SURFICIAL GEOLOGY OF GEARY COUNTY, KANSAS

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GENERAL GEOLOGY
Geary County is an area of about 404 mi² (1,046 km²) in southeastern Kansas. It is bounded to the north by the Kansas River, to the east by the Osage River, to the south by the Kansas-Oklahoma state line, and to the west by the Smoky Hill River. The county is primarily composed of Cenozoic sediments, with some Eocene-Oligocene and Miocene deposits in the extreme southeastern corner.

The Kansas River valley within the county is a meandering channel with slight meanders, and the Osage River valley is a narrow, straight channel. The Smoky Hill River valley is a broad, straight channel with some meanders.

The Kansas River and Osage River valleys are characterized by alluvial fans and terraces, while the Smoky Hill River valley is characterized by alluvial fans, terraces, and valley fill.

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