

Opening Remarks

Commissioner Bob Dallari (Seminole Co) Commissioner Ted Edwards (Orange Co)





Introductions

- Dan Homblette (Orange Co)
- Liz Johnson (Orange Co)
- Gloria Eby (Seminole Co)
- Kathy Moore (Seminole Co)
- CJ Greene (Florida Fish & Wildlife Conservation Commission- FWC)
- Lake Liaisons







Meeting Agenda

- Aquatic Plant Biology & Lake Status
- County MSBU/TU Updates
- Educational Outreach Information
- FWC Presentation on Grass Carp Fish
- Community Liaison Updates
- Questions

Aquatic Plant Biology & Current Lake Status

Gloria Eby SC Lake Management Program Manager

Aquatic Plant Biology

- Hydrilla verticillata
 - Exotic
 - Grows quickly
 - Chokes native species
 - Impedes navigation
 - Can cause fish kills, odors





- Hydrilla Control Methods
 - Mechanical (\$\$\$\$)
 - Expensive
 - Temporary
 - Can make worse
 - Chemical (\$ \$\$\$)
 - EPA approved herbicides
 - Greater species selective
 - Good for large and small control needs
 - Biological (\$-\$\$)
 - Triploid Grass Carp
 - Used as part of maintenance, not control



Integrated Lake Management Plan







Hydrilla Management and Resistance



Importance of Monitoring





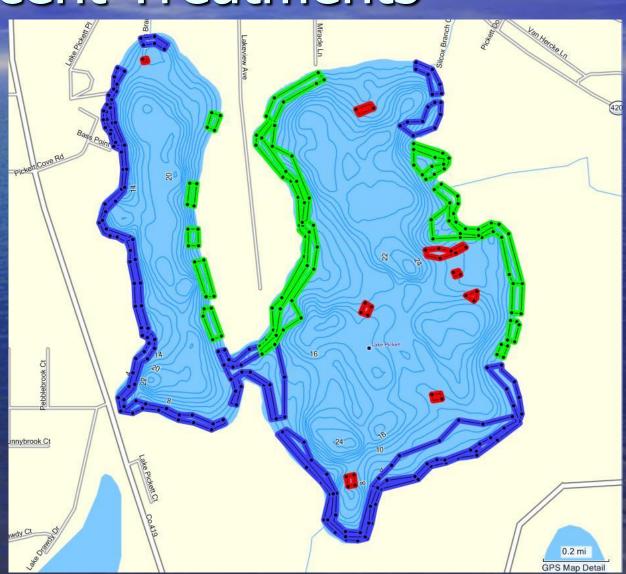


Lake Management & Survey Update

- Surveyed every 8 to 12 weeks
- Past 5 years, primarily spot treatments
- In 2012: large-scale shoreline treatment with Aquathol K for hydrilla
 - Cost: \$150,000
- Most recent survey (May 6, 8 & 9):
 - Minimal hydrilla found in lake; several small locations totaling less than 1 acre

Recent Treatments

Red 8/7/12 Blue 8/8/12 Green 9/6/12



Recent Survey

May, 6, 8, 9, 2013



Lake Bioassessments



Other SAVs Observed

Native Bog Moss

VS

Hydrilla





Other Native SAVs Observed

Southern Naiad



Coontail



Other Native SAVs Observed

Fanwort

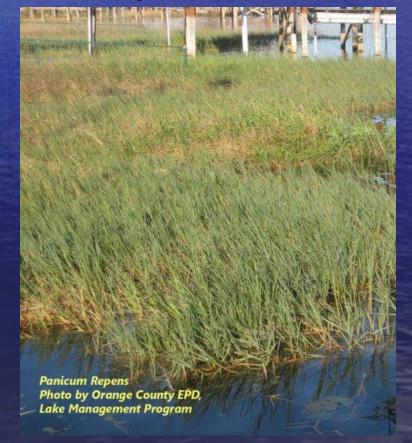


Other **Exotics** Observed

Limnophila



Torpedo Grass











Biological Monitoring Vegetation Sampling (LVI) (collected annually)

2010: 71 Healthy 2011: 79 Exceptional 2012: 75 Healthy

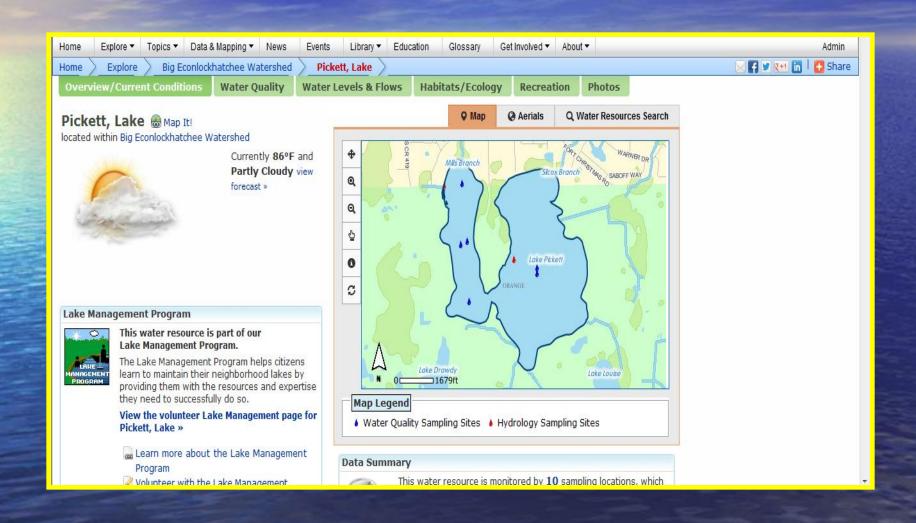




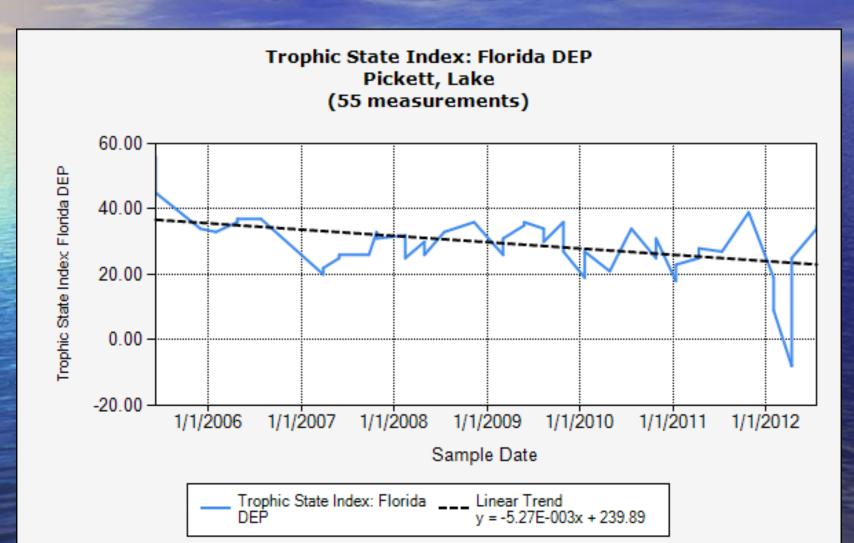




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Lake Pickett TSI



Status of Management Funding

- Seminole County MSBU
- Orange County MSTU



Seminole County Lake Pickett AWC MSBU Update

Kathy Moore SC MSBU Program Manager

Service Scope – Review

- Lake Management Plan:
 - Treatment/Management of Hydrilla by approved methodologies as authorized by State issued permit(s)
- Approved Methodologies:
 - Chemical (herbicide)
 - Biological (TGC fish)
 - Integrated Approach* (herbicide + TGC fish)
 *Methodology recommended for Lake Pickett
- Current Plan/Permit: Chemical Methodology

Specific herbicides; specific conditions

Seminole County MSBU Balanced Budgeting

Revenue = Expenses

Revenue

- Beginning Fund Balance (prior year ending balance)
- Assessments (rate determined and adjusted annually)
- Fund Advance (when applicable)

<u>Expenses</u>

Planned Expenditures

(Immediate needs/expectations per Lake Management Plan)

- Herbicide Product & Application Labor (Interlocal Agreement)
- SC Administrative Fee (\$1,075.00)
- Contingency/Reserves

(Anticipating & preparing for long-term financial demands associated with hydrilla management)

MSBU Budget Overview (current year)

- Available Funding: ~\$170,000
 - Expenditures (per Lake Management Plan)

\$ 40,000 - \$75,000

Contingency/Reserves:

\$130,000 - \$95,000

Seminole County MSBU Budget Planning for Next Year [FY13/14]

(per Lake Management Plan)

Cost Estimate: Herbicide product/services ~\$40,000-75,000

Need to maintain reserve/contingency level

Assessment Revenue Targeted: ~\$40,000

Tax Year 2013 \$ 90.00

Assessment History

 $_{\bullet}$ T_{ax} Y_{ear} 1996 (1st yr) → \$89.98

 \blacksquare Tax Year 1997-1999 → \$ 72.00

Tax Year 2000 → \$ 35.00

 \blacksquare Tax Year 2001-2005 → \$ 25.00

 \blacksquare Tax Year 2006-2008 \rightarrow \$ 50.00

Tax Year 2009-2011 → \$ 45.00

■ $T_{ax} Y_{ear} 2012$ \rightarrow \$ 5.00*

^{*}Rate set per cost history & contingency level. Set prior to significant outbreak of hydrilla in summer of 2012. Notification to property owners [letter mailed October 2012] to anticipate increase in TY2013 per new hydrilla conditions.

Seminole County Lake Pickett AWC MSBU

Lake Pickett - Budget or Funding

Questions specific to Seminole County?



Orange County MSTU Updates

Dan Homblette
Environmental Program Supervisor

Status of MSTU Budget

- 88 parcels included
- Millage: 1.7597
- Annual revenue: \$21,900
- Current budget: \$230,400
 - Working budget: \$134,700
 - Reserves: \$84,700



Educational Outreach

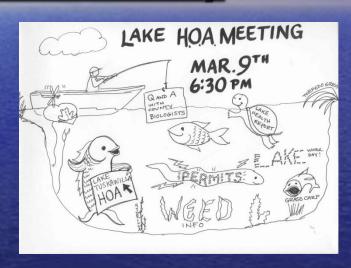
Improving the health of your lakes



Your Next Steps

Be Active in Your Lake Community

- Hold and attend lake meetings
 on a regular basis to address
 the needs of your lake
- Have a step-wise action plan for management activities
- County LMP can provide technical assistance to your lake groups





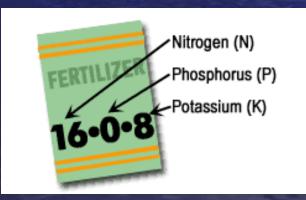
Your Next Steps

Reduce Your Nutrient Loading to Lake

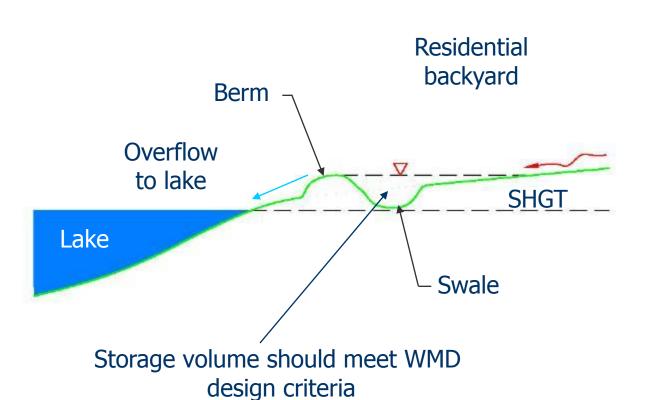
Prevent:

- Improper and Excessive use of Fertilizers
- Landscape Activities- be careful with grass clippings & leaves
- Stormwater run-off
- Compliance with the Orange County Fertilizer Ordinance

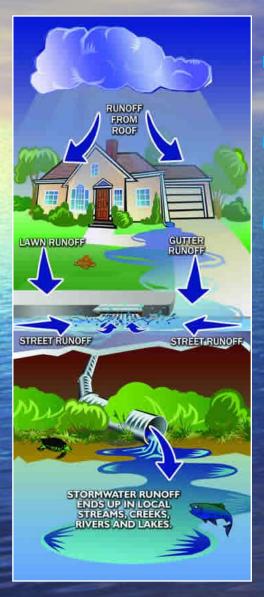




Rear Yard Swales and Berms



Stormdrain Marking



- Help reduce #1 form of pollution in waterways
 - Stormwater runoff / Nonpoint Source Pollution
- Increase public awareness / outreach
 - Preventative and proactive
- Improve and protect water quality
 - Local waterways 🔷 SJR 🖒 Atlantic Ocean





Are your storm drains labeled?

If not, please contact:

Seminole Education, Restoration & Volunteer Program Coordinator
407-665-2457
serv@seminolecountyfl.gov

Seminole Education, Restoration & Volunteer Program
Seminole Education, Restoration & Volunteer Program
Seminole Education, Restoration & Volunteer Program

Orange County EPD, Carrie Mohanna, Volunteer Coordinator 407-836-1430

Carrie.Mohanna@ocfl.net





FYN Workshops



Florida-Friendly Landscaping[™] (FFL) means using lowmaintenance plants and environmentally sustainable practices. Learn how you can have a beautiful landscape that could save you time, energy and money while protecting our water resources and the future.





Become a LAKEWATCH or a

Adopt a Lake Volunteer



Benefits of a Native Shoreline

- Filters pollution runoff BEFORE entering the lake
- Improves the overall ecosystem function of the lake and subsequent waterways it flows into
- Provides habitat for wildlife
- Reduces erosion
- Aids in stabilizing the shoreline
- Occupy space so invasive plants can't invade
- Aesthetics





Native Aquatic Plants



Pickerelweed



Duckpotato



Yellow Cana

Recommended Management Options for Lake Pickett

Issue	Recommendation
Be Active	Hold and attend lake meetings formulating a step-wise plan for your lake.
Rear Yard Berms and Swales	Construct berms and swales along all developed shoreline areas of Prairie and Pearl.
Vegetated Shorelines	Require establishment of natural shoreline vegetation in all non-exempt shoreline areas within 2 years.
Septic Tanks	Routinely clean out to ensure sludge does not enter into drain field. Use low P detergents if on septic.
Public Education	Establish a comprehensive public education program to inform residents of link between watershed activities and water quality. Utilize SERV & FYN Programs.
Fertilizer Use	Reduce use of P and keep leaves and lawn clippings out of your lake.





FWC

Carl (CJ) Greene
Regional Biologist
Invasive Plant Management Section
Florida Fish and Wildlife Conservation Commission