

Know Your Water Project, Fort Hays State University:



Tatom Smith, Gus Peine, Carter Will, Dr Jenne Lambert Sumeral, Dr. Richard Lisichenko

Introduction

What is Know Your Water?
A collaborative, multi-agency initiative to improve water quality, promote conservation, and engage Kansas communities through education, testing, and outreach.

Why it matters:

Western Kansas faces unique water challenges — from inefficient irrigation to groundwater contamination. Phase II builds on past success to expand testing, education, and conservation efforts across the region

Method

Sampling Scope:

- 80 domestic wells sampled
- 4 distinct regions across Western Kansas
- Seasonal testing

Contaminants Tested:

- Arsenic
- Nitrate
- E. coli
- Uranium
- Additional trace elements

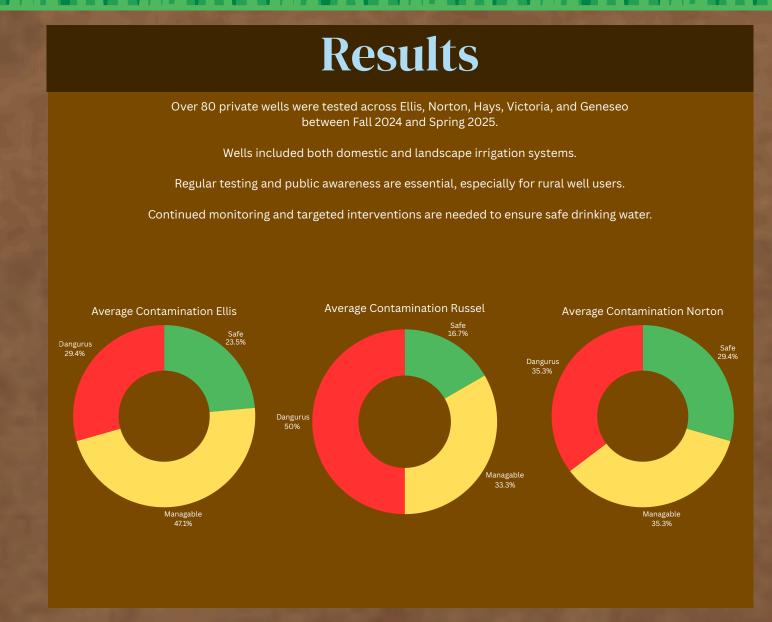
About our Project

Water Quality Testing & Mapping
200+ domestic wells sampled across 4
regions
Testing for arsenic, nitrate, E. coli, uranium,
and more
Longitudinal database tracks seasonal and

precipitation-based changes

Sulfate Levels 17.00ppm-29.00ppm 28.00ppm-78.00ppm 78.00ppm-360.00ppm Russel Norton Ellis 0 2 4 6 8





Refrences

Authors: Tatom Smith, Dr. Jeanne Lambert Sumrall

Know Your Water Project Grant Documentation, Phase II (2024–2025), Fort Hays State University

Water Quality Maps and Sampling Data, Dr. Richard Lisichenko, FHSU Geosciences

Lab Results Provided by Servi-Tech Laboratories

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- Regional Well Sampling Records (Ellis, Norton, Hays, Victoria, Geneseo), Fall 2024–Spring 2025
- Lambert Sumrall, J., & Lisichenko, R. (2025). Faculty mentorship and technical guidance, Know Your Water Project,
- Peine, G., & Will, C. (2025). Field sampling and data collaboration, Know Your Water Project, FHSU Geosciences.
- Fort Hays State University Geosciences Department. (2025). Institutional support and grant administration.
- Western Kansas Residents. (2025). Community participation in well sampling and conservation outreach.