

WESTERN INTERIOR PLAINS CONFINING SYSTEM

[illegible]

FIGURE 9.—Geohydrologic section showing relation of Western Interior Plains confining system to other geohydrologic systems

[illegible]

FIGURE 10.—Map showing extent and thickness of Western Interior Plains confining system

WESTERN INTERIOR PLAINS AQUIFER SYSTEM

This geological cross-section illustrates the relationship between the Western Interior Plains aquifer system and other geohydrologic systems. The vertical axis on the right is labeled 'FEET' and ranges from 4000 at the top to 4000 at the bottom, with intermediate markings at 3000, 2000, 1000, and SEA LEVEL. The horizontal axis at the bottom is labeled 'TRACE OF SECTION A-A' is shown in figure 2'. The section shows several distinct geological layers: the High Plains aquifer system at the top, followed by the Great Plains confining system and the Great Plains aquifer system. Below these is the Western Interior Plains confining system, which contains the Upper aquifer unit and the Lower aquifer unit of the Western Interior Plains aquifer system. The entire system is underlain by the Basement confining system. A vertical line labeled 'FACE OF SOUTHERN SLOPE' indicates a boundary. A vertical scale bar on the right is labeled 'VERTICAL SCALE GREATLY EXAGGERATED'.

FIGURE 11.—Geohydrologic section showing relation of Western Interior Plains aquifer system to other geohydrologic systems

Map of Kansas showing the Western Interior Plains Aquifer System. The map displays county boundaries and names, with major cities marked. Contour lines indicate the thickness of the aquifer system, with labels for 1000, 1500, and 2000 feet. The map is bounded by latitude and longitude coordinates. A scale bar at the bottom indicates distances in miles and kilometers. An explanation key at the bottom right defines the symbols used on the map.

EXPLANATION

- AREA WHERE WESTERN INTERIOR PLAINS AQUIFER SYSTEM IS ABSENT
- 1000 — LINE OF EQUAL THICKNESS OF UPPER CAMBRIAN THROUGH UPPER MISSISSIPPIAN ROCKS THAT COMPOSE THE WESTERN INTERIOR PLAINS AQUIFER SYSTEM. Interval 500 and 1,000 feet
- — — — — APPROXIMATE BOUNDARY BETWEEN WESTERN INTERIOR PLAINS AND CLARK FORK PLAINS AQUIFER SYSTEM

FIGURE 8.—Map showing extent and thickness of Great Plains aquifer system

Map from U.S. Geological Survey
State base map, 1:500,000, 1984

SCALE 1:2,000,000
0 10 20 30 40 50 60 MILES
0 10 20 30 40 KILOMETERS

EXPLANATION

- AREA WHERE WESTERN INTERIOR PLAINS AQUIFER SYSTEM IS ABSENT
- 1000— LINE OF EQUAL THICKNESS OF UPPER CAMBRIAN THROUGH UPPER MISSISSIPPIAN ROCKS THAT COMPOSE THE WESTERN INTERIOR PLAINS AQUIFER SYSTEM. Interval 500 and 1,000 feet
- APPROXIMATE BOUNDARY BETWEEN WESTERN INTERIOR PLAINS AND PLAINS AND APPALACHIAN AQUIFER SYSTEMS

FIGURE 12.—Map showing extent and thickness of Western Interior Plains aquifer system

BASEMENT CONFINING SYSTEM

Base from U.S. Geological Survey
 Data from maps 1:500,000, 1:250,000, 1:62,500

SCALE 1:2,000,000

Modified from Cole, 1976

FIGURE 13.—Map showing altitude of top of basement confining system.

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1990