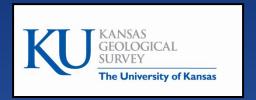
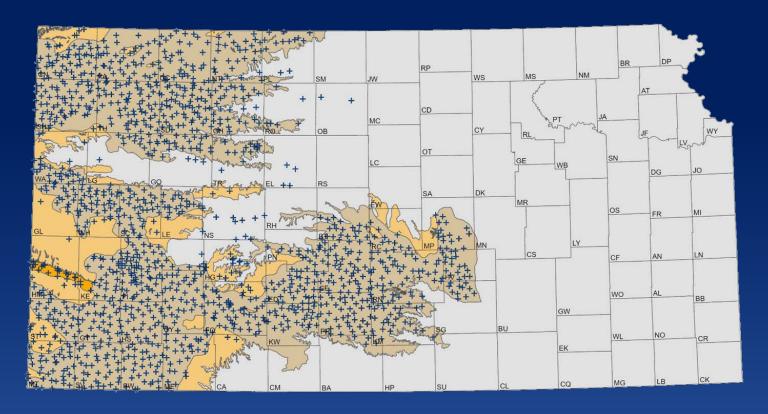
Overview of written testimony submitted by Brownie Wilson, Kansas Geological Survey

Proposed GMD1 Wichita County LEMA Hearing August 14, 2020



Kansas Geological Survey
University of Kansas

Kansas Annual Cooperative Water Level Network

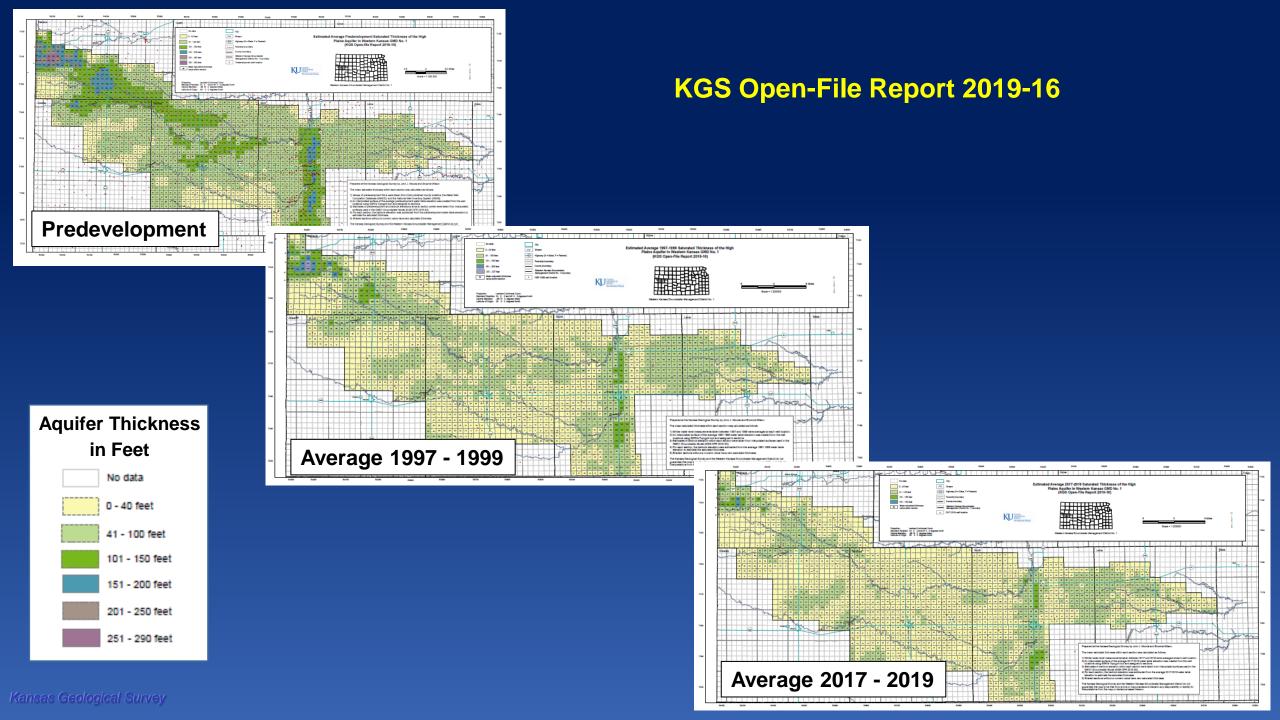


- ~1,400 wells measured annually by the KGS and KDA-DWR
- Data can accessed from the Water Information Storage and Retrieval database (WIZARD)
- Provides regional characterizations of the aquifer at regional- and sub-county scales









KGS Open-File Report 2015-33

Figure SA5.

Annual aquifer budget for Wichita County for the no change in future water use scenario.

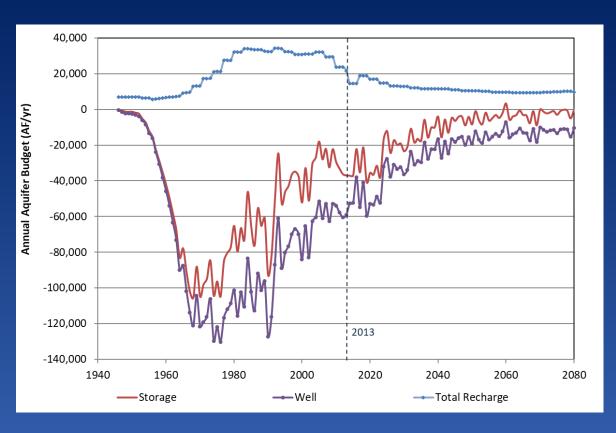
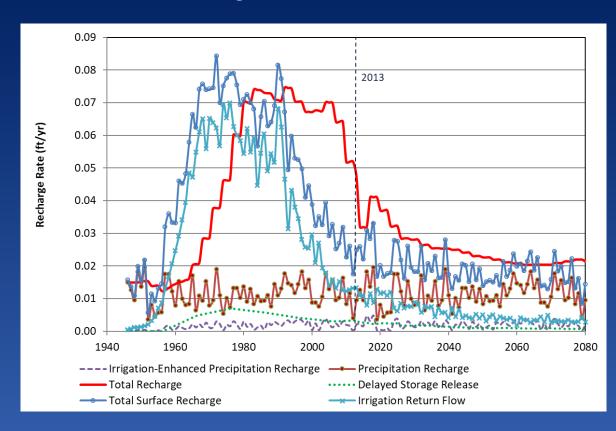
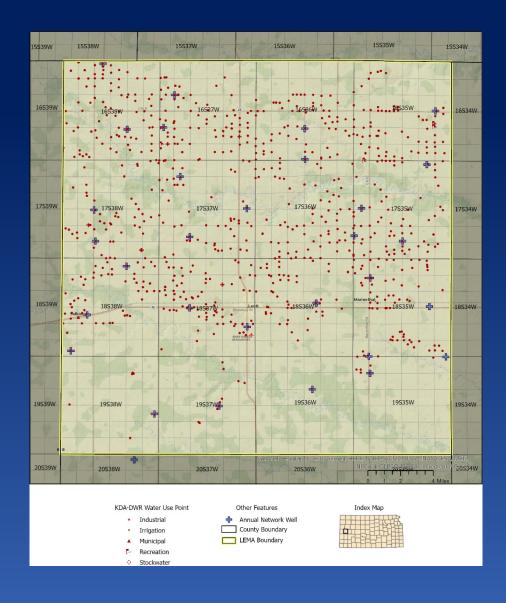


Figure SA6.

Different recharge components for Wichita County for the no change in future water use scenario.



Wichita County Groundwater Use vs Water-Level Change



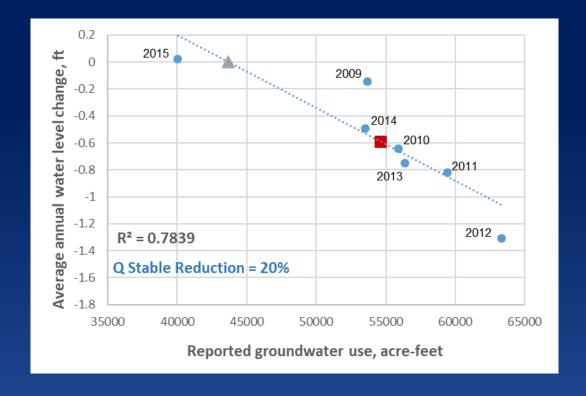


Figure 3. Average annual water-level change versus annual water use from 2009 to 2015 for the proposed Wichita County LEMA. Dashed line is the best-fit straight line to the plot. Overall average conditions for both water use and water-level change is represented by the maroon square. Water use, under stable water-level conditions, is shown by the olive-colored triangle.