

Plate 10

Douglas County Geology and Groundwater Resources

Laramie-Fox Hills Aquifer Extent Map

Notes: Extent of the aquifer was determined by compilation of detailed geologic maps covering the area combined with an analysis of permitted water wells. Geologic maps used in the compilation include most recent 1:24,000 scale geologic quadrangle maps or 1:100,000 scale maps where the large scale maps have not been prepared. Contours of the aquifer base were derived using measured surface attitude data combined with outcrop pattern analysis and subsurface penetration data where available.

Permitted well data were obtained from current Division of Water Resources permit files available online in February 2013 (<http://water.state.co.us/DataMaps/GISandMaps/Pages/GISDownloads.aspx>). Aquifer designations for water wells are from the DWR permit file database.

Legend

- Towns and Cities
- Interstate 25
- Lakes
- Intermittent Streams
- Perennial Streams
- Faults
 - Normal (known, approximated, & inferred)
 - Reverse (known,approximated, & inferred,.)
 - Not Defined (concealed, approximated, & inferred)
- Townships

Laramie Fox Hills Aquifer Extent

- Laramie Formation wells
- Laramie-Fox Hills wells
- Estimate groundwater flow direction
- Laramie-Fox Hills intersecting alluvium
- Laramie Formation, outcrop
- Fox Hills Sandstone, outcrop
- Laramie-Fox Hills, concealed;

