TURTLE MOUNTAIN MORAINE

MARTIN MORAINE

MAX MORAINE

LINCOLN SAG

SOURIS RIVER DIVERSION CHANNELS

VERENDRYE DIVERSION CHANNEL

LAKE HESTER DIVERSION CHANNEL

VELVA DIVERSION CHANNEL

ANTELOPE VALLEY DIVERSION CHANNEL

ALTMER DIVERSION CHANNEL

SHEYENNE RIVER DIVERSION CHANNEL

HEIMDAL DIVERSION CHANNEL

Souris River

Des Lacs River

Grand Lake Spillway

North Fork Sheyenne Spillway

Sheyenne River

Minot
Westhope
Landa
Roth
Souris
Carbury
Bottineau
Rolla
Dunseith
Omemee
Kramer
Eckman
Deep
Upham
Bantry
Granville
Denbigh
Towner
Rugby
Pleasant Lake
Knox
Leeds
Churchs Ferry
Verendrye
Karlsruhe
Sawyer
Velva
Guthrie
Balfour
Drake
Anamoose
Kensberg
Butte
Martin
Selz
Lincoln Valley
Esmond
Harvey
Heimdal
Fessenden
Bremen
New Rockford
Carrington
Cathay
Devils Lake
Minnewaukan
Maddock
Hurdsfield
Hamar
Josephine
Oberon
Tokio
Warwick
Sheyenne
Flora
Grace City

Qo Qdc Qls Qgms Qgml Qm Qld Qms Qml Qgm

EXPLANATION

Qls — Area covered by glacial Lake Souris

Qld — Area covered by glacial Devils Lake

Qdc — Glacial diversion channels and spillways

Qo — Chiefly ice-marginal channels and outwash and alluvial plains

Qms Qgms — Area covered by Souris River lobe
Dark tone denotes end moraine; light tone denotes ground moraine

Qml Qgml — Area covered by Leeds lobe
Dark tone denotes end moraine; light tone denotes ground moraine

Qm Qgm — Drift
Undifferentiated as to genetic relationships. Qm, end moraine; Qgm, ground moraine

Low, long narrow "washboard" moraines
Small till ridges, mostly lobate

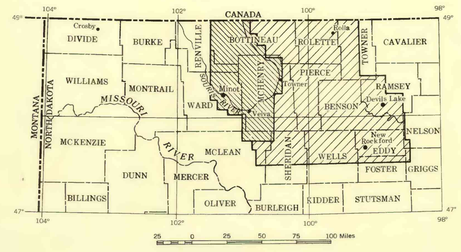
Linear ridges and grooves

Eskers

Boundary between physiographic features, moderately well defined

Boundary between physiographic features, indistinct

Escarpment
Northeast-facing escarpment of Coteau du Missouri



INDEX MAP

EXPLANATION

Area in which data have been compiled from detailed geologic mapping

Area in which data have been compiled from reconnaissance mapping, aerial photo interpretation, and mapping done by Branch (1947, map); Tetrick (1949, map); Easker (1949, map); Aronow, Dennis, and Akin (1953, map); and R. B. Colton (personal communication)

GENERALIZED PHYSIOGRAPHIC MAP OF THE GLACIAL LAKE SOURIS AREA AND VICINITY, NORTH DAKOTA

5 0 5 10 15 Miles

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1959
MP 5941

Compiled by R. W. Lemke and R. B. Colton, 1955