

Agricultural Water Research – Texas Tech Davis College Leading the Way

Funded by:



Krishna Jagadish, Program Director TAWC Project Coordinator







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The TAWC Team



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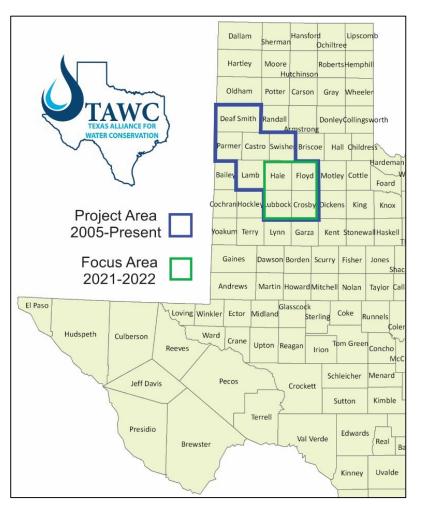
Seth Cope Program Manager

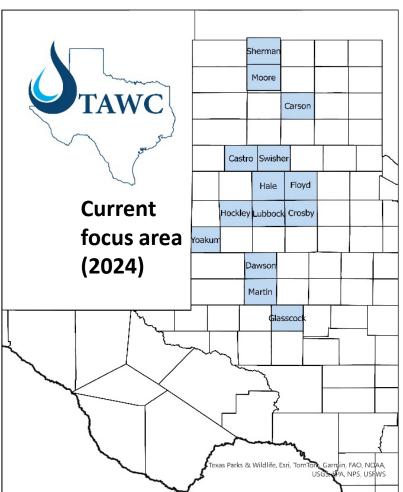


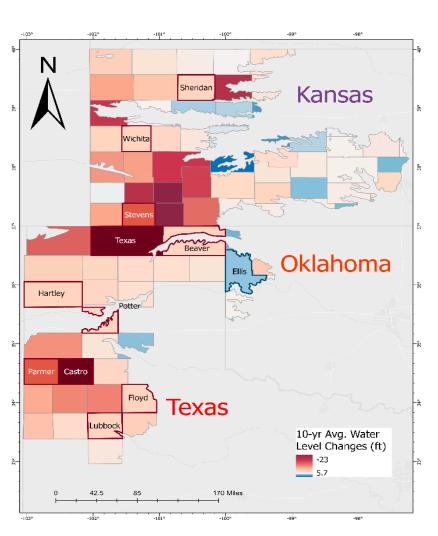
Mukesh Mehla Post-Doctoral Fellow

TAWC's Operational Landscape







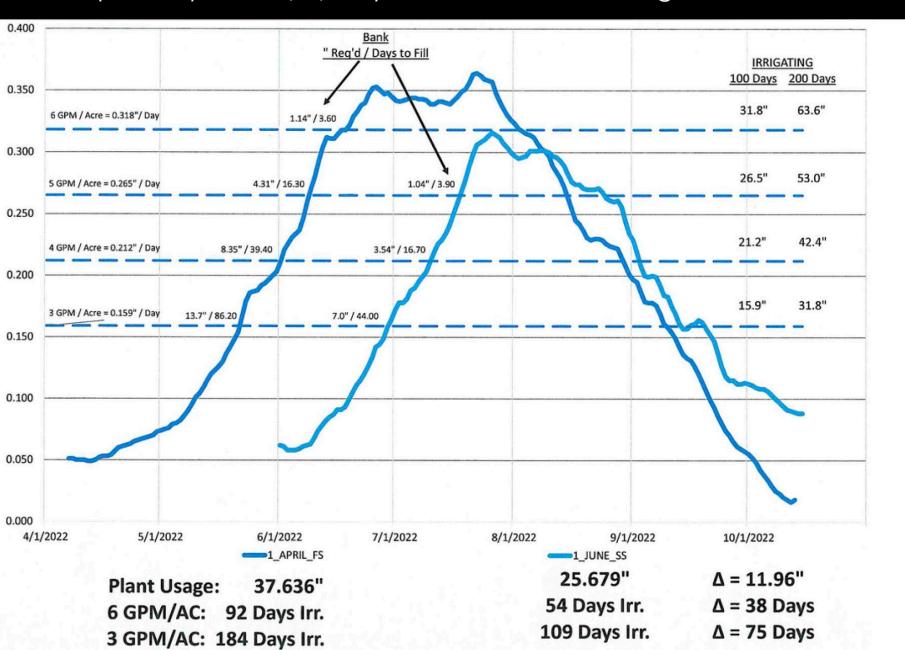


New 2025: USDA Project

Corn Evapotranspiration (ET) Requirements at Various Irrigation Availabilities

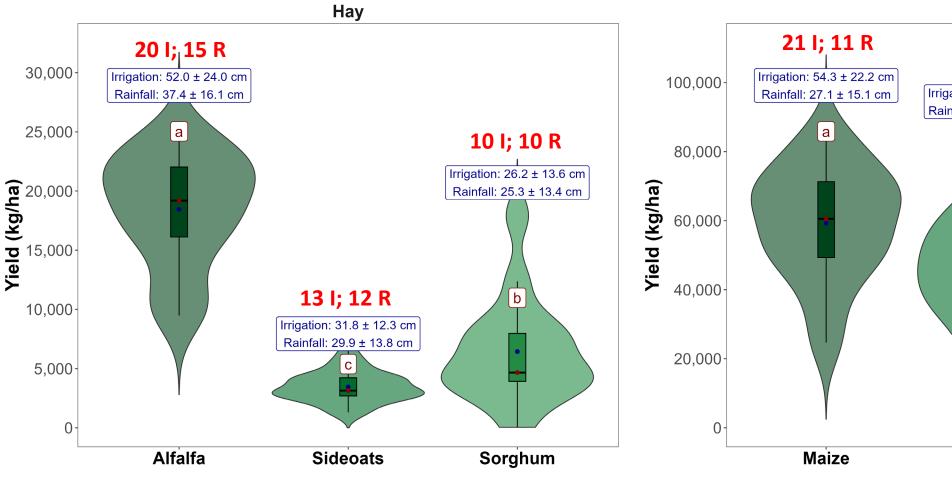


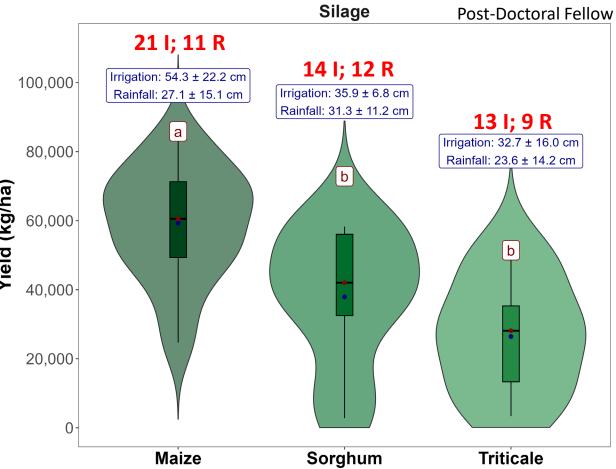
Rachel Wade
Data analyst &
Economist



TAWC Long term forages yield (Phase 1: 2005-18)



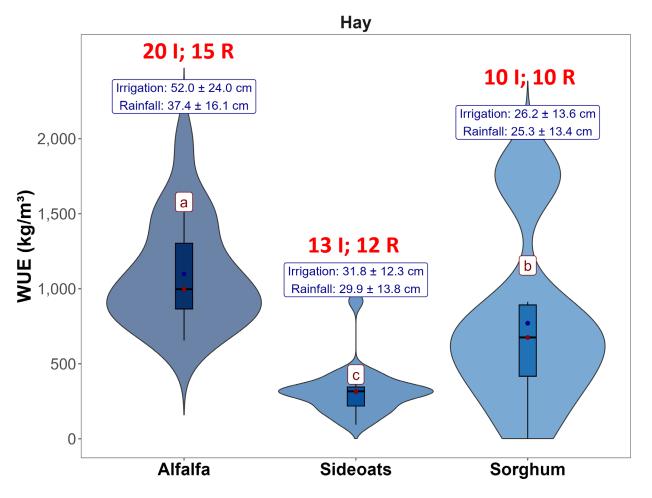


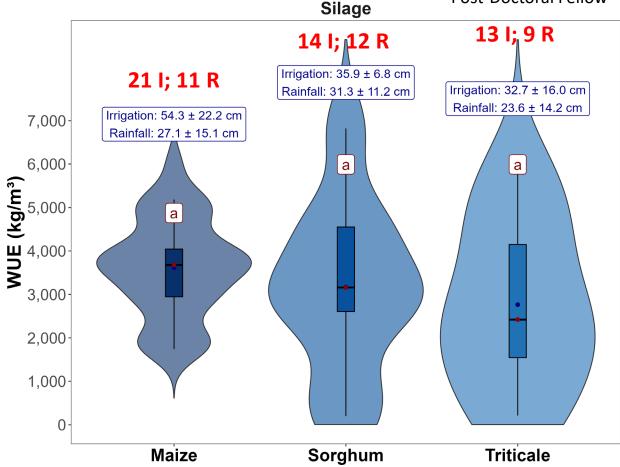


TAWC forages water use efficiency (Phase 1)

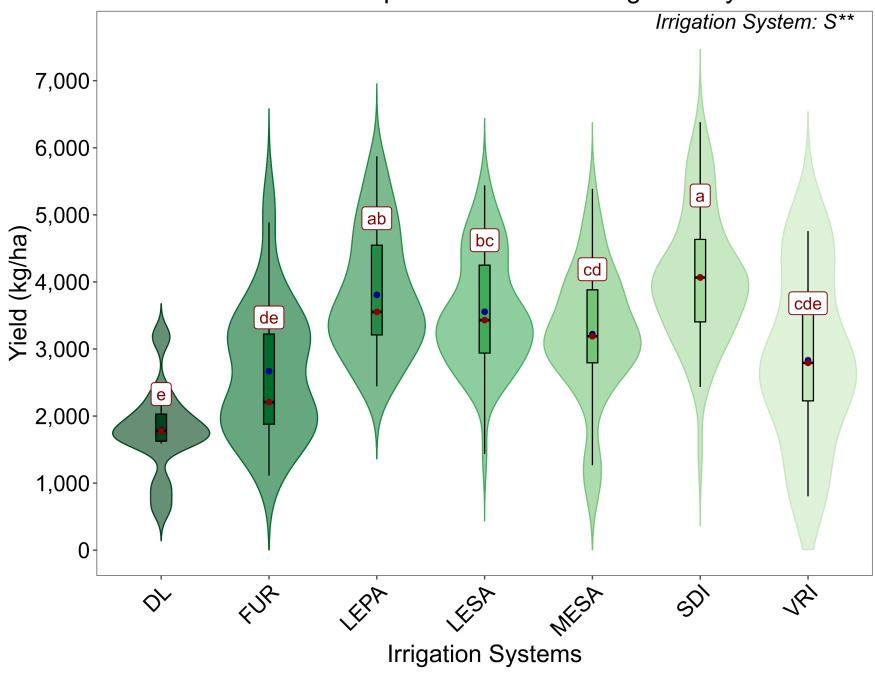


Mukesh Mehla
Post-Doctoral Fellow





Yield in Cotton Crop Under Different Irrigation Systems



DL – Dryland

FUR – Furrow Irrigation

LEPA – Low Elevation Precision

Application

LESA – Low Elevation Spray

Application

MESA – Mid Elevation Spray

Application

SDI – Sub-surface Drip

Irrigation

VRI – Variable Rate Irrigation

Support for TAWC's Expansion





Long term support & Continuing.....

Phase II
Irrigation Technologies +
Sensor-based irrigation
management



Large 65M\$ led by National Sorghum Producer (TAWC key collaborator)

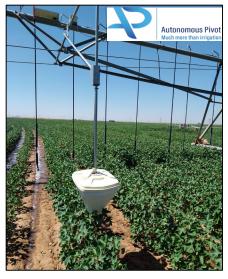
A 5M\$ climate smart commodities grant led by TTU (implemented through TAWC)

- No or minimum till
- Sorghum-Cotton rotation
- Multispecies cover crops

TAWC's Operational Landscape

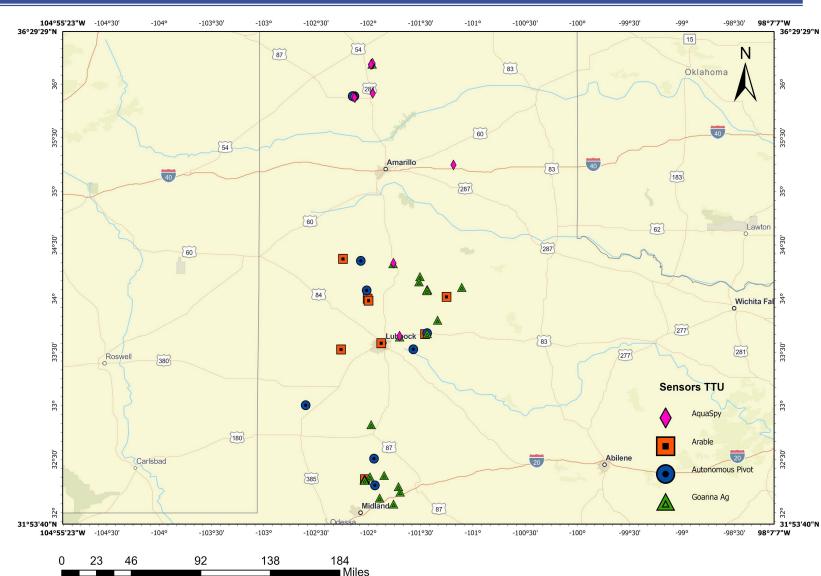




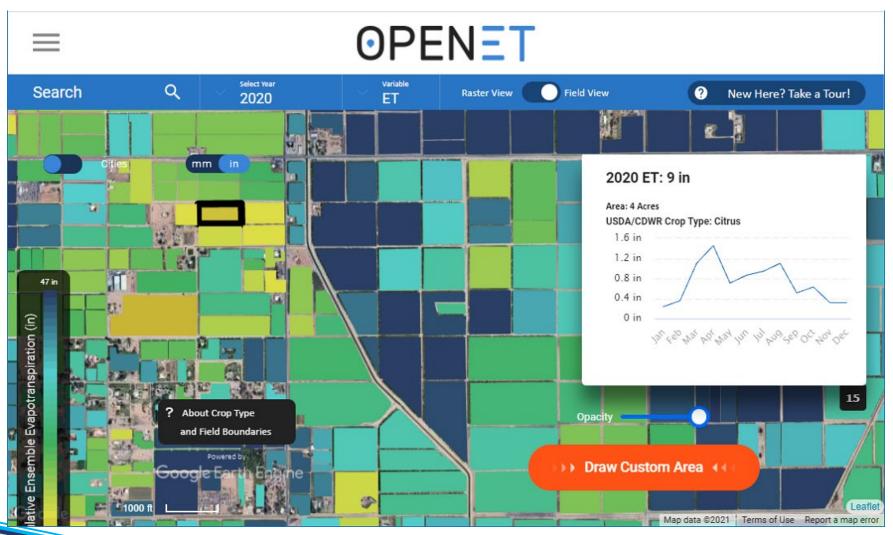








New: Regional Water Conservation Collaborative Network











https://etdata.org/

Volk et al., 2024 https://www.nature.com/articles/s44221-023-00181-7

Coming Together of Water Centers at TTU



Dr. Darren Hudson

Ag Water (TAWC and Davis
College Water
Center)

Produced Water Consortium



Dr. Shane Walker

Water Resources Center **Conserve Water**



Welcome new water

Outreach and Technology Demonstrations







