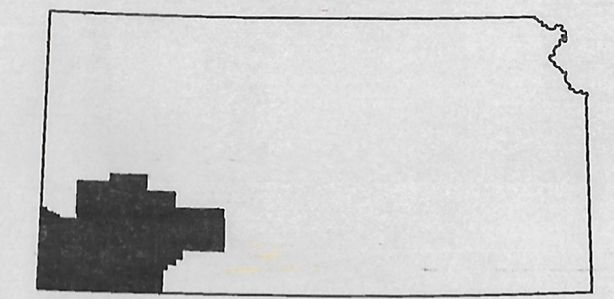
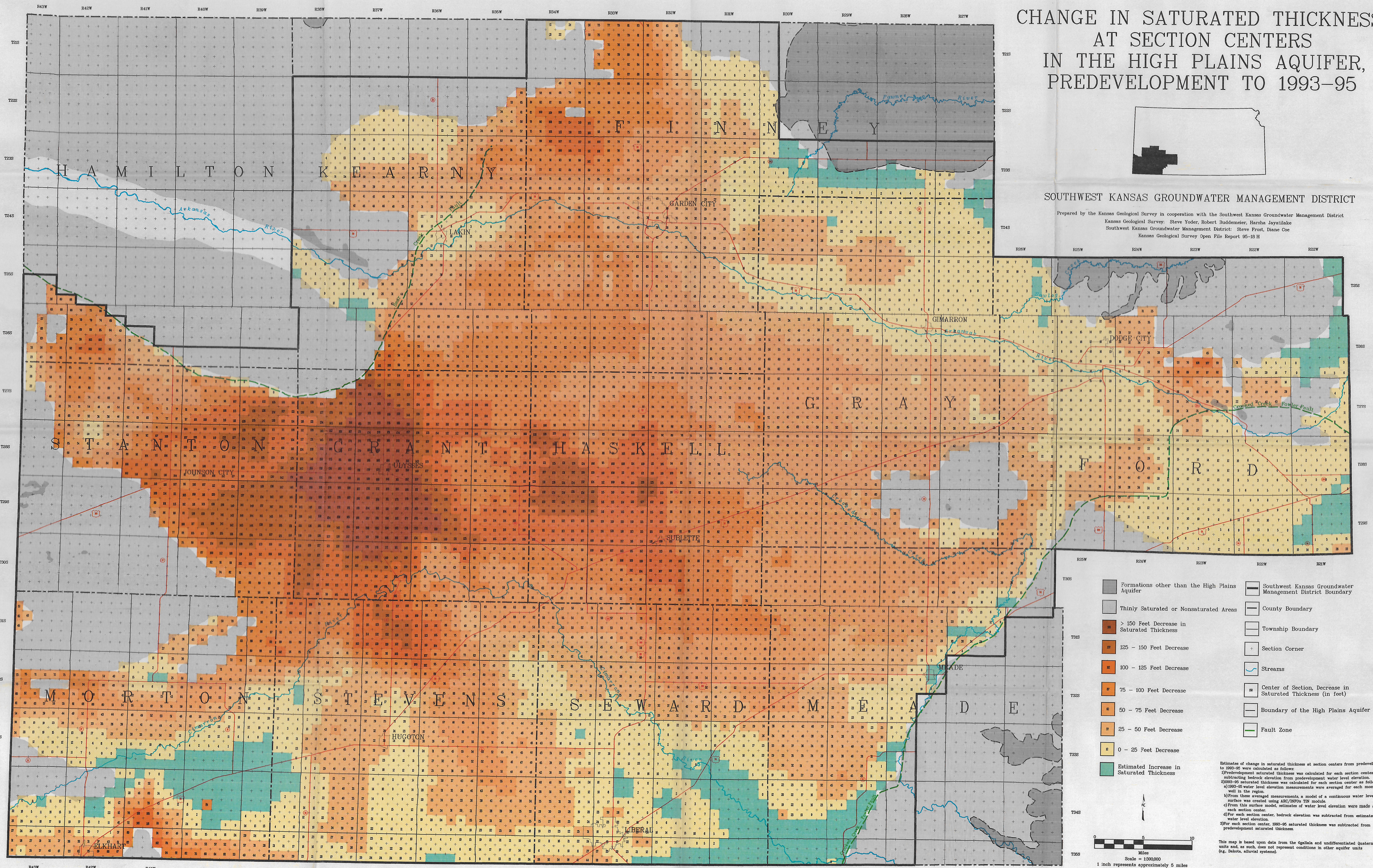


CHANGE IN SATURATED THICKNESS AT SECTION CENTERS IN THE HIGH PLAINS AQUIFER, PREDEVELOPMENT TO 1993-95



SOUTHWEST KANSAS GROUNDWATER MANAGEMENT DISTRICT

Prepared by the Kansas Geological Survey in cooperation with the Southwest Kansas Groundwater Management District
Kansas Geological Survey: Steve Yoder, Robert Buddemeier, Harsha Jayatilake
Southwest Kansas Groundwater Management District: Steve Frost, Diane Coe
Kansas Geological Survey Open File Report 95-10 H



Estimates of change in saturated thickness at section centers from predevelopment to 1993-95 were calculated as follows:
1) Predevelopment saturated thickness was calculated for each section center by subtracting bedrock elevation from predevelopment water level elevation.
2) 1993-95 saturated thickness was calculated for each section center as follows:
a) 1993-95 water level elevation measurements were averaged for each monitoring well in the region.
b) From these averaged measurements, a model of a continuous water level surface was created using ARC/INFO TIN module.
c) From this surface model, estimates of water level elevation were made at each section center.
d) After each section center, bedrock elevation was subtracted from estimated water level elevation.
3) For each section center, 1993-95 saturated thickness was subtracted from predevelopment saturated thickness.

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 system).

The Kansas Geological Survey and the Southwest 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.