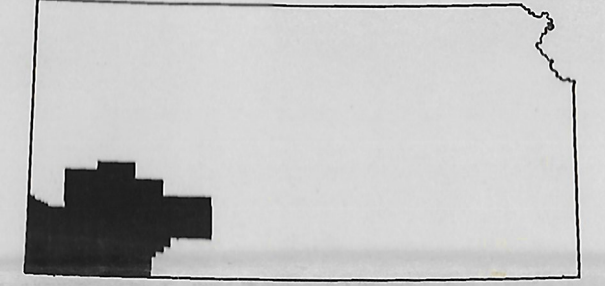
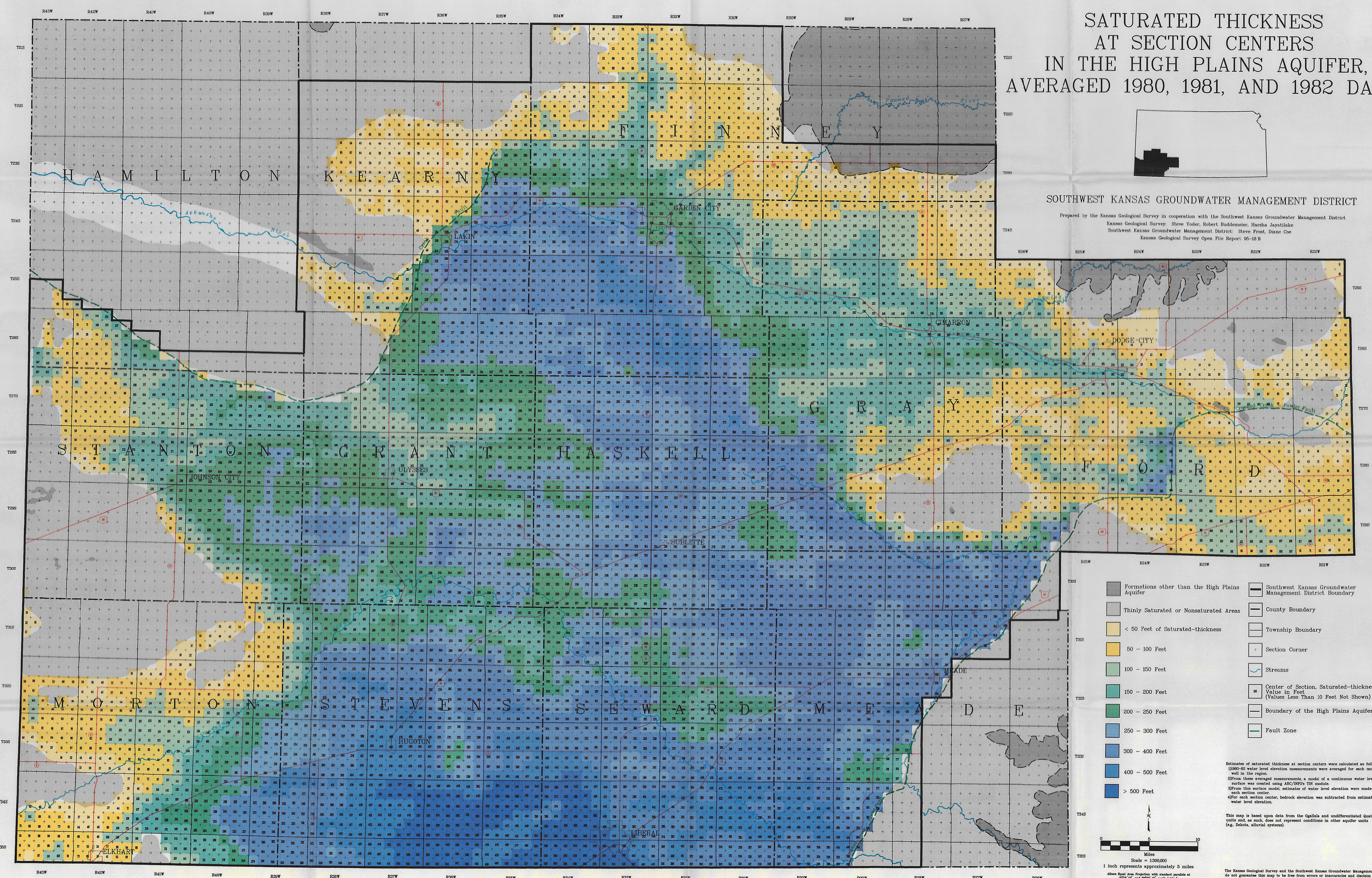


SATURATED THICKNESS AT SECTION CENTERS IN THE HIGH PLAINS AQUIFER, AVERAGED 1980, 1981, AND 1982 DATA



SOUTHWEST KANSAS GROUNDWATER MANAGEMENT DISTRICT

Prepared by the Kansas Geological Survey in cooperation with the Southwest Kansas Groundwater Management District
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|---|---|
| Formations other than the High Plains Aquifer | Southwest Kansas Groundwater Management District Boundary |
| Thinly Saturated or Nonsaturated Areas | County Boundary |
| < 50 Feet of Saturated-thickness | Township Boundary |
| 50 - 100 Feet | Section Corner |
| 100 - 150 Feet | Streams |
| 150 - 200 Feet | Center of Section, Saturated-thickness Value in Feet (Values Less Than 10 Feet Not Shown) |
| 200 - 250 Feet | Boundary of the High Plains Aquifer |
| 250 - 300 Feet | Fault Zone |
| 300 - 400 Feet | |
| 400 - 500 Feet | |
| > 500 Feet | |

Estimates of saturated thickness at section centers were calculated as follows:
1) 1980-82 water level elevation measurements were averaged for each monitoring well in the region.
2) From these averaged measurements, a model of a continuous water level surface was created using ARC/INFO GIS module.
3) From this surface model, estimates of water level elevation were made at each section center.
4) For each section center, bedrock elevation was subtracted from estimated water level elevation.

This map is based upon data from the Ogallala and undifferentiated Quaternary units and, as such, does not represent conditions in other aquifer units (e.g., Dakota, alluvial systems).

Scale = 1:500,000
1 inch represents approximately 5 miles
Albers Equal Area Projection with standard parallels at 37°24' 40" and 37°54' 40" north latitude.

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