

SOURCES OF MAP INFORMATION

WISCONSIN  
GEOLOGICAL AND NATURAL HISTORY SURVEY  
REGIONAL MAP SERIES

BEDROCK GEOLOGY OF WISCONSIN

NORTHEAST SHEET

by  
J.K. Greenberg and B.A. Brown

UNIVERSITY OF WISCONSIN- EXTENSION  
GEOLOGICAL AND NATURAL HISTORY SURVEY  
Meredith E. Ostrom, Director and State Geologist

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EXPLANATION OF MAP UNITS

| CORRELATION        | DESCRIPTION                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PALEOZOIC          | Ordovician                                                                                                                                                                                           |
|                    | Os Ordovician Sinnipee Group. Mostly carbonates.                                                                                                                                                     |
|                    | Opc Ordovician Ancell Group. Includes sandstone of the St. Peter Formation.                                                                                                                          |
|                    | Cu Ordovician Prairie du Chien Group. Mostly carbonates.                                                                                                                                             |
| MIDDLE PROTEROZOIC | Pws Undivided Cambrian Sediments. Mostly clastics.                                                                                                                                                   |
|                    | Pws Syenite. Quartz syenite, amphibole syenite, and nepheline syenite comprising a zoned pluton in northern Marathon County.                                                                         |
|                    | Pws Belongia Granite. Fine to coarse-grained granite, typically porphyritic.                                                                                                                         |
|                    | Pws Hager Porphyry. Fine to coarse-grained quartz, feldspar, and hornblende phenocrysts in a very fine-to-medium-grained groundmass.                                                                 |
|                    | Pws Wolf River Granite. Medium-to-coarse-grained porphyritic granite; commonly with Rapakivi texture.                                                                                                |
|                    | Pws Anorthosite and Gabbro. Present as inclusions in granite.                                                                                                                                        |
|                    | Pws Mangierite. Monzonitic plutons along the eastern margin of the Wolf River batholith.                                                                                                             |
|                    | Pqz Quartzite and Conglomerate. Contains minor phyllitic layers, at McCasin Mountain, Thunder Mountain and near the town of Mountain.                                                                |
|                    | Pgr Granitic Intrusive Rocks. Intermediate to granitic intrusions generally discrete, weakly to moderately deformed bodies; includes both massive and porphyritic varieties.                         |
|                    | Pgr Granite. Post-tectonic biotite granite plutons.                                                                                                                                                  |
| PRECAMBRIAN        | Pdi Dioritic Intrusive Rocks. Granodioritic to more commonly tonalitic, quartz dioritic, and hornblende dioritic rocks; massive to foliated and commonly intruded by granitic dikes.                 |
|                    | Pgn Gneiss. Banded, layered and migmatitic gneiss with subordinate amphibolite and biotite schist; often intruded by aplite and pegmatite.                                                           |
|                    | Pmg Mafic Intrusive Rocks. Variably metamorphosed mafic to ultramafic intrusions; includes a layered sequence near Merrill and magnetic units of unknown composition.                                |
|                    | Pms Metasedimentary Rocks. Meta-argillite, metasilstone, quartzite, meta-graywacke, meta-conglomerate, meta-iron formation and marble, with some minor interbedded metavolcanic rocks.               |
|                    | Pif Iron Formation. Magnetic iron-formation, known or inferred from areal magnetic surveys.                                                                                                          |
|                    | Pvn Metavolcanic Rocks. Mafic to bimodal metavolcanic rocks north of the Niagara Fault; gneissic and amphibolite metamorphic facies; similar to tholeiitic rift volcanic sequences.                  |
|                    | Pvs Metavolcanic Rocks. Mafic, intermediate, and felsic metavolcanic rocks with subordinate metasedimentary units south of the Niagara Fault; similar to calcalkaline island-arc volcanic sequences. |
|                    | Pagn Gneiss. Quartzofeldspathic and migmatitic gneiss with amphibolite and gneissic granite.                                                                                                         |
|                    | Pag Gneiss. Quartzofeldspathic gneiss, migmatite and amphibolite.                                                                                                                                    |
|                    | Pag Gneiss. Quartzofeldspathic gneiss, migmatite and amphibolite.                                                                                                                                    |
| ARCHAIC            |                                                                                                                                                                                                      |
|                    |                                                                                                                                                                                                      |

MAP SYMBOLS

- strike and dip of bedding
- strike of vertical bedding
- strike and dip of foliation, cleavage, layering
- strike of vertical foliation, cleavage, layering
- fault, observed or interpreted from geophysical data
- geologic contact, observed or inferred
- selected outcrops
- bedrock indication from boulders, loose blocks, and stone piles
- diamond drill hole
- water well data

Cartography by M.L. Czechanski and J.C. Zuiker