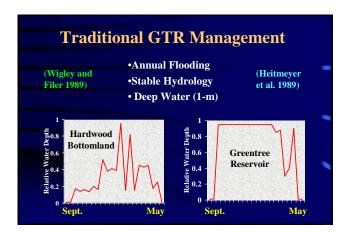


## **Other Important Functions of Hardwood Bottomlands** Other Fish & Wildlife: •Mammals (Mink, Otter) •Neotropical Migrants (Emberizidae)•Fish (Catfish, bowfin) •Herpetofauna (Snakes, Anurans, Salamanders, Turtles) Spawning, Nursery **Timber Production:** \$620/ha •Valuable Hardwoods (i.e., red oaks) CBO & WO •Saw Timber or Veneer Logs (\$130/tbf) **Environmental:** •Flood and Erosion Control "Wetland Benefits" •Nutrient Cycling •Groundwater Recharge



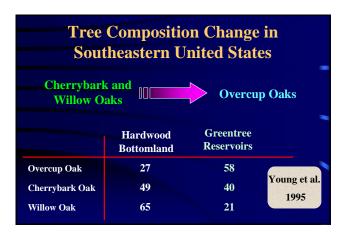




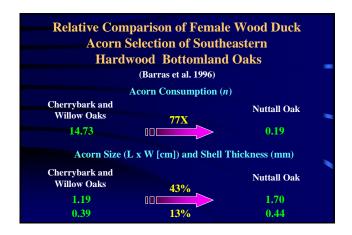




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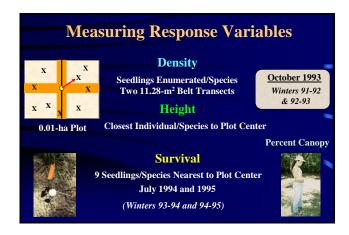


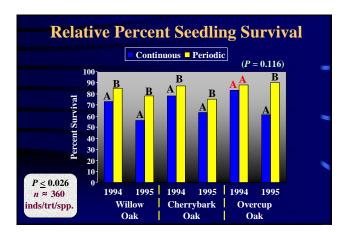


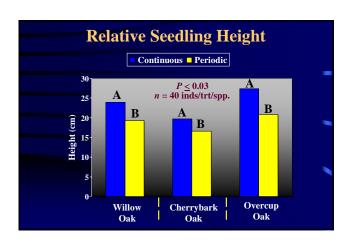


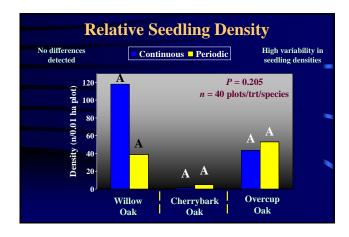












## **Summary of Seedling Demography Results** and Management Recommendation

Flooding GTRs periodically during winter may increase seedling survival, but seedling density and growth height may not be benefited by this strategy

Managers may wish to flood GTRs periodically during winter to more closely emulate natural hydroperiods and enhance survival of desirable oak seedlings

## Potential GTR Management Scheme (Noxubee National Wildlife Refuge) Emulate Natural Hydrology!!! 3 GTRs at NNWR 3 Months (December-February) Sequentially Flood & Drain 1 GTR/month Habitat Provided Continuously & Flood Duration Minimized Additional MS GTR Results Invertebrate Biomass Acorn Availability Watterfowl Use Sherman et al. 1995, Wehrle et al. 1995



