

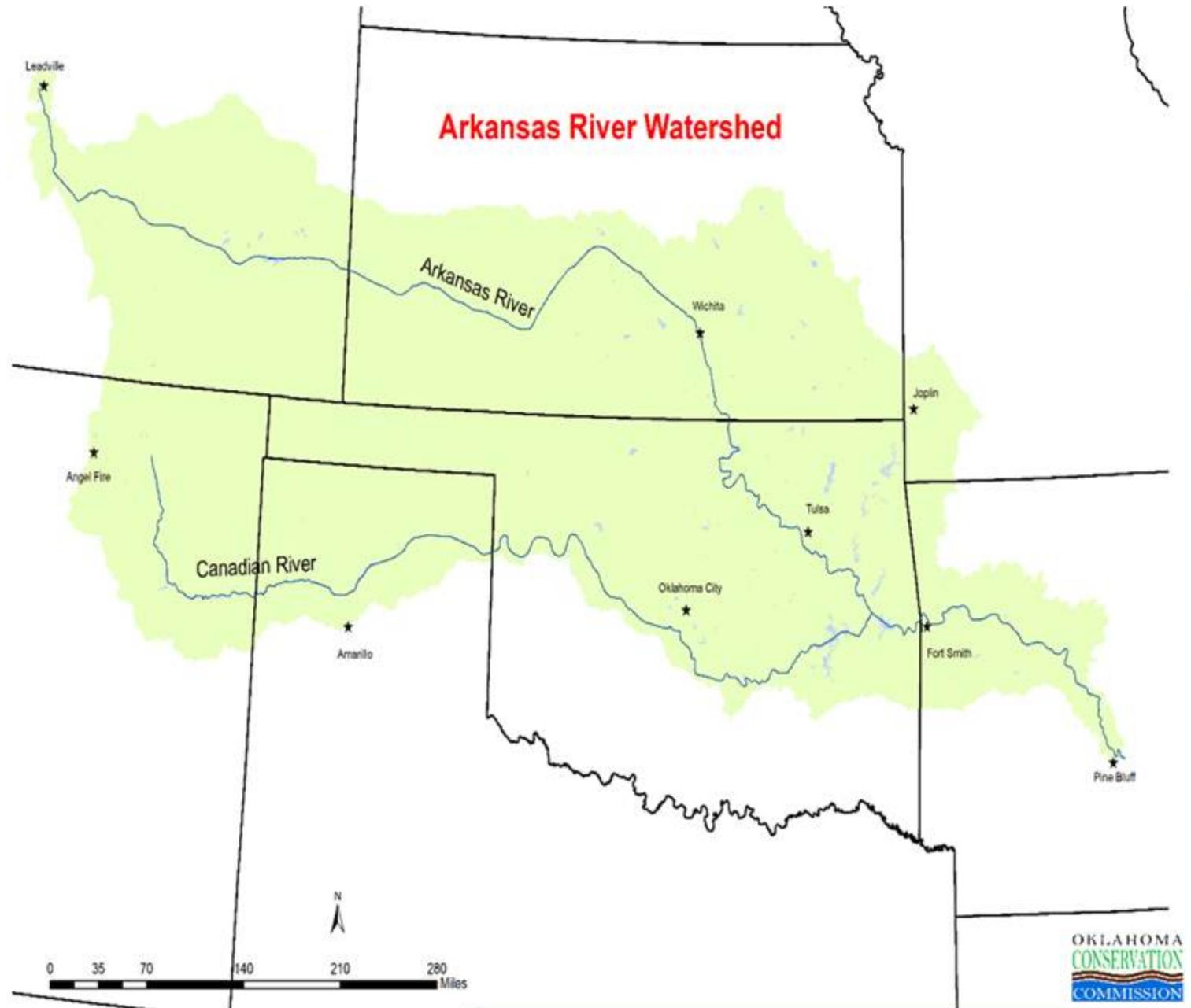


Trey Lam

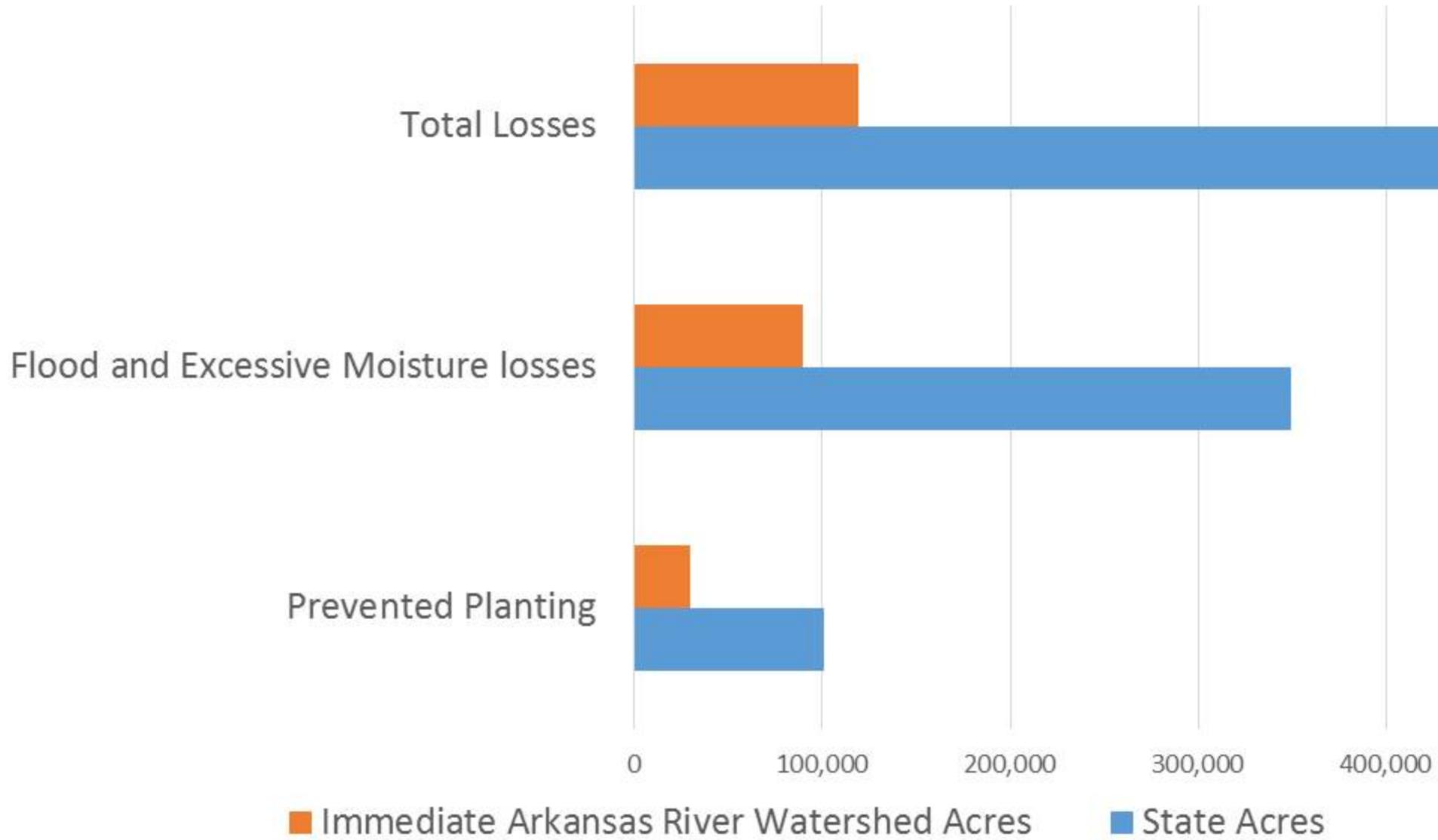
Executive Director

Arkansas River Watershed Characteristics

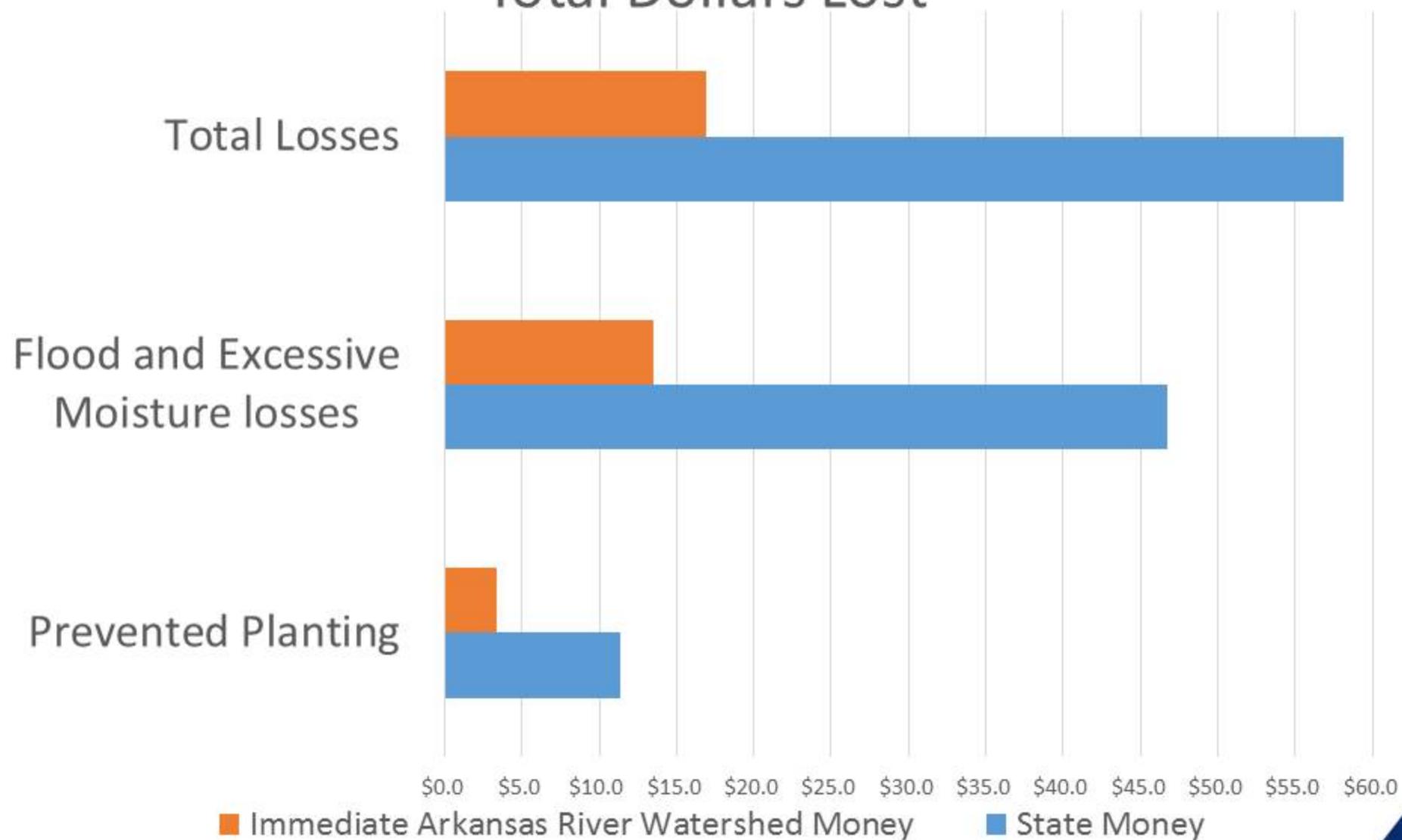
- 161,000 square miles across 7 states
- Average discharge of 41,000 ft³/s at the mouth
- >20,000 (mostly) perennial stream miles
- 486,126 reservoir surface acres
- Supports McClellan-Kerr Arkansas River Navigation System



Total Loss in Acres



Total Dollars Lost













And Now We'll Look at the
Damage to the Land





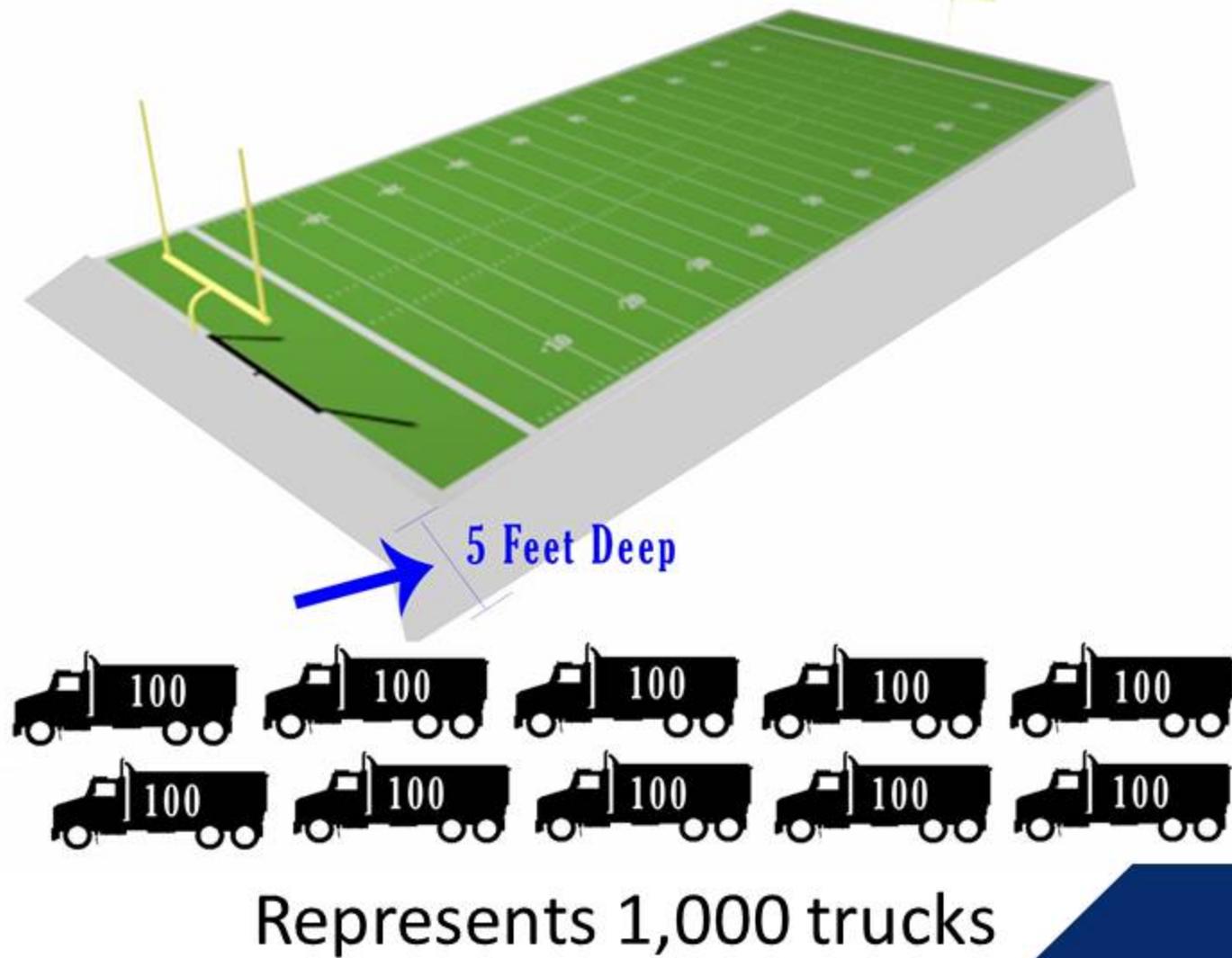






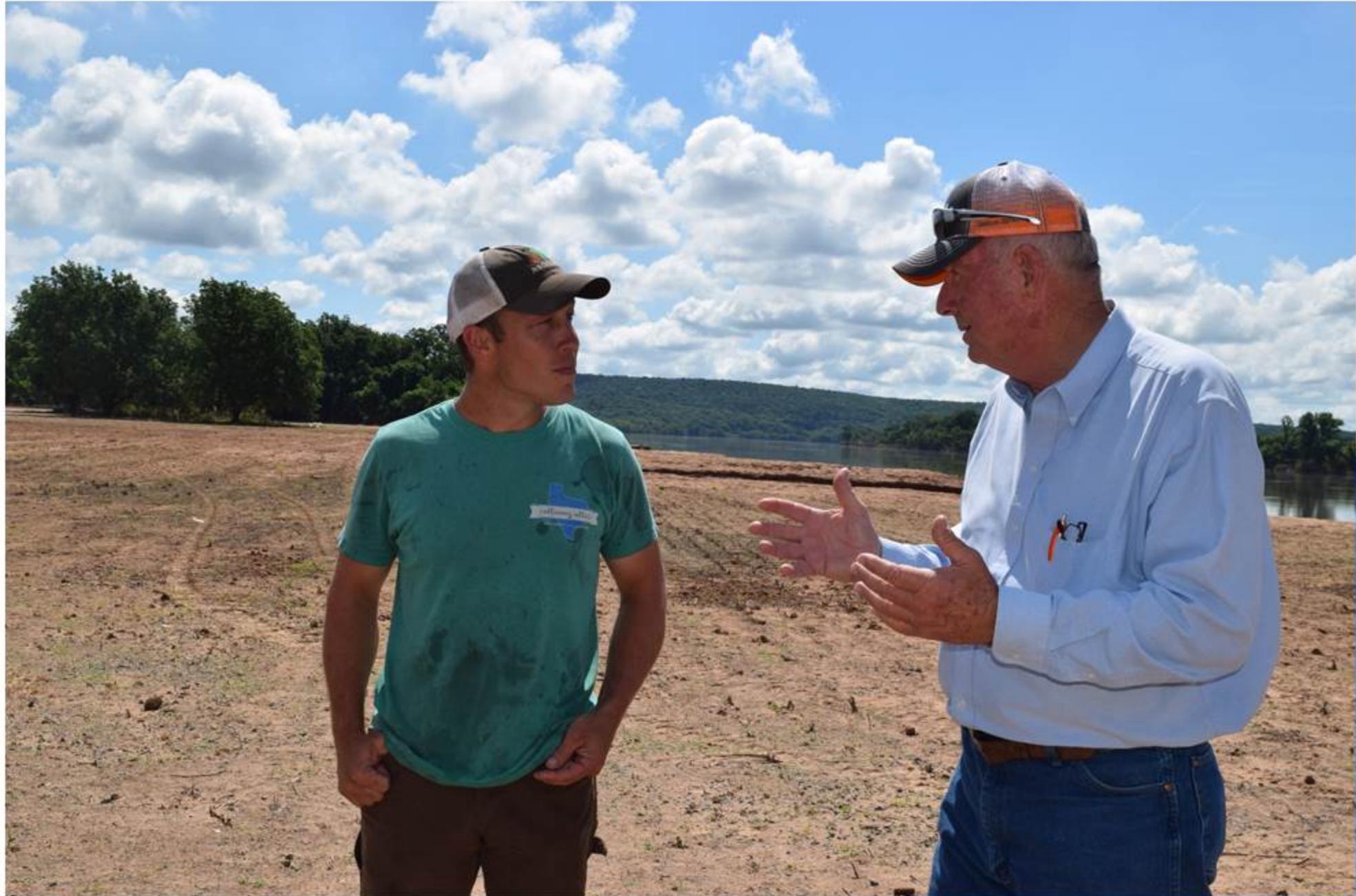


The cost to fill this area would be \$201,000.



Now Look at the Response











Gary
O'Neill
(NRCS)

Brian
Sheffield
(Farmer)

Rep.
Chris
Sneed

Sen.
Dewayne
Pemberton

Rep.
Dell
Kerbs

And Now Let's Take a Look at
the Available Resources





Oklahoma Conservation Commission

State Technical Support
Professional Consultation

United State Department of
Agriculture Resources:



USDA Farm Service Agency

FSA-Emergency Conservation Program

Sand and Silt 0-4 inches: \$15 per acre

Sand and Silt Deposits 4-8 inches: Cost = \$34 per acre

Sand and Silt Deposit 8-12 inches: Cost = \$235 per acre

Grading and Shaping Gullies

Sand and Silt Deposits greater than 12 inches (Debris Removal):

Cost = \$336 per acre

Currently Paid

\$618,711 Tornado \$332,821 Flooding
(only 6 of 28 effected counties)

Livestock Program

\$118,590



USDA Natural Resources Conservation Service

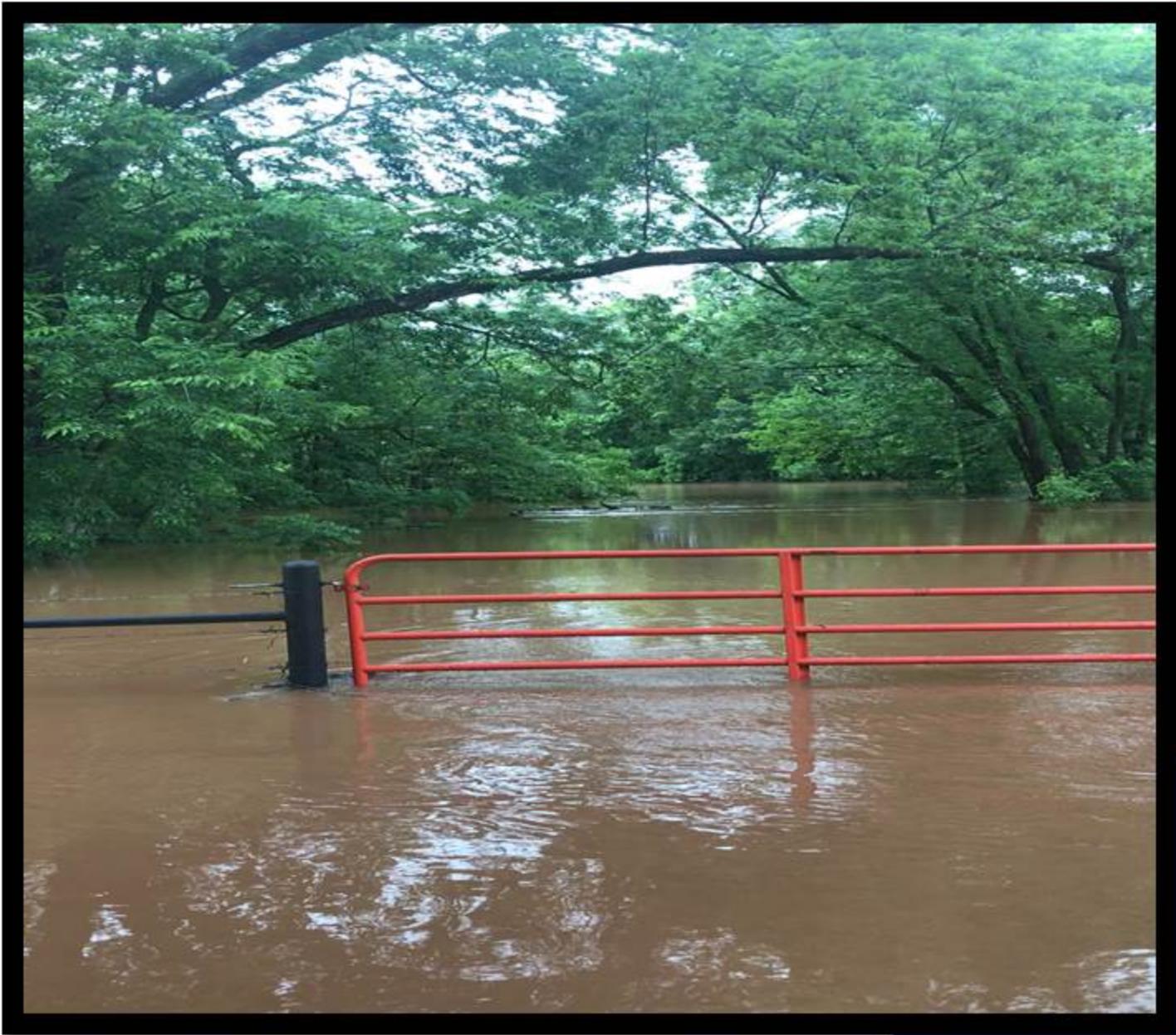
Emergency Watershed Protection Program – Floodplain Easements:
Will pay fair market value. This is a perpetual easement that stays with the title of the land.

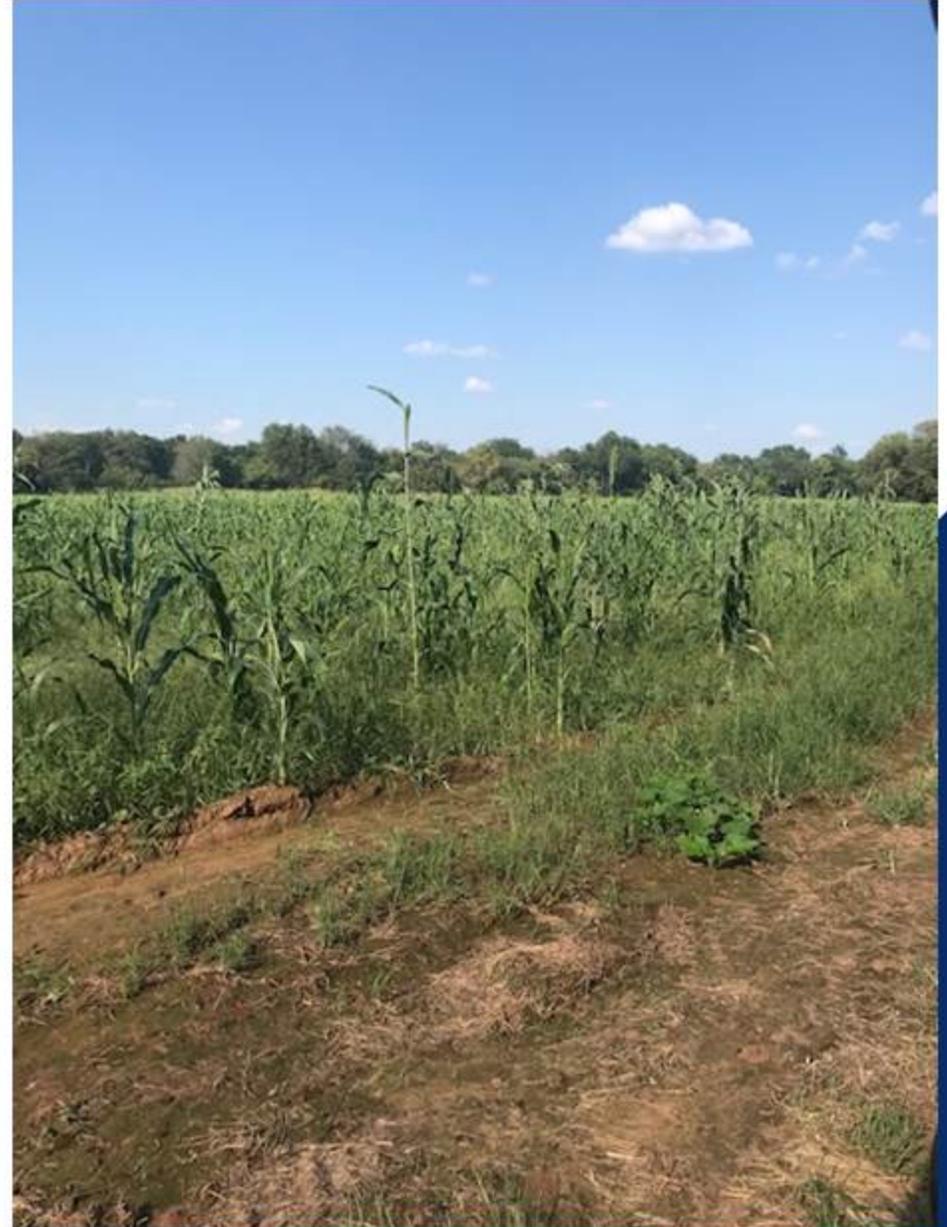
Environmental Quality Incentive Program Funding on Cropland only for Cover Crop establishment to landowners who have been and continue to be impacted by this natural disaster:
Will pay \$53-\$63 per acre to plant cover crops.



United States
Department of
Agriculture

Natural Resources Conservation Service

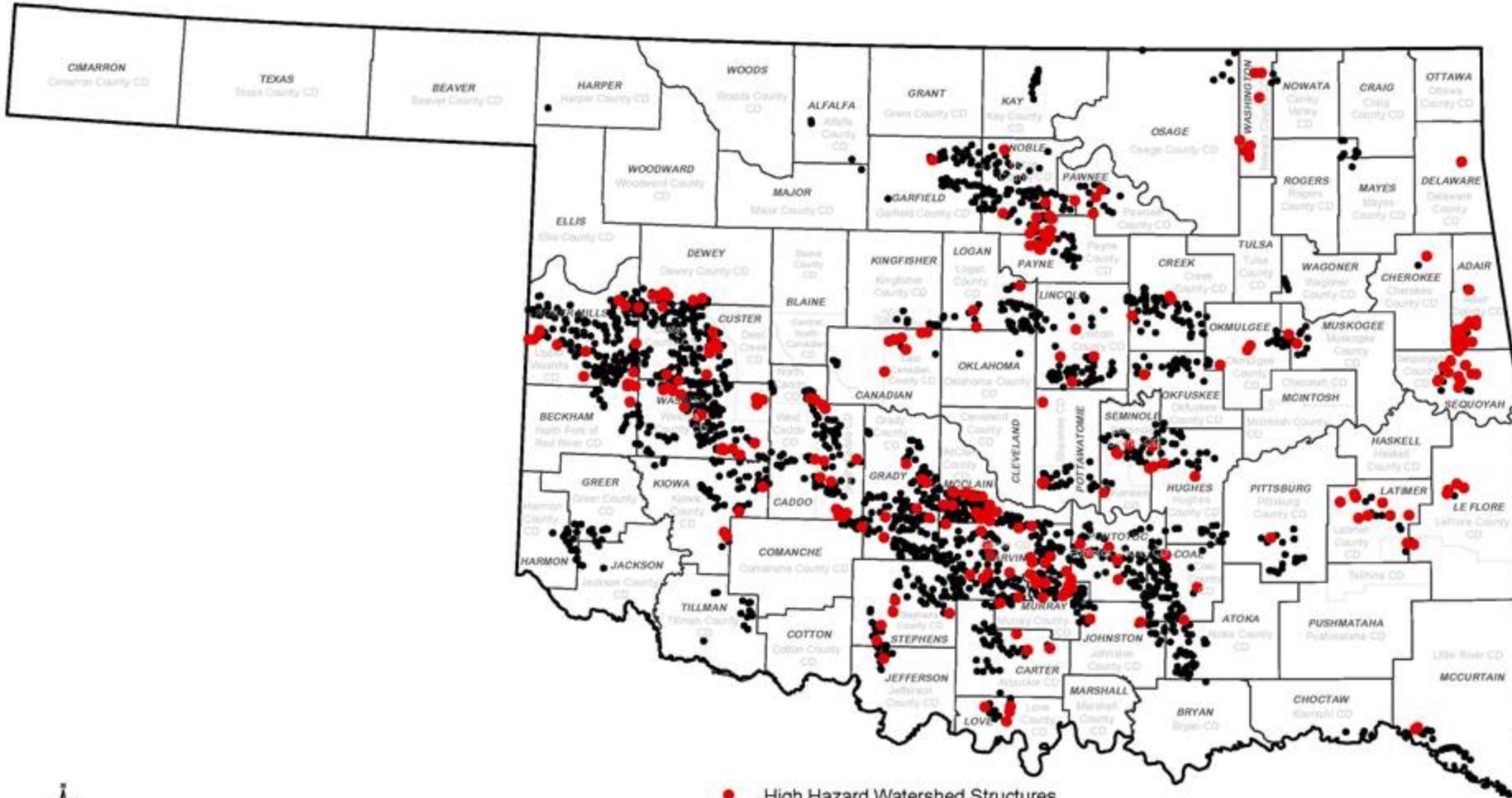




Next Time

State Emergency Funding for
Agriculture

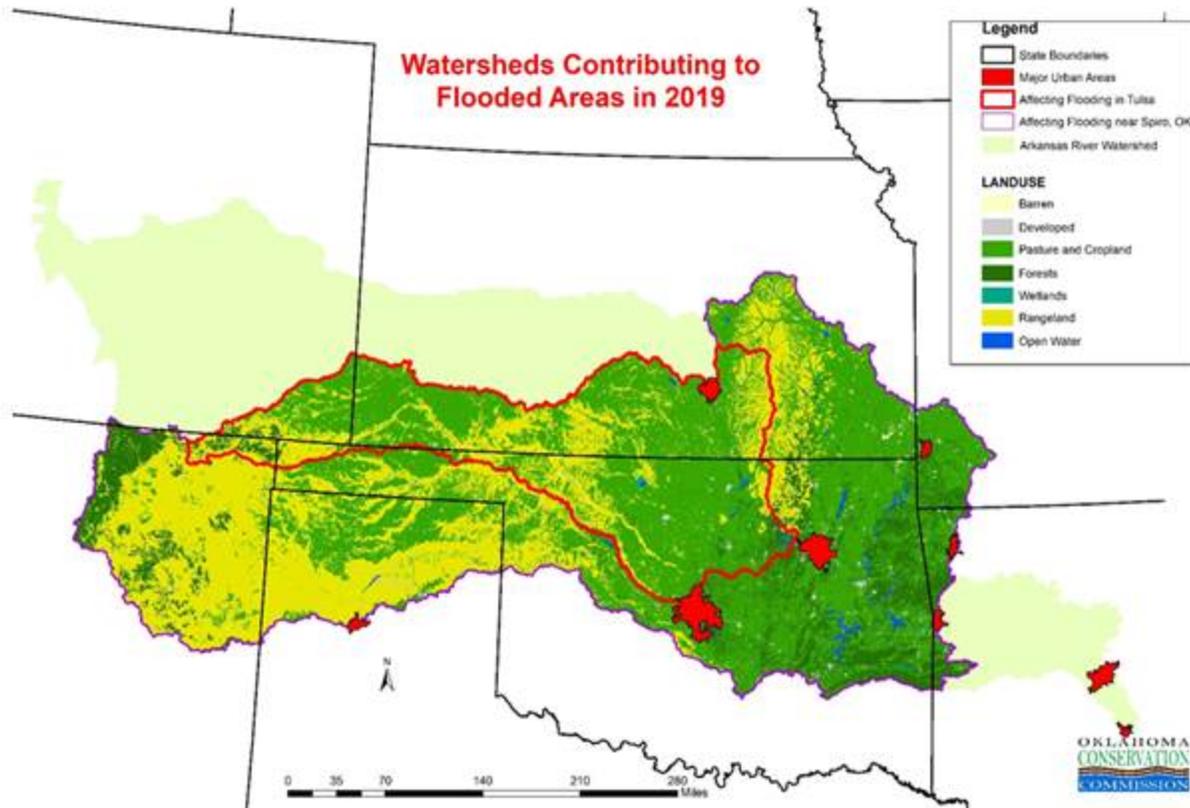
Watershed Structures of Oklahoma



- High Hazard Watershed Structures
- Watershed Structures
- County Boundaries
- Conservation District Boundaries



Watershed Areas Contributing to Flooding



- Arkansas River Watershed- 161,000 square mile area
- Arkansas River between Wichita and Tulsa (red outline)- ~36,000 square miles- 66% crop and pastureland, 28% rangeland
- Arkansas River Basin between Tulsa and Stateline (purple outline)- ~82,000 square miles- 43% crop and pastureland, 38% rangeland

We've lost at least half of the organic matter in Oklahoma Soils, dropping from 5-6% to 1-3%

Benefits of Soil Organic Matter

- Increase organic matter by 1% in cropland and pastureland soils and by 0.5% in rangeland soils- increase water holding capacity:
 - In areas affecting Tulsa by 463 billion gallons
 - In areas affecting Spiro by 811 billion gallons
- That's like building additional reservoirs the size of Oklahoma's four largest - Texoma, Eufaula, Oologah, and Broken Bow, and then also adding another Canton Lake

**Increasing Soil Organic Matter is
Like Building New Reservoirs**

