

Wichita County LEMA Annual review for 2022

Presented at GMD 1's 2023 Annual meeting

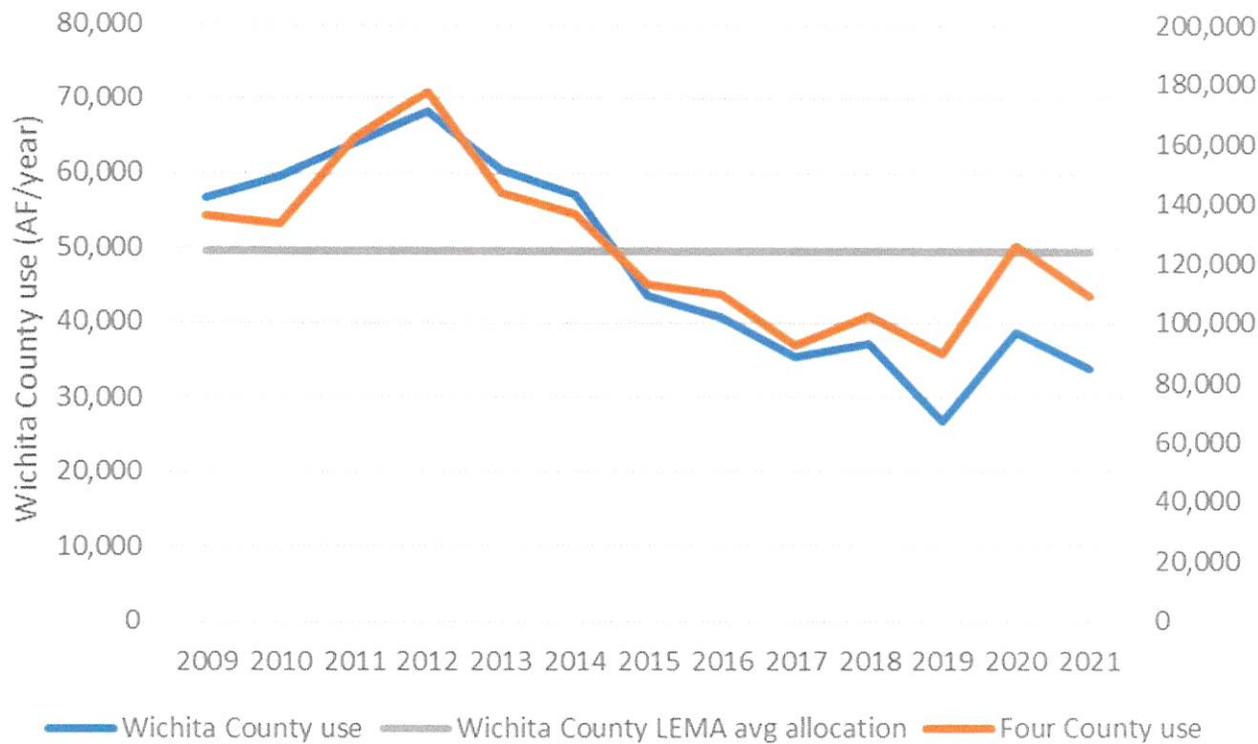
Background

- The Wichita County LEMA was implemented for the years 2021-25.
- The LEMA Plan requires annual reviews to evaluate how the LEMA is performing.
- The 2022 annual review was completed, evaluating 2021 water use.
- The Wichita County Water Conservation Area (WCA), a voluntary program began in 2017, was also evaluated as it contributed to the County's overall reduction in water use.

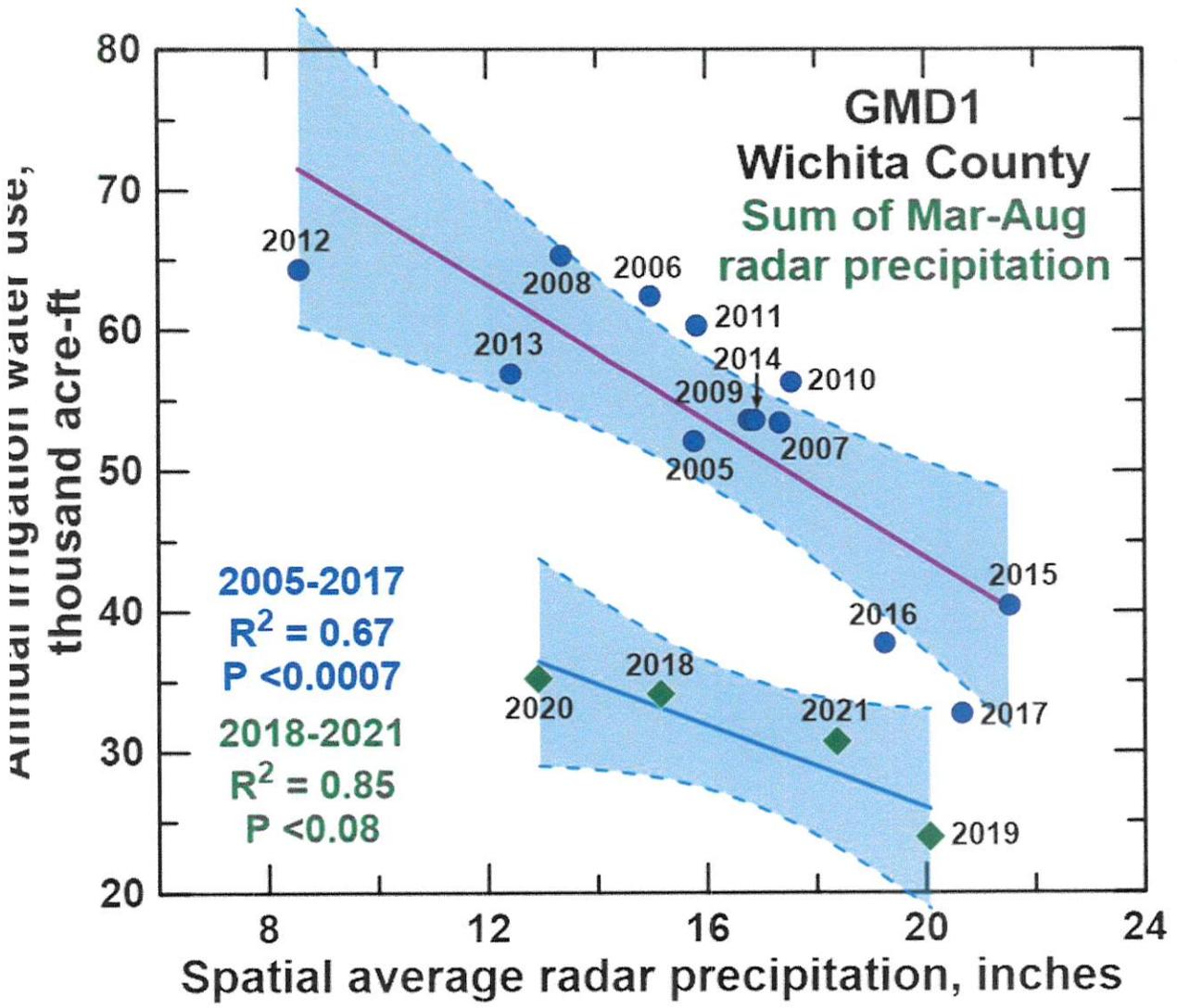
Wichita County WCA performance

- There are 25 active WCA consent agreements covering 11,391 acres.
- The consent agreements commit participants to a 29% reduction in wateruse.
- For 2017-2021, the average wateruse for participants was 65.5% of their WCA allocations.
- The WCA anticipated savings by participants of 2665 acre-feet/year. Actual savings has averaged 4773 acre-feet/year.

Wichita County Use vs. Four County Use



- Wichita County's 2021 water use was 69% of the average allowed under the LEMA
- As compared to the water use in the Four Counties (orange), Wichita County's use (blue) since 2017, shows a significant reduction.



- The KGS found that wateruse during 2018-2021, under the WCA and LEMA, was substantially lower than previously within similar ranges of precipitation, evidencing changing irrigation management.
- The reduced wateruse has led to reductions in water level declines, from an average of -0.54 ft per year from 2010 to 2017, to an average of -0.09 ft per year from 2018 to 2021.”

Questions