



- EXPLANATION**
- MIDDLE PROTEROZOIC**
- Yv Midcontinent rift system—Volcanic, plutonic, and sedimentary rocks (1.06–1.1 Ga)
 - Yfg Syenite of Laramie Mountains (1.43 Ga)
 - Yan Anorthosite of Laramie Mountains (1.43 Ga)
 - Ys Sherman Granite of Laramie and Medicine Bow Mountains (1.44 Ga)
 - Ya Anorogenic granitoid rocks of Midcontinent region (1.45–1.55 Ga)
 - Yer Eastern rhyolite-granite terrane (1.48 Ga)
- EARLY PROTEROZOIC**
- Xm Mylonitic gneiss and granite in Cheyenne belt, Medicine Bow Mountains
 - Xvs Juvenile crust (1.63–1.8 Ga) of Central Plains orogen
 - Xrg Anorogenic rhyolite-granite of central Wisconsin (~1.76 Ga)
 - Xv Juvenile crust (Wisconsin magmatic terranes, 1.83–1.9 Ga) of Penokean orogen; includes Late Archean basement (not differentiated) south of Eau Claire shear zone
 - Xsv Continental margin metasedimentary and metavolcanic rocks (1.85–2.2 Ga) overlying Archean basement of Penokean orogen
 - Xg Granite-granodiorite of Trans-Hudson orogen
 - Xs Continental margin metasedimentary and metavolcanic rocks (2.0–2.45 Ga) overlying Archean basement; includes successions in Lake Huron area (Huron Supergroup), Hartville uplift (Whalen Group), and Sierra Madre and Medicine Bow Mountains (Snowy Pass Supergroup)
- EARLY PROTEROZOIC AND ARCHEAN**
- XWvc Dominantly juvenile crust (central magnetic zone) of Trans-Hudson orogen; includes Archean rocks
 - XWvw Dominantly juvenile crust (western magnetic zone) of Trans-Hudson orogen; includes Archean rocks
 - XWb Superior-Churchill boundary zone—Supracrustal rocks on Archean basement
 - XWbh Black Hills domain—Migmatitic rocks (>2.0 Ga) and younger arc-related rocks on Archean basement
- ARCHEAN**
- WYOMING PROVINCE**
- Wtg Granite-tonalite (Late Archean)
 - Wv Dominantly metavolcanic rocks (Late Archean)
 - Agn Gneiss and amphibolite (Late to Early Archean)
 - Ar Archean rocks in subsurface; includes Early Proterozoic rocks
- SUPERIOR PROVINCE**
- Wwg Juvenile crust (2.68–2.75 Ga); includes, from south to north, Wawa subprovince, Quetico subprovince, and Wabigoon subprovince
 - Agn Gneiss and amphibolite intruded by granitic rocks (~2.6–2.7 Ga) of Minnesota River Valley subprovince; in Lake Huron area, south of Murray fault zone, may compose basement of unit Xs
- Contact—Approximately located; dashed where inferred
- High-angle fault—Dashed where inferred
- High-angle fault—Bar and ball on downthrown side
- Thrust fault of Middle Proterozoic age—Dashed where inferred; sawtooth on upper plate
- Thrust fault of Early Proterozoic age—Dashed where inferred; sawtooth on upper plate
- Thrust fault of Late Archean age—Dashed where inferred; sawtooth on upper plate
- CB Cheyenne belt
- GLTZ Great Lakes tectonic zone
- NACP North American Central Plains conductivity anomaly—Queried where uncertain
- BH Black Hills uplift
- Hu Hartville uplift
- Outline of mountain range

GENERALIZED GEOLOGIC-TECTONIC MAP OF PRECAMBRIAN ROCKS, NORTH-CENTRAL UNITED STATES AND ADJACENT CANADA

Compiled by
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1995

Platform cover removed
Compiled, 1995, from sources following:
Bickford, Van Schmus, and Zietz, 1986
Hauser, 1993
Houston, Karlstrom, Graff, and Flurkey, 1992
Houston and Karlstrom, 1992
Sims, 1990
Sims, Feterman, Hildenbrand, and Mahan, 1991
Nelson and others, 1993