

Bedrock Geology of the Crane Lake and Brule Narrows 30' X 60' quadrangles, northern Minnesota; Jirsa, Mark A.  
Minnesota Geological Survey  
MGS Miscellaneous Map Series, M-192  
2011

Projection: UTM, NAD83, zone 15

Files associated with project:

m192\_extras.zip--supplementary GIS and other files.

GIS:

str\_pts\_m125—point shapefile of structure measurements and locations selected from MGS map M-125.

str\_pts\_m192—point shapefile of structure measurements and locations acquired by the author, 1990-2011, and transferred from archived field maps of D.L. Southwick (the latter commonly are not coincident with outcrop, as those field maps typically lack outcrop delineation).

map\_area—polygon shapefile of map area boundary

outcrop—polygon shapefile of outcrop delineated from field work by the author and locally extracted from archived field maps.

anticline\_syncline—line shapefile depicting the inferred axial surface trace of folds of several generations (F2, F3), uses anticline\_syncline.lyr for color and type coding.

dikes—line shapefile depicting location of diabasic dikes taken from outcrop and extrapolation from exposures using digital aeromagnetic maps.

foliation\_ins—line shapefile depicting inferred foliation (rock cleavage, schistosity, magmatic and metamorphic layering) delineated from digital aeromagnetic and land surface topographic maps.

contacts\_faults—line shapefile of unit contacts, faults, and fracture zones, uses contact\_faults.lyr for line type coding

bedrock\_geology—polygon shapefile of bedrock units, uses bedrock\_geology.lyr for color coding:

xsection\_ln--line shapefile showing location of cross section

Cranelkbasebw.tif--black and white map area base derived from USGS topo maps

m192\_metadata.xml--xml file of metadata derived from MSWord

Non-Gis files:

cross\_section.pdf--pdf image of the bedrock geology cross section on the map plate

m192\_mMetadata.pdf--metadata for the bedrock map (an xml version is included in the supplementary zip file)

M-192.pdf--pdf image of the Crane Lake bedrock map

