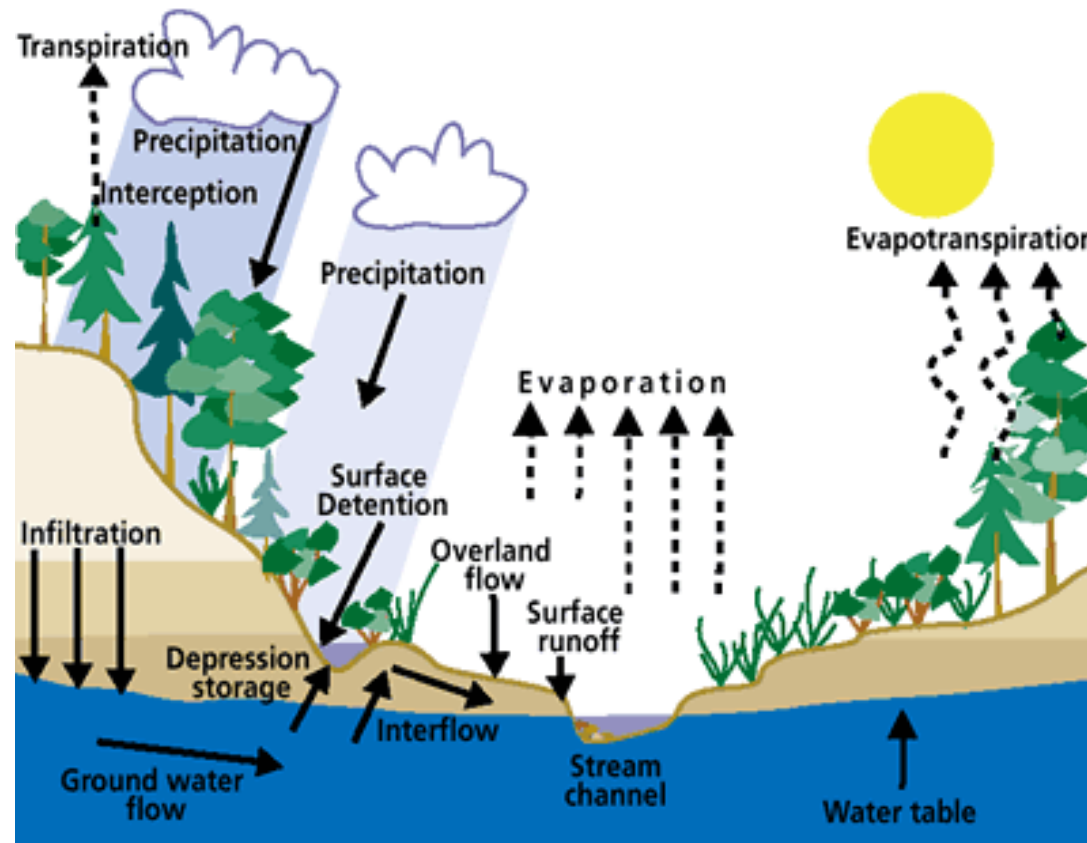


# Effects of Woody Biofuel Production on Water Resources

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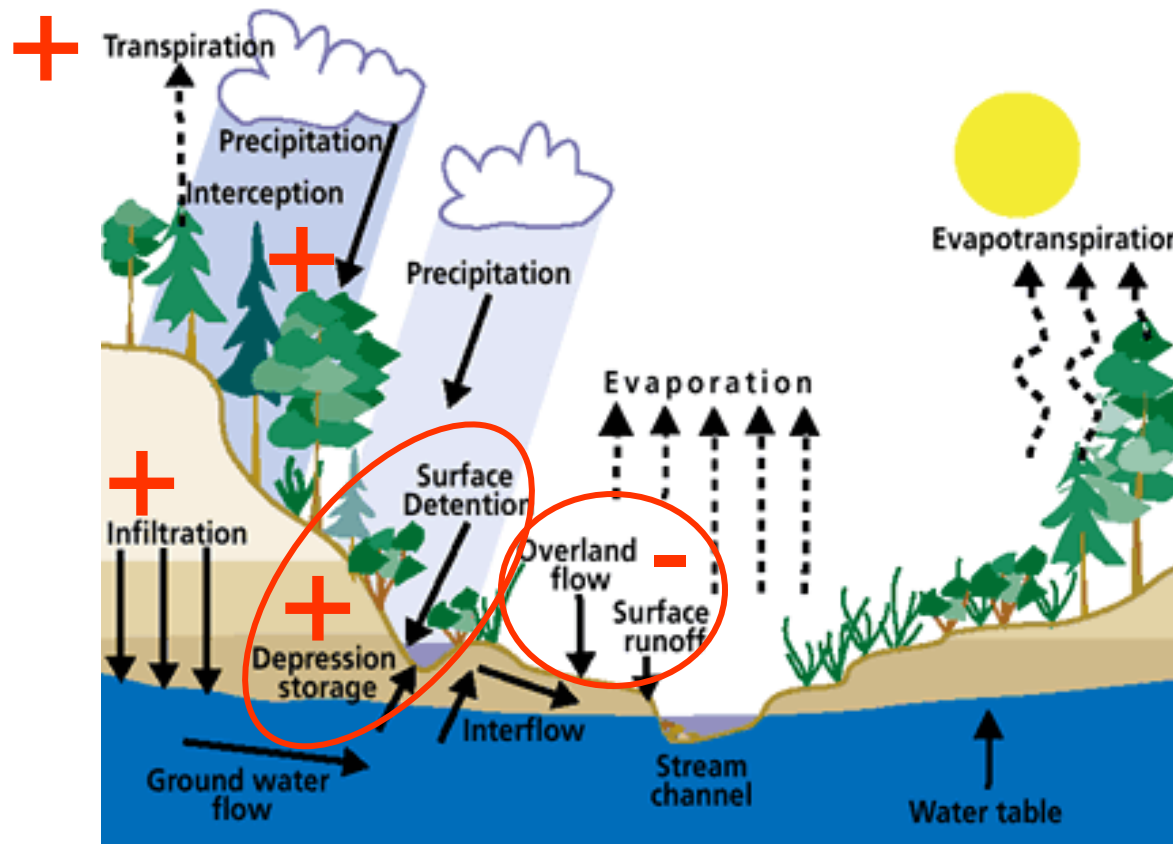
Carl C. Trettin  
Center for Forested Watershed Research  
US Forest Service  
Charleston, South Carolina

# Overview of the Hydrologic Cycle



# How Does Woody Crop Production Affect the Water Cycle?

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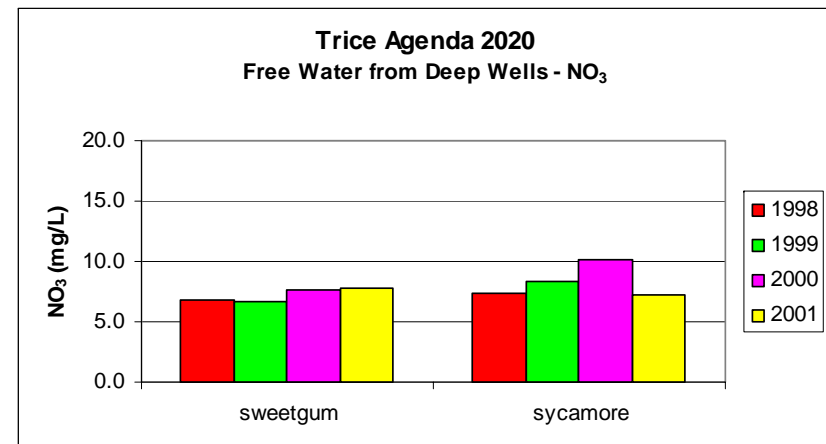
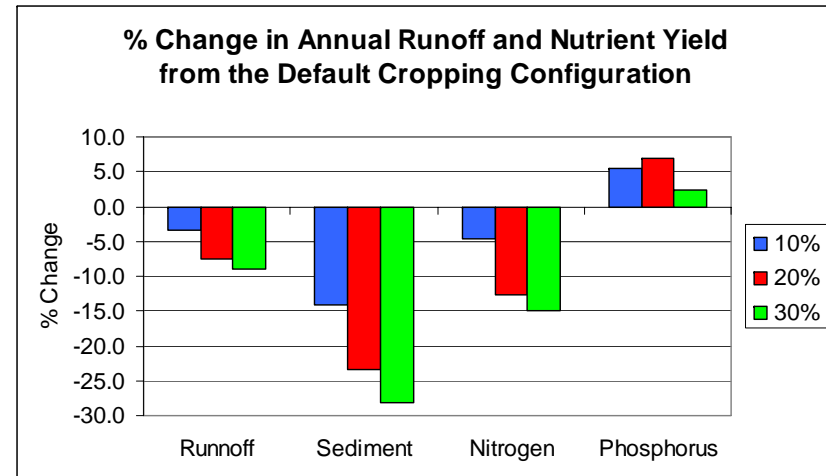
# Woody Crop Production & Water Quality

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# Water Quality Considerations

- Generally, Natural Forest > Woody Crop Plantation > Agriculture
- Effects don't exceed drinking water standards



# Keys Factors to Protect Water Resources

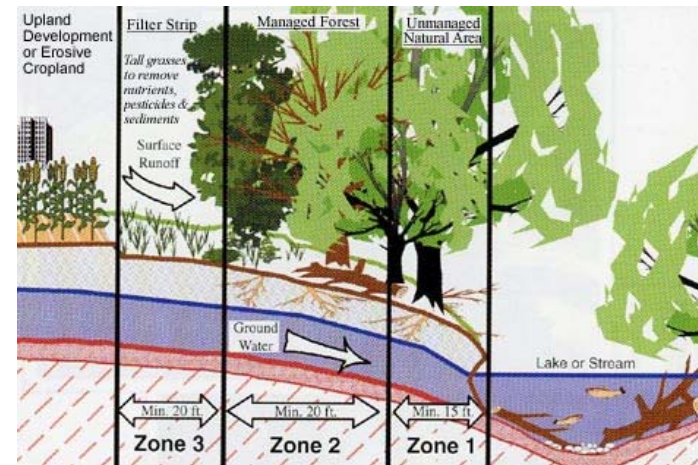
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- Know the site and prior land use.
- Use Best Management Practices for plantation silviculture and riparian zones.
- Appropriate use of soil amendments and herbicides.



# Considerations for Effective Application of Woody Crop Production Technologies

- Functional assessment tools.
  - Effective integration of different land uses at meaningful spatial scales.
- Operational-scale demonstration projects.
  - Application of Best Management Practices in operational settings.



# Thank-you



short rotation  
**WOODY CROPS**  
operations working group

