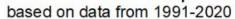
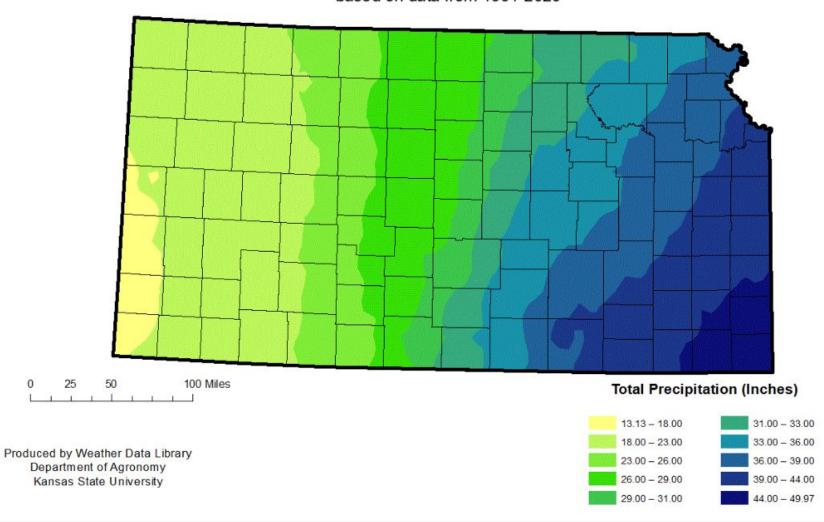




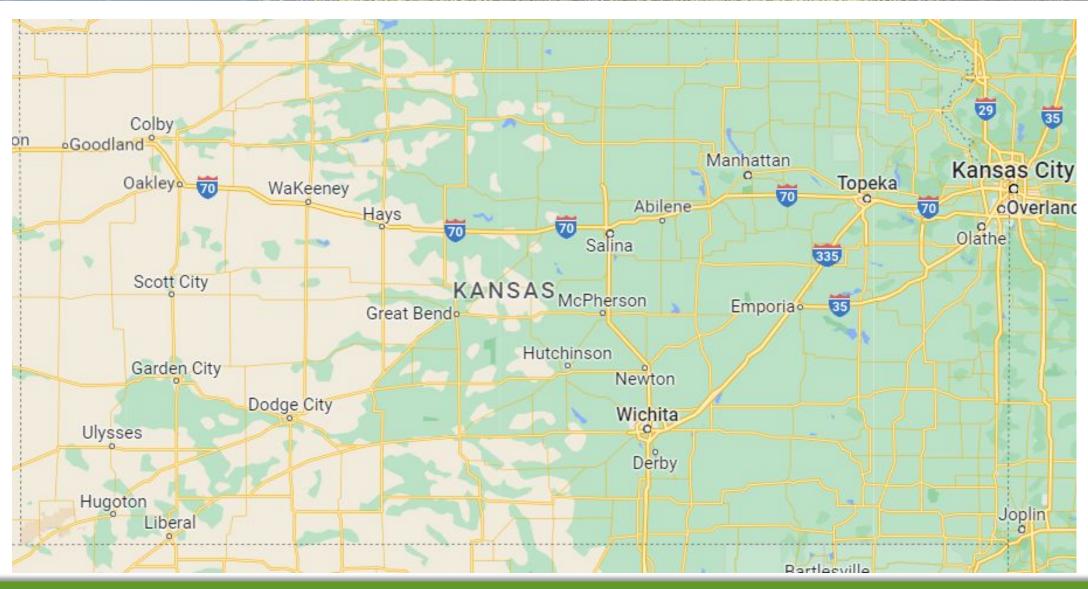


Normal Annual Precipitation











Funding Sources

EPA Clean Water Act (CWA)
 Section 319 Funds



- Federal Grants
 - EPA Farmer to Farmer
 - National Fish and Wildlife Foundation
- State Revolving Loan (SRF)
- State Water Plan
- Industry
- Municipalities

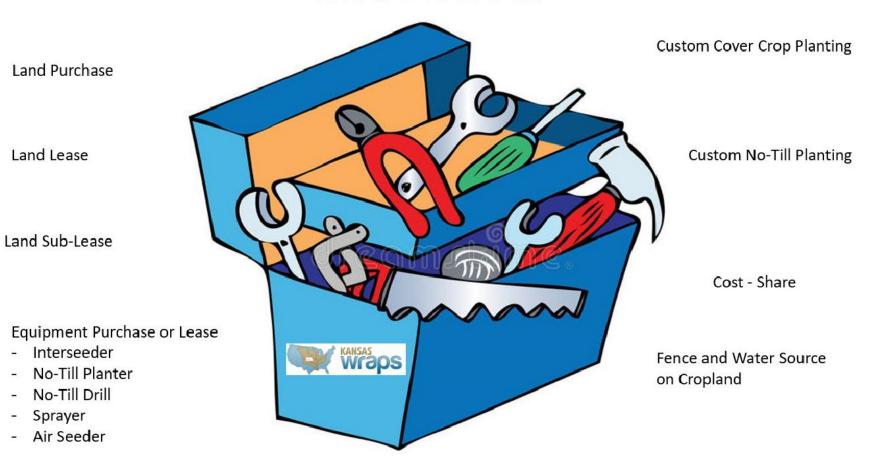


For \$1.00 SWP

KDHE leverages ~\$4.25



WRAPS Tool Box





14 Active WRAPS Projects

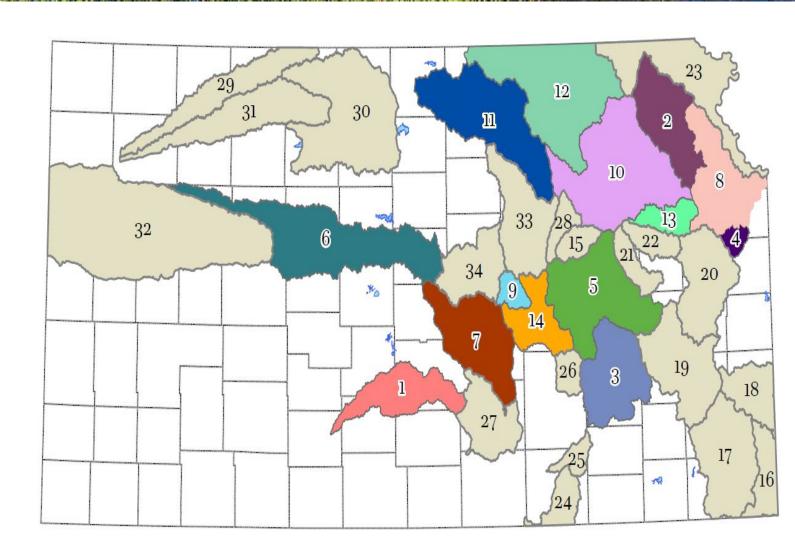
- Coordinators
- Stakeholder Leadership Teams

KS Assoc of Cons Districts

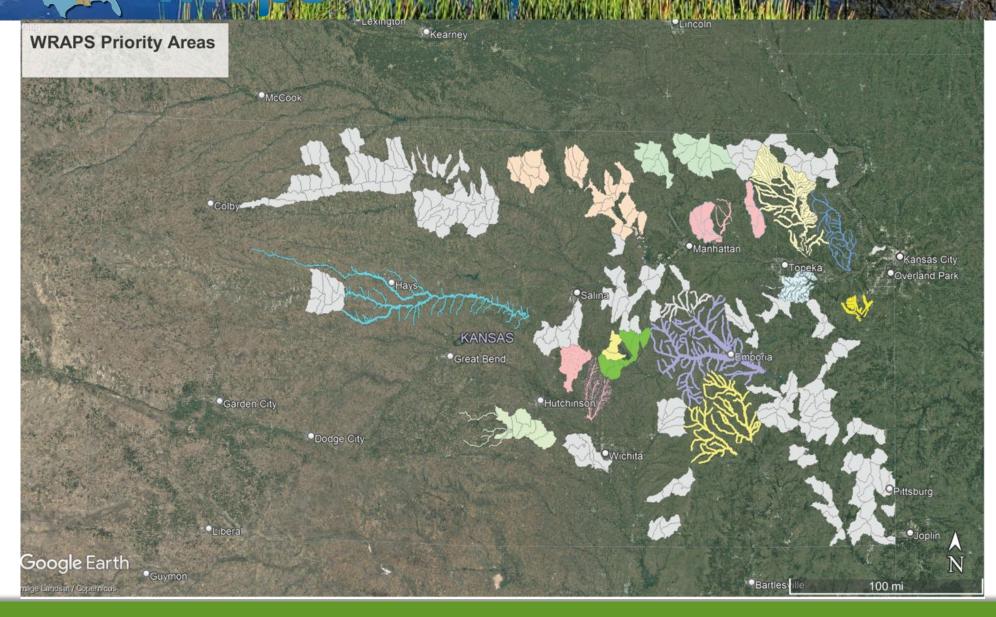
Cost-Share based on 9-Element Plans

K-State University KCARE

- 9-Element planning assistance
- BMP implementation assistance



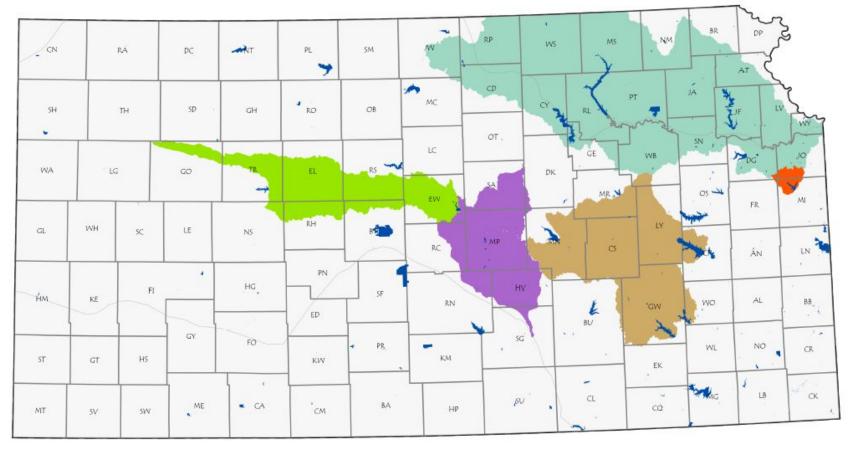




Protect and improve the health and environment of all Kansans







Central Kansas Watersheds

Ron Graber

Northeast Kansas Watersheds Will Boyer Kanopolis Watershed Stacie Minson Flint Hills Watershed Jeff Davidson Southeast Watersheds
Herschel George



PARTNERING FOR SUCCESS



State Lead Strategles implemented at **ESMC**

- · Soil Health Alliance
- · Soil Health Coachin
 - · Understanding Ag
 - · Farmer to Farmer
 - · Western HS Coachin;
- · Information/Educatio
- Technical Assistance
- Equipment Partnerships
 - ·Interseeders
- - PHUICE DIGUIGERS
- Hunicipal Partnerships (El Dorado eredit Programi





Ecosystem Services

General





Farmer to Farmer Coaching





Water Quality Trading El Dorado, KS





Nutrient Reduction in Kansas

Performance and Credit

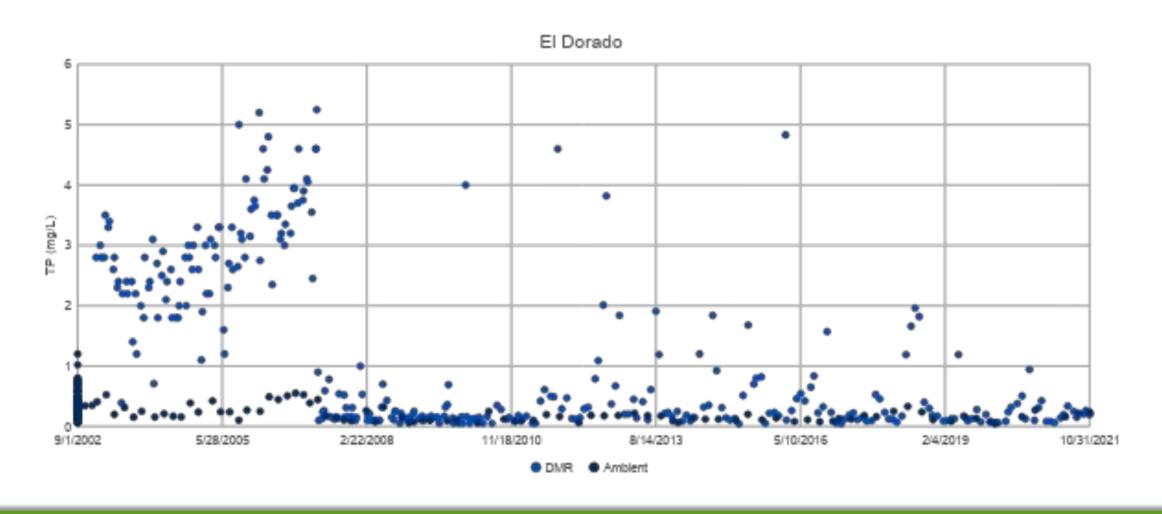
- Many Cities Have Invested in Biological Nutrient Removal (BNR) Technology
- Some Cities Have Yet to Invest, But Improved Ops through Optimization

- Optimization Self-Generates Credits for City
- How to Reward Those Credits?



Nutrient Reduction in Kansas

El Dorado and the Walnut River: Building Opportunities through Performance





El Dorado Inverted WQ Trading

City and KDHE signed MOU outlining arrangement

319 Grant agreement with city, matching up to \$50K per year for three years

Soil and Water Outcomes Fund have signed agreement to begin to recruit ag producers above El Dorado Lake to put in carbon and water quality practices



KDHE revised El Dorado MS4 permit to right size it to actual practices used, off site implementation and relief from monitoring



El Dorado MS4 Permit

New MS4 Permit for El Dorado

- Issued on 2/1/2023 after public notice
- City and KDHE entered into an MOU
 - Established a framework of participation by the City and KDHE to invest in nutrient and sediment reduction practices above El Dorado Lake and along Walnut River in Butler Co., KS
 - Framework accomplishes the following:
 - 1. Credits the City for its treatment performance reducing N and P in its future WW NDPES permits
 - 2. Produces a revenue stream from the City (leveraged with EPA 319 and potential private-sector funds) that can be applied for the installation of BMPs to reduce NPS contributions to downstream



El Dorado MS4 Permit

New MS4 Permit for El Dorado

- Reduced Permit from 67 pages to 35 pages
- Major Highlights include:
 - Revamp of permit to include "inverted WQ trading"
 - Establishment of an "Alternative Stormwater Offsite Pollution Reduction Program"
 - Monitoring and modeling of Load Reductions done by permittee
 - Tracking of points generated by offsite program tracked by permittee and reported to KDHE annually
- Established a "template" that may be utilized for others wanting to move forward with similar approach