

Good Habitat/Bad Habitat

Good Habitat





Bad Habitat

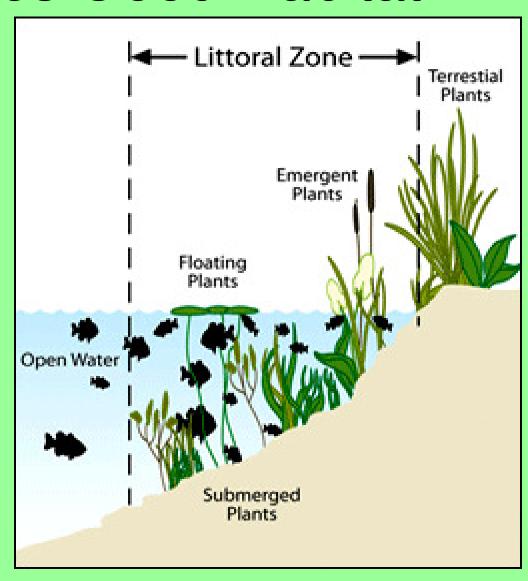




What Makes Good Habitat

In the Littoral Zone You Want to...

- Maintain Variety
- Emphasize Edge
 Effect
- Maintain 30-50%
 Area Coverage of Plants



Butterflies (Order Lepidoptera)

- Pollinate 75% of Staple Crops and Flowers.
- 2nd Only to Bees as Pollinators
- Environmentally
 Sensitive, so They are
 Good Ecological
 Indicators



Swallowtail Butterfly



Monarch Butterfly

Dragonflies (Order Odonata)

- Tied to water due to early life stages
- Eat mosquitoes
- Excellent prey for fish
- Ecological indicator of low dissolved oxygen



Lady Bugs (Hippodomia convergens)

- Love to eat aphids
- Excellent natural pest control



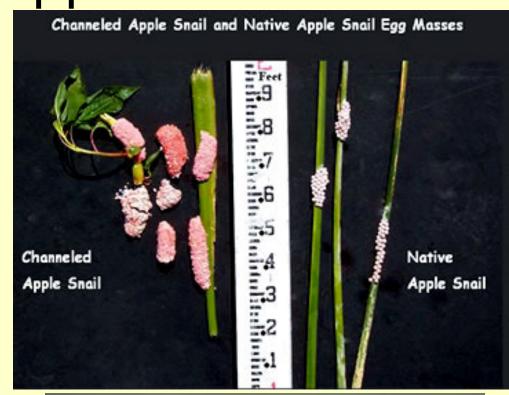
Apple Snails (Pomacea spp.)

- Eat algae and detritus
- Help to improve water quality
- Important food source for the Everglades Kite, also known as the Snail Kite



Exotic Apple Snails

- Much larger than natives
- Can outcompete natives
- Found to have negative impacts on Snail Kites feeding





Frogs (Order Anura)

- Indicator of good water quality
- Eat nuisance insects
- Extremely susceptible to pollutants
- Provide food for fish





Turtles (Order Testudines)

- Help stimulate plant growth by eating plants
- Habitat loss and genetic mixing are the biggest threats to Florida native species



Florida Cooter



Yellow belly slider

Small Fishes



Mosquitofish

(Gambusia holbrooki)

- Usually 1-3 inches long
- Great food source for larger fish and wading birds
- Effective in controlling mosquito larvae
- Tolerant of poor water quality



Brook Silverside

(Labidesthes sicculus)

- Usually 2-3 inches long
- Great food source for larger fish and wading birds
- Eat zooplankton and insect larvae
- Prefer clear water, intolerant of highly turbid water

Grass Carp (Ctenopharyngodon idella)



FFWCC Grass Carp Website:

http://myfwc.com/license/FreshwaterPermit grasscarp.htm

- Only triploid grass carp are allowed in Florida
- Must apply for an application through FFWCC
- Benefits of Grass Carp are that they provide long-term management of vegetation as long as they are stocked correctly
- A drawback is that they are not very selective and will eat a variety of plants

Sunfishes (Family Centrarchidae)

- Beloved by recreational anglers
- Fishes of this family are tolerant of environmental stressors and pollutants
- Prefer the cover of plants and woody debris



Herons (Family Ardeidae)



Little Blue

(Egretta caerula)

- 22-29 Inches
- Eat Small fish, amphibians, and aquatic invertebrates
- Most serious threat is habitat loss



<u>Green</u>

(Butordies viregrens)

- 16-18 Inches
- One of the few tool using birds
- Winters in coastal areas



Tricolored

(Egretta tricolor)

- 24-28 Inches
- Can be distinguished by white belly
- Feed mainly on small fish

Cormorants and Anhingas

(Order Pelecaniformes)

- Common to this area
- Eat fish
- Look similar to one another
 - Cormorants have a shorter tail and shorter blunter and hooked bill
 - Anhingas have a longer pointy bill and their head is the same size as their neck



Anhinga



Cormorant

