

LEGEND

Unconsolidated Rocks upon which soils are developed

Muck and peat swamp and pond deposits

Dune sand, oceanic deposits

Alluvial sand and silt fluvial deposits of recent streams

Beach sand and gravel fluvial deposits of glacial Lake Agassiz

Lacustrine sand and clay gravelly deposits of glacial Lake Agassiz, in the form of sand ridges, flood plain deposits

Glacial till or boulder clay and organic sand and gravel interstratified with fine peat drift deposits of 200-3000 ft. maximum depth of penetration

Soils

S10 Muck and peat 1 to 3 feet deep, except in the central parts of swamps and in treeless bogs, large areas can be drained and converted into agricultural land.

S9 Dune sand soil of little agricultural value.

S8 Fine sand and sandy loam soil highly productive, areas subject to overflood.

S7 Coarsely sand and coarse sand soil in most places deficient in organic matter and easily affected by drought, surface in the form of low ridges.

S6 Fine sand and sandy loam soil, in places deficient in organic matter, easily affected by drought because of exposure to surface of soil, material surface nearly level or gently sloping.

S5 Sandy loam (clay loam subsoil) soil good, surface nearly level or gently sloping.

S4 Clay loam and clay (clay subsoil) soil good but in places poorly drained; surface nearly level or gently sloping.

S3 Fine sandy loam (clay loam subsoil) soil good, surface nearly level or gently sloping.

S2 Stoney loam soil, for the most part best adapted for agricultural purposes except the grassy surface undulating or hilly.

S1 Fine sand and sandy loam soil deficient in organic matter, easily affected by drought, surface undulating or hilly.

Bedrock outcrop (little or no soil cover) areas of low agricultural value, better adapted for forest cultivation.

Symbols

Terminal moraine areas surface undulating or hilly.

Hay marsh

Glacial striae

Soil boundary approximate

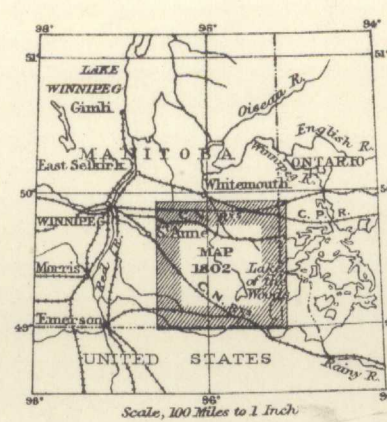
Figures showing elevation in feet above sea-level

Forest Cover

- P1 Pines Banksiana Jack Pine
- S1 Pines canadensis White Spruce
- S2 Pines mariana Black Spruce
- T1 Thuja occidentalis Cedar
- L1 Larix laricina Tamarack
- P1 Populus tremuloides Aspen Poplar
- P2 Populus balsamifera Balsam Poplar
- B1 Betula papyrifera Paper Birch
- M1 Acer Negundo Manitoba Maple
- F1 Fraxinus pennsylvanica Green Ash
- U1 Ulmus americana White Elm
- A1 Alnus White Birch
- X1 Salix Willow

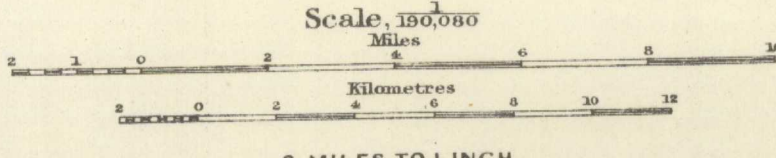
Clay suitable for making bricks occurs in the lacustrine clay and clay loam, sand and gravel (see road, railway, bridge and structural purposes in the sandy soil and gravel) (see note on the map for the clay soil).

Geological, Geographer and Chief Draughtsman: A. Bradward, Brantford, Ontario.



UPPER WHITEMOUTH RIVER  
(TOWNSHIPS 1 TO 10, RANGES 8 TO 18, EAST OF PRINCIPAL MERIDIAN)

MANITOBA



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GEOLOGY  
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