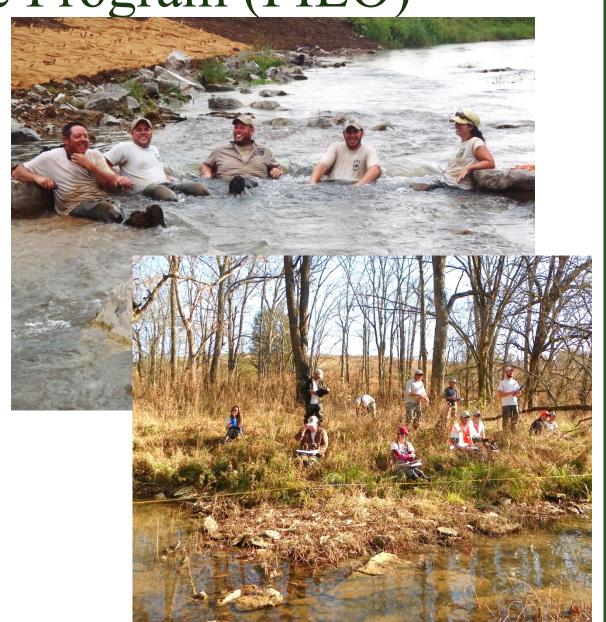
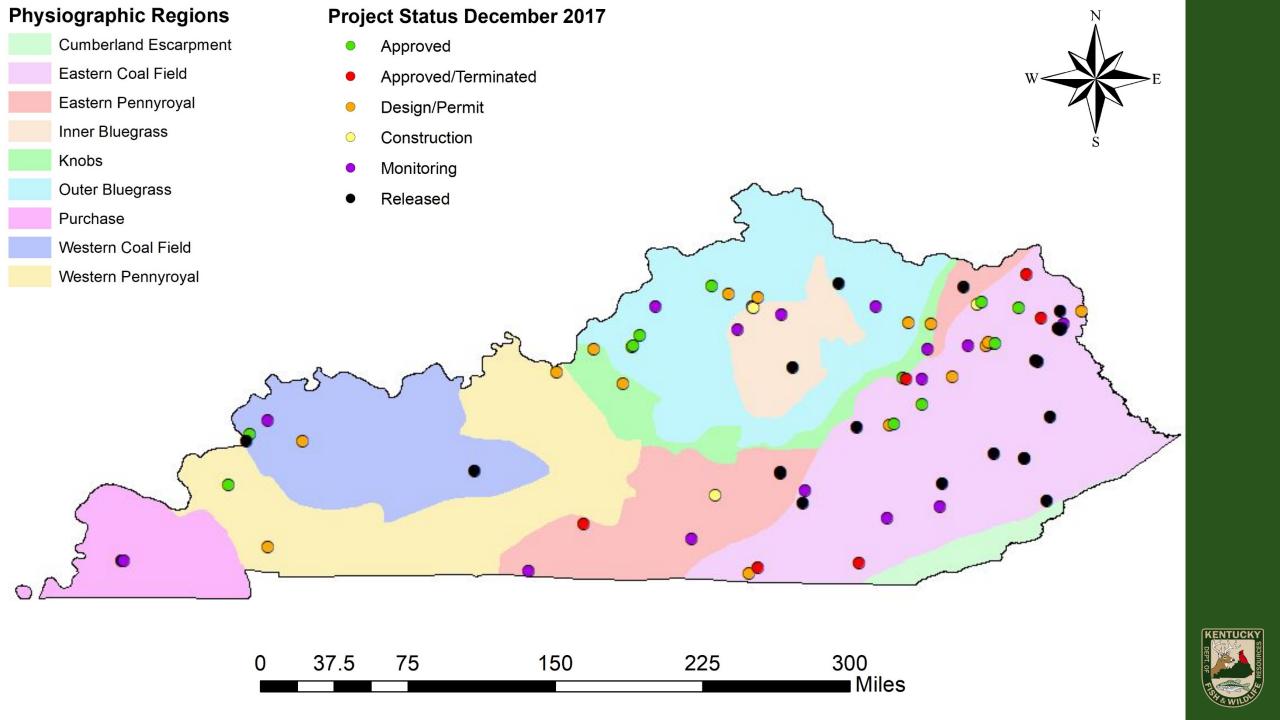


KY In-Lieu-Fee Program (FILO)

- 2000: Fund established by KY Legislature
- Staffing
- Partnerships
- Mitigation
 - 900,000 linear feet of stream
 - 70 wetland acres
 - 92 projects approved
 - 35 completed
 - 6,500 acres of land acquired







The Early Years

- Small easement sizes
- Project length
- Placement in watershed
- Landowner selection and communication
- Incompatible adjacent land use
- No remedial action plan in-house
- Etc.















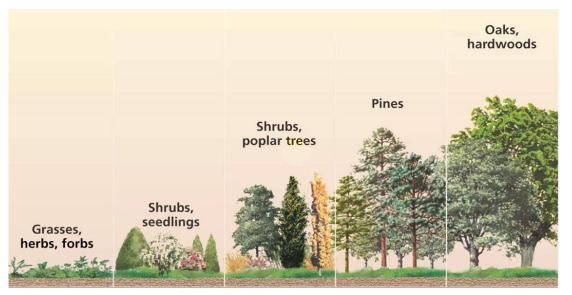






Vegetation

- Issues:
 - Survival and Growth
 - Expectations
- *Solutions*:
 - Succession Theory
 - Proper Handling and Planting
 - Proper Soil Management



Time -





Structures

- Issue: Failure, says who?
 - Landowner
 - Regulatory
 - FILO
- Solutions:
 - Experience
 - Training
 - Data





Structures

- Issue: Structure design
 - Type
 - Size
 - Location/Frequency
- Solution: Increased design review
- Issue: Improper installation
 - Erosion control blanket
 - Sills
 - Footers
- Solution: Increased construction oversight







Design

- Issue: Planform
 - Location in Valley
 - Valley Condition
 - Flow Type
- Solution: "Micro-design" Approach
 - Expensive
 - More Natural
 - In-Stream Habitat Diversity





Sediment

- •Issue: Too Much or Too Little
- •Solutions:
 - In-depth Sediment Studies
 - Appropriate Design
 - Risk Assessment
 - Appropriate Success Criteria









Lessons Learned

- Time-lag of learning
- Construction oversight is key
- Stakeholder education
- Working group
- Take more data
- Monitoring and maintenance staff





