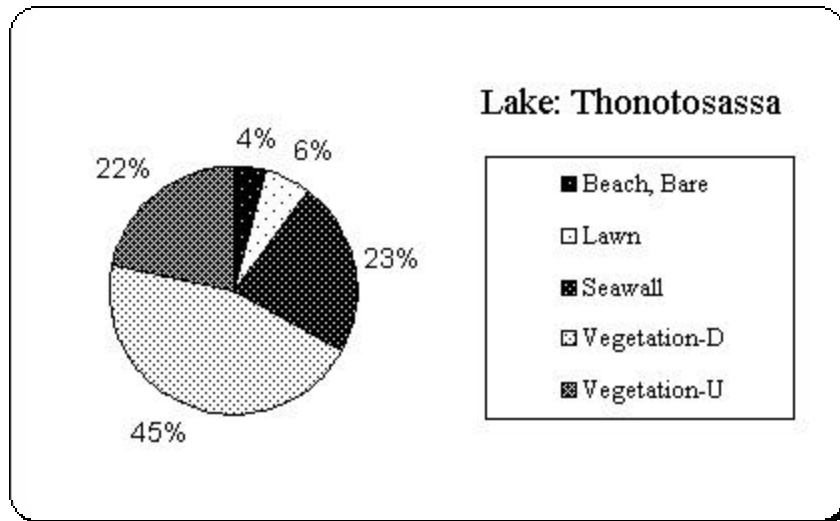




The lake assessments are created in partnership with Hillsborough County and the Florida Center for Community Design and Research  
**LAKE ASSESSMENT DOCUMENT**

### Habitat Quality

The shoreline is mapped by navigating the circumference of the lake and characterizing the adjacent shore using sophisticated GPS. Categories for characterization include: 1) Lawn 2) Seawall 3) Beach, Bare Soil 4) Undisturbed Vegetation (*Vegetation-U*) 5) Disturbed Vegetation (*Vegetation-D*) 6) Impervious Surface and 7) Ornamentals, etc. The result is an estimate of the percent of each type of shoreline per lake. This information assists in the interpretation of the aquatic plant survey as an indicator of relative habitat quality.



Percent of lake shore types