



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

Little Lake Wilson      7/20/99      Watershed: Rocky/ Brushy Creek

Lake assessments are being conducted to contribute physical and ecological data to the Atlas as a collaborative effort between project partners. The goal is to rapidly assess many of the lakes in the county and thus provide stakeholders a better understanding of the character of the lake, its shore, and the aquatic plants present there. These data are intended to assist in the future management of the lake and its watershed.

The first section of the report provides the results of the bottom mapping effort: a contour (bathymetric) map of the lake, area, volume and depth statistics, and the water level at the time of assessment (if available).

The second section provides the results of the ecological (vegetation) assessment conducted on the lake. These results can be used to better manage vegetation in your lake. A list is provided with the different plant species found at various sites around the lake. Potentially invasive, exotic (non-native) species are identified in a plant list and the percent of exotics is presented in a summary table. The results of this study are compared with other lakes in the watershed.

The intent of the assessment is to provide a starting point from which to track changes in your lake. These data can provide the information needed to determine changes and to monitor trends in physical condition and ecological health of the lake.

**I. Physical Data – Area, Depth, Volume, & Bottom Contours**

The bottom of the lake was mapped using a sophisticated Global Positioning System (GPS) to determine the boat’s position, and a depth-finder to provide depth associated with that measured position. The result is an estimate of your lake’s area, mean and maximum depths, and volume (Table 1) and the creation of a bottom contour map.

Table 1. Physical Characteristics of Your Lake.

Surface Area (acres):	9
Mean Depth (feet):	6.7
Maximum Depth (feet):	15.9
Volume (gallons):	18,981,994

# Little Lake Wilson

Section - Township - Range  
10-27-18

- Contour Lines Expressed in 2-Foot Intervals
- Lake Perimeter
- Ground Level

### EXPLANATION:

Survey Date: July 20, 1999

Lake water level above sea level is pending. Contours are expressed in absolute depth below this level.

### DATA SOURCES:

Digital orthophotos by United States Geological Survey. All contours generated by Florida Center for Community Design and Research based on survey data provided by the Hillsborough County Lake Management Program.





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**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>Little Lake Wilson</u>	<u>Rocky/ Brushy Creek</u> (Average)
Number of Taxa:	47	35
Percent Exotic Plants:	15%	18%

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>
Water Spangles, Water Fern	Salvinia minima	100%	Floating	Native	NL
Cypress	Taxodium spp.	100%	Emergent	Native	NL
Algal Mats, Floating	Algal spp.	80%	Floating	Unknown	Unknow
Wild Taro, Dasheen, Coco Yam	Colocasia esculenta	80%	Emergent	Exotic	I
Manyflower Marshpennywort, Water Penny	Hydrocotyl umbellata	80%	Emergent	Native	NL
Water Primroses, Primrosewillow	Ludwigia spp.	80%	Emergent	Unknown	NL
Climbing Hempvine	Mikania scandens	80%	Emergent	Native	NL
Giant Duckweed	Spirodela polyrhiza	80%	Floating	Native	NL
Southern Waternymph	Najas guadelupensis	70%	Submersed	Native	NL
Torpedo Grass	Panicum repens	70%	Emergent	Exotic	I
Common Buttonbush	Cephalanthus occidentalis	60%	Emergent	Native	NL
Wax Myrtle	Myrica cerifera	60%	Emergent	Native	NL
Swamp Fern	Blechnum serrulatum	50%	Emergent	Native	NL
Baldwin's Spikerush, Roadgrass	Eleocharis baldwinii	50%	Submersed	Native	NL
Pickereel Weed	Pontederia cordata	50%	Emergent	Native	NL
Brazilian Pepper	Schinus terebinthifolius	50%	Emergent	Exotic	I

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Asian Pennywort, Coinwort, Spadeleaf	<i>Centella asiatica</i>	40%	Emergent	Native	NL
Dayflower	<i>Commelina diffusa</i>	40%	Emergent	Exotic	NL
False Daisy, Yerba De Tajo	<i>Eclipta alba (prostrata)</i>	40%	Emergent	Native	NL
Laurel Oak; Diamond Oak	<i>Quercus laurifolia</i>	40%	Emergent	Native	NL
Cattails	<i>Typha spp.</i>	40%	Emergent	Native	NL
Muskgrass	<i>Chara spp.</i>	30%	Submersed	Native	NL
Maidencane	<i>Panicum hemitomon</i>	30%	Emergent	Native	NL
Knot grass	<i>Paspalum distichum</i>	30%	Emergent	Native	NL
Southern Red Maple	<i>Acer rubrum var. trilobum</i>	20%	Emergent	Native	NL
Common Bacopa, Herb-Of-Grace	<i>Bacopa monnieri</i>	20%	Submersed	Native	NL
Camphor-tree	<i>Cinnamomum camphora</i>	20%	Emergent	Native	I
Fragrant Flatsedge	<i>Cyperus odoratus</i>	20%	Emergent	Native	NL
Loblolly Bay	<i>Gordonia lasianthus</i>	20%	Emergent	Native	NL
Hydrilla, waterhyme	<i>Hydrilla verticillata</i>	20%	Submersed	Exotic	I
Dahoon Holly	<i>Ilex cassine</i>	20%	Emergent	Native	NL
Common Duckweed	<i>Lemna spp.</i>	20%	Floating	Native	NL
Sweetbay Magnolia	<i>Magnolia virginiana</i>	20%	Emergent	Native	NL
Spatterdock, Yellow Pondlily	<i>Nuphar lutea var. advena</i>	20%	Floating	Native	NL
Bulltongue Arrowhead, Duck Potato	<i>Sagittaria lancifolia</i>	20%	Emergent	Native	NL
Filamentous Algae, Algal Mats	Algae, Filamentous	10%	Floating	Native	NL
Alligator Weed	<i>Alternanthera philoxeroides</i>	10%	Emergent	Exotic	II
Buttonweed	<i>Diodia virginiana</i>	10%	Emergent	Native	NL
Rush Fuirena	<i>Fuirena spp.</i>	10%	Emergent	Native	NL
Swamp Rosemallow, Swamp Hibiscus	<i>Hibiscus grandiflorus</i>	10%	Emergent	Native	NL
Fourpetal St. John's-Wort	<i>Hypericum tetrapetalum</i>	10%	Emergent	Native	NL
Banana Lily, Big Floatingheart	<i>Nymphoides aquatica</i>	10%	Floating	Native	NL
Royal Fern	<i>Osmunda regalis</i>	10%	Emergent	Native	NL
Frog-fruit, Carpetweed, Turkey Tangle Fogf	<i>Phyla nodiflora</i>	10%	Emergent	Native	NL
Smartweed, Knotweed	<i>Polygonum spp.</i>	10%	Emergent	Native	NL
Water Oak	<i>Quercus nigra</i>	10%	Emergent	Native	NL
Popcorn Tree, Chinese Tallow Tree	<i>Sapium sebiferum</i>	10%	Emergent	Exotic	I

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.

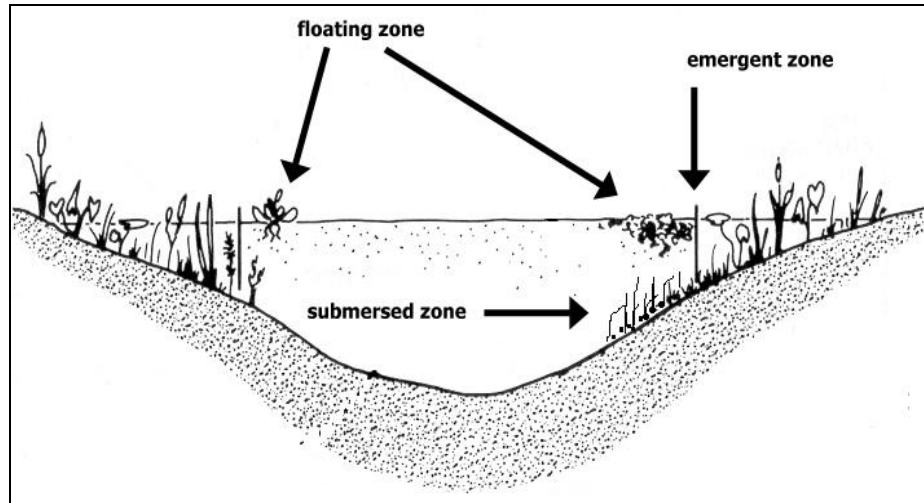


Table 4. Comparison between the average biomass from three zones within your lake and among all lakes assessed within your watershed.

	<u>Little Lake Wilson</u>	<u>Rocky/ Brushy Creek</u> (Average)
Emergent Zone:	9.15	4.74
Floating Zone:	0.17	0.69
Submersed Zone:	0.14	1.54

Number of lakes sampled in your watershed: 29

Note: All biomass measurements are shown in kilograms per square meter.

Table 5. Dominant taxa from three zones within your lake.

<u>Zone</u>	<u>Dominant Plant</u>	<u>Status</u>
Emergent Zone:	Torpedo Grass	Exotic
Floating Zone:	American White Water Lily, Fragrant	Native
Submersed Zone:	Southern Waternymph	Native