


Meeting conservation challenges in the 21st century

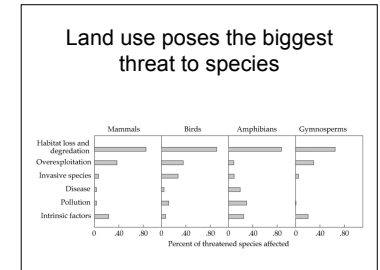
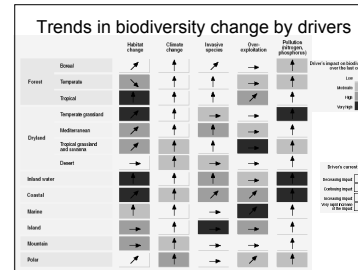


"UNLESS someone like you cares a whole awful lot, nothing is going to get better. It's not."

—The Onceler in *The Lorax* by Dr. Suess

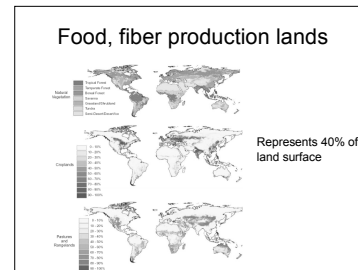
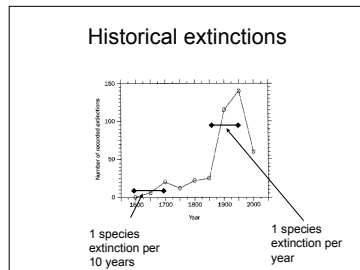
Conservation biology is a value-laden field

1. Diversity of organisms is good.
2. Ecological complexity is good.
3. Evolution is good.
4. Biotic diversity has intrinsic value.

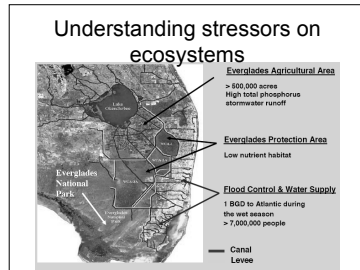
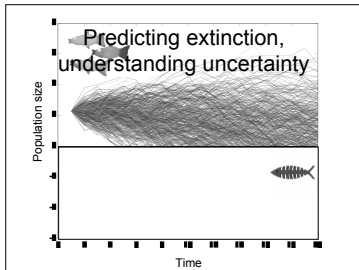


Challenge: The threat to biodiversity

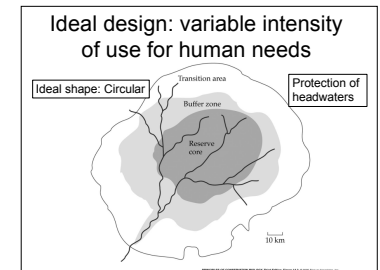
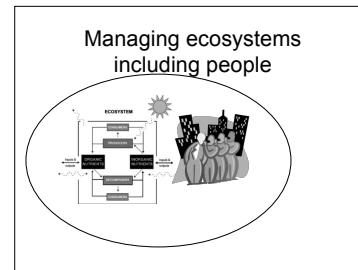
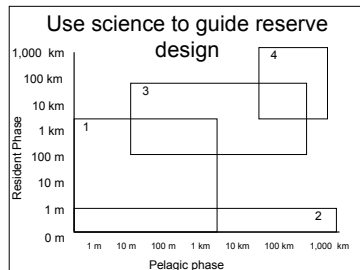
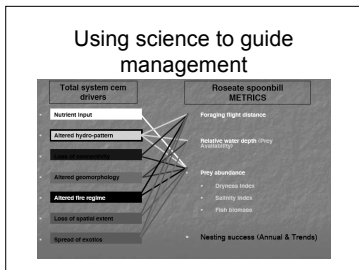
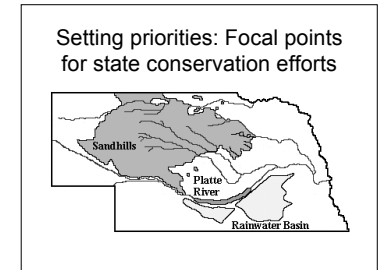
Species extinction

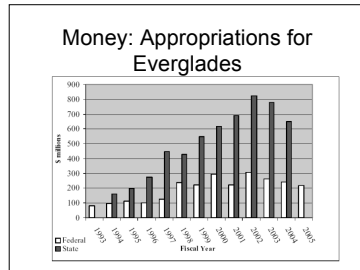
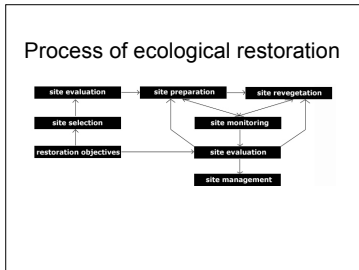


Meeting the challenge of threats and extinction

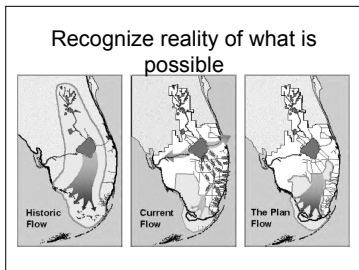
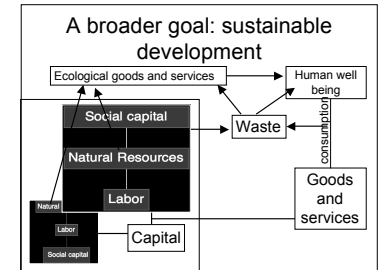


- ### Adaptive management
- Management is an experiment.
 - Use a hypothesis-driven approach.
 - Make predictions.
 - Collect data.
 - Modify management based on results.

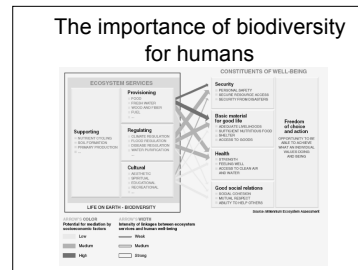




- ### Meeting the challenge of threats and extinctions
- Understanding ecosystems
 - Predicting extinctions
 - Adaptive ecosystem management
 - Using governance



- ### Using the codes of environmental values
- Environmental policy
 - National Environmental Policy Act, 1969
 - Clean Water Act, 1972
 - Endangered Species Act, 1973



Conservation ethics will most effectively promote sustainable development

Leopold argued that effective conservation would occur when the community considered it the "right" thing to do.

Strengthen conservation ethics through science, education, laws and economic incentives

It takes us not someone else to
meet the challenge



Thank you for a
great semester!

