# Lakeville A Natural Resource Management Activity

	SCORE RANGE		RITTER
8	6 - 16	SEEK and DESTROY	1
	17 - 27	KEEP IT UNDER CONTRO	L 2
	28 - 38	WATCH IT	3
i	39 - 49	CONSERVATION: LET IT GROW	4
		DECTODATION	1

### What would you do if you were in charge of the environment?

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#### From UF-IFAS Center for Aquatic and Invasive Plants

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IFAS Extension Osceola County Extension



Florida Invasive Plant Education Initiative • http://plants.ifas.ufl.edu/education A Collaboration of the UF/IFAS Center for Aquatic and Invasive Plants and the Florida Fish and Wildlife Conservation Commission / Invasive Plant Management Section

### A Natural Resource Management Activity

- Goal
- 10 Steps to Playing Lakeville
- Lakeville's Impacts and Future
- Play the Game!

### A Natural Resource Management Activity

### Goal

Provide students with the opportunity to learn about the challenges associated with making natural resource management decisions by giving them the opportunity to **participate** in the process.

- 10 steps
- 1. Silent Invaders
- 2. Discuss/Define Ecosystem and Land Management
- 3. Large format poster of an ecosystem (Game Board)
- 4. Citizen Advisory Panel (players)
- 5. Critter Roles
- 6. Wheel of Focus
- 7. Critter advocates
- 8. Citizen Advisory Panel ask Questions
- 9. Scores = Management Plan
- **10**. Critter populates the Ecosystem





# SILENT INVADERS

A true story about non-native and invasive plants in Florida.

Click here to start the show!

Step #2DiscussEcosystem

Land Management

# **Define Ecosystem:** "An integrated unit of a biological community, its physical environment, and interactions."

(Florida Next Generation Sunshine State Standards)



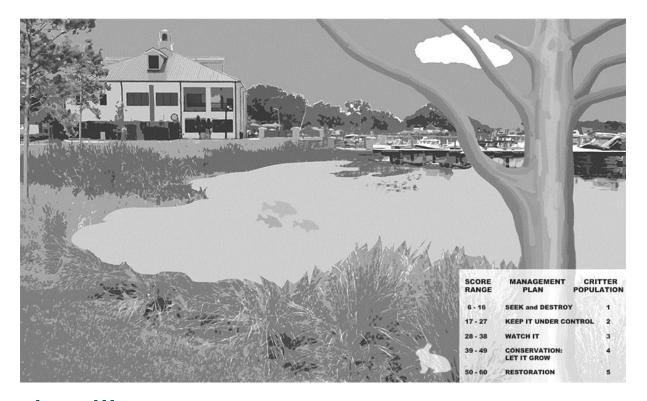


Can your backyard be an ecosystem?

- Have you ever pulled a weed?
- Cut down a tree?
- Bought a plant to grow in your yard?

You are a land (ecosystem) manager!

### Step#3 Large format habitat poster



Lakeville – your local freshwater ecosystem

### Step#4 Choose Citizen Adivsory Panel Citizen Role Cards



#### front of card

back of card

Cards provide "clues" for role playing or students can develop their own character traits for a selected citizen role.

*Priorities: Happy, well-fed customers – and plenty of them!* 

### Citizen Role Cards (12 to choose from)

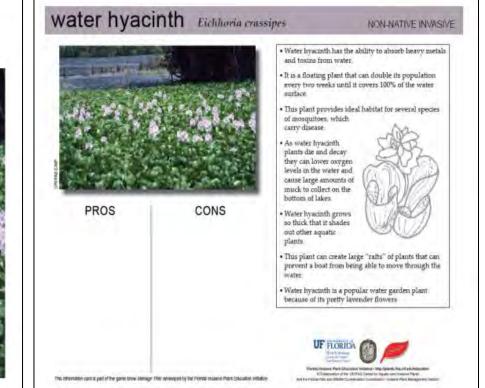


6 students are selected and given randomly chosen (or assigned) roles

### Step #5 Assign Critter Role Cards

# water hyacinth



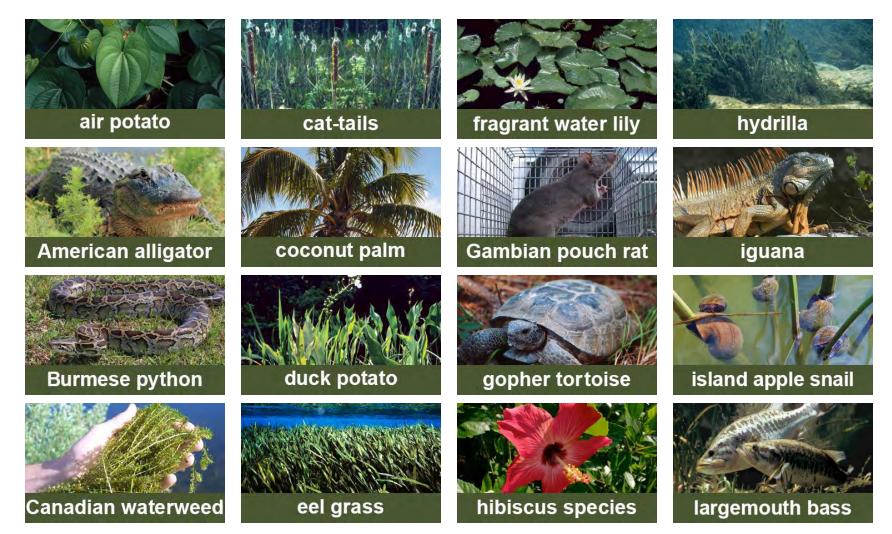


#### front of card

#### back of card

Students are given critter role cards with information about their selected critter (Is it aquatic or terrestrial? native, non-native or invasive? What does it eat? Economic value, etc.)

### Critter Role Cards (30 to choose from)



### Critter Role Cards (30 to choose from)

red imported fire ant

sailfin catfish

small duckweed



manatee

monk parakeet

**Old World climbing fern** 

poison ivy



orange tree







Recommended: choose 12 to work with for one class session. Select critters based on relevancy to your community.





### **Critter Magnets** (or JPEG images to be used on smart board)



30 critters; 5 of each (3" x 5") to be used for populating the habitat, based on decisions made by the Citizen Panel *(More on this later.)* 

### Step #6 Wheel of Focus



Purchase for your classroom DIY instructions for making table-top version

## Step #7 and Step #8

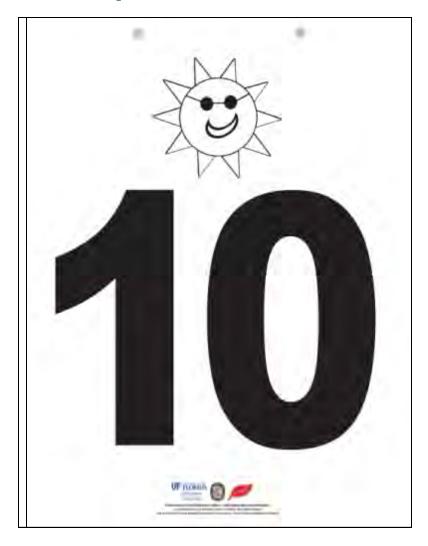


Step #7 Selected critter advocate(s) present in front of the class



Step#8 Citizen advisory panel asks questions; brief discussion with critter

### Step #9 Scorecards (10 to restore it; 1 to mow it)





Used by Citizen Panel to "vote" for management plan

### VOTE!



Advisory panel votes and the class adds individual scores to achieve a total score (ranging from 6 to 60)

# **Total Score**

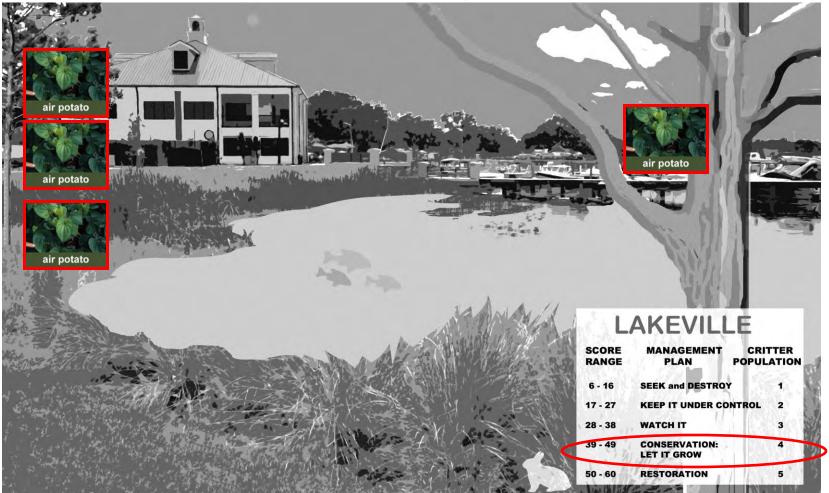


#### 6+9+8+8+7+1 = **39**

LAKEVILLE				
SCORE RANGE	MANAGEMENT	CRITTER		
6 - 16	SEEK and DESTRO	Y 1		
17 - 27	KEEP IT UNDER CO	ONTROL 2		
28 - 38	WATCH IT	3		
39 - 49	CONSERVATION: LET IT GROW			
50 - 60	RESTORATION	5		

- 9) Total score is used to determine a Management Plan (five levels)
  - \* See Lakeville Large Habitat Poster for scoring system

### Step #10 Management Plan

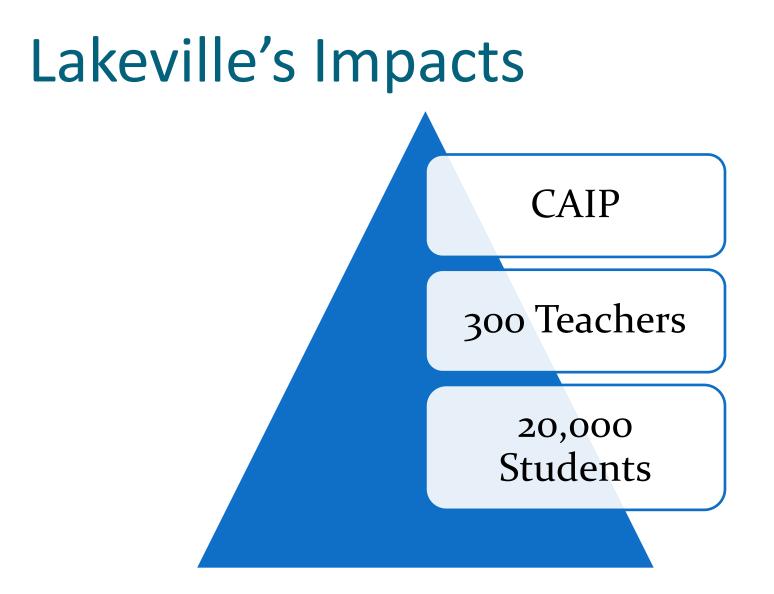


Critter populates the board with management plan number. IMPORTANT: Students make decisions, even if they are not good ones and have consequences...

### Discussion ~ Populate the Ecosystem



Discuss as habitat is populated. What will happen to the air potato in a year's time? Predict what will happen with invasive apple snails or native manatees.



# Lakeville's Future

- Plant Camp 2013 (25 educators)
- Georgia Camp June 2013 (12 educators)
  - UGA/APMS/AERF
- Florida Schools 2013/2014 (5 schools)
  - FAPMS











### Impact

# 2012 2013

# 2014?



### A Natural Resource Management Activity

### See Lakeville Unit Guide



All materials available by request from Florida Invasive Plant Education Initiative http://plants.ifas.ufl.edu/education







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