

# 2024 Water Level Results and Other Goodies

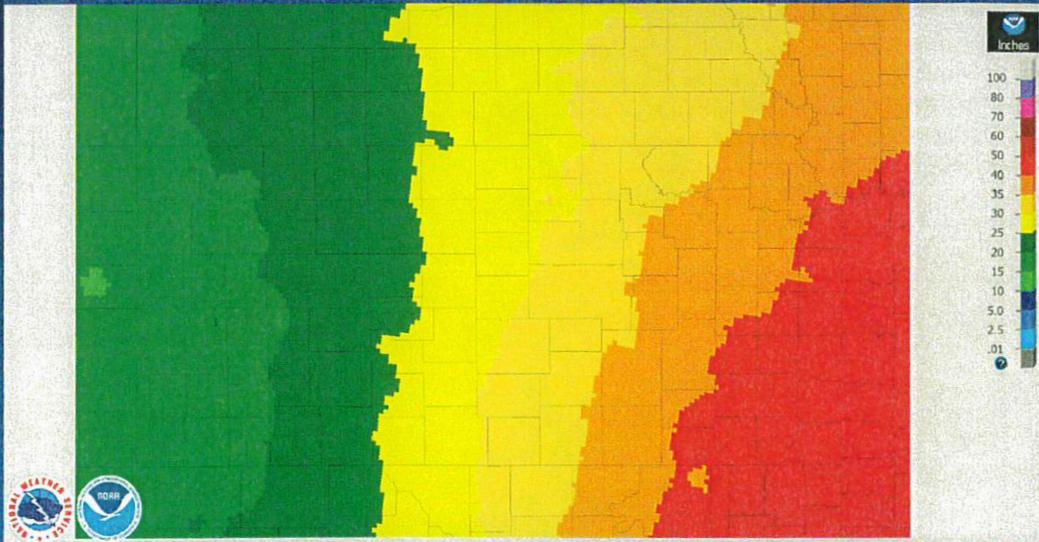
Western Kansas GMD #1  
Annual Meeting  
February 28, 2024



Kansas Geological Survey  
University of Kansas

## 1991 to 2020 Normal Precipitation

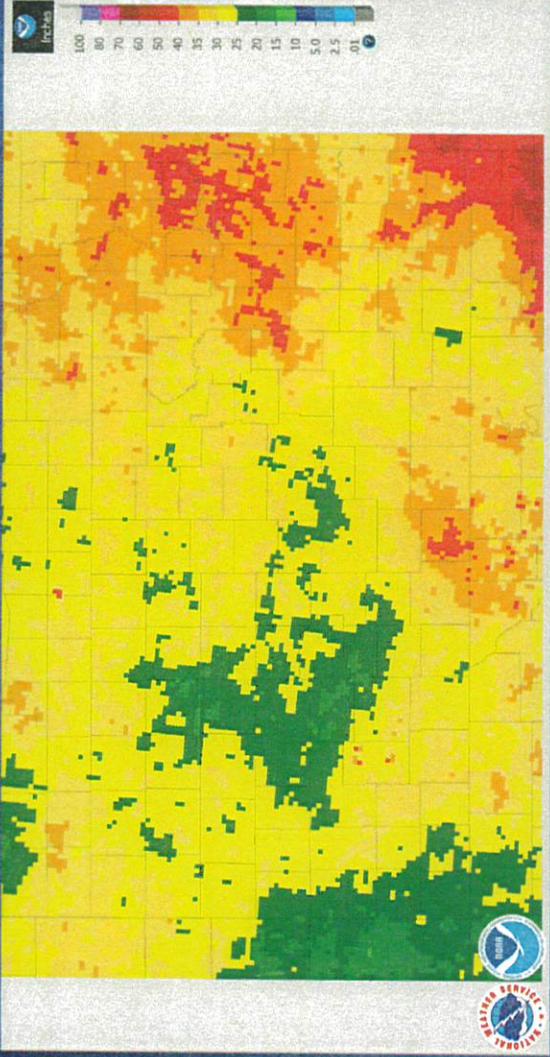
January 01, 2023 Annual Normal Precipitation  
Created on: February 19, 2024 - 16:42 UTC  
Valid on: January 01, 2024 12:00 UTC



# 2023 Total Precipitation

January 01, 2023 Annual Observed Precipitation

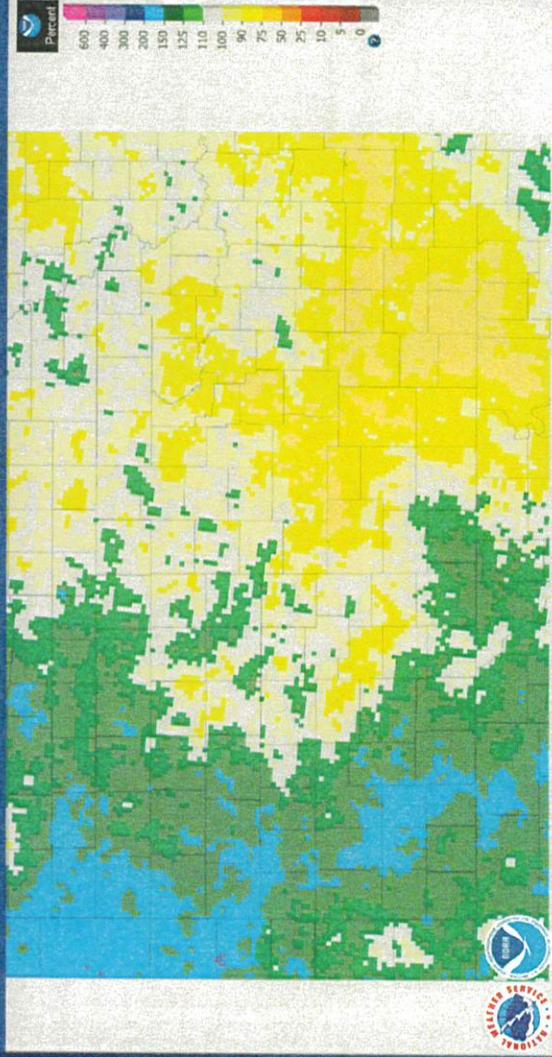
Created on: February 16, 2024 - 10:21 UTC  
Valid on: January 01, 2024 - 12:00 UTC



# Percent Departure from Normal Precipitation, 2023

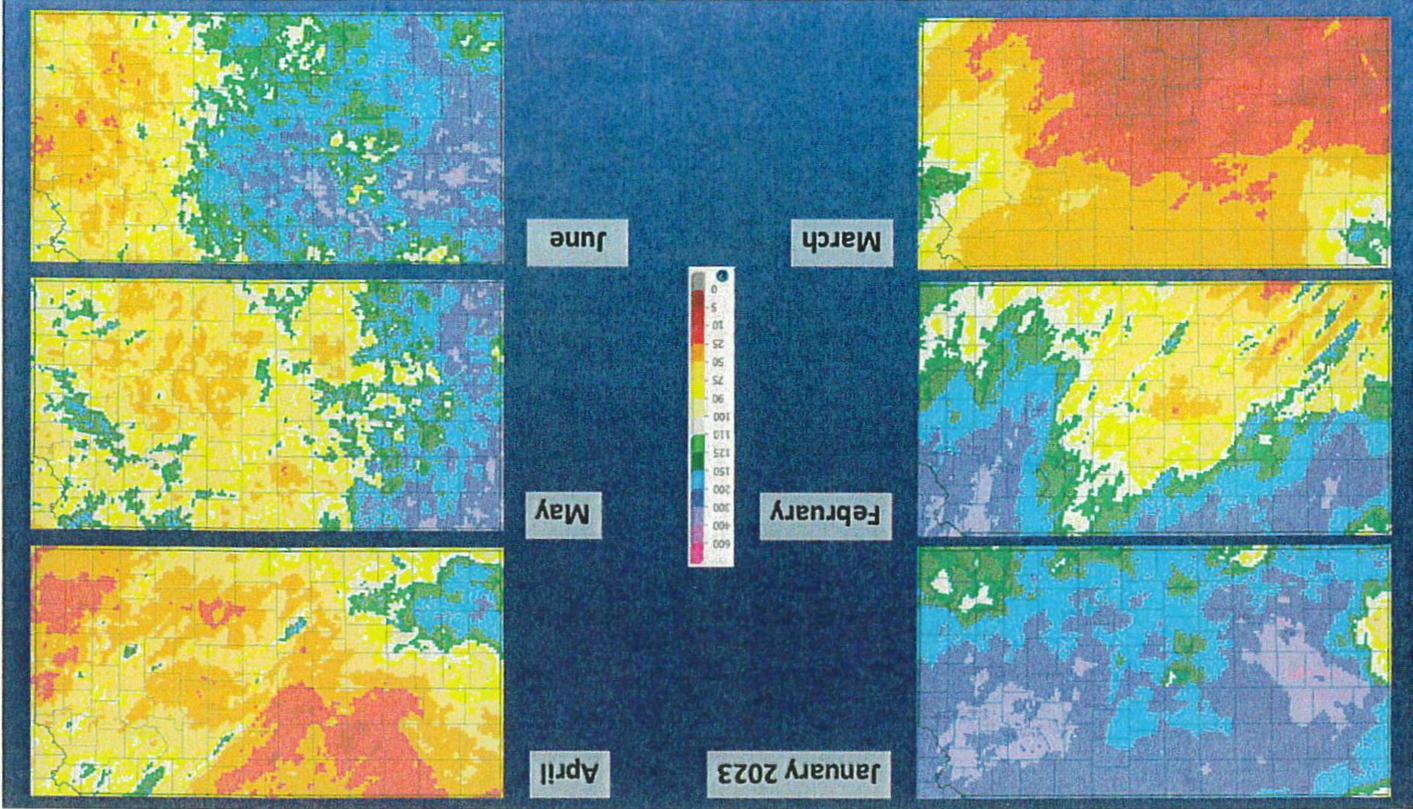
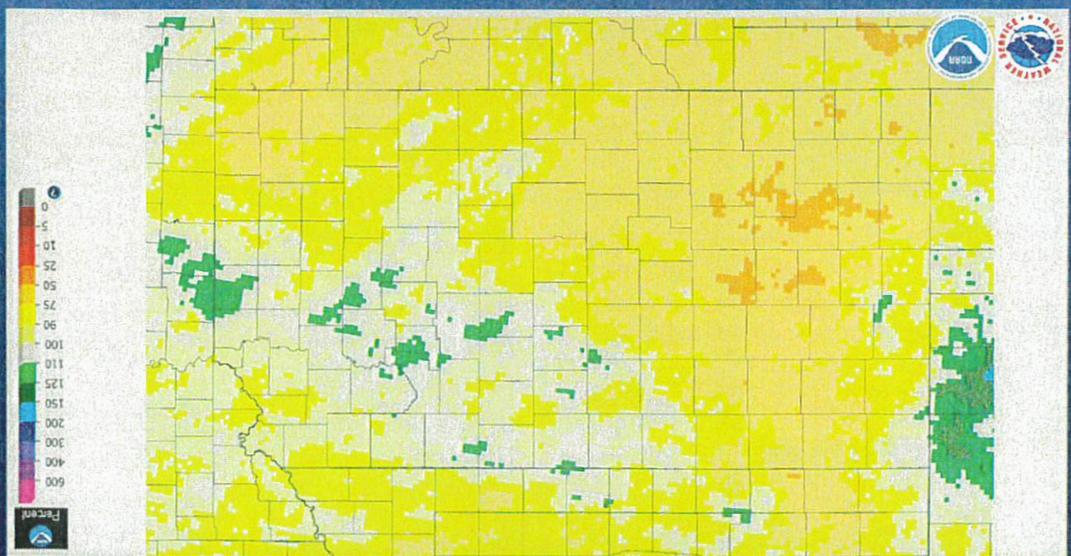
January 01, 2023 Annual Percent Precipitation

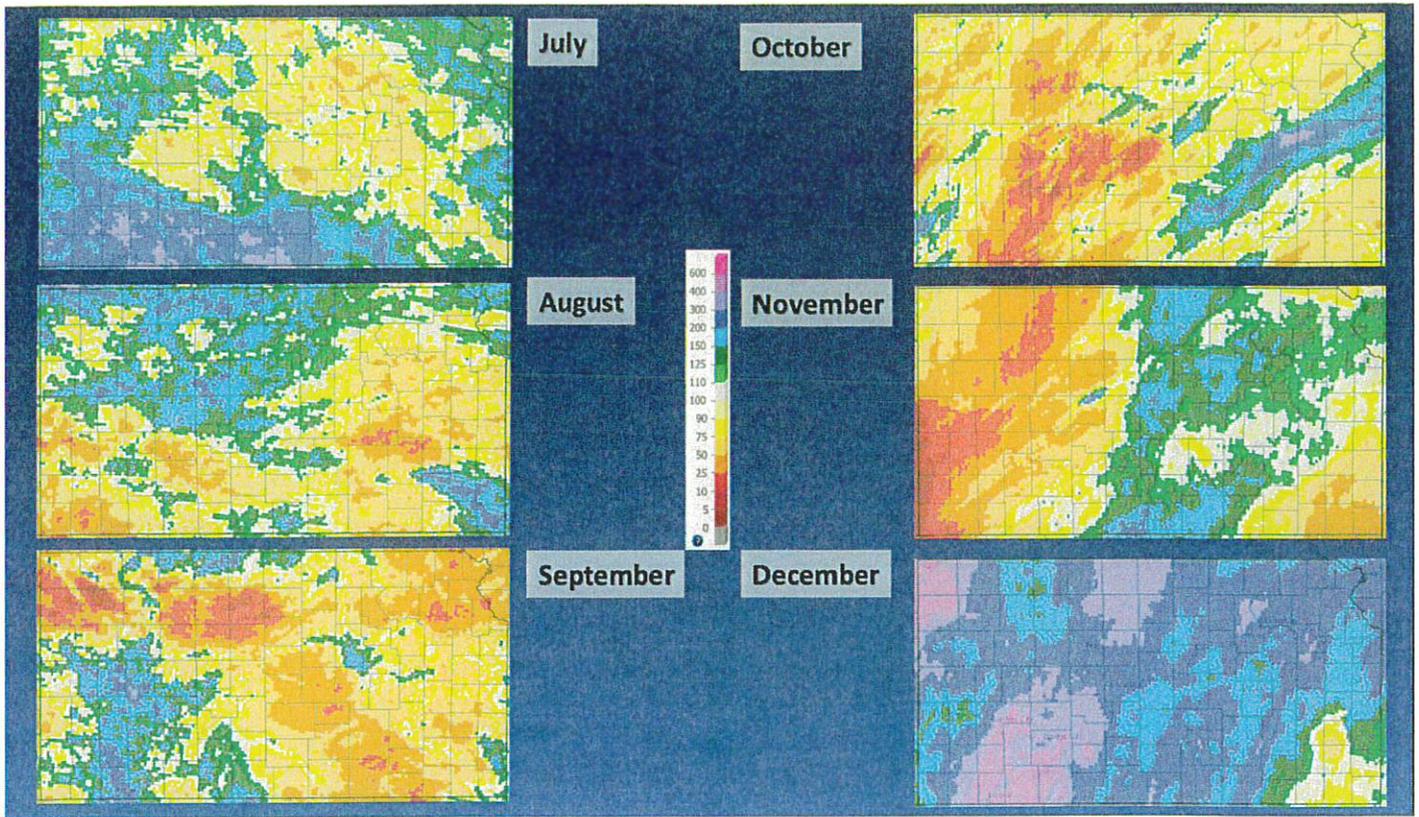
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Valid on: January 01, 2024 - 12:00 UTC



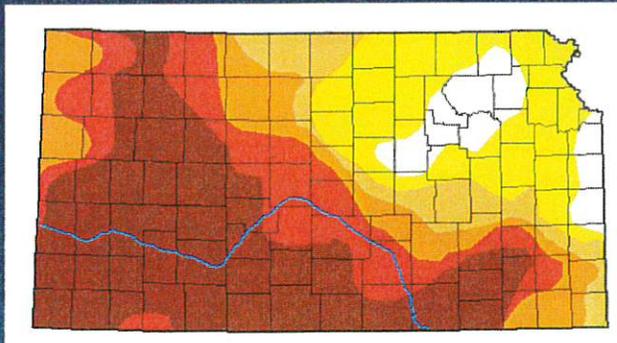
# Percent Departure from Normal Precipitation, 2022

January 01, 2022 Annual Percent Precipitation  
Created on January 06, 2023 10:22:47 AM  
Last file: January 01, 2023 10:00 AM

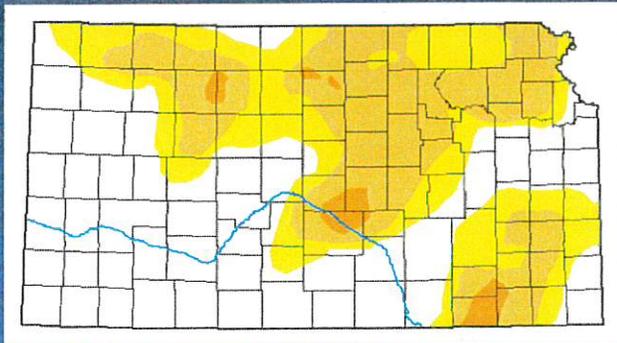




## UNL Drought Monitor



02/14/2023



02/13/2024

### Intensity

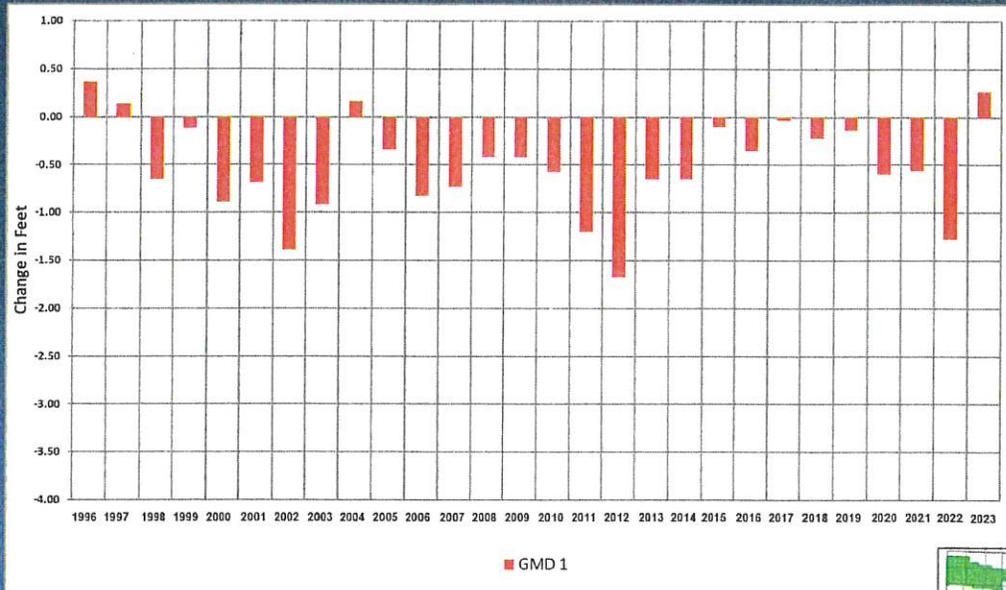
- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

### Authors

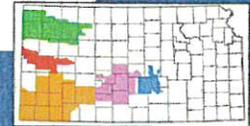
United States and Puerto Rico Author(s):  
 Deborah Bathke, National Drought Mitigation Center



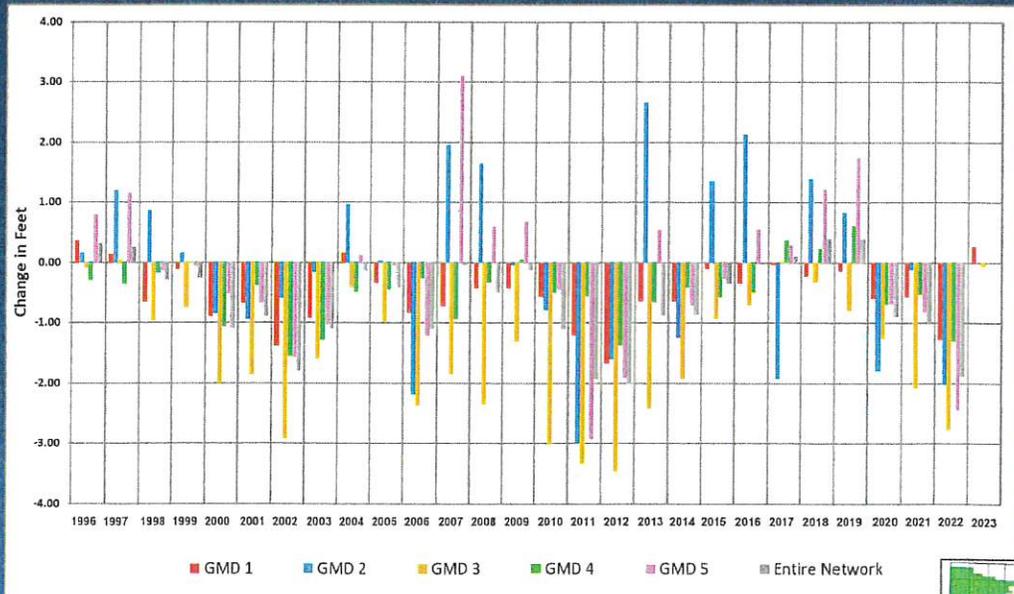
## Average Change, GMD1 (by Well)



\*Results are based only on the cooperative network (KGS and KDA-DWR) and do not include sub-regional networks from the KDA-DWR, KGS, or local GMDs. 2024 water levels are provisional.



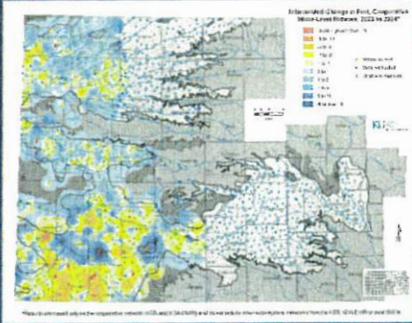
## Average Change (by Well)

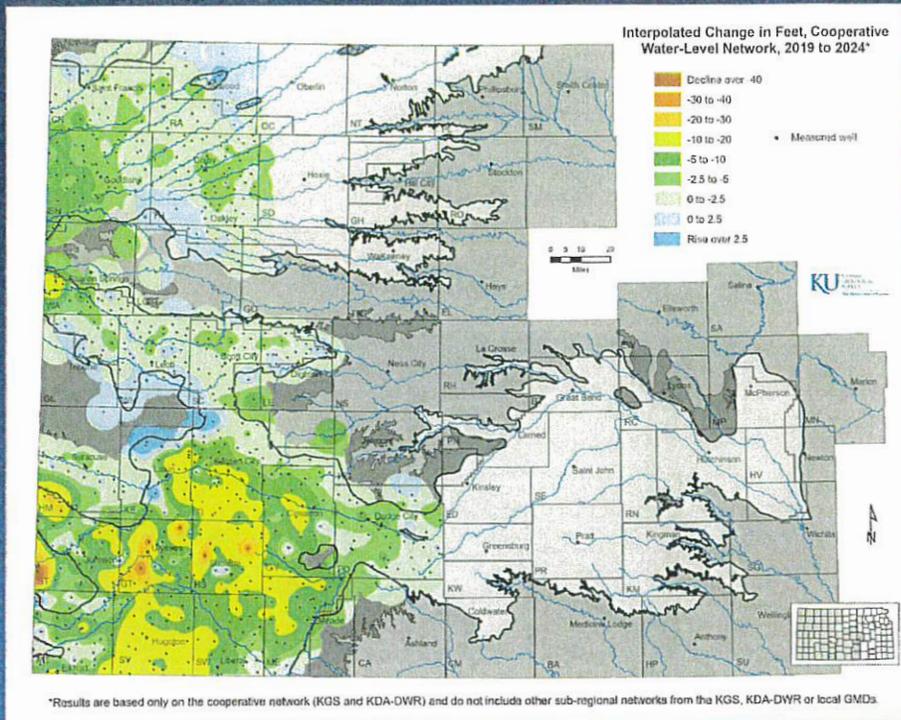


\*Results are based only on the cooperative network (KGS and KDA-DWR) and do not include sub-regional networks from the KDA-DWR, KGS, or local GMDs. 2024 water levels are provisional.



2023





# Status of the High Plains Aquifer in Kansas

KGS Technical Series 25- <https://kgs.ku.edu/2023-status-high-plains-aquifer-kansas>

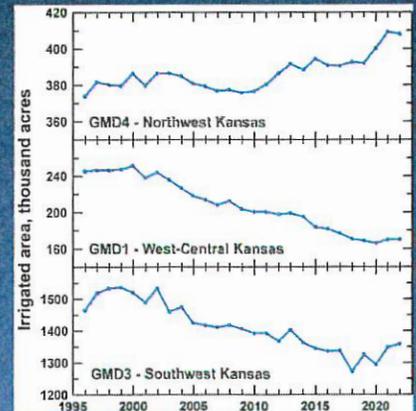
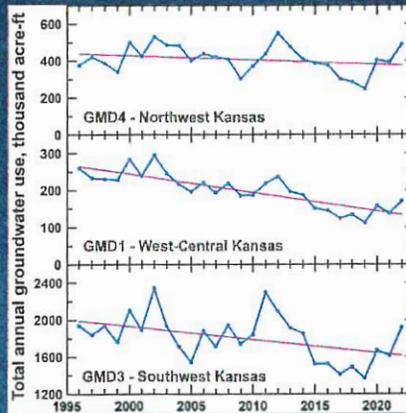
KANSAS GEOLOGICAL SURVEY

## 2023 Status of the High Plains Aquifer in Kansas

Donald G. Whittemore  
James J. Butler, Jr.  
B. Brownie Wilson

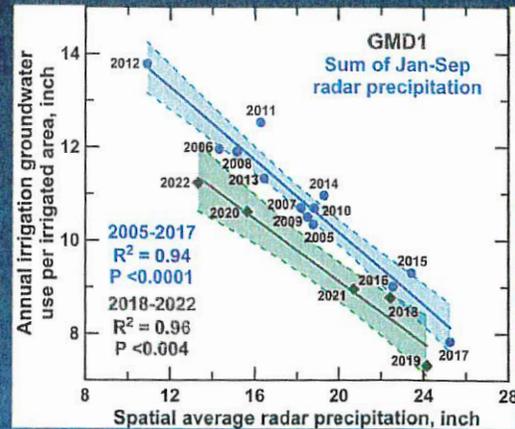
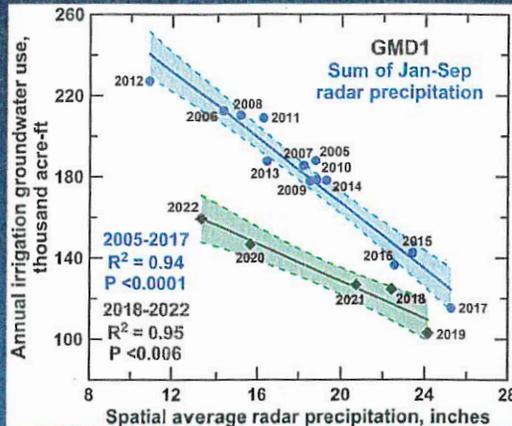


TECHNICAL SERIES 25 | 2023



# Status of the High Plains Aquifer in Kansas

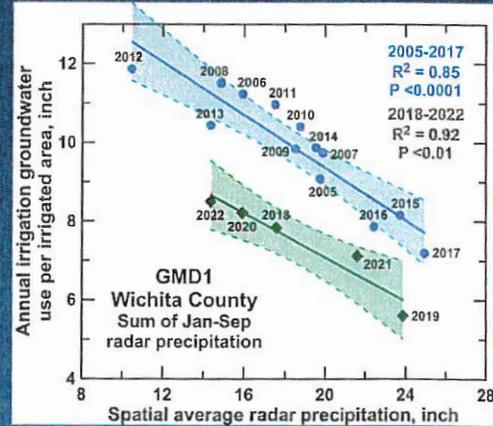
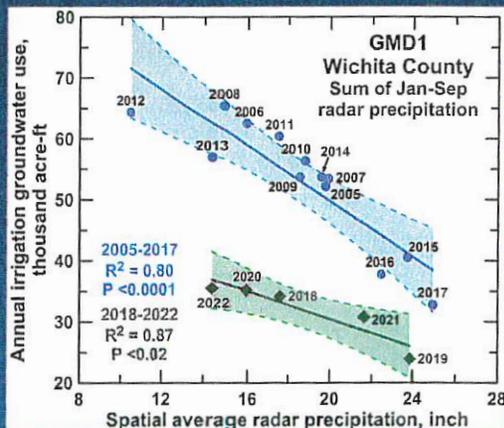
KGS Technical Series 25- <https://kgs.ku.edu/2023-status-high-plains-aquifer-kansas>



- 24% less usage for the last 5 years (2018 to 2022)
- 10% less acre-feet per acre usage
- 14% attributed to a reduction in acreage

# Status of the High Plains Aquifer in Kansas

KGS Technical Series 25- <https://kgs.ku.edu/2023-status-high-plains-aquifer-kansas>



- 40% less usage for the last 5 years (2018 to 2022)
- 24% less acre-feet per acre usage
- 16% attributed to a reduction in acreage

**Questions????**

**Kansas Geological Survey  
1930 Constant Ave  
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785-864-2118**



Visit our site at  
<http://www.kgs.ku.edu>