

MnModel Geomorphic Cross-Sections, Minnesota

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Section 1: Overview

Originator: Minnesota Department of Transportation

Title: MnModel Geomorphic Cross-Sections, Minnesota

Abstract: Geomorphic cross-sections were developed from soil borings and supported the mapping of Landform-Sediment Assemblages (LfSA's) used to develop landscape suitability models for predicting geologically buried archaeological site location probabilities. Cross-section diagrams in PDF format are linked to soil boring points using the field FULLPATH.

The feature data included in this spatial data package are a product of the Mn/Model4 project's mapping of major river valleys and glacial lake beds in Minnesota.

For the data package metadata visit: [Landform-Sediment Assemblages \(LfSA\) Feature Datasets](#)

Purpose: The purpose of this dataset is to provide the source data used for predicting the potential for finding unknown archaeological sites early in the transportation construction planning process, so that impacts on these sites can be avoided.

This dataset is best suited for general reference only. It is not suitable for precise land measurements or ground surveys. Data are incomplete, as large areas of the state are unmapped.

For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

Time Period of Content Date:

Currentness Reference: 1997-2014

Progress: Incomplete

Maintenance and Update Frequency: None Planned

Spatial Extent of Data: Minnesota River Valley mapping is bounded by limits of valley walls and up tributary valleys (though arbitrarily truncated in larger tributary valleys). See completeness section for detailed list of areas mapped.

Bounding Coordinates: -97.508970
-89.028990
49.652543
43.192405

Place Keywords: Minnesota

Theme Keywords: geoscientificInformation, Geomorphology, Landscape-Sediment Assemblages, LfSA, Cross-Sections, Soil Borings, Soil Borings and Logs, River Valleys, Mn/Model4, MnModel

Theme Keyword Thesaurus: ISO 19115 Topic Category: GeoScientific Information (008)

Access Constraints: None

Use Constraints: This dataset is best suited for general reference only. It is not suitable for precise land measurements or ground surveys. Data are incomplete, as large areas of the state are unmapped.

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Browse Graphic: None available

Associated Data Sets: Landform-Sediment Assemblages, Soil borings and logs. For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

Section 2: Data Quality

Attribute Accuracy: Field verified.

Logical Consistency: Data have been topologically structured and verified.

Completeness: Data are incomplete, as large areas of the state are unmapped. Data includes borings used to construct LfSA maps for the Anoka Sand Plain, Minnesota River, Mississippi River, Red Lake Bog, Rainy River, Red River, Rock River, Root River, Zumbro River, and the Saint Croix River. Additional borings have been added in Red Lake County, near the Lafayette Bridge in Saint Paul, and in the vicinity of MnDOT project SP 5211-59 in the Minnesota River Valley.

Horizontal Positional Accuracy: Data are within the National Map Accuracy Standards for 1:24,000-scale maps which is +/- 40 feet (12 meters). The dataset is not intended for legal land survey use, and is best suited for general reference.

Vertical Positional Accuracy: Not Applicable

Lineage: Cross-section lines were created by connecting the coordinates of soil boring locations that were mapped in the field using GPS.

For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

Section 3: Spatial Data Organization (not used in this metadata)

Section 4: Coordinate System

Horizontal Coordinate Scheme: Universal Transverse Mercator

UTM Zone Number: 15

Horizontal Datum: NAD83

Horizontal Units: meters

Vertical Datum: not applicable

Vertical Units:

Depth Datum: not applicable

Depth Units:

Section 5: Attributes

Overview: Geomorphic cross-sections created from soil boring location records.

Detailed Citation:

Table Detail: Cross-Sections derived from soil boring logs - Boring Log Attributes

Field Name	Valid Values	Definition
FILE	-	Name of file containing record.
SOURCE	-	Project for which soil boring was taken.
DIRECTORY	-	Name of subdirectory containing soil boring log file.
PATH	-	Path to soil boring log file.
FULLPATH	-	Full path and filename; concatenation of PATH, DIRECTORY, and FILE.
ID	-	Field identification value.
CONTRACTOR	-	Name of contractor providing file to MnDOT

Section 6: Distribution

Publisher: Minnesota Department of Transportation

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Distributor's Data Set Identifier: Mn/Model4 Cross-Sections (LfSA)

Distribution Liability: USE OF THIS DOCUMENT IS SUBJECT TO MNDOT'S
DISCLAIMERS, LEGAL NOTICES AND POLICIES FOUND
at <http://www.dot.state.mn.us/information/disclaimer.html>

Ordering Instructions: Please visit the download page for this dataset on the
Minnesota Geospatial Commons website using the web link below (Online Linkage).

The following citation is suggested for reference: Minnesota Department of
Transportation. Mn/Model4: Geomorphological Cross-Sections. Saint Paul, MN.:
Cultural Resources Unit, Office of Environmental Stewardship, 2018.

Online Linkage: [I AGREE](#) to the notice in "Distribution Liability" above. Clicking to agree will either begin the download process, link to a service, or provide more instructions. See "Ordering Instructions" above for details.

Section 7: Metadata Reference

Metadata Date: 08/28/2019

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Metadata Standard Name: Minnesota Geographic Metadata Guidelines

Metadata Standard Version: 1.2

Metadata Standard Online Linkage:

<https://www.mngeo.state.mn.us/committee/standards/mgmg/metadata.htm>

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