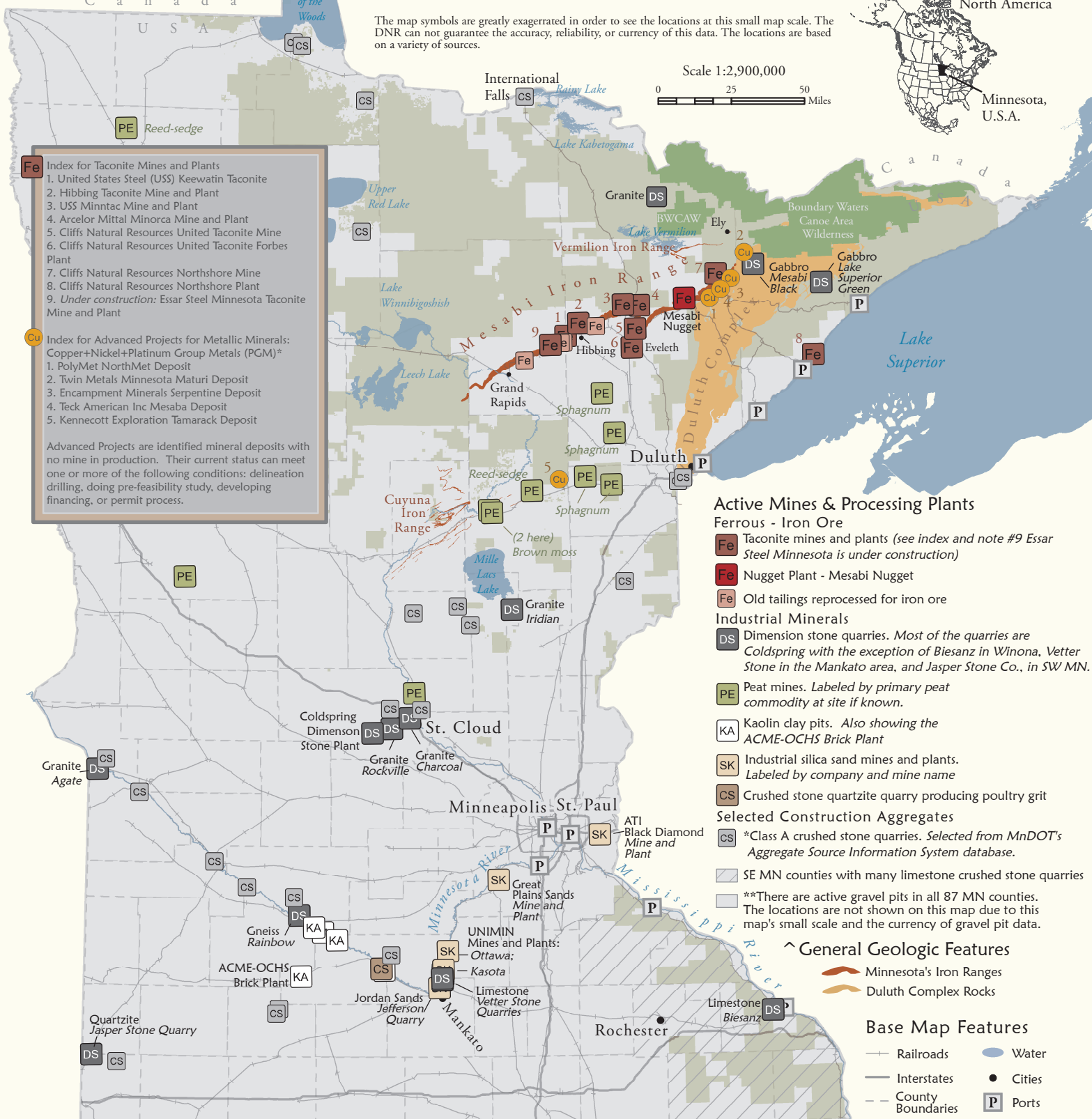




# MINNESOTA MINERALS

## Active Mines & Advanced Projects of Iron Ore, Metallic Minerals, Industrial Minerals, and Selected Construction Aggregates- January 2014

The map symbols are greatly exaggerated in order to see the locations at this small map scale. The DNR can not guarantee the accuracy, reliability, or currency of this data. The locations are based on a variety of sources.



**Fe** Index for Taconite Mines and Plants

1. United States Steel (USS) Keewatin Taconite
2. Hibbing Taconite Mine and Plant
3. USS Minntac Mine and Plant
4. Arcelor Mittal Minnora Mine and Plant
5. Cliffs Natural Resources United Taconite Mine
6. Cliffs Natural Resources United Taconite Forbes Plant
7. Cliffs Natural Resources Northshore Mine
8. Cliffs Natural Resources Northshore Plant
9. Under construction: Essar Steel Minnesota Taconite Mine and Plant

**Cu** Index for Advanced Projects for Metallic Minerals: Copper+Nickel+Platinum Group Metals (PGM)\*

1. Poly/Met NorthMet Deposit
2. Twin Metals Minnesota Maturi Deposit
3. Encampment Minerals Serpentine Deposit
4. Teck American Inc Mesaba Deposit
5. Kennecott Exploration Tamarack Deposit

Advanced Projects are identified mineral deposits with no mine in production. Their current status can meet one or more of the following conditions: delineation drilling, doing pre-feasibility study, developing financing, or permit process.

### Active Mines & Processing Plants

**Ferrous - Iron Ore**

- Fe** Taconite mines and plants (see index and note #9 Essar Steel Minnesota is under construction)
- Fe** Nugget Plant - Mesabi Nugget
- Fe** Old tailings reprocessed for iron ore

**Industrial Minerals**

- DS** Dimension stone quarries. Most of the quarries are Coldspring with the exception of Biesanz in Winona, Vetter Stone in the Mankato area, and Jasper Stone Co., in SW MN.
- PE** Peat mines. Labeled by primary peat commodity at site if known.
- KA** Kaolin clay pits. Also showing the ACME-OCHS Brick Plant
- SK** Industrial silica sand mines and plants. Labeled by company and mine name
- CS** Crushed stone quartzite quarry producing poultry grit

**Selected Construction Aggregates**

- CS** \*Class A crushed stone quarries. Selected from MnDOT's Aggregate Source Information System database.
- SE MN counties with many limestone crushed stone quarries
- \*\*There are active gravel pits in all 87 MN counties. The locations are not shown on this map due to this map's small scale and the currency of gravel pit data.

**General Geologic Features**

- Minnesota's Iron Ranges
- Duluth Complex Rocks

**Base Map Features**

- Railroads
- Interstates
- County Boundaries
- BWCAW
- National & State Forests
- Water
- Cities
- Ports

\*According to the Minnesota Department of Transportation (Mn/DOT) Class A quarries consist of basalt, diabase, gabbro, quartzite, or granite.\*\*For more information about aggregate resources visit the DNR's aggregate resource mapping webpage or MnDOT's ASIS database webpage. ^Geologic features sourced from Minnesota Geological Survey's State Map Series S-21, 2011.