

- ECOL 1000: Ecological Basis of Environmental Issues
- University of Georgia
- Spring 2015



## Lecture 5

## Ecosystem Services- Ecology of Food

# Questions:

- What are some differences globally in the production of food?
- How do we manage resources for sustainable food production?
- What are issues associated with agricultural pest control, and what are potential solutions?

# Agricultural Practices

- With ~ 30,000 edible plants, 15 plant & 8 animal species provide 90% of food
- 35% land used for food production
- Traditional: human labor and draft animals used to produce food for the family
  - Shifting cultivation in tropical forests
  - Nomadic livestock herding
- Industrialized: large inputs of energy (fossil fuels, fertilizers, irrigation, and pesticides)
  - Primarily in developed countries