

# BEDROCK GEOLOGIC MAP OF IOWA

1:500,000

Iowa Geological and Water Survey  
Open File Map OFM-2010-01  
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**EXPLANATION**

**CRETACEOUS**

- Kmt Manson Impact Structure, Tertiary Terrane (breccia)
- Kmm Manson Impact Structure, Crater Moat (shaly breccia)
- Kmc Manson Impact Structure, Central Peak (breccia, basaltic rock, impregnated)
- Km Holston Formation (shale)
- Kd Fort Benton Group (shale, chert)
- Kd Dakota and Winfield Formations (sandstone, shale)

**JURASSIC**

- Jf Fort Dodge Formation (limestone, redbeds)

**PENNSYLVANIAN**

- Pw Wabasha Group (shale, limestone)
- Pb Shawnee Group (limestone, shale)
- Pd Douglas Group (shale, limestone, sandstone)
- Pt Lansing Group (limestone, shale)
- Pb Hannan City Group (limestone, shale)
- Pb Bronson Group (limestone, shale)
- Pm Minnetonka Group (shale, limestone)
- Pcu Upper Cherokee Group (shale, sandstone, limestone)
- Pcl Lower Cherokee Group and Racoon Creek Group (shale, sandstone)

**MISSISSIPPIAN**

- Ms St. Louis and Pella Formations (dolomite, limestone, sandstone)
- Mg Argonne Group (dolomite, limestone, chert)
- Mg Gilmore City Formation (limestone, dolomite)
- Mk Middle Cambrian (dolomite, limestone, siliceous)

**DEVONIAN**

- Df Farnham Formations (shale, siliceous, dolomite)
- Di Line Creek and Reservoir Creek Formations (shale, limestone)
- Dc Cedar Valley Group (dolomite, limestone)
- Dw Wapsiegan Group (dolomite, limestone, anthracite)

**SILURIAN**

- Sg Glenora Formation (dolomite)
- Ss Scotch Grove Formation (dolomite, chert)
- Sh Hopkins, Standing, Tea, and Mott, Madison Formations (dolomite, chert)
- Sw LaPore City Formation (limestone, chert)
- Sw Waucoma Formation (limestone)

**ORDOVICIAN**

- Om Maquoketa Formation (shale, dolomite)
- Og Osborn Group and Potosi Formation (dolomite, shale, chert)
- Op Prairie du Chien Group and St. Peter Sandstone (limestone, sandstone)

**CAMBRIAN**

- Cw Jordan Sandstone of Laramie and Lone Rock Formations (sandstone, dolomite)
- Cc Waverne Formation (sandstone)
- Cc Eau Claire Formation (sandstone, shale)
- Cm Mt. Simon Sandstone (sandstone)

**PRECAMBRIAN**

- M Muscovite (gneiss)
- U Unit (U - upper, D - down)
- Fault (U - upper, D - down)
- Fault buried by Kd

Transparent shades of gray show the bedrock surface as viewed by illustration by an artificial light source coming from the NW direction.

