

Nanticoke Restoration Plan

Restoration and Protection in a Watershed Context



Amy Deller Jacobs

Delaware Department of Natural Resources and Environmental Control





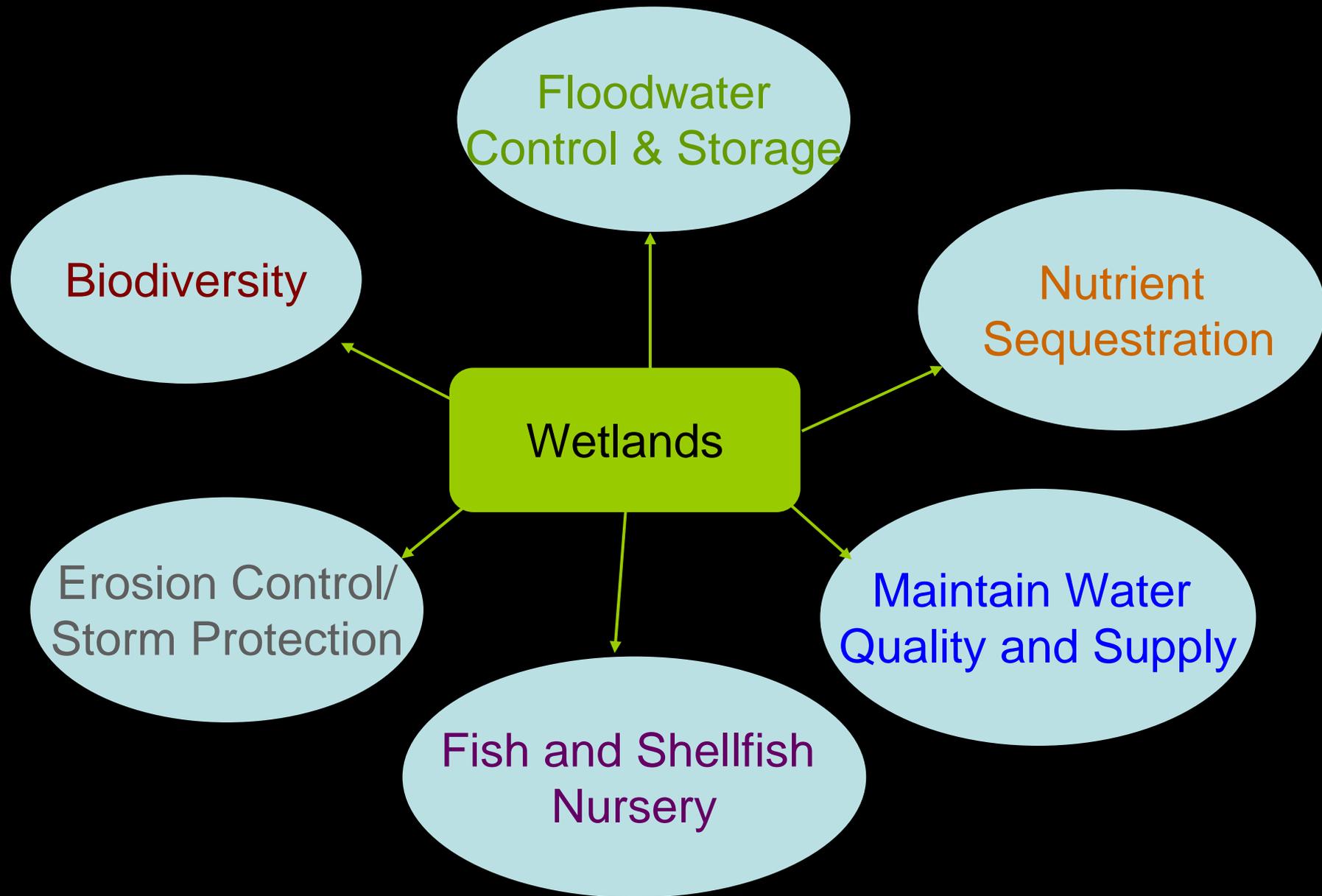


N 38° 46.922' W 075° 17.889'

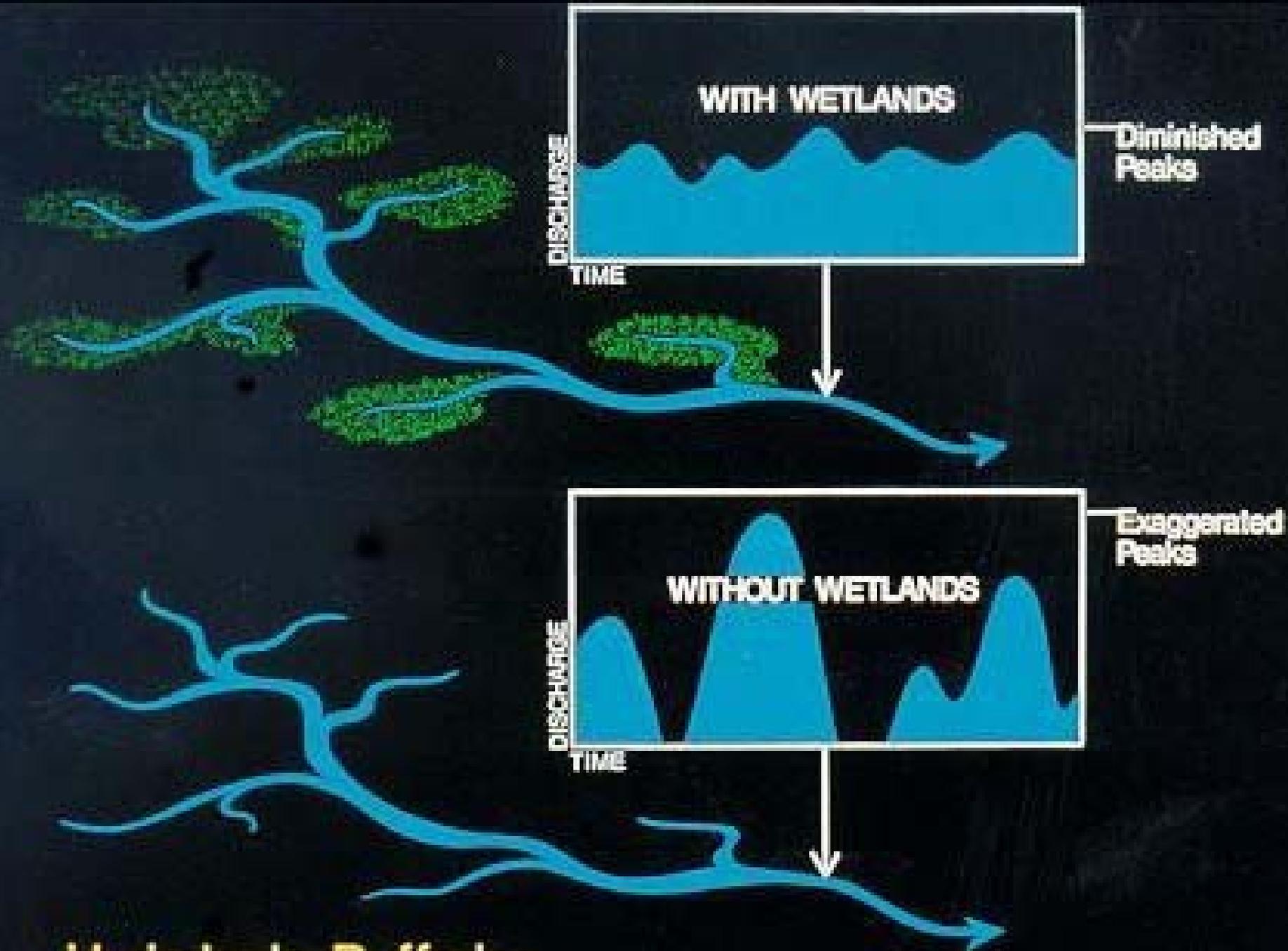
928 ft

06/21/2007





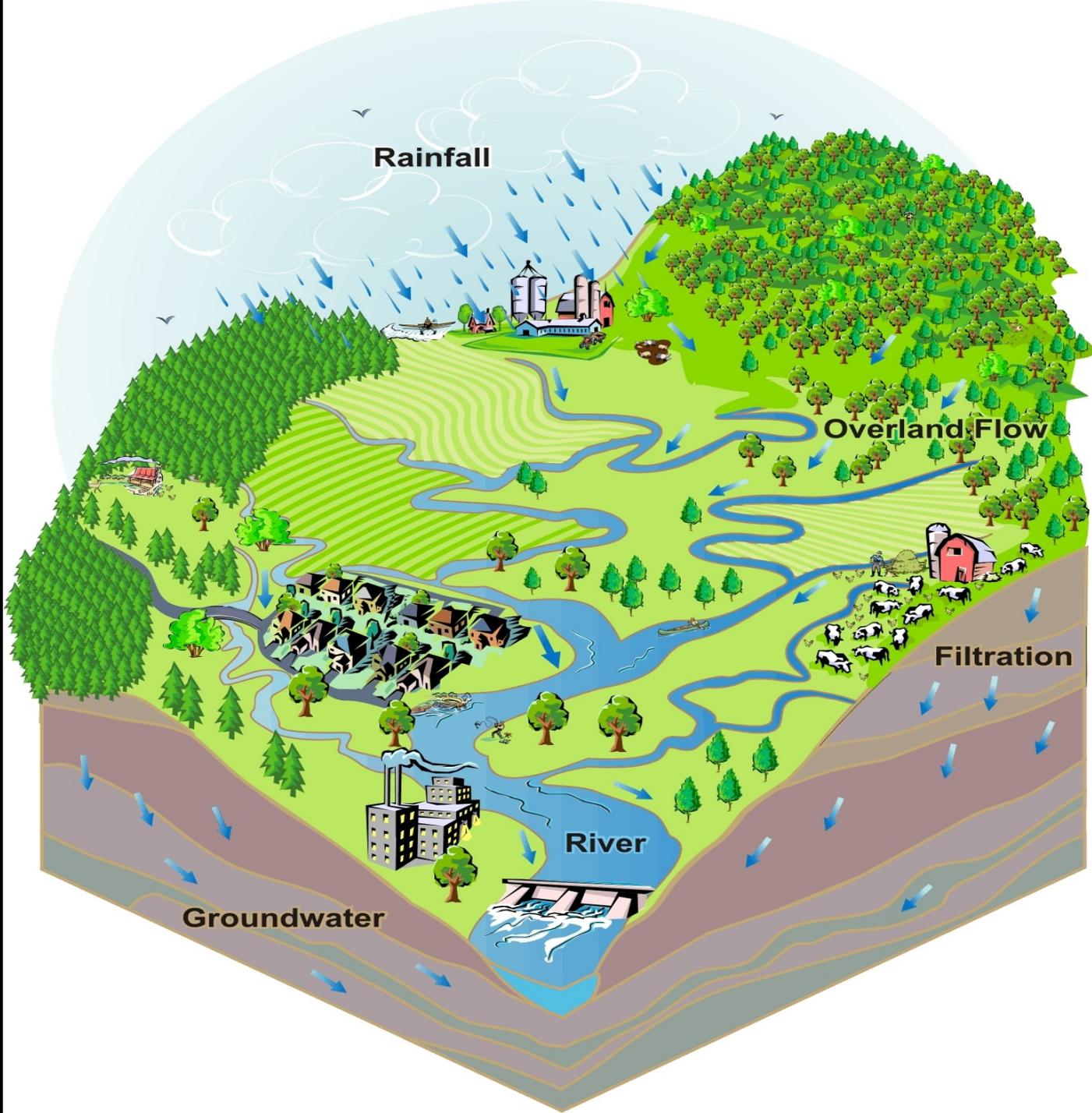




Hydrologic Buffering



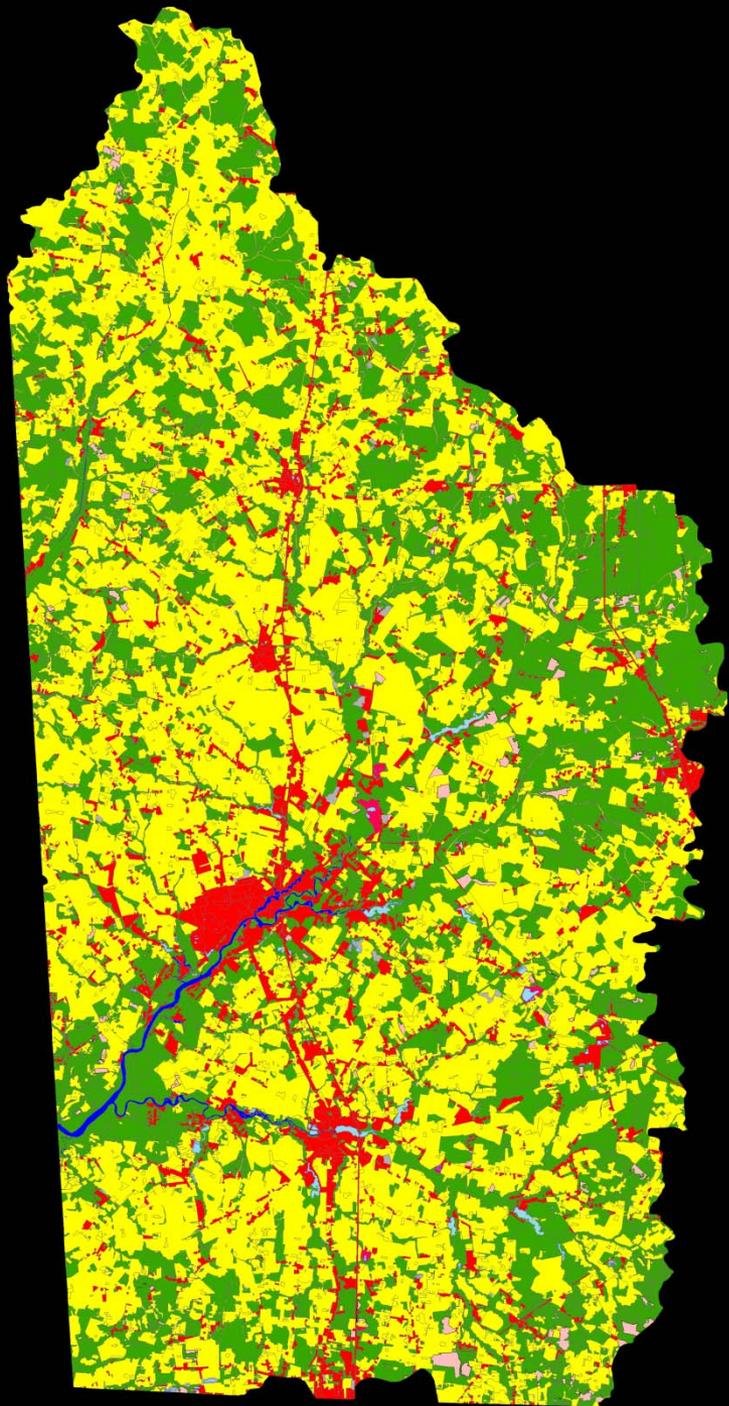


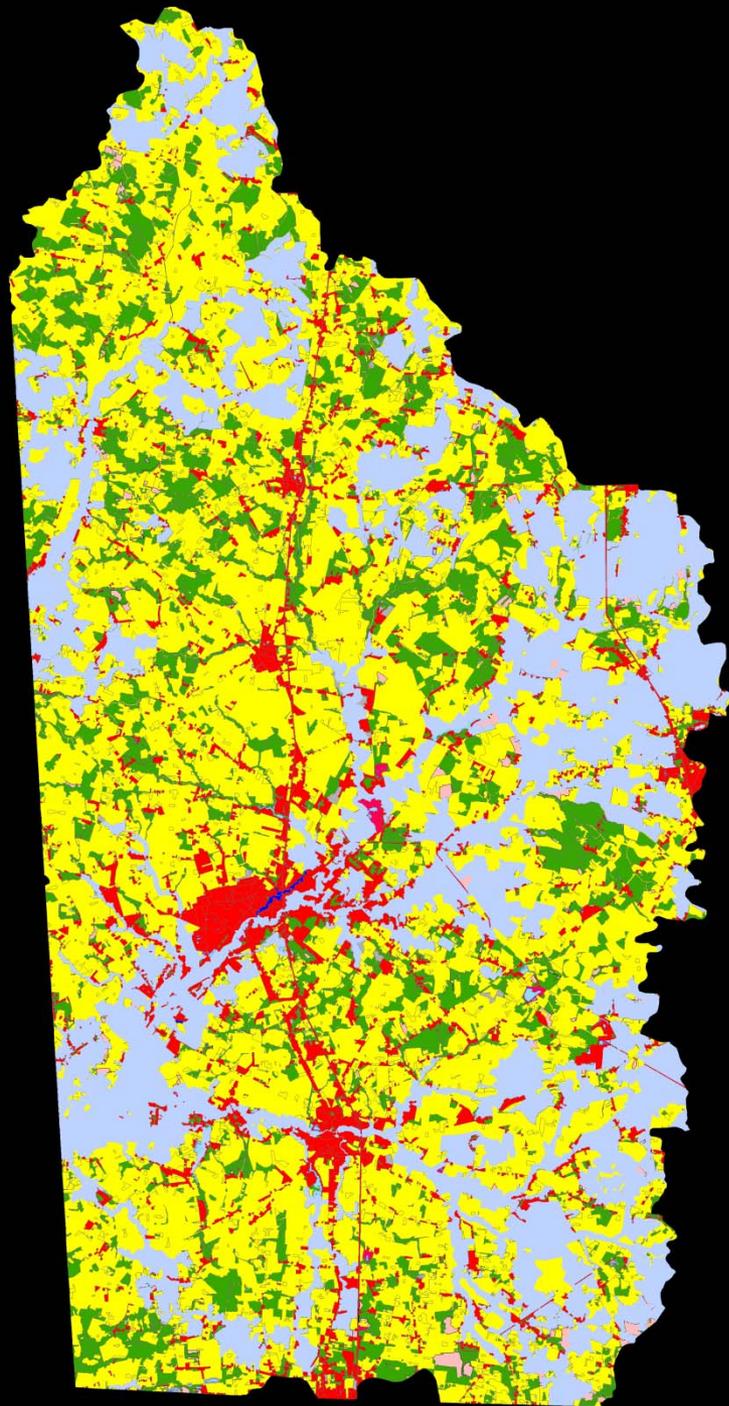


It is cheaper to protect than restore

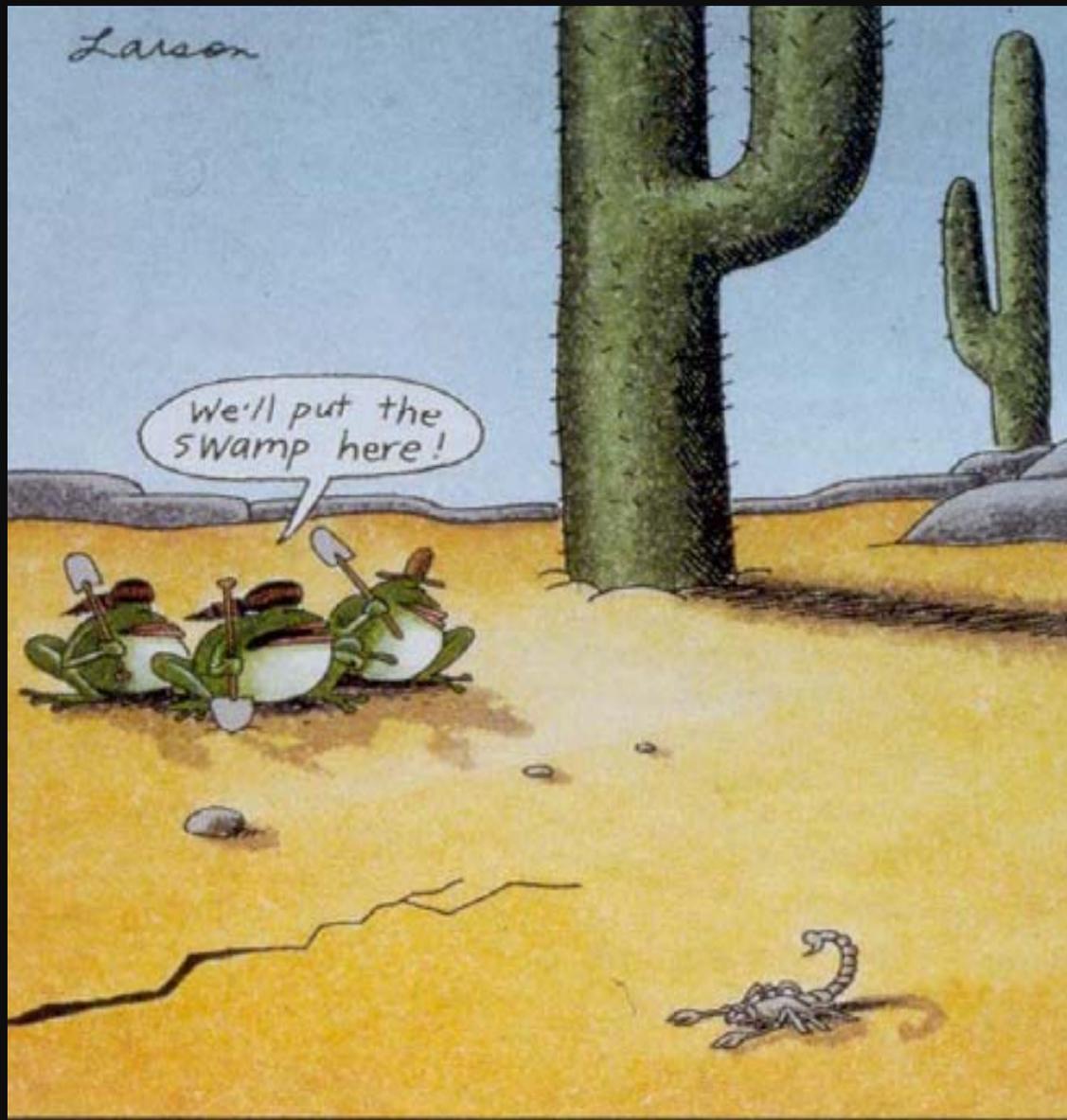
We need a plan

We are doing this to maintain and improve the
benefits that people receive from our natural
resources





Larson



Frog pioneers

Nanticoke Watershed Restoration Plan

Nanticoke River Watershed Restoration Plan



Developed by:
The Nanticoke Restoration Work Group

May 19, 2009

Stakeholders



30 people

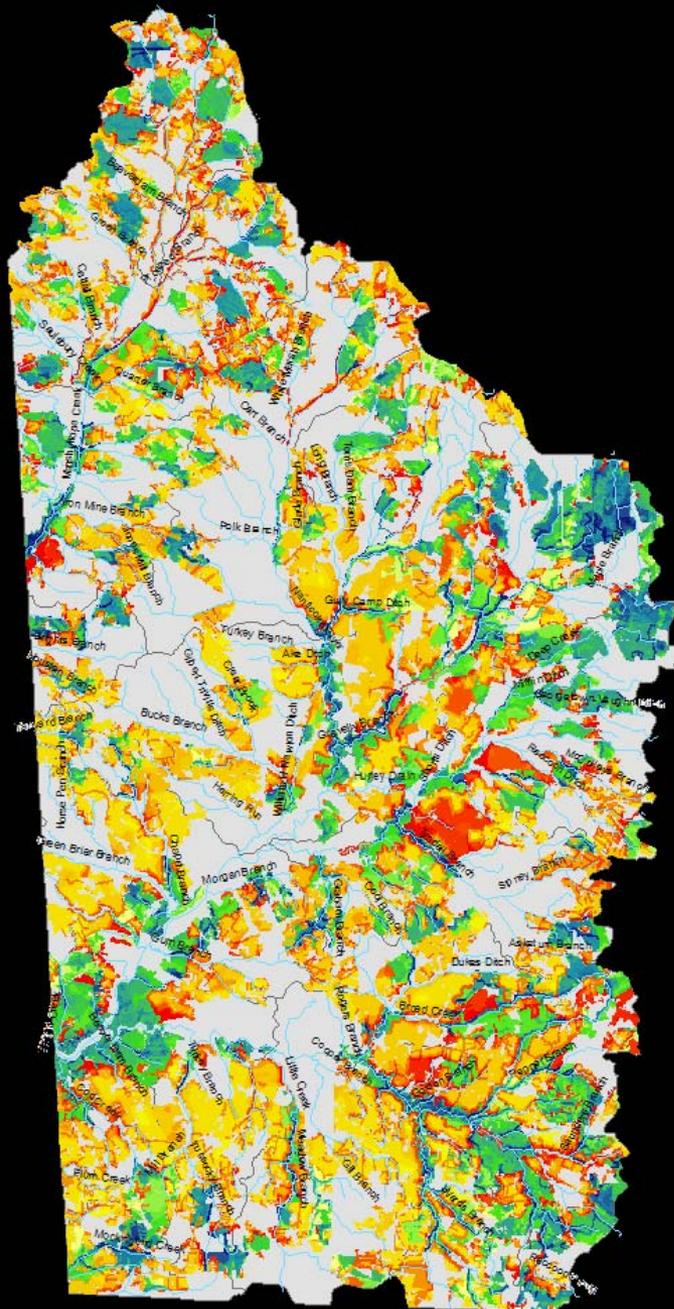
Representing 17 organizations

Goal

Focus restoration activities in the watershed to improve and maintain the ecological integrity of species and habitats and the functions and services that they provide

Conservation Targets

- Enhance and Enlarge Headwater forests
- Restore channelized streams
- Establish riparian and tidal wetland buffers



Legend

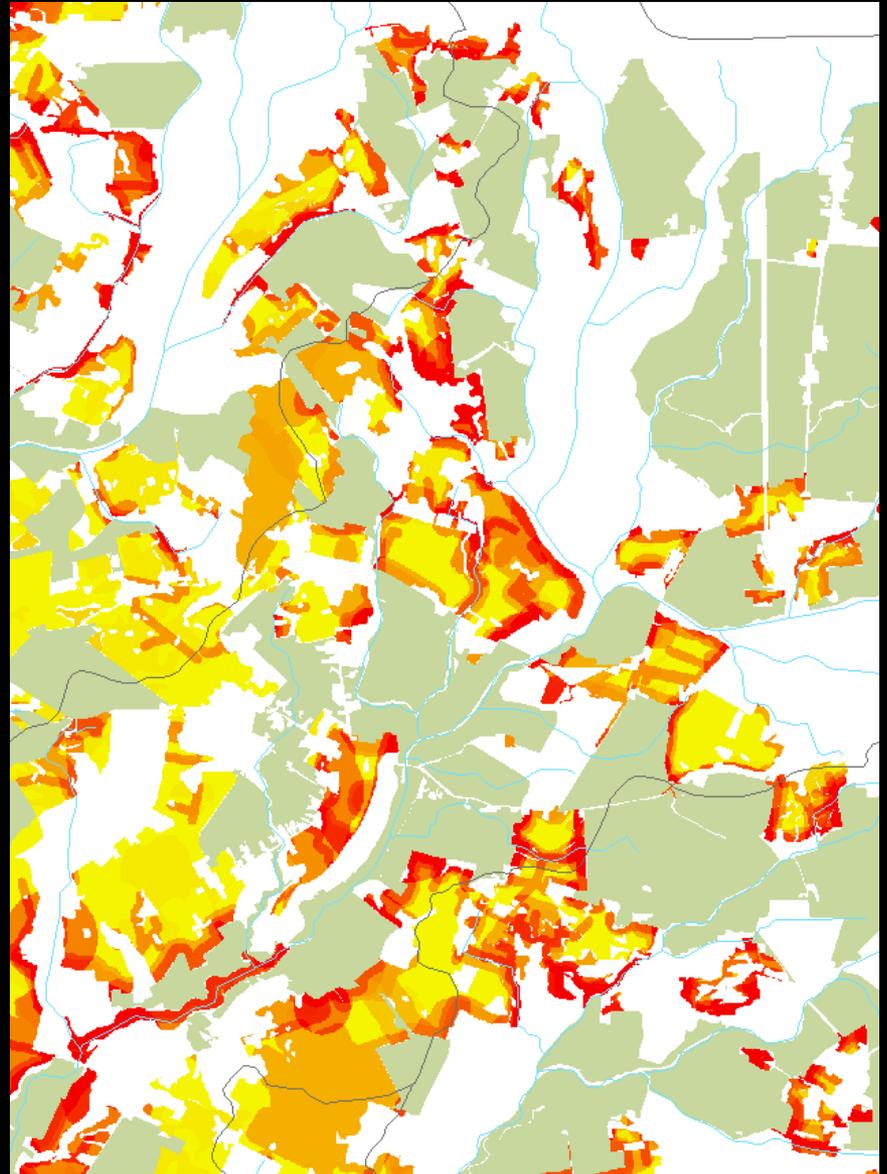
-  Nanticoke Streams
- Enhancement Forest Blocks WQ2 Value**
-  High : 61
-  Low : 2
- Re-establishment Forest Blocks WQ2 Value**
-  High : 50
-  Low : 0
-  Nanticoke Watershed



Prioritizing

- Delaware Ecological Network
- Wildlife Action Plan
- Heritage Information
- Ground Water Sources
- Gap Analysis
- Soils
- Flood Zones
- Impaired Waters
- Wetland Condition

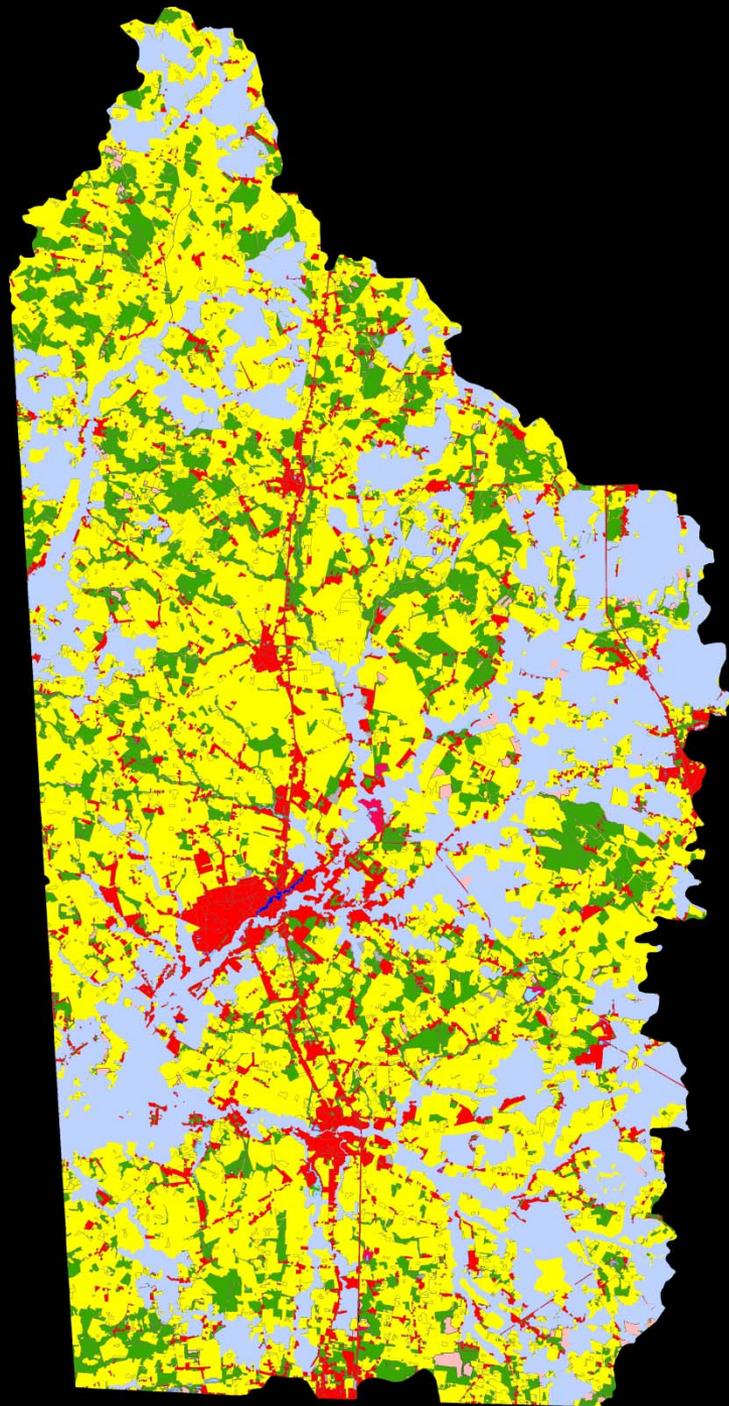
Program Goals





Private Lands Project

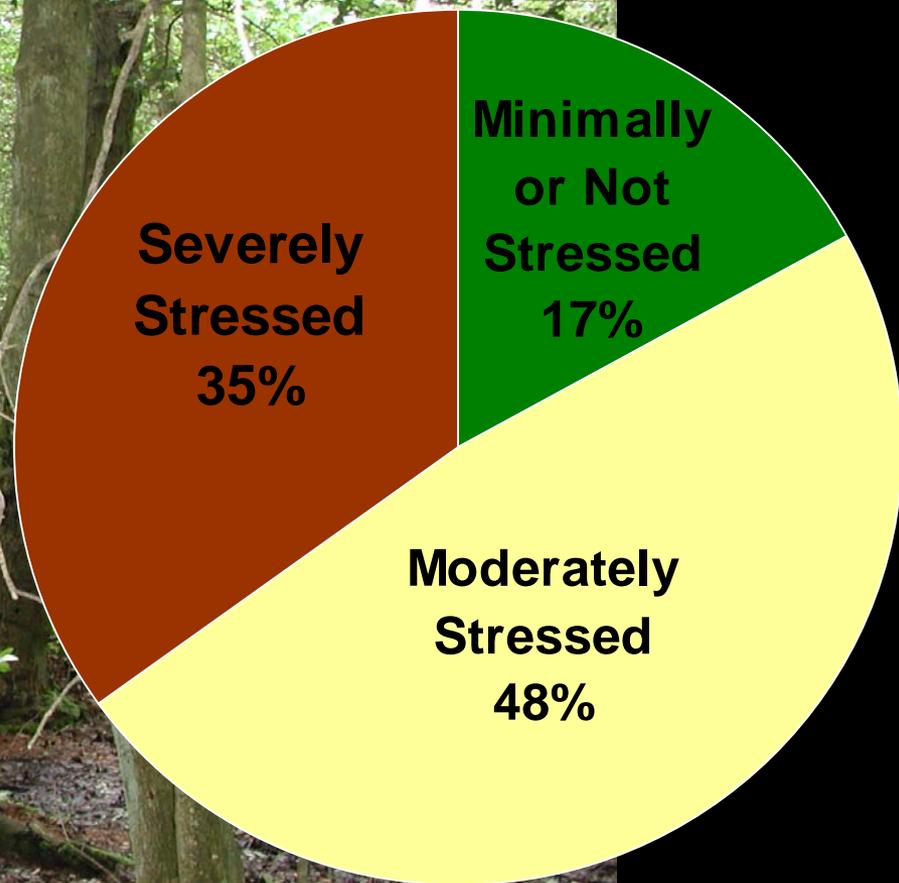
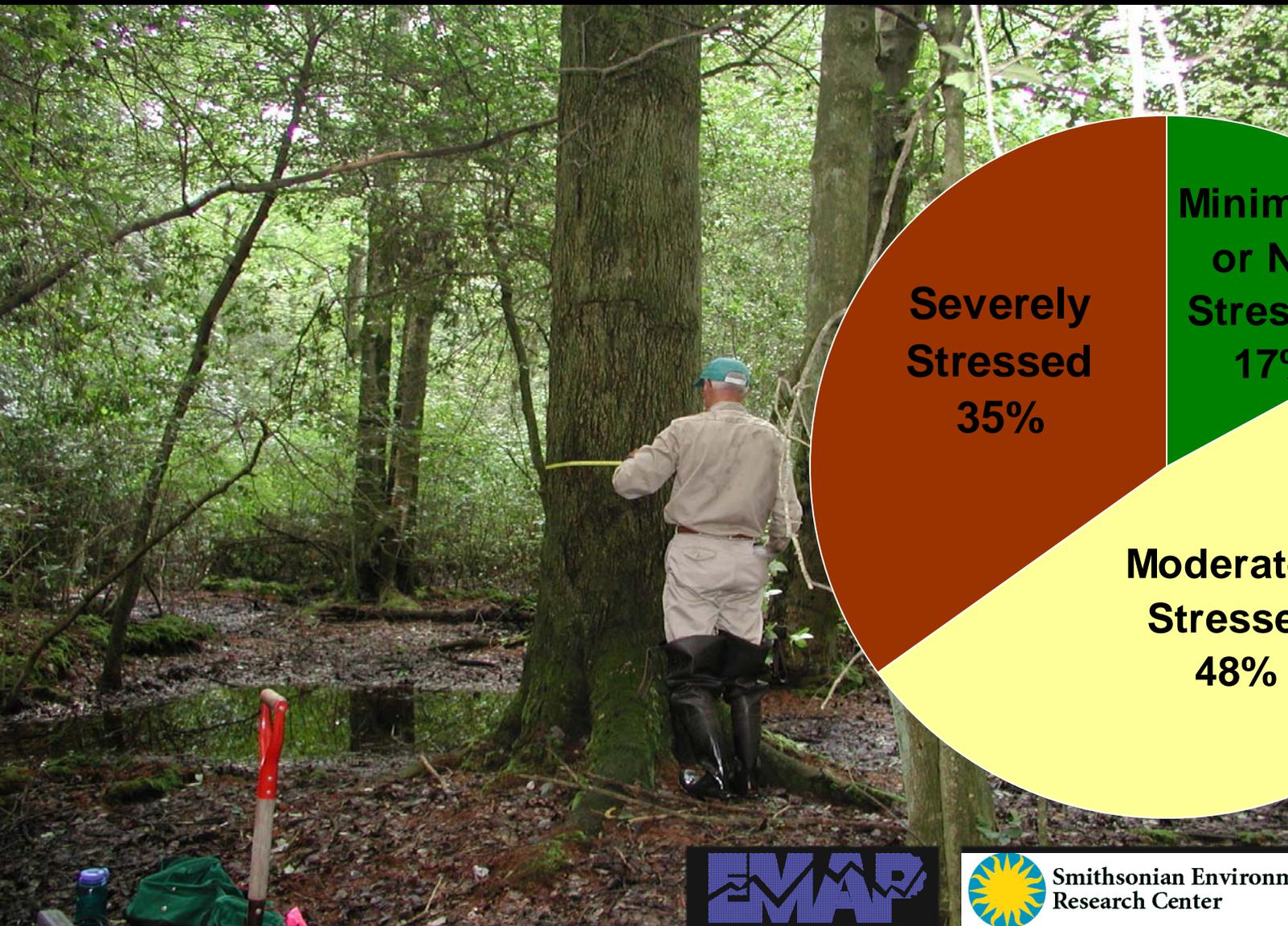






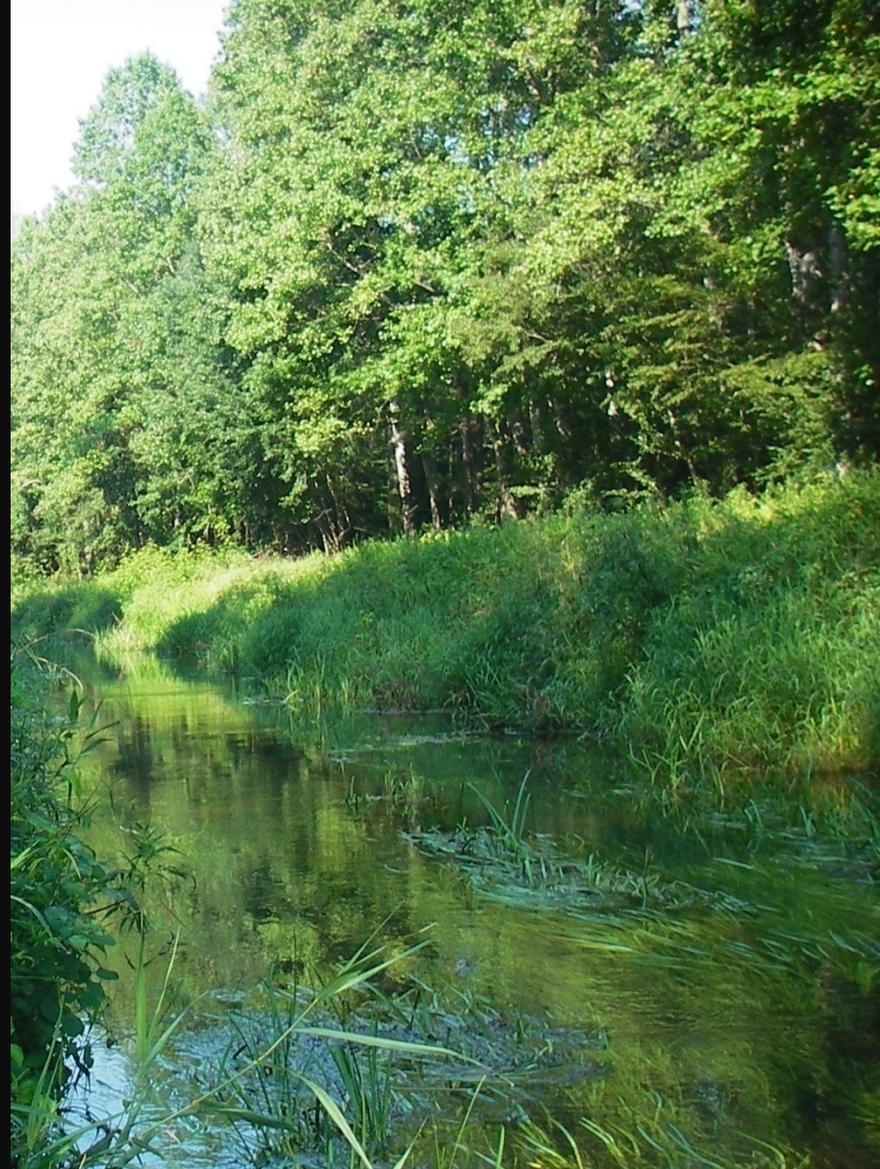


Condition of Nontidal Wetlands in the Nanticoke River Watershed



Smithsonian Environmental
Research Center





80% of natural streams have been channelized

57% had filling



75% of flats had forestry activity within 50 years
27% converted to pine plantation

Nanticoke Process

1. Identified stakeholders
2. Established goal of plan
3. Identified conservation targets
4. Determined opportunity
5. Prioritized areas for each conservation target
6. Landowner outreach and implementation

