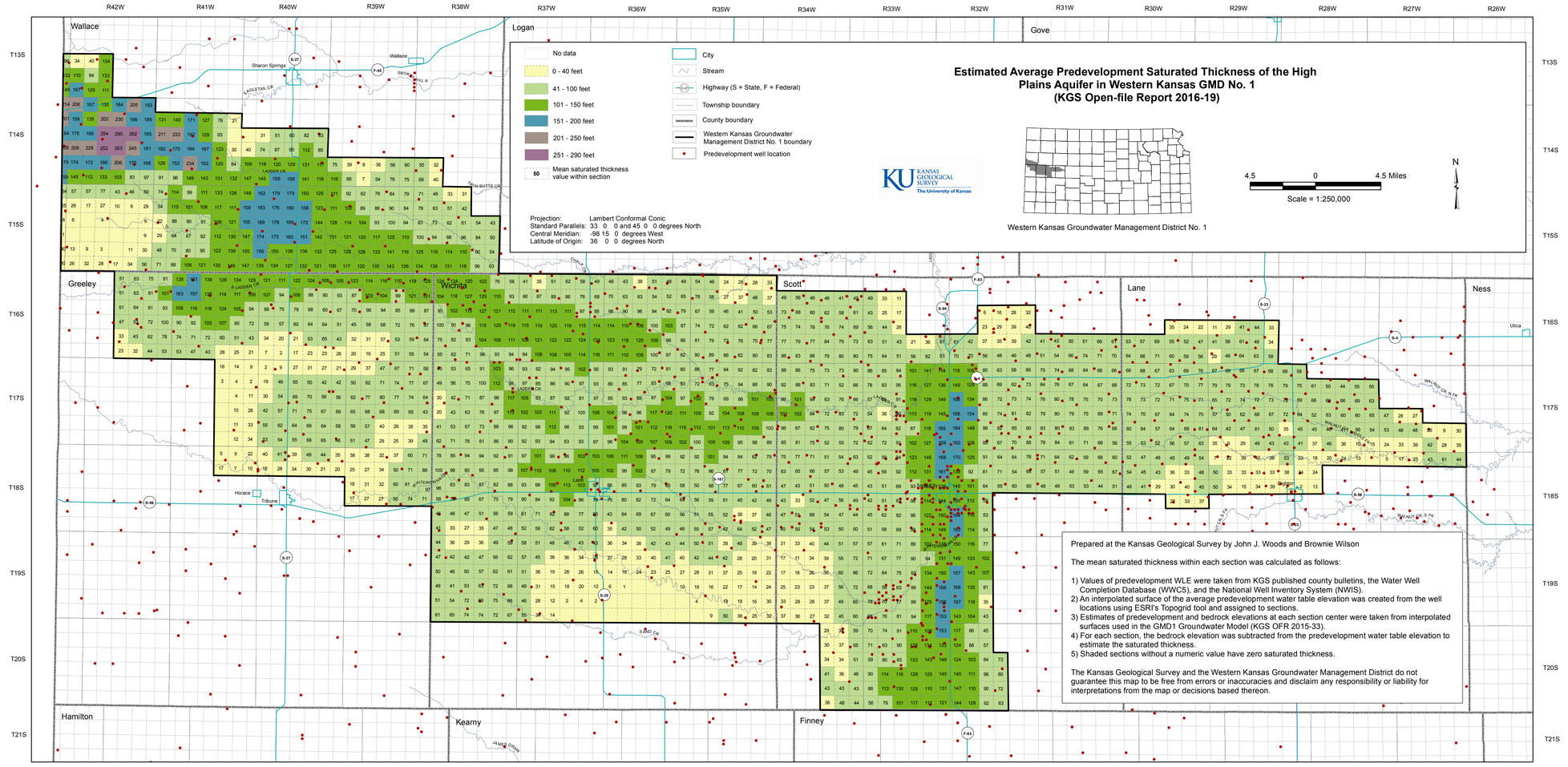

No data
0 - 40 feet
41 - 100 feet
101 - 150 feet
151 - 200 feet
201 - 250 feet
251 - 290 feet
50 Mean saturated thickness value within section

City
Stream
Highway (S = State, F = Federal)
Township boundary
County boundary
Western Kansas Groundwater Management District No. 1 boundary
Predevelopment 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

Estimated Average Predevelopment Saturated Thickness of the High Plains Aquifer in Western Kansas GMD No. 1 (KGS Open-file Report 2016-19)

KU KANSAS GEOLOGICAL SURVEY The University of Kansas

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) Values of predevelopment WLE were taken from KGS published county bulletins, the Water Well Completion Database (WWC5), and the National Well Inventory System (NWIS).
2) An interpolated surface of the average predevelopment water table elevation was created from the well locations using ESRI's Topogrid tool and assigned to sections.
3) Estimates of predevelopment and bedrock elevations at each section center 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 predevelopment water table elevation to estimate the saturated thickness.
5) Shaded sections without a numeric value have zero saturated thickness.

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