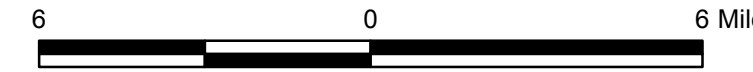
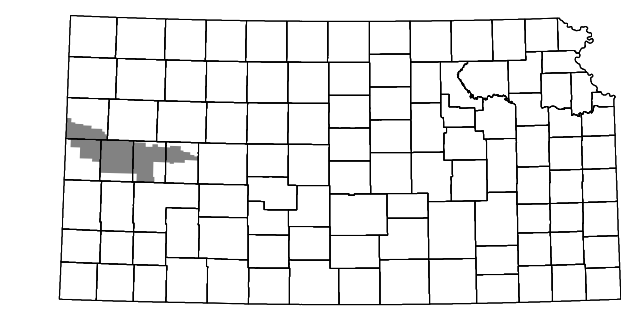


**Estimated Average 2017-2019 Saturated Thickness of the High Plains Aquifer in Western Kansas GMD No. 1 (KGS Open-File Report 2019-16)**

**Legend**

- No data
- 0 - 40 feet
- 41 - 100 feet
- 101 - 150 feet
- 151 - 162 feet
- 50 Mean saturated thickness value within section
- City
- Stream
- Highway (S = State, F = Federal)
- Township boundary
- County boundary
- Western Kansas Groundwater Management District No. 1 boundary
- 2017-2019 well location

Projection: Lambert Conformal Conic  
 Standard Parallels: 33 0 0 and 45 0 0 degrees North  
 Central Meridian: -98 15 0 degrees West  
 Latitude of Origin: 36 0 0 degrees North



Scale = 1:220000

Prepared at the Kansas Geological Survey by John J. Woods and Brownie Wilson

The mean saturated thickness within each section was calculated as follows:

- 1) Winter water level measurements taken between 2017 and 2019 were averaged at each well location.
- 2) An interpolated surface of the average 2017-2019 water table elevation was created from the well locations using ESRI's Topogrid tool and assigned to sections.
- 3) Estimates of bedrock elevation within each section were taken from interpolated surfaces used in the GMD1 Groundwater Model (KGS OFR 2015-33).
- 4) For each section, the bedrock elevation was subtracted from the average 2017-2019 water table elevation to estimate the saturated thickness.
- 5) Shaded sections without a numeric value have zero saturated thickness.

The Kansas Geological Survey and the Western Kansas Groundwater Management District do not guarantee this map to be free from errors or inaccuracies and disclaim any responsibility or liability for interpretations from the map or decisions based thereon.