

# Generalized Geologic and Hydrostratigraphic Framework of Nebraska 2011, ver. 2

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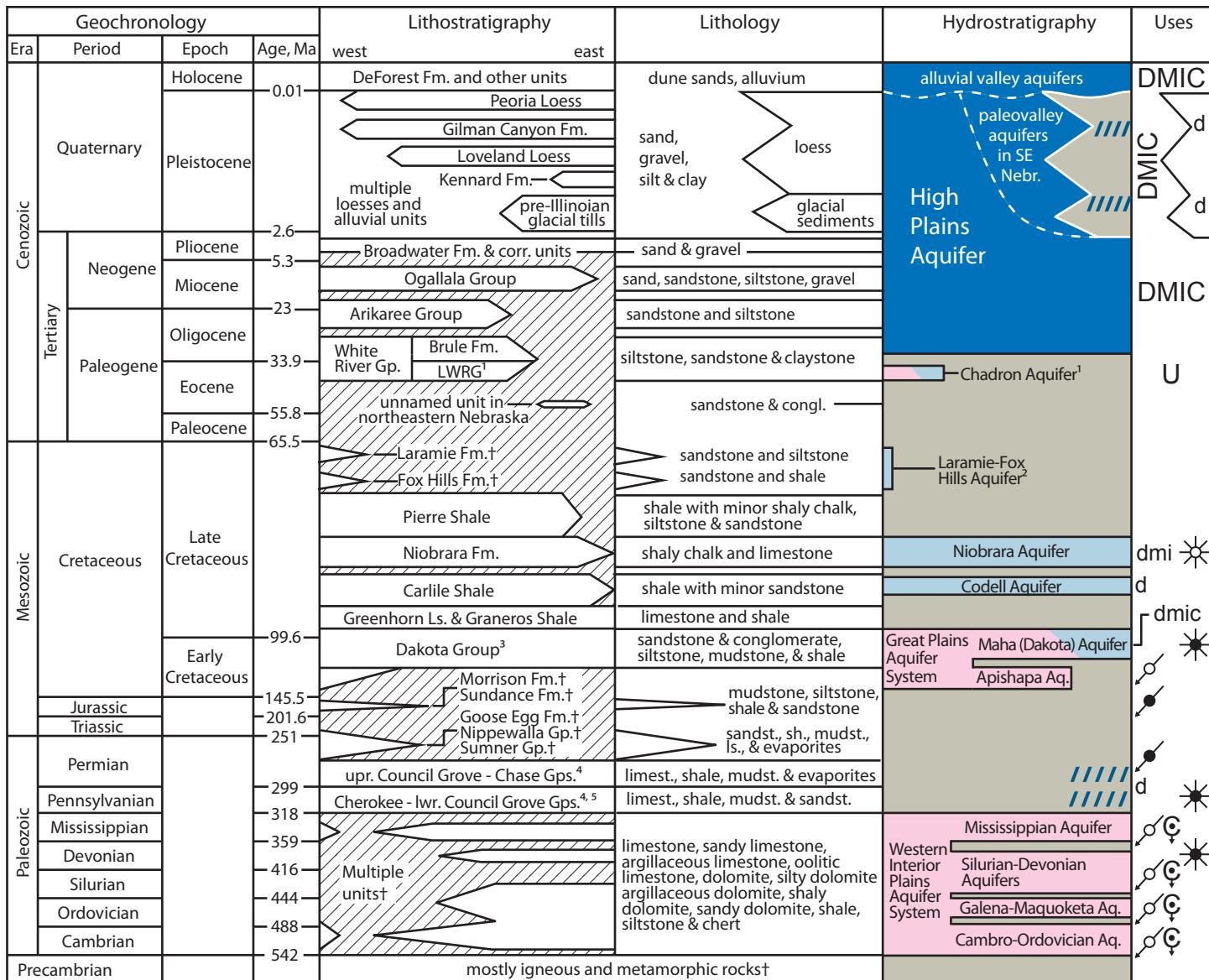


Diagram is not to scale relative to geologic time and stratigraphic thicknesses.

## Hydrostratigraphic characteristics and water quality

- primary aquifers with good quality water
- secondary aquifers with good quality water
- secondary aquifers with generally poor quality water
- aquitards with local low-yield aquifers
- aquitards

## Groundwater uses and related aspects

- major domestic use
- minor domestic use
- major irrigation use
- minor irrigation use
- major municipal use
- minor municipal use
- major commercial/industrial use
- minor commercial/industrial use
- units used for wastewater injection
- units with potential use for wastewater injection
- unit mined for uranium by in-situ leaching (Dawes Co.)
- unit with potential use for carbon sequestration
- unit producing petroleum or natural gas
- unit with natural gas potential

<sup>1</sup> lower White River Group - includes Chamberlain Pass and Chadron Formations according to some authors; "Chadron Aquifer" historically refers to aquifer in lower White River Group

<sup>2</sup> important aquifer in Colorado, but present in Nebraska only in extreme southwestern Panhandle

<sup>3</sup> Dakota Formation in adjacent states

<sup>4</sup> includes correlative units with different names in northwest Nebraska

<sup>5</sup> Cherokee, Marmaton & Pleasanton Groups are not exposed in Nebraska

†present only in subsurface