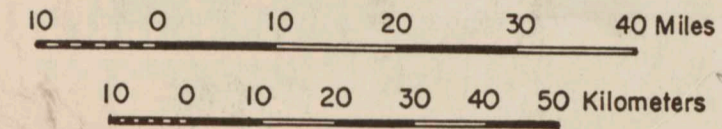


University of Minnesota, Minnesota Geological Survey, G.M. Schwartz, Director
MAP OF MINERAL RESOURCES OF MINNESOTA, 1954

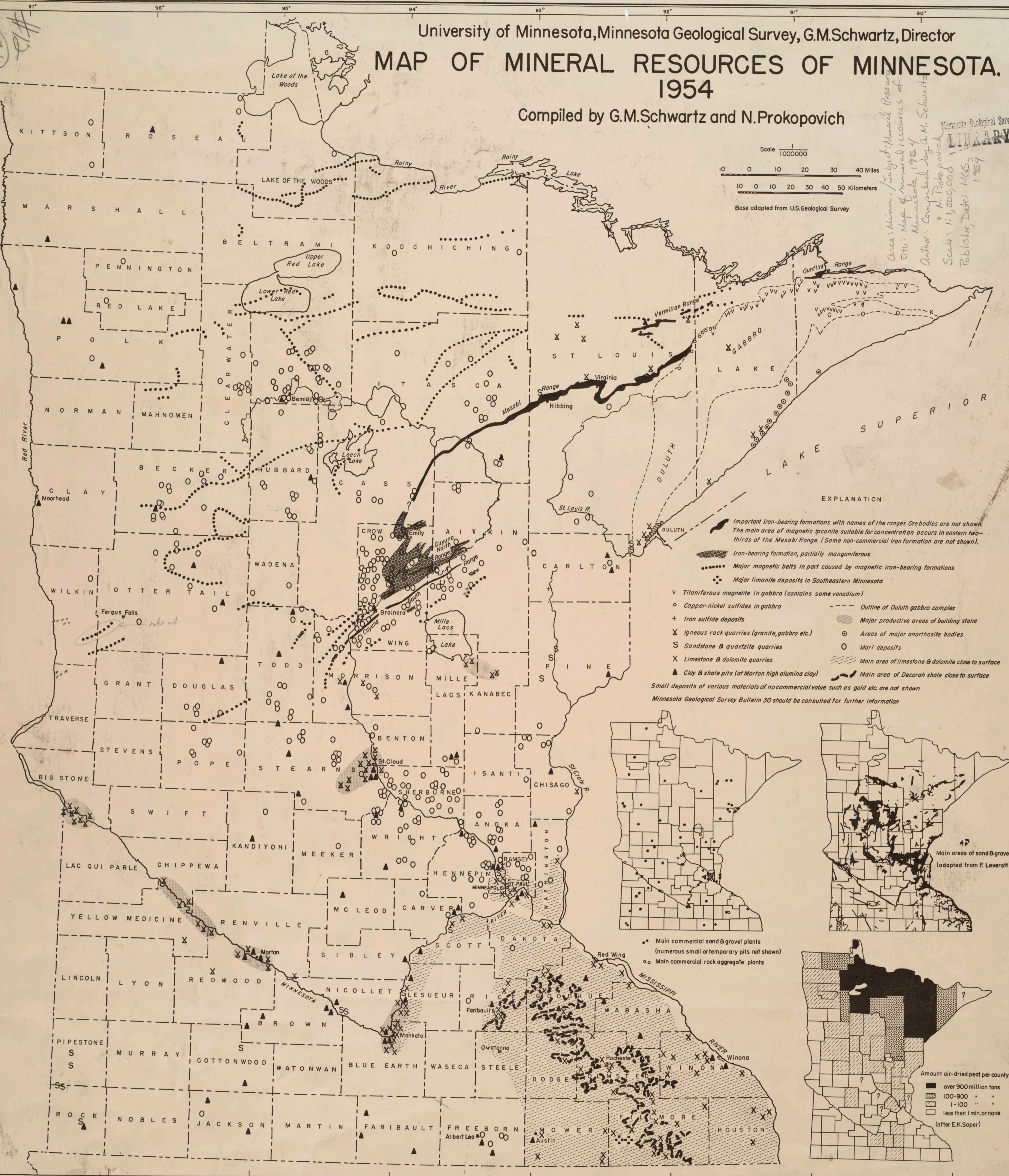
Compiled by G.M. Schwartz and N. Prokopovich

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Base adapted from U.S. Geological Survey



EXPLANATION

- Important iron-bearing formations with names of the ranges. Ore bodies are not shown. The main area of magnetic taconite suitable for concentration occurs in eastern two-thirds of the Mesabi Range. (Some non-commercial iron formation are not shown).
 - Iron-bearing formation, partially manganiferous
 - Major magnetic belts in part caused by magnetic iron-bearing formations
 - Major limonite deposits in Southeastern Minnesota
 - Titaniferous magnetite in gabbro (contains some vanadium)
 - Copper-nickel sulfides in gabbro
 - Iron sulfide deposits
 - Igneous rock quarries (granite, gabbro etc.)
 - Sandstone & quartzite quarries
 - Limestone & dolomite quarries
 - Clay & shale pits (at Morton high alumina clay)
 - Outline of Duluth gabbro complex
 - Major productive areas of building stone
 - Areas of major anorthosite bodies
 - Marl deposits
 - Main area of limestone & dolomite close to surface
 - Main area of Decorah shale close to surface
- Small deposits of various materials of no commercial value such as gold etc. are not shown
 Minnesota Geological Survey Bulletin 30 should be consulted for further information

