

LEGEND

BEDROCK SURFACE ELEVATION, METRES (M.S.L.) 210
BEDROCK OUTCROP X 280
CONTOUR LINE OF EQUAL BEDROCK SURFACE ELEVATION -
(Contour Interval 10 metres) 230
EASTERN BOUNDARY OF PALEOZOIC SEDIMENT 230

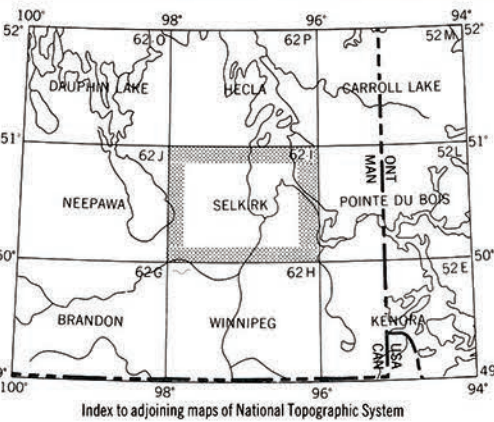
NOTES:
The bedrock surface is generally quite irregular throughout the map sheet. In the eastern part, Precambrian igneous and metamorphic rocks form a rugged bedrock surface with considerable local relief superimposed on a regional slope towards the west of about 2 m/km. Near the western boundary of Precambrian subrop where these rocks contact the Paleozoic sediments a deep bedrock valley exists which runs generally north-south beneath the Brokenhead River then along the eastern edge of Lake Winnipeg.

West of the Paleozoic-Precambrian contact the bedrock surface is formed by eroded carbonate rocks except in a few areas in the south-western part of the map sheet where bedrock is formed by Jurassic shales. The bedrock surface of the carbonates is irregular reflecting both the development of karst topographic features and the effects of glacial erosion. Rapid spatial variations in bedrock elevation are common particularly south of Lake Winnipeg and in the south-western part of the map sheet. Regionally, the north-western and west-central parts of the map sheet are bedrock highs, rising to 270 to 280 m above sea level. The bedrock surface elevation decreases towards the west, east and south from these upland areas, declining to an elevation of less than 190 m along parts of Lake Winnipeg. A north-south running ridge from which bedrock surface elevation declines steeply to the east is found about 20 km west of the western shore of Lake Winnipeg. This feature is associated with the subcrop area of the lower argillaceous section of the Stony Mountain Formation.

SOURCES OF INFORMATION:

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Prepared by: R.N. Betcher, 1985



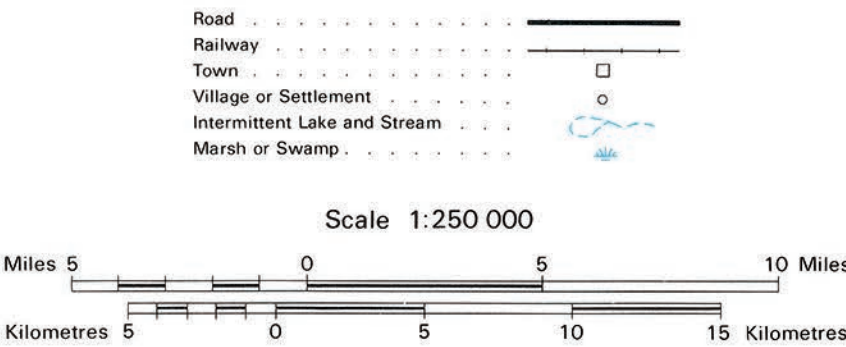
Magnetic declination 1976 varies from 7°38' easterly at centre of west edge to 9°44' easterly at centre of east edge. Mean annual change decreasing 4.9°.

Base Map by: Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

PROVINCE OF MANITOBA
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES BRANCH
GROUNDWATER AVAILABILITY STUDY
SELKIRK AREA

BEDROCK TOPOGRAPHY
FIGURE 5

MAP LEGEND



Cartography by: Water Resources Branch, Manitoba, 1985/86.

"A Canada-Manitoba Interim Subsidiary Agreement on Water Development for Regional Economic Expansion and Drought Proofing Project."