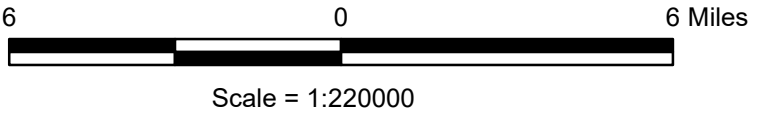
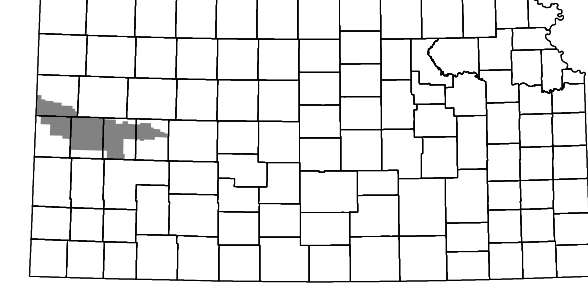


Estimated Average 2000-2022 Saturated Thickness of the High Plains Aquifer in Western Kansas GMD No. 1 (KGS Open-File Report 2022-8)

Legend

- No data
- 0 - 40 feet
- 41 - 100 feet
- 101 - 150 feet
- 151 - 200 feet
- 201 - 223 feet
- 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
- 2000-2022 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



Western Kansas Groundwater Management District No. 1

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 2000 and 2002 were averaged at each well location.
- 2) An interpolated surface of the average 2000-2002 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 2000-2002 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.