

Metadata for the

MnModel Phase 4

ARCHSURV

Developed by

Minnesota Department of Transportation (MnDOT)

These metadata were created using the [Minnesota Geographic Metadata Guidelines](#).

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Section 1 Identification Information

<i>Originator</i>	Minnesota Department of Transportation (MnDOT) Minnesota State Historic Preservation Office (SHPO) Minnesota Office of the State Archaeologist (OSA) United States Forest Service (USFS)
<i>Title</i>	ARCHSURV
<i>Abstract</i>	ARCHSURV is a polygon feature class of archaeological surveys in Minnesota and was compiled from various records at the Minnesota State Historic Preservation Office (SHPO), Office of the State Archaeologist (OSA), and the US Forest Service (USFS) survey locations within Chippewa National Forest (CNF) and Superior National Forest (SNF). The USFS surveys were appended to the

SHPO/OSA database. Only selected fields are used from the original merged database. Additional quality assurance fields were also added by MnDOT.

<i>Purpose</i>	Data input(s) for MnModel Phase 4.
<i>Time Period of Content Date</i>	1987-2016
<i>Currentness Reference</i>	Dates of surveys mapped. Archaeological survey information was last updated by new data from SHPO and OSA in March, 2015. Updates from MnDOT include periodic survey polygons from consultant submissions until 2016. USFS data were current as of May, 2015.
<i>Progress</i>	Complete
<i>Maintenance and Update Frequency</i>	May be updated periodically
<i>Spatial Extent of Data</i>	Statewide
<i>Bounding Coordinates</i>	E = -89 W = -97.5 N = 49.5 S = 43
<i>Place Keywords</i>	Minnesota
<i>Theme Keywords</i>	MnModel, archaeology, prehistoric, pre-contact
<i>Theme Keyword Thesaurus</i>	None
<i>Access Constraints</i>	These data are not available to the general public.
<i>Use Constraints</i>	By accepting these data, the user agrees not to transmit this data or provide access to it or any part of it to another party.

Per a Memorandum of Understanding (MOU) between MnDOT and USFS (FS Agreement No. 15-MU-11090300-003), all federal site data must be erased in its entirety from all State-owned hard drives and/or locations of database information by June 30th, 2019. These data have now been removed from this dataset. They are documented here as

they were in the version used for developing MnModel Phase 4 predictive models.

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Browse Graphic File Name None available

Browse Graphic File Description

Associated Data Sets ARCHSITE, SURVSAMP, SITESAMP

Section 2 Data Quality Information - - - - - [Go back to top](#)

Attribute Accuracy Varies. An overall confidence value is assigned for each site polygon/record in the database.

Logical Consistency

Completeness Incomplete. Many surveys from the SHPO and OSA database are included up to March, 2015. However, some surveys could not be digitized because the maps were poor, and some bound surveys could not be scanned.

Horizontal Positional Accuracy Variable. At their least accurate, the data are based upon mapping of surveys from USGS topo maps and printed reports. At their most accurate, the data are based upon points collected using GPS units operating at a sub-meter level of accuracy. SHPO and OSA survey polygons were georeferenced and digitized from a variety of hardcopy sources. Based on multiple database fields, the LOCCONF value qualitatively rates the horizontal positional accuracy of each survey polygon.

Vertical Positional Accuracy n/a

Lineage MnDOT began collecting survey boundary shapefiles from Contractors in 2000. These are the most accurate survey polygons available. From 2012 to 2014, for MnModel Phase 4, Contractors evaluated survey reports in the SHPO and OSA offices. If the reports used modern survey standards and if the mapping of the survey boundaries was good, these were digitized into this shapefile. For these latter surveys, attribute data were obtained from SHPO's archaeological survey report database. Beginning in 2014, for MnModel Phase 4, other contractors digitized surveys from various hardcopy sources with more concern about recording a large number of surveys and less concern about those surveys meeting modern survey standards. This database incorporates information from records at both the Minnesota Historic Preservation Office and the Minnesota Office of the State Archaeologist. USFS survey data from both Chippewa National Forest (CNF) and Superior National Forest (SNF) were subsequently appended to the SHPO/OSA survey polygons database. For both CNF and SNF survey lines, a 10-meter buffer was applied based on the maximum width of line transects reported by MnDOT contractors.

Source Scale Denominator 1:24,000

Section 3 Spatial Data Organization Information - - - - - [Go back to top](#)

Native Data Set Environment ArcMap 10.3

Geographic Reference for Tabular Data none

Spatial Object Type Vector

Vendor Specific Object Types Polygon

Tiling Scheme

Section 4 **Spatial Reference Information** - - - - - [Go back to top](#)

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS80
<i>Horizontal Datum</i>	NAD83
<i>Horizontal Units</i>	Meters
<i>Distance Resolution</i>	
<i>Cell Width</i>	
<i>Cell Height</i>	
<i>UTM Zone Number</i>	15E

Section 5 **Entity and Attribute Information** - - - - - [Go back to top](#)

<i>Entity and Attribute Overview</i>	Detailed Attribute Metadata Table Field, type, width, definition
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Entity and Attribute Detailed Citation

Section 6 **Distribution Information** - - - - - [Go back to top](#)

<i>Publisher</i>	Minnesota Department of Transportation (MnDOT)
<i>Publication Date</i>	

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Distributor's Data Set Identifier ARCHSURV

Distribution Liability As specified by MnDOT and MnModel data disclaimer(s).
The Minnesota Department of Transportation makes no representation or warranties, express or implied, with respect to the reuse of data provided herewith, regardless of its format or the means of its transmission. There is no guarantee or representation to the user as to the accuracy, currency, suitability, or reliability of this data for any purpose. The user accepts the data 'as is', and assumes all risks associated with its use. By accepting this data, the user agrees not to transmit this data or provide access to it or any part of it to another party unless the user shall include with the data a copy of this disclaimer. The Minnesota Department of Transportation assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data.

Transfer Format Name ArcMap

Transfer Format Version Number 10.3

Transfer Size 32 MB

Ordering Instructions Not available for distribution

Online Linkage MnModel data are available only to qualified archaeologists and tribal preservation staff.

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Metadata Date 9/8/2017

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Metadata Standard Name Minnesota Geographic Metadata Guidelines

Metadata Standard Version 1.2

Metadata Standard Online Linkage

This page last updated 5/6/2019.

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Detailed Attribute Metadata Table

Variable Name	Type	Description	Source	Valid Values
CONTRACTOR	String	Name of MnDOT contractor who performed the survey or contractor who digitized the survey report or name of agency from which the survey data/report was obtained	OSA, SHPO, USFS, MnDOT	Varies.
AreaType	String	Qualitative details on polygon. Some polygons demarcate areas which have been surveyed, or are more generalized project areas.	MnDOT	Not Surveyed = Not accessible, no landowner permissions, etc. Project = Project Area mapped; surveyed portion of project area not designated Survey = Areas actually surveyed in the field
DataSource	String	Indicates from which hardcopy source the polygon was digitized or its source agency.	MnDOT	Contractor Survey = provided to MnDOT in digital form from contractor conducting survey MnModel Quad = mapped to USGS topographic maps from survey reports by archaeologists working on MnModel Phases 1-3 MnModel Surveys = Digitized from paper maps or TRS descriptions from surveys conducted by MnDOT for MnModel Phases 1-3 Report = Digitized from survey reports USFS = Digital data provided by USFS
MethodsMet	String	Indicates if field survey methods meet requirements for inclusion in MnModel (whether modern survey methods were used).	MnDOT	No = Methods not met Partial = Methods met for part of surveyed area Unk = Unknown Yes = Methods met
LOCCONF	Long	Confidence value based on the mapped archaeological survey location. See LOCCONF Decision Table.	MnDOT	5 = Very High 4 = High 3 = Moderate 2 = Low 1 = Very Low 0 = Not a Survey Location
QUALCONF	Long	Confidence value based on the quality of the archaeological survey conducted. See QUALCONF Decision Table.	MnDOT	5 = Very High 4 = High 3 = Moderate 2 = Low 1 = Very Low 0 = None
SOURCE	String	Original data source	MnDOT	OSA/SHPO CNF – Chippewa National Forest SNF – Superior National Forest
SURVCONF	Double	Overall confidence: Minimum value of LOCCONF and QUALCONF for each record	MnDOT	5 = Very High 4 = High 3 = Moderate 2 = Low 1 = Very Low 0 = None

LOCCONF Decision Table:

Query	LOCCONF
DataSource IN('Contractor Survey', 'MnModel Surveys', 'USFS') AND AreaType = 'Survey'	5
DataSource IN('MnModel Quad' , 'Report') AND Shape_Length < 12000 AND Shape_Area < 5000000 AND AreaType = 'Survey'	4
DataSource IN('MnModel Quad' , 'Report') AND Shape_Length < 12000 AND Shape_Area < 5000000 AND AreaType = 'Project'	3
DataSource IN('MnModel Quad' , 'Report') AND (Shape_Area> 5000000 OR Shape_Length > 12000) AND AreaType = 'Survey'	3
DataSource IN('MnModel Quad' , 'Report') AND (Shape_Area> 5000000 OR Shape_Length > 12000) AND AreaType = 'Project'	2
WhyNotMap LIKE '%Inadequate Maps%' (<i>overrides any previous values</i>)	1
AreaType = 'Not Surveyed'	0

QUALCONF Decision Table:

Query	QUALCONF
MethodsMet = 'Yes'	5
MethodsMet = 'Partial'	4
MethodsMet = 'Unk'	3
MethodsMet = 'No' AND AreaType = 'Survey'	2
MethodsMet = 'No' AND AreaType = 'Project'	1
AreaType = 'Not Surveyed'	0