

# NATURAL RESOURCES CONSERVATION SERVICE



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### Outline

- NWQI Update
- NWQI Edge of Field Monitoring Update
- WRP/WRE



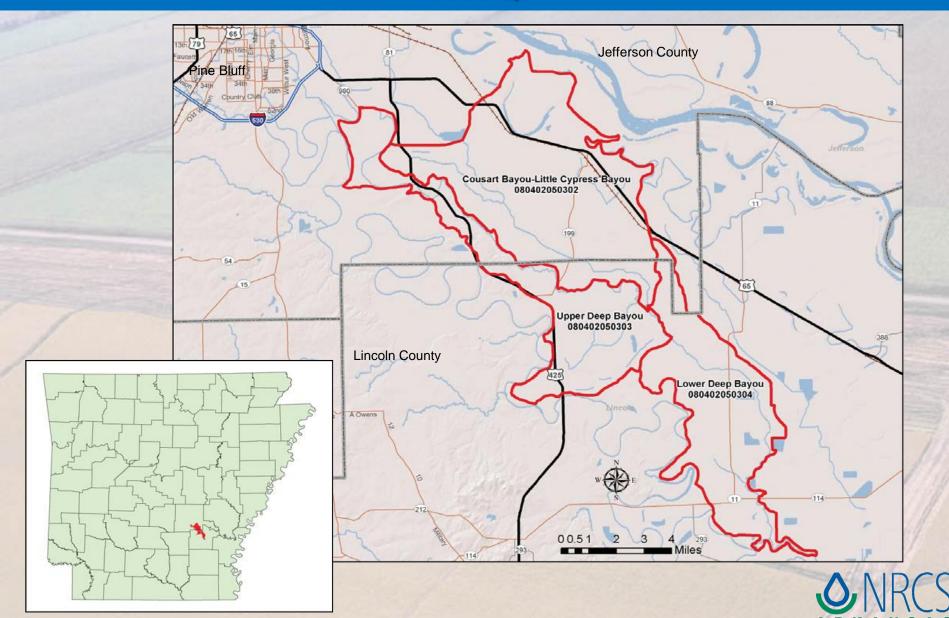


# **NRCS Programs and Water Quality**

- EQIP: Environmental Quality Initiative Program
- NWQI: National Water Quality Initiative
- MRBI: Mississippi River Basin Initiative
- MRBI-WREP: MRBI-Wetland Reserve Easement Program
- RCPP: Regional Conservation Partnership Program
- ACEP-WRE: Agricultural Conservation Easement Program – Wetlands Reserve Easement
  - Formerly WRP: Wetlands Reserve Program
- CSP: Conservation Stewardship Program



# **NWQI**



### **NWQI** Update

- Since 2012:
  - Obligation: \$5.2 million
  - 176 contracts
  - Treated Acres: 28,431
  - 2 Edge of Field Monitoring sites



### NWQI Practices Installed to Address Water Quality

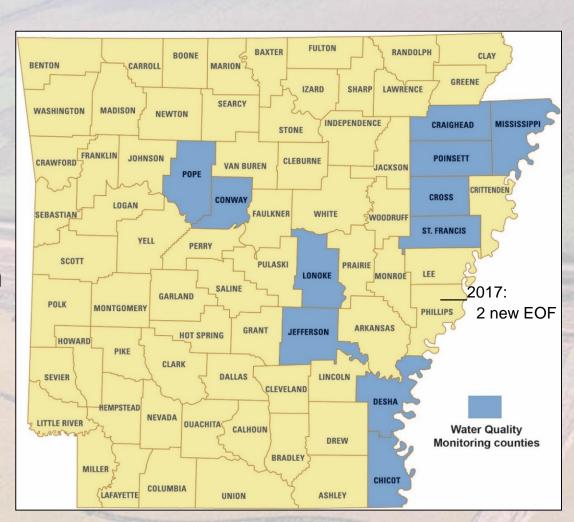


- Cover Crop: 3,086.3 ac
- Conservation Cover: 7.3 ac
- Conservation Crop Rotation: 1,760.5 ac
- Irrigation Pipeline: 30,286 ft
- Irrigation Water Management: 25,491.1 ac
- Nutrient Management: 3,086.3 ac
- **Residue Management:** 
  - No Till: 770 ac
  - Mulch Till/Ridge Till/Seasonal Till: 17.818.2 ac
- Vegetative Barrier: 1,320 ft
- Streambank & Shoreline Protection: 37 ft
- \*\*working on total paid on each practice



### Water Quality Edge of Field (EOF) Monitoring

- 23 sites since 2012
  - 13 active
  - 8 completed
  - 2 canceled
- Treated acres: 8,791.8
- Obligated: \$3.38 million
- Added benefit
  - 20% increase in irrigation efficiency observed



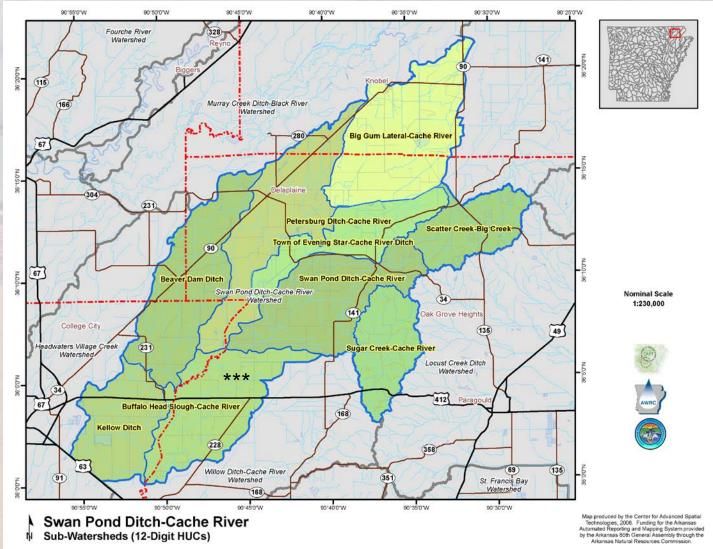


### **NWQI** Pilot Program

- Started in 2017
- Year 1: HUC12 watershed-level resource assessment
- Year 2+: Funding for implementation of conservation practices
- FY2017: Buffalo Slough-Cache River Watershed
  - Located primarily in Greene county but includes the eastern part of Lawrence county
  - Still working on assessment
- Proposed FY2018: Greasy Creek-Strawberry River Watershed
  - Fulton county

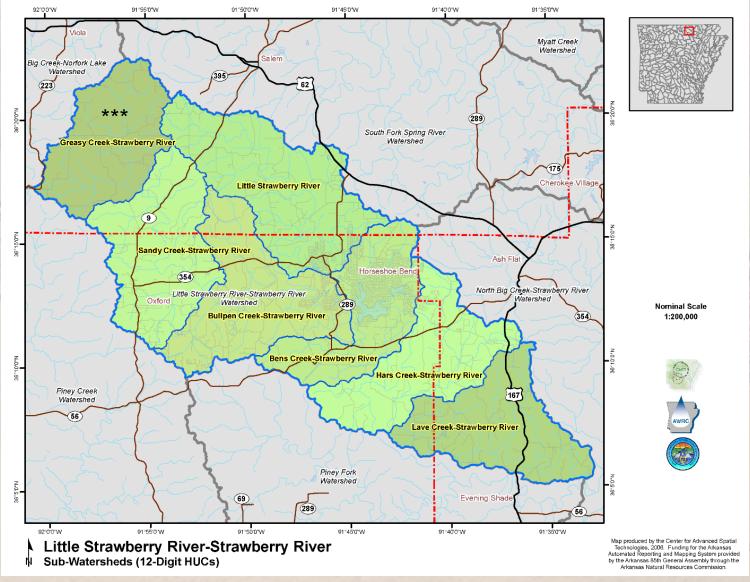


### **Buffalo Slough-Cache River Watershed**





# **Greasy Creek-Strawberry River Watershed**





### **ACEP-WRE and WRP**

Easements 1992-June 2017

- Number: 655

- Acreage: 250,842

FY17 ACEP-WRE

- Number: 17

- Acreage: 11,820

\*Obligation: \$33.7 million

FY2016 ACEP-WRE

- Number: 18

- Acreage: 4,830

\*Obligated: \$14,372.31

FY2015 ACEP-WRE

Number: 7

Acreage: 6,785.6

\*Obligated: \$30,651.46

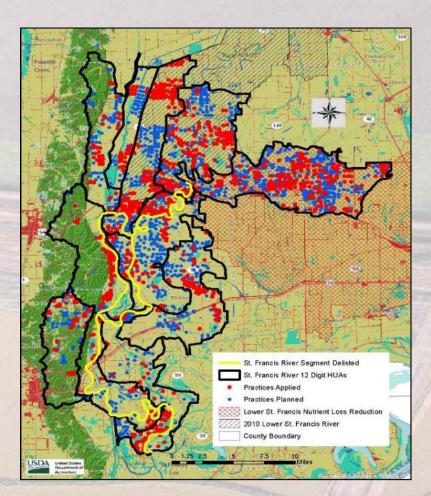




### **Targeted Conservation Works**

### ST. FRANCIS RIVER SUCCESS - DELISTED SEGMENTS

- Erosion from row crop fields led to high turbidity levels in Arkansas's St. Francis River.
- ADEQ added a 55.9-mile section and a 17.1-mile section of the river to the state's 303(d) list of impaired waters for turbidity in 2006.
- Producers implemented conservation practices to reduce sediment from row crop fields.
- NRCS provided technical and financial assistance from regular programs plus 5 MRBI projects.
- Turbidity levels declined and ADEQ removed segments from the 2014 303(d) list for turbidity.





### Importance of Arkansas Conservation Partnership















### Arkansas Conservation Partnership:

- Arkansas Natural Resources Commission
- Arkansas Association of Conservation Districts
- Arkansas Association of Conservation District Employees
- University of Arkansas Cooperative Extension Service
- University of Arkansas, Pine Bluff
- Arkansas State University and ARS
- Arkansas Resource Conservation and Development Council, Inc.
- More than 80 different partners help make Arkansas's landscape initiatives successful



