AGFC Lake Poinsett Renovation

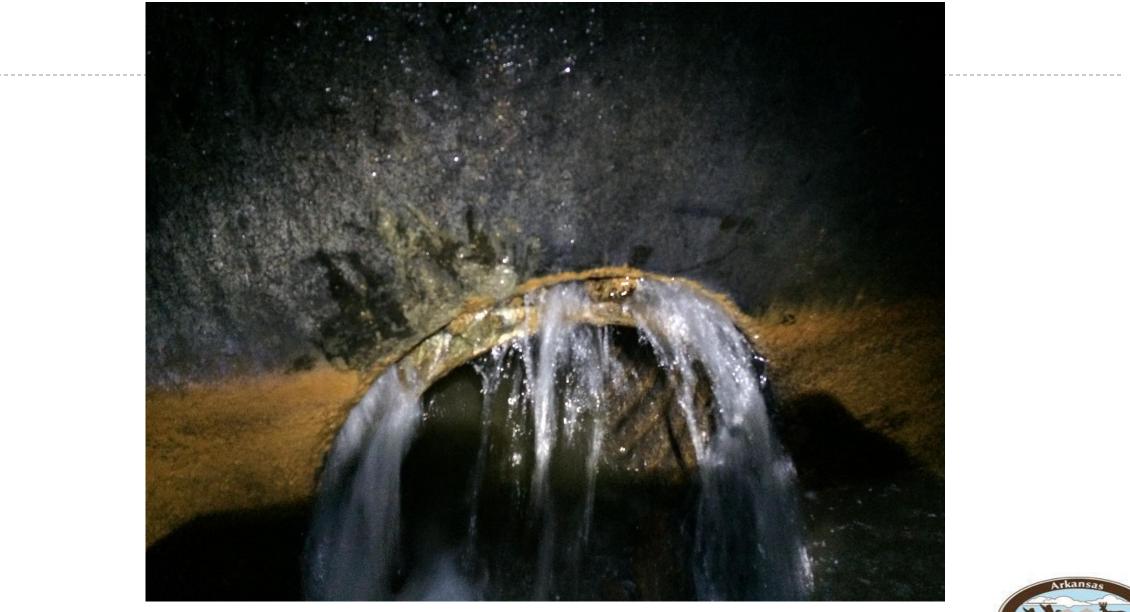
Erosion





Erosion onto property owner











Public Meetings in May/June 2017

Lake Drained July 10, 2017

5 year plan

3 year plan to repair lake; WCS, shoreline, fish habitat

Year 4 Stock prey species
Vear 5 Stock predator species

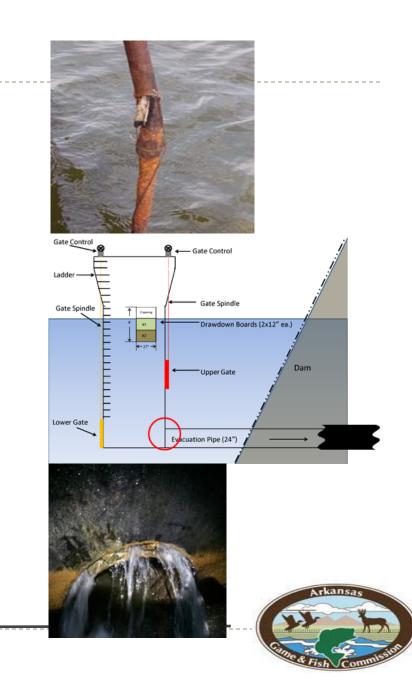
Year 5 Stock predator species



Project Background 2006 - Present

Major Problems with Lake Poinsett

- Severe shoreline erosion
- High Risk Dam
- Outflow structure and apron compromised
- Water Control Structure was inoperable
 - Upper gate stem completely broken
 - Lower gate questionable
- Evacuation pipe compromised
- Emergency Spillway needed regrading, widening and repair



Scope and Reminders

 Estimated \$80 Million in needed repair to dams and Green Tree Reservoirs

Currently, 15 other dams need serious work

□ Lake Poinsett Project was a priority to the Commission.



Construction Progress

Kevin Mullen - Chief of Operations



Analysis of Dam and Design of Repairs

- Silver Jackets coordination
 - Arkansas Natural Resources Commission Hydrologic and Hydraulic Analyses
 - USGS Frequency-Domain Electromagnetic Induction
 - USACOE Watershed/Flood data
- Pickering Firm



Phase I Construction - Water Control Tower and Spillway Renovations



Problems with Lake Poinsett

- Water Control Structure Needs
- Outlet pipe deterioration
- Outlet Structure Damage
- Spillway Modifications
- Shoreline Erosion



Spillway expansion



Pipe Sleeve





Rain delays



Tower Foundation





Work moving up



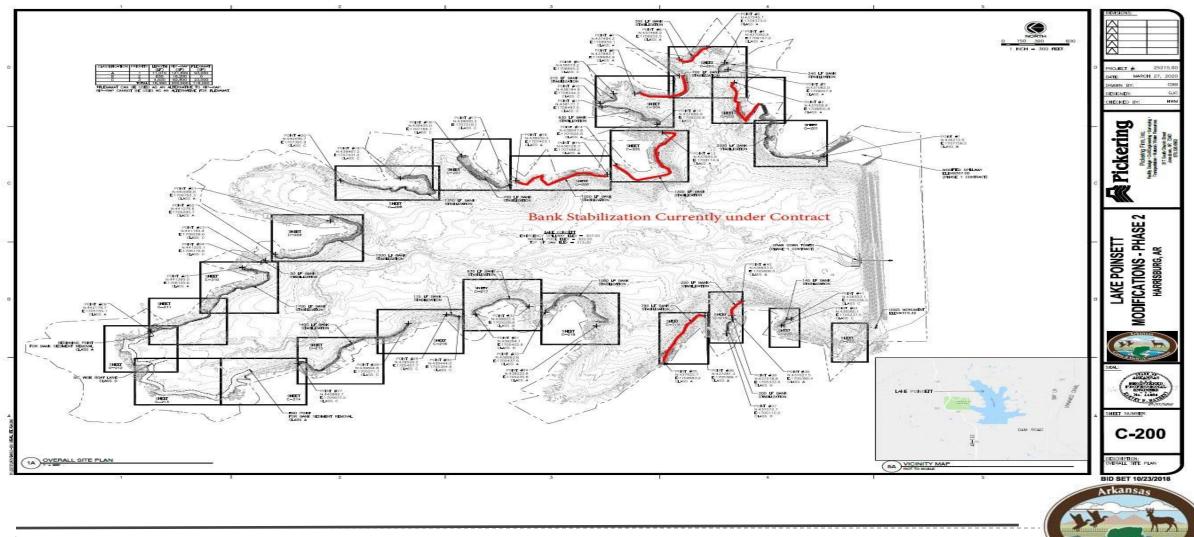
New Control Tower and Spillway are Complete







Phase 2 - Bank Stabilization



Site Preparation











Flexamat



Point 21-22 Before





Point 21-22 After

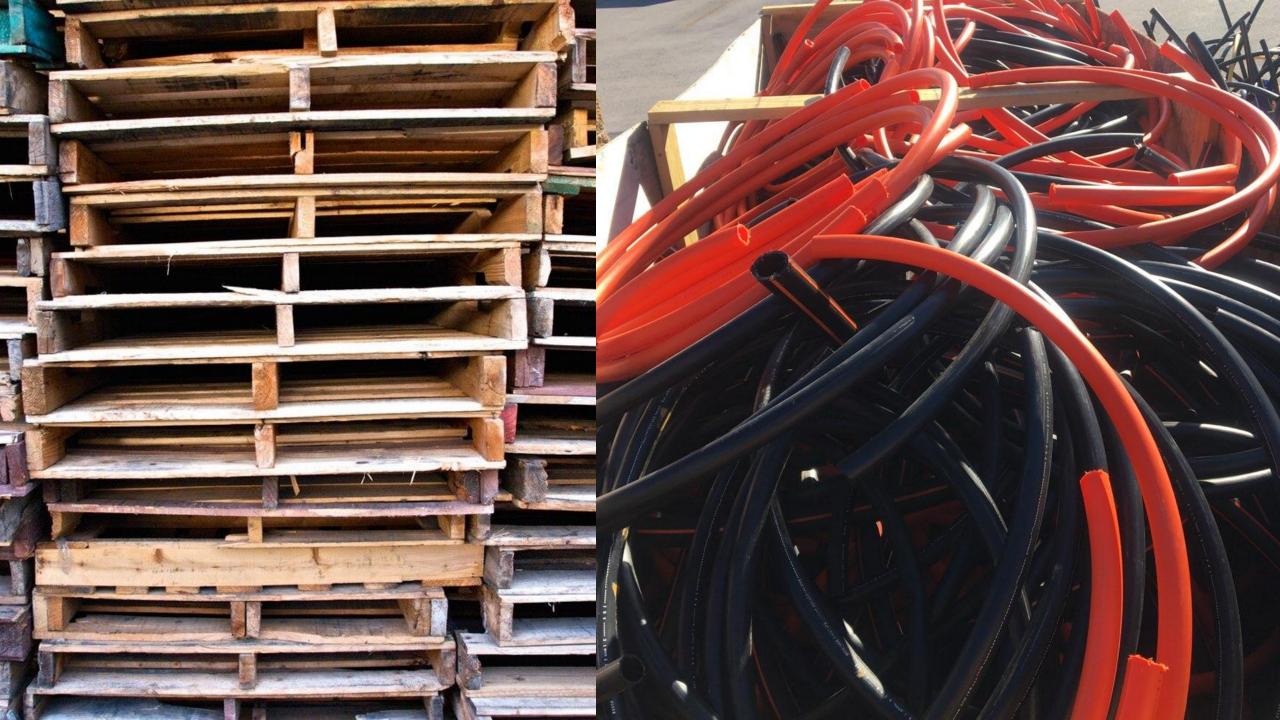




Fish Habitat Restoration

Brett Timmons - District Fisheries Supervisor

















Stocking

Brett Timmons - District Fisheries Supervisor



Spring/Summer 2021 Bluegill Redear Sunfish Golden Shiners Threadfin Shad Fathead Minnows





Catchable Channel Catfish Yearling Channel Catfish

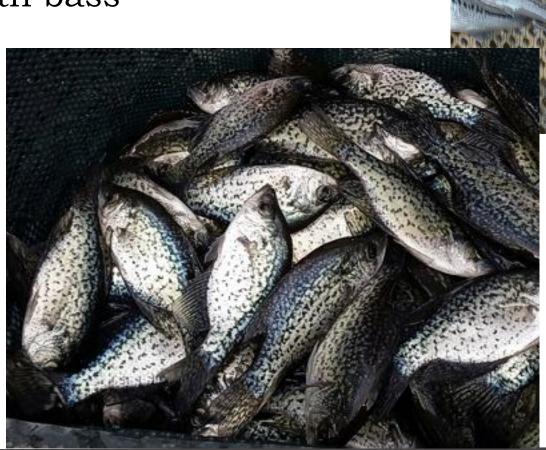




Stocking Predators

Spring/Fall 2022 Largemouth bass

Crappie







Thank you

- Currently, Poinsett is the most expensive lake repair to date totaling \$3,180,020 to date.
- Analysis and Design \$385,200
- Phase I Construction -\$1,241,880
- Phase 2 Construction \$1,481,655
- Habitat and access to date \$71,285
- What is your experience with Flexamat long term?
- Grant opportunity for dam and lake restoration?

