Estimated Percent Change in Saturated Thickness, Predevelopment to Average 2019-2021, of the High Plains Aquifer in Western Kansas GIS Map No. 1 (KGS Open-File Report 2021-2)

- Green sections without a numeric value have zero computed percent change in saturated thickness.
- Estimates of the mean predevelopment and bedrock elevations within each section were taken from locations using ESRI's Topogrid tool and assigned to sections.
- An interpolated surface of the average 2019-2021 water table elevation was created from the well information and then digitized to create the GIS map.
- Estimated percent change in saturated thickness within sections were calculated as follows:
  1. The average water table measurements from 2019 and 2020 were averaged of each sample location to obtain the average water table elevation for the area.
  2. An interpolated surface of the average water table elevation was created from the well information and then digitized to create the GIS map.
  3. Estimates of the mean predevelopment and bedrock elevations within each section were taken from locations using ESRI's Topogrid tool and assigned to sections.
  4. The difference between the predevelopment water table elevation and the average 2019-2021 water table elevation was calculated to obtain the change in the water table elevation.
  5. The estimated percent change in saturated thickness was calculated by dividing the change in the water table elevation by the thickness of the saturated thickness layer.
  6. Green sections without a numeric value have zero computed percent change in saturated thickness.

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