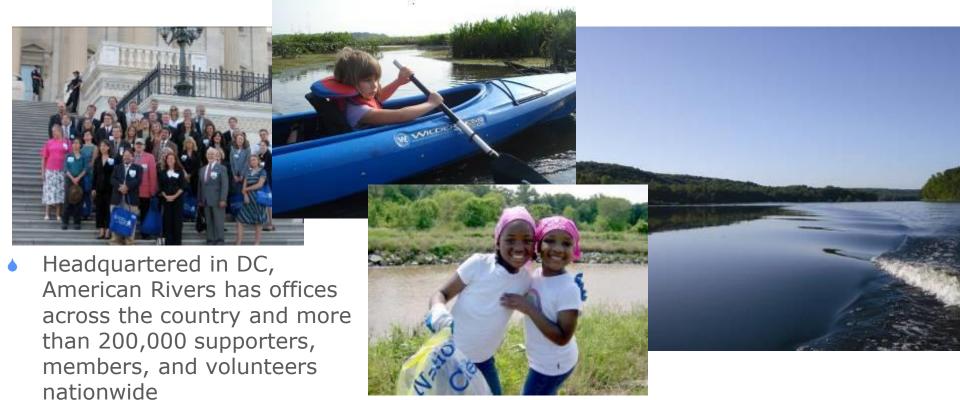
Policy Barriers and Solutions for Restoring Row Crops to Floodplains

Brad Gordon, PhD American Rivers, Restoration Program Natural Floodplains Functions Alliance May 2019





 Founded in 1973, American Rivers protects wild rivers, restores damaged rivers, and conserves clean water for people and nature.

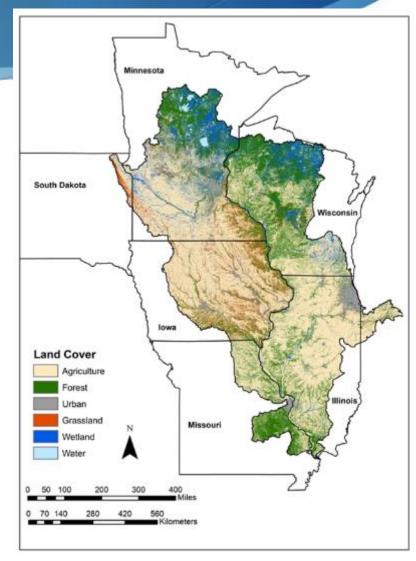




Upper Mississippi River Basin Floodplain Restoration

Presentation Overview:

- Summarize current projects in the basin
 - Nutrient Removal
 - Floodplain Easements
 - Croplands in Floodplains
- Describe drivers and barriers





Restoring Functional Floodplains











Restoring the Multiple Benefits of Floodplains

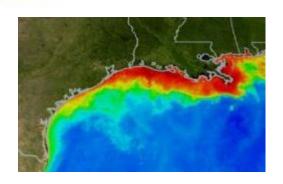




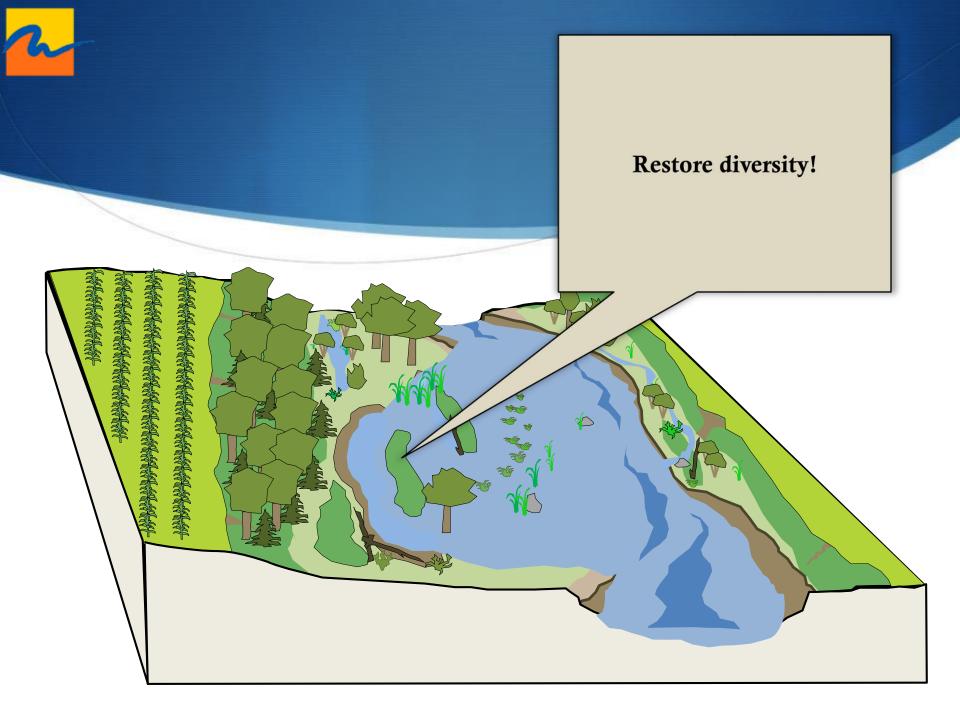
Research Project #1 Nutrient Removal

Completed a literature review on nutrient removal in floodplains

- Goal: direct nutrient removal funds toward floodplain restorations
- Barrier: uncertainty in how much nitrogen and phosphorus floodplains can remove
- Driver: states are trying to spend money on the best practices while updating their strategies

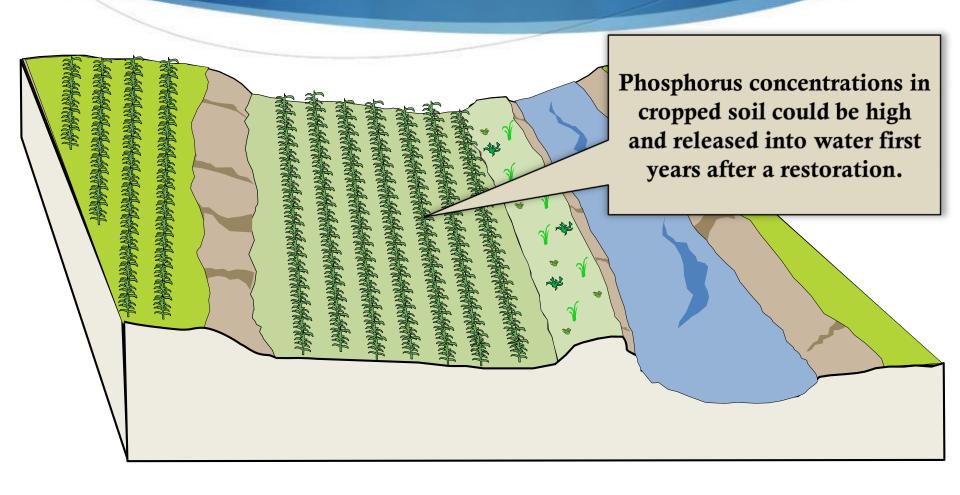


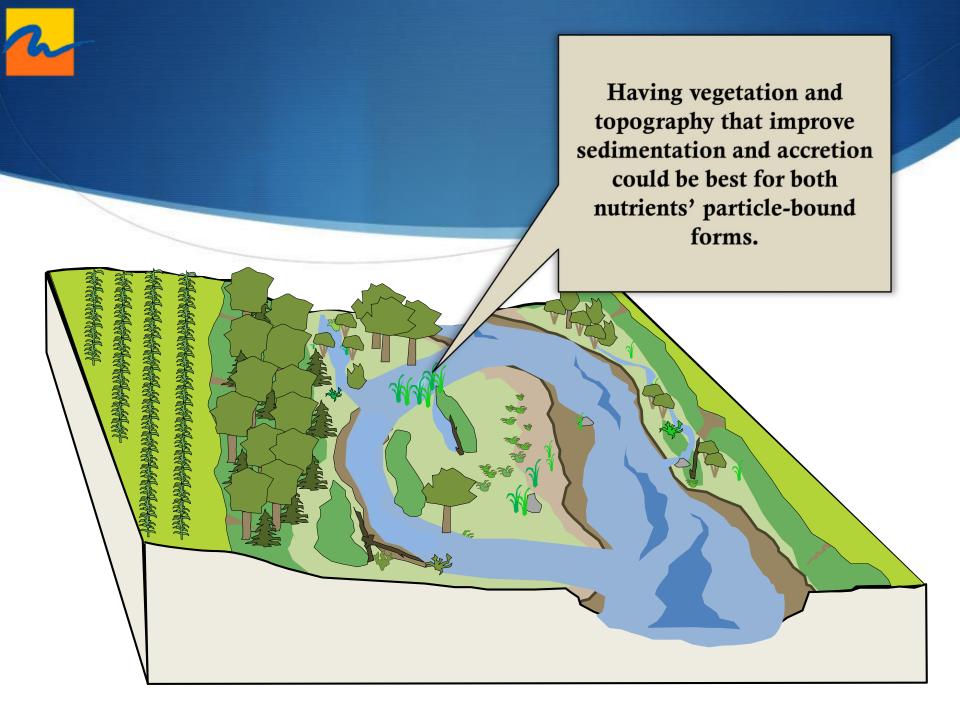






Legacy Phosphorus







Restoration Project

- Goal: restore thousands of flood-prone acres to natural floodplain
- Barrier: funding is difficult to access for easements or land purchases
- Driver: farmers are tired of the repetitive flooding and are open to restoration





Restoration Project

- Best easement funds for this project
 - ACEP- Wetland Reserve Easements
 - CREP Wetlands
 - FEMA disaster mitigation
 - EWP Floodplain Easements



United States Department of Agriculture

Natural Resources Conservation Service

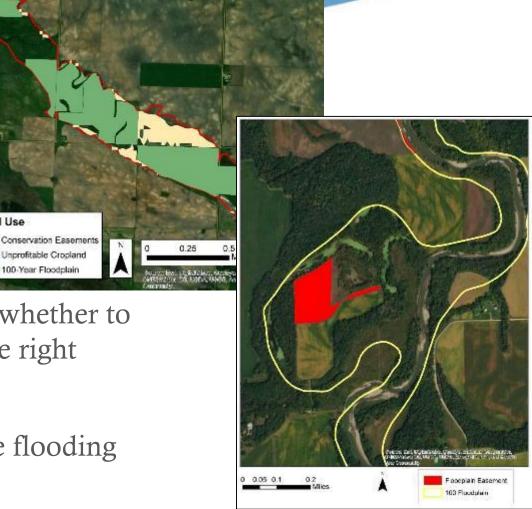


Land Use

Goal: help landowners dealing with flooding and reconnect isolated floodplain easements

• Barriers: it's difficult deciding whether to restore floodplains and find the right program

Driver: farmers are tired of the flooding

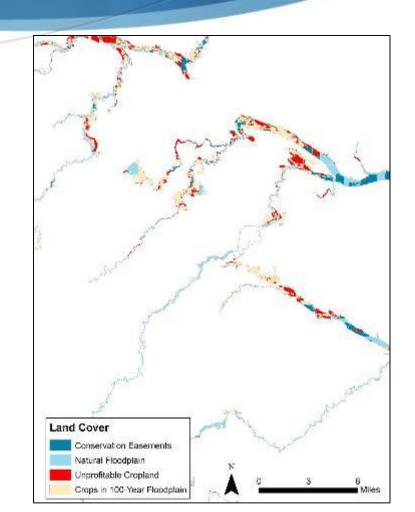


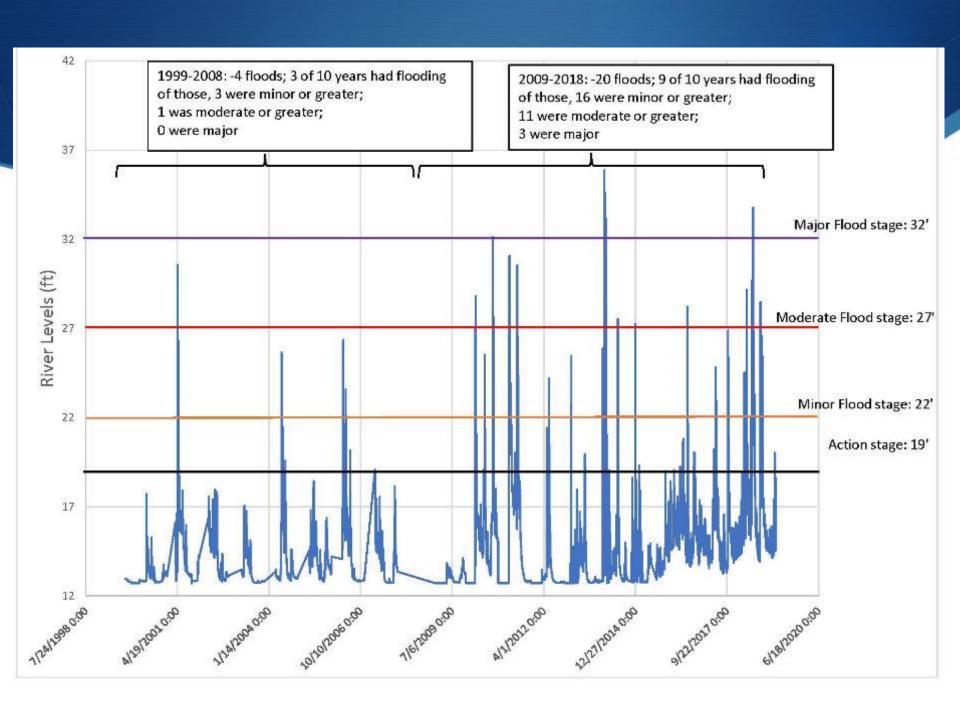


Research Project # 2 Farming in Floodplains

Preliminary Results:

- In 2018, 50% of corn and 16% of soybeans grown in floodplains lost the farmer money assuming farmer ownership.
- ∼99% of rented floodplain cropland lost the farmer money



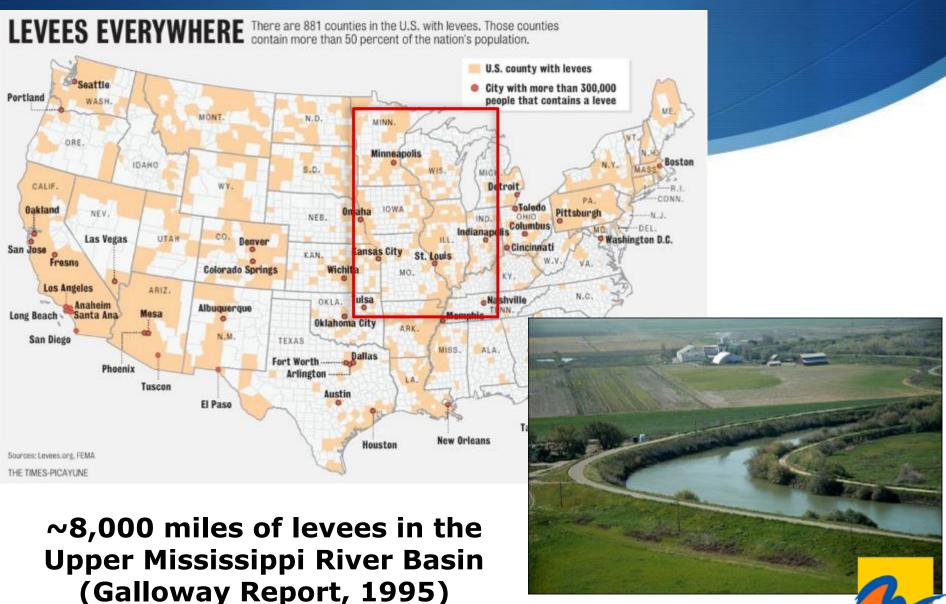






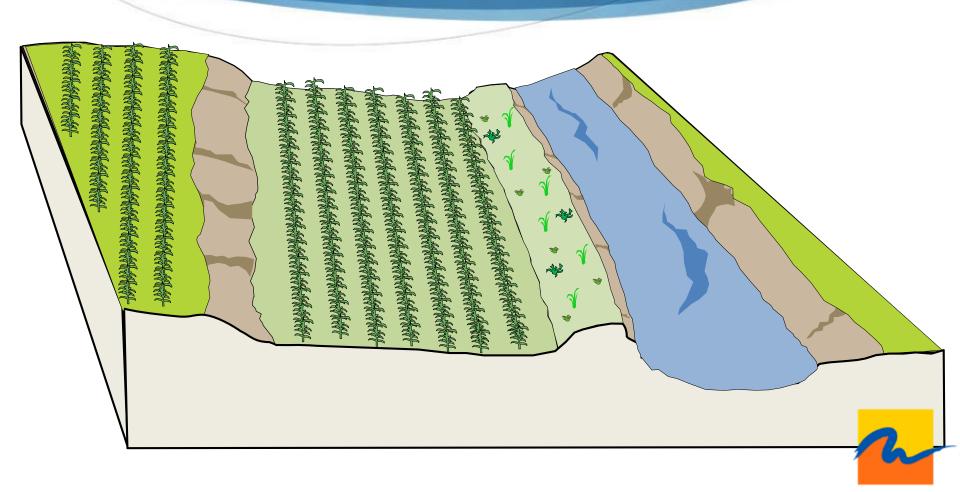


Floodplain Disconnection





What should we restore for better nutrient removal?



What should we restore for better nutrient removal?

