MnModel River Valley and Upland Landforms, Minnesota

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Section 1: Overview

Originator: Minnesota Department of Transportation

Title: MnModel River Valley and Upland Landforms, Minnesota

Abstract: River Valley and Upland Landforms (Landform-Sediment Assemblages) were mapped for developing landscape suitability models for geologically buried archaeological sites.

The LfSA's 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

Bounding Coordinates: -97.508970
-89.028990
49.652543
43.192405

Place Keywords: Minnesota

Theme Keywords: geospatialInformation, River Valley and Upland Landforms, Landform-Sediment Assemblages, LfSA, Soil Borings, Soil Boring Logs, Mn/Model4, MnModel

Theme Keyword Thesaurus: ISO 19115 Topic Category

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: Click to view a data sample.

Associated Data Sets: Geomorphic cross-sections, Soil boring 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 set is complete for the Cannon River, Minnesota River, Mississippi River, Red Lake Bog, Rainy River, Red River, Rock River, Root River, Saint Croix River, Whitewater River, Vermillion River, and Zumbro River; the Bemidji uplands (Bemidji East and West quads), Anoka Sand Plain, Lake Benton Uplands (Lake Benton and Tyler quads), Mountain Lake upland (Mountain Lake quad), the Glacial Lake Agassiz Uplands (Downer, Sabin, and Glyndon South quads); the Fargo South quad is complete up to the North Dakota border; the Hawley SE quad is complete except for the easternmost 2.5 miles), and the Nicollet Uplands (north of the Minnesota River coverage that includes the Courtland, Cambria, Nicollet, and Judsonquads). Quads have been edgematched where needed.

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: Landscape units identified from NAPP aerial photos (1:40,000 scale), USDA historical aerial photos (1:20,000 scale), 10-meter resolution USGS DEM, 1-meter resolution LiDAR DEM (where available), and county soil surveys were mapped onto 1:24,000 scale USGS quads. Prior to 2001, maps were digitized in AutoCAD, converted to PC ARC/INFO coverages in ArcCAD, and attributes were attached. Since

2001, maps have been created
by heads-up digitizing in ArcMap.

Prior to 2001, river valley coverages were mapped for groups of quad sheets, but not whole valleys. These were joined to create whole valley coverages, which were then clipped by counties for distribution. Edgematching was performed at a later step, and updated attributes were attached. PC ARC/INFO coverages were converted to ARC/INFO v. 7.0.3 coverages.

The individual river valley and upland coverages were merged into a single statewide coverage and, more recently, into a geodatabase feature class.

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: See attached key code table for LfSA attributes Landform Sediment Assemblages Code Key List (PDF)

Detailed Citation:

Table Detail:

Field Name	Definition
Key Codes	ftp://ftp.gisdata.mn.gov/pub/gdrs/data/pub/us_mn_state_dot/geos_land_sed/metadata/LfSAUpdatedCodeKeyTable.pdf

Section 6: Distribution

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Distributor's Data Set Identifier: Mn/Model4 Landform-Sediment Assemblages (LfSA)

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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: River Valley and Upland Landforms. 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