



LEGEND

- Kcd
 Colorado group and Dakota sandstone (limestone, chert, shale, and sandstone)
- UNCONFORMITY**
- Css
 Shale, sandstone, and siltstone (in Webster County only)
- UNCONFORMITY**
- Cm
 Missouri group (limestone and shale with some coal beds)
- Cd
 Des Moines group (shale, sandstone, some limestone, and productive coal beds)
- UNCONFORMITY**
- Csl
 "St. Louis limestone" (chiefly limestone, with some shale and sandstone; includes on map part of Warsaw limestone)
- Co
 Osage group (chiefly limestone with some shale. Includes Keokuk and Burlington limestones; on map includes part of Warsaw limestone)
- Ck
 Kinderhook group (shale, limestone, and sandstone)
- Dsc
 Sweetland Creek shale and State Quarry limestone (small areas in Muscatine and Johnson counties)
- Dic
 Lime Creek shale (cement, brick, and tile material)
- Dv
 Cedar Valley limestone (upper beds suitable for cement)
- Dw
 Wapsipinicon limestone (in part brecciated)
- UNCONFORMITY**
- Sn
 Niagara dolomite
- Om
 Maquoketa shale (brick, pottery, and cement material; some dolomite in northeastern counties)
- Ogd
 Galena dolomite, Decatur shale, and Plattville limestone
- Osp
 St. Peter sandstone (friable, white or iron-stained)
- Opc
 Prairie du Chien group (chiefly dolomite. Includes Shakopee dolomite, New Richmond sandstone, and Oregon dolomite)
- As
 Jordan sandstone and St. Lawrence formation (sandstone, shale, and dolomite)
- UNCONFORMITY**
- Aq
 Sioux quartzite

Flowing well
 Nonflowing well
 Contour on top of St. Peter sandstone
 Figures show elevation relative to sea level
 Contour interval 200 feet
 Artesian head of artesian water
 Contour interval 100 feet

GEOLOGIC MAP OF IOWA SHOWING ARTESIAN CONDITIONS AND ELEVATION OF ST. PETER SANDSTONE

Base compiled from U. S. Geological Survey atlas sheets, Land Office data, surveys by Mississippi and Missouri River commissions, county maps, and other sources.

Geology by Iowa Geological Survey
 Structure contours and artesian data by W. H. Norton

