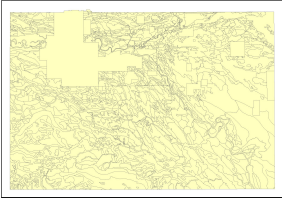


# Cornwallis\_Detailed\_Soils1to20k

## File Geodatabase Feature Class



### Tags

soil, survey, Manitoba

### Summary

Detailed Soils Intensity Level 2: 1 to 20,000 Scale.

The purpose of this file is to provide GIS information of the soils data that has been collected in the Rural Municipality of Cornwallis, Manitoba, Canada at a survey intensity level of the second order. This includes data collected at a scale of 1:20,000. This level of information is commonly referred to as detailed data.

Further information can be found online at:

<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#>

### Description

Soil is essential to human survival. We rely on it for the production of food, fibre, timber and energy crops. Together with climate, the soil determines which crops can be grown, where, and how much they will yield. In addition to supporting our agricultural needs, we rely on the soil to regulate the flow of rainwater and to act as a filter for drinking water. With such a tremendously important role, it is imperative that we manage our soils for their long-term productivity, sustainability and health.

The first step in sustainable soil management is ensuring that the soil will support the land use activity. For example, only the better agricultural soils in Manitoba will support grain and vegetable production, while more marginal agricultural soils will support forage and pasture-based production. For this reason, agricultural development should only occur in areas where the soil resource will support the agricultural activity. The only way to do this is to understand the soil resource that is available. Soil survey information is the key to understanding the soil resource.

Soil survey is an inventory of the properties of the soil (such as texture, internal drainage, parent material, depth to groundwater, topography, degree of erosion, stoniness, pH, and salinity) and their spatial distribution over a landscape. Soils are grouped into similar types and their boundaries are delineated on a map. Each soil type has a unique set of physical, chemical and mineralogical characteristics and has similar reactions to use and management. The information assembled in a soil survey can be used to predict or estimate the potentials and limitations of the soils' behaviour under different uses. As such, soil surveys can be used to plan the development of new lands or to evaluate the conversion of land to new uses. Soil surveys also provide insight into the kind and intensity of land management that will be needed.

The survey scale of soils data for Manitoba ranges from 1:5,000 to 1:126,720. This file contains GIS information of the soils data that has been collected in the Rural Municipality of Cornwallis, Manitoba, Canada at a survey intensity level of the second order. This contains data collected at a scale of 1:20,000. The survey objective is to collect field scale data and it is mostly used in agricultural production and planning such as precision farming, agriculture capability, engineering, recreation, potato/irrigation suitability, and productivity indices. Soil pits are generally about 200 metres apart and are dug along transects which are about 500 metres apart. This translates to about 32 inspections sites per section (640 acres). The soils in each delineation are identified by field observations and remotely sensed data. Boundaries are verified at closely spaced intervals. Profile descriptions are collected for all major named soils and 10 inspection sites/section and 2 to 3 horizons per site require lab analyses. At least one soil inspection exists in over 90% of delineations and the minimum size delineation is generally about 4 acres at 1:20,000. The soil taxonomy is generally Phases of Soil Series. The mapping scale is 1:20,000 or 3.2 inch/ mile.

This file has an organizational framework similar to the original SoilAID digital files and a portion of this geographic extent was originally available on the Manitoba Land Initiative (MLI) website.

Domains and coded values have also been integrated into the geodatabase files. This allows the user to view attribute information in either an abbreviated or a more descriptive manner. Choosing to display the description of the coded values allows the user to view the expanded information associated with the attribute value (reducing the need to constantly refer to the descriptions within the metadata). To change these settings in ArcCatalog, go to Customize --> ArcCatalog Options --> Tables tab --> check or uncheck 'Display coded value domain and subtype descriptions'. To change these settings in ArcMap, go to Customize --> ArcMapOptions --> Tables tab --> check or uncheck 'Display coded value domain and subtype descriptions'. This setting can also be changed by opening the attribute table, then Table Options (top left) --> Appearance --> check or uncheck 'Display coded value domain and subtype descriptions'. The file also contains field aliases, which can also be turned on or off under Table Options.

For more info:

<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#>

### Credits

The file - "Manitoba Municipal Boundaries" - from Manitoba Community Planning Services was used as one of the base administrative references for the soil polygon layer.

Also used as references were the hydrological features mapped in the 1:20,000 and 1:50,000 NTS topographical layers (National Topographic System of Canada). Typically this would relate to larger hydrological features such as those designated as perennial lakes and perennial rivers.

### Use limitations

Manitoba Agriculture makes every effort to ensure that soil survey data and interpretations are accurate, verified, and up-to-date. However, as data is continuously updated, sorted and verified, future updates may contain additional information.

The data is intended to be used at the appropriate scale, as identified in the 'SCALE' attribute field of the feature class.

The data represent the results of data collection/processing for a specific activity and indicate the general existing conditions. As such, each dataset is only valid for its intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than their intended purpose.

<https://www.gov.mb.ca/legal/disclaimer.html>

## Extent

**West** -101.548142    **East** -95.279379  
**North** 51.306884    **South** 48.950332

## Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:50,000

## ArcGIS Metadata ▶

### Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE    farming, environment

\* CONTENT TYPE    Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION    No

THEME KEYWORDS    Soil survey

[Hide Topics and Keywords ▲](#)

### Citation ▶

\* TITLE    Cornwallis\_Detailed\_Soils1to20k  
CREATION DATE    2012-03-08 00:00:00

EDITION    Version 2.1

PRESENTATION FORMATS    \* digital map  
FGDC GEOSPATIAL PRESENTATION FORMAT    vector digital data

[Hide Citation ▲](#)

### Citation Contacts ▶

RESPONSIBLE PARTY  
INDIVIDUAL'S NAME    Steve Hamm  
ORGANIZATION'S NAME    Manitoba Agriculture  
CONTACT'S POSITION    Soil Cartographer  
CONTACT'S ROLE    originator

#### CONTACT INFORMATION ▶

PHONE  
VOICE    204-868-5759  
FAX    204-867-6578

ADDRESS  
TYPE    both  
DELIVERY POINT    36 Armitage Avenue  
CITY    Minnedosa  
ADMINISTRATIVE AREA    Manitoba  
POSTAL CODE    R0J 1E0  
COUNTRY    Canada  
E-MAIL ADDRESS    [Steve.Hamm@gov.mb.ca](mailto:Steve.Hamm@gov.mb.ca)

HOURS OF SERVICE  
Monday - Friday, 8:30 - 16:30 CST

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

### Resource Details ▶

DATASET LANGUAGES    English (CANADA)  
DATASET CHARACTER SET    utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE    \* vector

SPATIAL RESOLUTION  
DATASET'S SCALE  
SCALE DENOMINATOR    50000

GROUND SAMPLE DISTANCE  
PRECISION OF SPATIAL DATA    m (meter)

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.6.0.8321

#### CREDITS

The file - "Manitoba Municipal Boundaries" - from Manitoba Community Planning Services was used as one of the base administrative references for the soil polygon layer.

Also used as references were the hydrological features mapped in the 1:20,000 and 1:50,000 NTS topographical layers (National Topographic System of Canada). Typically this would relate to larger hydrological features such as those designated as perennial lakes and perennial rivers.

#### ARCGIS ITEM PROPERTIES

- \* NAME Cornwallis\_Detailed\_Soils1to20k
- \* LOCATION [http://mli2.gov.mb.ca/soils/index\\_soilsdetailed.html](http://mli2.gov.mb.ca/soils/index_soilsdetailed.html)
- \* ACCESS PROTOCOL

[Hide Resource Details ▲](#)

### Extents ►

#### EXTENT

##### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -101.548142

\* EAST LONGITUDE -95.279379

\* NORTH LATITUDE 51.306884

\* SOUTH LATITUDE 48.950332

\* EXTENT CONTAINS THE RESOURCE Yes

##### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 322285.656300

\* EAST LONGITUDE 759642.356000

\* SOUTH LATITUDE 5427998.225800

\* NORTH LATITUDE 5683952.449900

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

### Resource Points of Contact ►

#### POINT OF CONTACT

INDIVIDUAL'S NAME Steve Hamm

ORGANIZATION'S NAME Manitoba Agriculture

CONTACT'S POSITION Soil Cartographer

CONTACT'S ROLE originator

#### CONTACT INFORMATION ►

##### PHONE

VOICE 204-868-5759

FAX 2094-867-6578

##### ADDRESS

TYPE both

DELIVERY POINT 36 Armitage Avenue

CITY Minnedosa

ADMINISTRATIVE AREA Manitoba

POSTAL CODE R0J 1E0

COUNTRY CANADA

E-MAIL ADDRESS [Steve.Hamm@gov.mb.ca](mailto:Steve.Hamm@gov.mb.ca)

##### HOURS OF SERVICE

Monday - Friday, 8:30 - 16:30 CST

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

### Resource Maintenance ►

#### RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)

### Resource Constraints ►

#### CONSTRAINTS

##### LIMITATIONS OF USE

Manitoba Agriculture makes every effort to ensure that soil survey data and interpretations are accurate, verified, and up-to-date. However, as data is continuously updated, sorted and verified, future updates may contain additional information.

The data is intended to be used at the appropriate scale, as identified in the 'SCALE' attribute field of the feature class.

The data represent the results of data collection/processing for a specific activity and indicate the general existing conditions. As such, each dataset is only valid for its intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than their

intended purpose.

<https://www.gov.mb.ca/legal/disclaimer.html>

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

\* TYPE Projected  
\* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983  
\* PROJECTION NAD\_1983\_UTM\_Zone\_14N  
\* COORDINATE REFERENCE DETAILS

### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26914

X ORIGIN -5120900

Y ORIGIN -9998100

XY SCALE 10000

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 26914

VCSWKID 5713

LATESTVCSWKID 5713

WELL-KNOWN TEXT

PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101

### REFERENCE SYSTEM IDENTIFIER

DIMENSION horizontal

\* VALUE 26914

\* CODESPACE EPSG

\* VERSION 6.13(3.0.1)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME Cornwallis\_Detailed\_Soils1to20k

\* OBJECT TYPE composite

\* OBJECT COUNT 1585

[Hide Vector ▲](#)

### ARCGIS FEATURE CLASS PROPERTIES



FEATURE CLASS NAME Cornwallis\_Detailed\_Soils1to20k

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 1585

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ►

### SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL feature

SCOPE DESCRIPTION

ATTRIBUTES

The data is intended to be used at the appropriate scale, as identified in the 'SCALE' attribute field of the feature class.

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

## Lineage ►

### LINEAGE STATEMENT

This file represents the official 1:20,000 detailed soils layer created for Manitoba. It is based upon the previous and recent 1:20,000 soil survey reports. However, the original interpretation values (such as agricultural capability) in the SoilAID files have been replaced by those from the current Manitoba Agriculture database.

After the completion of the necessary field survey, lab analysis, and landscape interpretation, Soil Survey Specialists digitize soil boundaries in a 3D GIS

environment. These boundaries are originally created as line features and named according to soil series and classes by means of a point file. The lines are then converted to the desired format which is a polygon file. A spatial join is conducted on the points and polygons in order to associate the soil series and classes to the polygons. Polygons are then verified and edited to ensure topological integrity. Each polygon can contain up to 3 soil series names. Each of the soil series within each polygon is then joined to the Manitoba Agriculture soils interpretations database to add:

1. derived information such as drainage and textural characteristics
2. interpretive information such as agricultural capability and suitability for irrigation

This file has an organizational framework similar to the original SoilAID digital files. The significant revisions include:

1. The addition of soil series names that provide a definition of the soil series abbreviation
2. The somewhat redundant 'Modifier' scheme in the original SoilAID has been replaced by the new and more descriptive 'Variant' and 'Phase' system. See the metadata information under 'Fields' for more information.
3. The addition of the irrigation suitability rating index for potato production.
4. The addition of soil surface texture group, which is a generalized rating to complement the existing texture information.
5. The addition of agricultural capability groupings used for legislative regulations.
6. The addition of engineering and recreational interpretation ratings.

[Hide Lineage](#) ▲

## Distribution ▶

### DISTRIBUTOR ▶

#### AVAILABLE FORMAT

\* NAME File Geodatabase Feature Class  
VERSION Version 1

### TRANSFER OPTIONS

\* TRANSFER SIZE 2.906

### ONLINE SOURCE

\* LOCATION -  
\* ACCESS PROTOCOL Local Area Network  
\* DESCRIPTION Downloadable Data

[Hide Distributor](#) ▲

### DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class  
VERSION Version1

[Hide Distribution](#) ▲

## Fields ▶

### DETAILS FOR OBJECT [Cornwallis\\_Detailed\\_Soils1to20k](#) ▶

\* TYPE Feature Class  
\* ROW COUNT 1585

#### DEFINITION

Shapefile Attribute Table

#### DEFINITION SOURCE

None

### FIELD OBJECTID



\* ALIAS OBJECTID  
\* DATA TYPE OID  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0  
\* FIELD DESCRIPTION  
Internal feature number.

#### \* DESCRIPTION SOURCE

ESRI

#### \* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID](#) ▲

### FIELD Shape



\* ALIAS Shape  
\* DATA TYPE Geometry  
\* WIDTH 0

\*PRECISION 0  
\*SCALE 0  
FIELD DESCRIPTION  
Feature geometry.

DESCRIPTION SOURCE  
ESRI

DESCRIPTION OF VALUES  
Coordinates defining the features.

[Hide Field Shape ▲](#)

#### FIELD RM

▶  
\*ALIAS RURAL\_MUNICIPALITY  
\*DATA TYPE String  
\*WIDTH 100  
\*PRECISION 0  
\*SCALE 0  
FIELD DESCRIPTION  
Rural municipality within feature is located.

DESCRIPTION SOURCE  
Manitoba Agriculture

[Hide Field RM ▲](#)

#### FIELD REPORT\_NUM

▶  
\*ALIAS REPORT\_NUMBER  
\*DATA TYPE String  
\*WIDTH 4  
\*PRECISION 0  
\*SCALE 0  
FIELD DESCRIPTION  
Soil survey report number

Digital copies of detailed soil survey reports can be found at:  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#detailed>

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#detailed>

[Hide Field REPORT\\_NUM ▲](#)

#### FIELD REPORT\_NAM

▶  
\*ALIAS REPORT\_NAME  
\*DATA TYPE String  
\*WIDTH 100  
\*PRECISION 0  
\*SCALE 0  
FIELD DESCRIPTION  
Soil survey report name

Digital copies of detailed soil survey reports can be found at:  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#detailed>

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/importance-of-soil-survey-mb.html#detailed>

[Hide Field REPORT\\_NAM ▲](#)

#### FIELD SCALE

▶  
\*ALIAS FIELD\_SURVEY\_SCALE  
\*DATA TYPE String  
\*WIDTH 9  
\*PRECISION 0  
\*SCALE 0  
FIELD DESCRIPTION

There are two basic types of soils surveys:  
Detailed: based on a large number of soil observations  
Scales: 1:5,000, 1:20 000, 1:40 000, 1:50 000  
Reconnaissance: based on fewer soil observations  
Scales: 1:63 360, 1:100 000, 1:125 000, 1:126 720

For more info:  
[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#why\\_scale](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#why_scale)

DESCRIPTION SOURCE  
[https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#why\\_scale](https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#why_scale)

[Hide Field SCALE ▲](#)

#### FIELD DATE

▶  
\* ALIAS DATE\_REVISIED  
\* DATA TYPE Date  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0  
FIELD DESCRIPTION  
Date Revised

DESCRIPTION SOURCE  
Date Revised

[Hide Field DATE ▲](#)

#### FIELD MAPUNITNOM

▶  
\* ALIAS SOIL\_MAP\_UNIT\_SYMBOL  
\* DATA TYPE String  
\* WIDTH 68  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil map unit symbol indicating the soil series, class, and variant(s)/phases(s) when applicable. Any record with no class indicated implies that the class has a value of 'xxxx'.

Examples:

'WKD'  
represents a map polygon that contains predominantly Waskada soil series and has a class of 'xxxx'.

'RIV5-OBOd5'  
represents a map polygon that contains 50% Red River soil series and 50% Osborne, drained soil series and that both soil series have a class of 'xxxx'.

'NDL7-RUF3/xcxx'  
represents a map polygon that contains 70% Newdale soil series and 30% Rufford soil series and the class of 'xcxx' applies to both soil series.

'NDL6-RUF2-ANL2/xcxx-xbxx-1cxx'  
represents a map polygon that contains 60% Newdale soil series, 20% Rufford soil series and 20% Angusville soil series. The first class value (xcxx) pertains to the first soil series (NDL), the second class value (xbxx) pertains to the second soil series (RUF), and the third class value (1cxx) pertains to the third soil series (ANL).

For more info:

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

##### DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field MAPUNITNOM ▲](#)

#### FIELD MUNOM1

▶  
\* ALIAS SOIL\_1\_MAP\_UNIT  
\* DATA TYPE String  
\* WIDTH 20  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil code and class of the first soil series named in the mapped polygon (along with variant and phase when applicable).

##### DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field MUNOM1 ▲](#)

#### FIELD SOIL\_CODE1

▶  
\* ALIAS SOIL\_1\_CODE  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Three character code for the first soil series named in the map polygon.

A list of the soil code abbreviations, along with their associated soil series names and descriptions can be found at:

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

##### DESCRIPTION SOURCE

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOIL\\_CODE1 ▲](#)

#### FIELD SOILNAME1

▶  
\* ALIAS SOIL\_1\_NAME  
\* DATA TYPE String  
\* WIDTH 45  
\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Name of the first soil series indicated in the map polygon.

A list of the soil series names and descriptions can be found at:

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

DESCRIPTION SOURCE

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOILNAME1 ▲](#)

FIELD VARIANT1

\* ALIAS SOIL\_1\_VARIANT

\* DATA TYPE String

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil series variant

DESCRIPTION SOURCE

Internal Soils Interpretations Database

LIST OF VALUES

VALUE cs

DESCRIPTION clay substrate

VALUE cl

DESCRIPTION classification

VALUE sh

DESCRIPTION shallow

VALUE sp

DESCRIPTION sphagnic

VALUE v

DESCRIPTION very poorly drained

VALUE 1

DESCRIPTION textural variant

VALUE 2

DESCRIPTION textural variant

VALUE 3

DESCRIPTION textural variant

[Hide Field VARIANT1 ▲](#)

FIELD PHASE1

\* ALIAS SOIL\_1\_PHASE

\* DATA TYPE String

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Phase of the first soil series named in the mapped polygon.

DESCRIPTION SOURCE

Soils Interpretations Database

LIST OF VALUES

VALUE a

DESCRIPTION active, dunes

VALUE d

DESCRIPTION drained

VALUE p

DESCRIPTION peaty

VALUE pd

DESCRIPTION peaty, drained



[Hide Field PHASE1 ▲](#)

#### FIELD CLASS1

▶

- \* ALIAS SOIL\_1\_CLASS
- \* DATA TYPE String
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Combines the values from EROSION1, SLOPE1, STONINESS1 and SALINITY1 fields.

DESCRIPTION SOURCE  
[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field CLASS1 ▲](#)

#### FIELD EXTENT1

▶

- \* ALIAS PERCENT\_OF\_SOIL\_1
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Percent of the map unit occupied by the first named soil series and class (by intervals of 10).

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=11>

[Hide Field EXTENT1 ▲](#)

#### FIELD MUNOM2

▶

- \* ALIAS SOIL\_2\_MAP\_UNIT
- \* DATA TYPE String
- \* WIDTH 20
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Same as MUNOM1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field MUNOM2 ▲](#)

#### FIELD SOIL\_CODE2

▶

- \* ALIAS SOIL\_2\_CODE
- \* DATA TYPE String
- \* WIDTH 3
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Same as SOIL\_CODE1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOIL\\_CODE2 ▲](#)

#### FIELD SOILNAME2

▶

- \* ALIAS SOIL\_2\_NAME
- \* DATA TYPE String
- \* WIDTH 45
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Same as SOILNAME1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOILNAME2 ▲](#)

#### FIELD VARIANT2

▶

- \* ALIAS SOIL\_2\_VARIANT
- \* DATA TYPE String
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION  
Same as VARIANT1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

## Internal Soils Interpretations Database

[Hide Field VARIANT2 ▲](#)

### FIELD PHASE2



\* ALIAS SOIL\_2\_PHASE  
\* DATA TYPE String  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as PHASE1, except that it applies to the second named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

Internal Soils Interpretations Database

[Hide Field PHASE2 ▲](#)

### FIELD CLASS2



\* ALIAS SOIL\_2\_CLASS  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as CLASS1, except that it applies to the second named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field CLASS2 ▲](#)

### FIELD EXTENT2



\* ALIAS PERCENT\_OF\_SOIL\_2  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as EXTENT1, except that it applies to the second named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=11>

[Hide Field EXTENT2 ▲](#)

### FIELD MUNOM3



\* ALIAS SOIL\_3\_MAP\_UNIT  
\* DATA TYPE String  
\* WIDTH 20  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as MUNOM1, except that it applies to the third named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field MUNOM3 ▲](#)

### FIELD SOIL\_CODE3



\* ALIAS SOIL\_3\_CODE  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as SOIL\_CODE1, except that it applies to the third named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOIL\\_CODE3 ▲](#)

### FIELD SOILNAME3



\* ALIAS SOIL\_3\_NAME  
\* DATA TYPE String  
\* WIDTH 45  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as SOILNAME1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description\\_of\\_soil\\_series\\_in\\_mb.pdf](https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/description_of_soil_series_in_mb.pdf)

[Hide Field SOILNAME3 ▲](#)

FIELD VARIANT3



\* ALIAS SOIL\_3\_VARIANT  
\* DATA TYPE String  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as VARIANT1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

Internal Soils Interpretations Database

[Hide Field VARIANT3 ▲](#)

FIELD PHASE3



\* ALIAS SOIL\_3\_PHASE  
\* DATA TYPE String  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as PHASE1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

Internal Soils Interpretations Database

[Hide Field PHASE3 ▲](#)

FIELD CLASS3



\* ALIAS SOIL\_3\_CLASS  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as CLASS1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what\\_reports](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#what_reports)

[Hide Field CLASS3 ▲](#)

FIELD EXTENT3



\* ALIAS PERCENT\_OF\_SOIL\_3  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as EXTENT1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=11>

[Hide Field EXTENT3 ▲](#)

FIELD SLOPEP1



\* ALIAS SOIL\_1\_SLOPE\_PERCENT  
\* DATA TYPE Single  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Slope steepness in percent of the first named soil series in the map polygon.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE -99

DESCRIPTION No data

[Hide Field SLOPEP1 ▲](#)

FIELD SLOPEP2



\* ALIAS SOIL\_2\_SLOPE\_PERCENT

\* DATA TYPE Single

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SLOPEP1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field SLOPEP2 ▲*

FIELD SLOPEP3

\* ALIAS SOIL\_3\_SLOPE\_PERCENT

\* DATA TYPE Single

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SLOPEP1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field SLOPEP3 ▲*

FIELD TOPO1

\* ALIAS SOIL\_1\_TOPOGRAPHY

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Slope classification of Soil 1

DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Topography.pdf>

LIST OF VALUES

VALUE x

DESCRIPTION Level, 0 - 0.5%

VALUE b

DESCRIPTION Nearly level, >0.5 - 2.0%

VALUE c

DESCRIPTION Very gently sloping, >2.0 - 5.0%

VALUE d

DESCRIPTION Gently sloping, >5.0 - 9.0%

VALUE e

DESCRIPTION Moderately sloping, >9.0 -15.0%

VALUE f

DESCRIPTION Strongly sloping, >15.0-30.0%

VALUE g

DESCRIPTION Very strongly sloping, >30.0-45.0%

VALUE h

DESCRIPTION Extremely sloping, >45.0-70.0%

VALUE i

DESCRIPTION Steeply sloping, >70.0-100%

VALUE j

DESCRIPTION Very steeply sloping, >100%

*Hide Field TOPO1 ▲*

FIELD TOPO2

\* ALIAS SOIL\_2\_TOPOGRAPHY

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as TOPO1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Topography.pdf>

[Hide Field TOPO2 ▲](#)

FIELD TOPO3

\* ALIAS SOIL\_3\_TOPOGRAPHY

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as TOPO1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Topography.pdf>

[Hide Field TOPO3 ▲](#)

FIELD STONE1

\* ALIAS SOIL\_1\_STONINESS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Percentage of ground surface occupied by stones.

DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Stoniness.pdf>

LIST OF VALUES

VALUE X

DESCRIPTION Non-stony. Land having less than 0.01% of surface occupied by stones.

VALUE 1

DESCRIPTION Slightly stony. Land having >0.01 to 0.1% of surface occupied by stones. Stones 15 to 30 cm in diameter, 10 to 30 m apart. The stones offer only slight to no hindrance to cultivation.

VALUE 2

DESCRIPTION Moderately stony. Land having >0.1 to 3% of surface occupied by stones. Stones 15 to 30 cm in diameter, 2 to 10 m apart. Stones cause some interference with cultivation.

VALUE 3

DESCRIPTION Very stony. Land having >3 to 15% of surface occupied by stones. Stones 15 to 30 cm in diameter, 1 to 2 m apart. There are sufficient stones to constitute a serious handicap to cultivation.

VALUE 4

DESCRIPTION Exceedingly stony. Land having >15 to 50% of surface occupied by stones. Stones 15 to 30 cm in diameter, 0.7 to 1.5 m apart. There are sufficient stones to prevent cultivation until considerable clearing has been done.

VALUE 5

DESCRIPTION Excessively stony. Land having more than 50% of surface occupied by stones. Stones 15 to 30 cm in diameter, less than 0.7 m apart. The land is too stony to permit cultivation until considerable clearing has occurred.

VALUE \$ER

DESCRIPTION Eroded slopes complex

VALUE \$ML

DESCRIPTION Modified land

VALUE \$UL

DESCRIPTION Unclassified land

VALUE \$ZZ

DESCRIPTION Water

VALUE \$UR

DESCRIPTION Urban land

VALUE ORG

DESCRIPTION Organic soil

[Hide Field STONE1 ▲](#)

#### FIELD STONE2



\* ALIAS SOIL\_2\_STONINESS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as STONE1, except that it applies to the second named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Stoniness.pdf>

[Hide Field STONE2 ▲](#)

#### FIELD STONE3



\* ALIAS SOIL\_3\_STONINESS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as STONE1, except that it applies to the third named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

<https://agrimaps.gov.mb.ca/agrimaps/extras/info/Stoniness.pdf>

[Hide Field STONE3 ▲](#)

#### FIELD EROSION1



\* ALIAS SOIL\_1\_EROSION  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Degree of soil erosion

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

#### LIST OF VALUES

VALUE X

DESCRIPTION non-eroded or minimal

VALUE 1

DESCRIPTION slightly eroded

VALUE 2

DESCRIPTION moderately eroded

VALUE 3

DESCRIPTION severely eroded

VALUE 0

DESCRIPTION overwash/overblown

VALUE \$ML

DESCRIPTION Modified land

VALUE \$UL

DESCRIPTION Unclassified land

VALUE \$UR

DESCRIPTION Urban land

VALUE \$ZZ

DESCRIPTION Water

VALUE ORG

DESCRIPTION Organic soil

[Hide Field EROSION1 ▲](#)

#### FIELD EROSION2



\* ALIAS SOIL\_2\_EROSION

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as EROSION1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

[Hide Field EROSION2 ▲](#)

FIELD EROSION3



\* ALIAS SOIL\_3\_EROSION

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as EROSION1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

[Hide Field EROSION3 ▲](#)

FIELD SALINITY1



\* ALIAS SOIL\_1\_SALINITY

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Degree of soil salinity

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

LIST OF VALUES

VALUE x

DESCRIPTION non-saline, 0-4 mS/cm

VALUE s

DESCRIPTION weakly saline, >4-8 mS/cm

VALUE t

DESCRIPTION moderately saline, >8-16 mS/cm

VALUE u

DESCRIPTION strongly saline, >16 mS/cm

VALUE \$ML

DESCRIPTION Modified land

VALUE \$UL

DESCRIPTION Unclassified land

VALUE \$UR

DESCRIPTION Urban land

VALUE \$ZZ

DESCRIPTION Water

VALUE ORG

DESCRIPTION Organic soil

[Hide Field SALINITY1 ▲](#)

FIELD SALINITY2



\* ALIAS SOIL\_2\_SALINITY

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SALINITY1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

*Hide Field SALINITY2 ▲*

FIELD SALINITY3

\* ALIAS SOIL\_3\_SALINITY  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SALINITY1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/soil-salinity.html>

*Hide Field SALINITY3 ▲*

FIELD SLOPE\_LEN1

\* ALIAS SOIL\_1\_SLOPE\_LENGTH  
\* DATA TYPE String  
\* WIDTH 1  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Slope length class code associated with the first named soil series in the map polygon. Dominant slope length within the polygon measured from the crest to the base of the slope.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE 1  
DESCRIPTION <50 metres

VALUE 2  
DESCRIPTION >50 - 200 m

VALUE 3  
DESCRIPTION >200 - 400 m

VALUE 4  
DESCRIPTION >400 - 800 m

VALUE 5  
DESCRIPTION >800 - 1600 m

VALUE 6  
DESCRIPTION >1600 m

VALUE -  
DESCRIPTION Not Applicable

*Hide Field SLOPE\_LEN1 ▲*

FIELD SLOPE\_LEN2

\* ALIAS SOIL\_2\_SLOPE\_LENGTH  
\* DATA TYPE String  
\* WIDTH 1  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SLOPE\_LEN1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field SLOPE\_LEN2 ▲*

FIELD SLOPE\_LEN3

\* ALIAS SOIL\_3\_SLOPE\_LENGTH  
\* DATA TYPE String  
\* WIDTH 1  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION



Same as SLOPE\_LEN1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field SLOPE\\_LEN3 ▲](#)

#### FIELD LS\_MEAN1



\* ALIAS SOIL\_1\_SLOPE\_AND\_STEEPNESS  
\* DATA TYPE Single  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Slope and steepness factor associated with the first named soil series in the soil map polygon. Calculated slope length and slope steepness value used by Universal Soil Loss Equation.

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field LS\\_MEAN1 ▲](#)

#### FIELD LS\_MEAN2



\* ALIAS SOIL\_2\_SLOPE\_AND\_STEEPNESS  
\* DATA TYPE Single  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as LS\_MEAN1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field LS\\_MEAN2 ▲](#)

#### FIELD LS\_MEAN3



\* ALIAS SOIL\_3\_SLOPE\_AND\_STEEPNESS  
\* DATA TYPE Single  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as LS\_MEAN1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field LS\\_MEAN3 ▲](#)

#### FIELD C\_ERPOLY



\* ALIAS WATER\_EROSION\_RISK\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Classification field for water erosion risk class categorized by summarizing the estimated soil loss on bare unprotected soil using all soil components in the map polygon.

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

#### LIST OF VALUES

VALUE 21  
DESCRIPTION Negligible

VALUE 22  
DESCRIPTION Low

VALUE 23  
DESCRIPTION Moderate

VALUE 24  
DESCRIPTION High

VALUE 25  
DESCRIPTION Severe

VALUE 6

DESCRIPTION Water

VALUE 15

DESCRIPTION Modified land

VALUE 16

DESCRIPTION Unclassified land

VALUE 17

DESCRIPTION Urban land

VALUE -99

DESCRIPTION No data

[Hide Field C\\_ERPOLY ▲](#)

FIELD C\_AGRI

\* ALIAS SOIL\_1\_AGRI\_CAPABILITY\_CODE

\* DATA TYPE SmallInteger

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Classification field summarizing the field AGRI\_CAP1 (Agriculture Capability Dryland Agriculture) representing the first named soil and class in the map polygon.

Coded values for agricultural capability provided to generate statistics and to facilitate modelling processes.

For more info:

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag\\_capability](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag_capability)

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE 21

DESCRIPTION Class 1 (Most capable)

VALUE 22

DESCRIPTION Class 2

VALUE 23

DESCRIPTION Class 3

VALUE 24

DESCRIPTION Class 4

VALUE 25

DESCRIPTION Class 5

VALUE 26

DESCRIPTION Class 6

VALUE 27

DESCRIPTION Class 7 (Least capable)

VALUE 6

DESCRIPTION Water

VALUE 15

DESCRIPTION Modified land

VALUE 16

DESCRIPTION Unclassified land

VALUE 17

DESCRIPTION Urban land

VALUE 28

DESCRIPTION Organic

[Hide Field C\\_AGRI ▲](#)

#### FIELD C\_SLOPE

\* ALIAS SOIL\_1\_SLOPE\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Coded value representing slope steepness in percent, based on the dominant slope gradient of the map polygon.

#### DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

#### LIST OF VALUES

VALUE 21

DESCRIPTION 0 - 2.0%

VALUE 22

DESCRIPTION >2.0 - 5.0%

VALUE 23

DESCRIPTION >5.0 - 9.0%

VALUE 24

DESCRIPTION >9.0 - 15.0%

VALUE 25

DESCRIPTION >15.0 - 30.0%

VALUE 26

DESCRIPTION >30% (eroded slopes)

VALUE 6

DESCRIPTION Water

VALUE 15

DESCRIPTION Modified land

VALUE 16

DESCRIPTION Unclassified land

VALUE 17

DESCRIPTION Urban land

VALUE -99

DESCRIPTION No data

[Hide Field C\\_SLOPE ▲](#)

#### FIELD C\_GEN

\* ALIAS SOIL\_1\_IRRIGATION\_SUIT\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

This is a coded rating for general irrigated crop production. Soil and landscape characteristics such as texture, drainage, depth to water table, salinity, geological uniformity, topography and stoniness are considered

For more info:

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

#### LIST OF VALUES

VALUE 21

DESCRIPTION Excellent

VALUE 22

DESCRIPTION Good

VALUE 23

DESCRIPTION Fair

VALUE 24  
DESCRIPTION Poor

VALUE 25  
DESCRIPTION Organic

VALUE 6  
DESCRIPTION Water

VALUE 15  
DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

[Hide Field C\\_GEN ▲](#)

FIELD C\_DRAIN

►  
\* ALIAS SOIL\_1\_DRAINAGE\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Classification field for representing the dominant soil and class condition in the map polygon.

Soil drainage is the speed and extent of water removal from the soil by runoff (surface drainage) and downward flow through the soil profile (internal drainage). It also refers to the frequency and duration when the soil is not saturated.

For more info:  
<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/pubs/soil-management-guide.pdf>

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE 22  
DESCRIPTION rapidly drained

VALUE 23  
DESCRIPTION well drained

VALUE 25  
DESCRIPTION imperfectly drained

VALUE 26  
DESCRIPTION poorly drained

VALUE 27  
DESCRIPTION very poorly drained

VALUE 28  
DESCRIPTION rock

VALUE 6  
DESCRIPTION Water

VALUE 13  
DESCRIPTION Marsh

VALUE 15  
DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

Hide Field C\_DRAIN ▲

FIELD C\_MAN

\* ALIAS SOIL\_1\_MANAGEMENT\_CONS\_CODE

\* DATA TYPE SmallInteger

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Classification field for summarizing the MANCON1 (Management Considerations) field representing the dominant soil and class condition in the map polygon.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE 20

DESCRIPTION No constraints

VALUE 21

DESCRIPTION C (Coarse Texture (loamy sands, sands and gravels))

VALUE 22

DESCRIPTION Rock

VALUE 24

DESCRIPTION T (Topography (slopes > 5.0%))

VALUE 24

DESCRIPTION CWT (Coarse Texture, Wetness and Topography)

VALUE 24

DESCRIPTION FWT (Fine Texture, Wetness and Topography)

VALUE 30

DESCRIPTION B (Bedrock)

VALUE 30

DESCRIPTION WB (wetness and bedrock)

VALUE 31

DESCRIPTION W (Wetness, poor and very poor drainage)

VALUE 31

DESCRIPTION WT (Wetness and Topography)

VALUE 33

DESCRIPTION F (Fine Texture (clays and silty clays))

VALUE 35

DESCRIPTION CW (Coarse Texture and Wetness)

VALUE 35

DESCRIPTION CT (Coarse Texture and Topography)

VALUE 40

DESCRIPTION FW (Fine Texture and Wetness)

VALUE 45

DESCRIPTION Organic

VALUE 49

DESCRIPTION FT (Fine Texture and Topography)

VALUE 6

DESCRIPTION Water

VALUE 13

DESCRIPTION Marsh complex

VALUE 15

DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

VALUE -99  
DESCRIPTION No data

[Hide Field C\\_MAN ▲](#)

#### FIELD C\_SALT

\* ALIAS SALINITY\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Coded value for summarizing soil map database salinity. Indicates the presence and severity of salinity in the polygon independent of whether it is with SOIL\_CODE1, SOIL\_CODE2 or SOIL\_CODE3.

#### DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

#### LIST OF VALUES

VALUE 21  
DESCRIPTION non-saline, 0-4 mS/cm

VALUE 22  
DESCRIPTION weakly saline, >4-8 mS/cm

VALUE 23  
DESCRIPTION moderately saline, >8-16 mS/cm

VALUE 24  
DESCRIPTION strongly saline, >16 mS/cm

VALUE 6  
DESCRIPTION Water

VALUE 7  
DESCRIPTION Eroded slopes complex

VALUE 13  
DESCRIPTION Marsh complex

VALUE 15  
DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

[Hide Field C\\_SALT ▲](#)

#### FIELD C\_SOIL

\* ALIAS SOIL\_ASSOCIATION\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Coded value summarizing Soil Association organized by Order, Mode of Deposition, Sub Group, Texture, Drainage, Chemical Composition, and Climatic Zone.

#### DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

#### LIST OF VALUES

VALUE 6  
DESCRIPTION Water

VALUE 14  
DESCRIPTION Salt flats

VALUE 15  
DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

VALUE 18  
DESCRIPTION Sand and gravel

VALUE 19  
DESCRIPTION Eroded slopes

VALUE 20  
DESCRIPTION Sand and gravel (Gleysols)

VALUE 21  
DESCRIPTION Sandy lacustrine

VALUE 22  
DESCRIPTION Variable textured alluvium (Regosols)

VALUE 25  
DESCRIPTION Permafrost, mineral

VALUE 26  
DESCRIPTION Sandy eolian

VALUE 27  
DESCRIPTION Loamy till with water worked surfaces

VALUE 28  
DESCRIPTION Loamy till (Black Chernozem)

VALUE 29  
DESCRIPTION Loamy till (Gleysols)

VALUE 30  
DESCRIPTION Sandy loam lacustrine

VALUE 31  
DESCRIPTION Loamy lacustrine

VALUE 32  
DESCRIPTION Strongly acidic clay till

VALUE 33  
DESCRIPTION Clayey lacustrine (Black Chernozems)

VALUE 34  
DESCRIPTION Sandy lacustrine (Gleysols)

VALUE 35  
DESCRIPTION Shallow organic fen peat

VALUE 36  
DESCRIPTION Deep organic fen peat

VALUE 37  
DESCRIPTION Sandy loam lacustrine (Gleysols)

VALUE 38  
DESCRIPTION Loam lacustrine

VALUE 40  
DESCRIPTION Clayey lacustrine

VALUE 42  
DESCRIPTION Clay over shale bedrock

VALUE 44  
DESCRIPTION Permafrost, organic

VALUE 48  
DESCRIPTION Loamy till (Dark Grey Chernozems)

VALUE 49  
DESCRIPTION Marsh

VALUE 50  
DESCRIPTION Highly calcareous loamy till (Brunisols and Dark Gray Chernozems)

VALUE 51  
DESCRIPTION Loamy till (Luvisols)

VALUE 52  
DESCRIPTION Highly calcareous loam till (Black Chernozems)

VALUE 53  
DESCRIPTION Acidic, coarse loamy till

VALUE 54  
DESCRIPTION Weakly calcareous sandy loam till

VALUE 55  
DESCRIPTION Weakly calcareous sandy loam till (Gleysols)

VALUE 56  
DESCRIPTION Extremely calcareous loamy till (Brunisols and Dark Gray Chernozems)

VALUE 57  
DESCRIPTION Extremely calcareous loamy till (Black Chernozems)

VALUE 60  
DESCRIPTION Variable textured alluvium (Gleysols)

VALUE 62  
DESCRIPTION Highly calcareous loamy till (Gleysols)

VALUE 63  
DESCRIPTION Clayey lacustrine (Gleysols)

VALUE 64  
DESCRIPTION Clayey lacustrine (Luvisols and Dark Gray Chernozems)

VALUE 68  
DESCRIPTION Shallow organic forest peat

VALUE 69  
DESCRIPTION Deep organic forest or sphagnum peat

VALUE 71  
DESCRIPTION Precambrian bedrock

VALUE 72  
DESCRIPTION Sand and gravel with overlays

VALUE 73  
DESCRIPTION Limestone bedrock

VALUE 74  
DESCRIPTION Sand and gravel with overlays (Gleysols)



VALUE 79  
DESCRIPTION Shale bedrock

VALUE -99  
DESCRIPTION No data

*Hide Field C\_SOIL ▲*

FIELD C\_SURFTEXT

▶  
\* ALIAS SOIL\_1\_SURFACE\_TEXTURE\_CODE  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Classification field for summarizing SURFTEXT1 (surface texture) representing the dominant soil series of the map polygon.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE 21  
DESCRIPTION Clayey

VALUE 22  
DESCRIPTION Fine loamy

VALUE 23  
DESCRIPTION Coarse loamy

VALUE 24  
DESCRIPTION Sand

VALUE 25  
DESCRIPTION Coarse sands

VALUE 26  
DESCRIPTION Organic

VALUE 6  
DESCRIPTION Water

VALUE 15  
DESCRIPTION Modified land

VALUE 16  
DESCRIPTION Unclassified land

VALUE 17  
DESCRIPTION Urban land

*Hide Field C\_SURFTEXT ▲*

FIELD ERCLS1

▶  
\* ALIAS SOIL\_1\_WATER\_EROSION\_RISK  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Field containing water erosion risk class for the first named soil series in the map polygon. Calculation of estimated soil loss on bare unprotected soil implementing the Universal Soil Loss Equation (USLE) for SOIL\_CODE1 in the map polygon measured in tonnes/hectare/year.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE N  
DESCRIPTION Negligible (<6 t/h/y)

VALUE L  
DESCRIPTION Low (6 - 11 t/h/y)

VALUE M  
DESCRIPTION Moderate (>11 - 22 t/h/y)

VALUE H  
DESCRIPTION High (>22 - 33 t/h/y)

VALUE S  
DESCRIPTION Severe (>33 t/h/y)

*Hide Field ERCLS1 ▲*

#### FIELD ERCLS2

\* ALIAS SOIL\_2\_WATER\_EROSION\_RISK  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Same as ERCLS1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field ERCLS2 ▲*

#### FIELD ERCLS3

\* ALIAS SOIL\_3\_WATER\_EROSION\_RISK  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Same as ERCLS1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field ERCLS3 ▲*

#### FIELD ERPOLY

\* ALIAS SUM\_WATER\_EROSION\_RISK  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Field containing calculation obtained from summing ERCLS1, ERCLS2, ERCLS3. Summary calculation of estimated soil loss on bare unprotected soil implementing the Universal Soil Loss Equation (USLE) in the map polygon measured in tonnes/hectare/year.

Same list of values as ERCLS.

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field ERPOLY ▲*

#### FIELD ERSYMBOL

\* ALIAS WATER\_EROSION\_RISK\_SYMBOL  
\* DATA TYPE String  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Field containing water erosion risk symbol. Weighted average compilation of ERCLS1,2,3 and the area covered by the soils associated with those calculations. Used to create map symbol for polygon.

Same list of values as ERCLS, broken down by percentages according to the number of soil series named in the map polygon.

For example: N6-M4 = 60% of the polygon contains soil that has a negligible risk of erosion, and the remaining 40% has a moderate risk of erosion.

DESCRIPTION SOURCE  
[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field ERSYMBOL ▲*

#### FIELD AGRI\_CAP1

\* ALIAS SOIL\_1\_AGRICULTURAL\_CAPABILITY  
\* DATA TYPE String  
\* WIDTH 4

\*PRECISION 0

\*SCALE 0

FIELD DESCRIPTION

Agricultural capability is a 7 class rating of mineral soils based on the severity of limitations for dryland farming. This system does not rate the productivity of the soil, but rather its capability to sustain agricultural crops based on limitations due to soil properties and landscape features and climate. This system is usually applied on a soil polygon basis and the individual soil series are assessed and maps portray the condition represented by the dominant soil in the polygon. Class 1 soils have no limitations, whereas Class 7 soils have such severe limitations that they are not suitable for agricultural purposes. The agricultural capability scheme is based on the Canada Land Inventory rating system.

Refers to the agricultural capability class of the first soil series named in the mapped polygon.

Examples:

2T = Class 2 with a topography limitation

O4WL = Organic soil that has an agriculture capability rating of 4 and has limitations of excess water and coarse wood fragments

For more info:

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag\\_capability](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag_capability)

DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag\\_capability](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag_capability)

LIST OF VALUES

VALUE C

DESCRIPTION Climate

VALUE D

DESCRIPTION Undesirable soil structure or permeability

VALUE E

DESCRIPTION Erosion

VALUE F

DESCRIPTION Low fertility

VALUE I

DESCRIPTION Inundation

VALUE L

DESCRIPTION Coarse wood fragments

VALUE M

DESCRIPTION Moisture limitation

VALUE N

DESCRIPTION Salinity

VALUE P

DESCRIPTION Stoniness

VALUE R

DESCRIPTION Consolidated bedrock

VALUE T

DESCRIPTION Topography

VALUE W

DESCRIPTION Excess water

VALUE X

DESCRIPTION Cumulative minor adverse characteristics

Hide Field AGRI\_CAP1 ▲

FIELD AGRI\_CAP2

\*ALIAS SOIL\_2\_AGRICULTURAL\_CAPABILITY

\*DATA TYPE String

\*WIDTH 4

\*PRECISION 0

\*SCALE 0

FIELD DESCRIPTION

Same as AGRI\_CAP1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag\\_capability](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag_capability)

[Hide Field AGRI\\_CAP2 ▲](#)

#### FIELD AGRI\_CAP3

▶  
\* ALIAS SOIL\_3\_AGRICULTURAL\_CAPABILITY  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as AGRI\_CAP1, except that it applies to the third named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

[http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag\\_capability](http://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/using-soil-survey-information.html#ag_capability)

[Hide Field AGRI\\_CAP3 ▲](#)

#### FIELD AGCAP\_GRP1

▶  
\* ALIAS SOIL\_1\_GROUP\_AGRI\_CAP\_CLASSES  
\* DATA TYPE String  
\* WIDTH 7  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Agricultural management groups identify soils that require similar kinds of practices to achieve acceptable performance for a soil use. Agricultural management groups have been developed in Manitoba that group soils based on their agricultural capability (class and limitation) into various programs like environmental farm plans (Section A) and into different Acts and Regulations.

Refers to the agricultural management group of the first soil series named in the mapped polygon.

#### DESCRIPTION SOURCE

Manitoba Agriculture

#### LIST OF VALUES

VALUE Group 1

DESCRIPTION Group 1 includes agricultural capability classes 1, 2 and 3 (except 3M and 3M combinations)

VALUE Group 2

DESCRIPTION Group 2 includes agricultural capability classes 3M, 3M combinations, and class 4

VALUE Group 3

DESCRIPTION Group 3 includes agricultural capability class 5

VALUE Group 4

DESCRIPTION Group 4 includes agricultural capability classes 6, 7 and unimproved organics

[Hide Field AGCAP\\_GRP1 ▲](#)

#### FIELD AGCAP\_GRP2

▶  
\* ALIAS SOIL\_2\_GROUP\_AGRI\_CAP\_CLASSES  
\* DATA TYPE String  
\* WIDTH 7  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as AGCAP\_GRP1, except that it applies to the second named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

Manitoba Agriculture

[Hide Field AGCAP\\_GRP2 ▲](#)

#### FIELD AGCAP\_GRP3

▶  
\* ALIAS SOIL\_3\_GROUP\_AGRI\_CAP\_CLASSES  
\* DATA TYPE String  
\* WIDTH 7  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Same as AGCAP\_GRP1, except that it applies to the third named soil series in the polygon (where applicable).

#### DESCRIPTION SOURCE

Manitoba Agriculture

[Hide Field AGCAP\\_GRP3 ▲](#)

#### FIELD SOIL\_FACT1

▶  
\* ALIAS SOIL\_1\_IRRIGATION\_SOIL\_CLASS  
\* DATA TYPE String

\*WIDTH 3  
\*PRECISION 0  
\*SCALE 0

FIELD DESCRIPTION

Soil property classes for irrigation suitability classification system for the first named soil and class combination contained in the soil map polygon. A complete Description of the rating guidelines are in "An Irrigation Suitability Classification System for the Prairie Provinces" (ISC,1987).

The degree of limitation is categorized into four classes:

- 1 - None
- 2 - Slight
- 3 - Moderate
- 4 - Severe

Limitations within the four class soil property classification are:

- d - Structure
- g - Geological Unconformity
- h - Depth to Water Table
- k - Hydraulic Conductivity
- m - Available Water holding Capacity
- n - Sodidity
- q - Intake Rate
- r - Depth to Bedrock
- s - Salinity
- w - Drainage
- x - Drainability

Example: 2kx = slight soil limitations due to hydraulic conductivity and drainability

For more info:

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

LIST OF VALUES

VALUE 1  
DESCRIPTION No limitation

VALUE 2  
DESCRIPTION Slight limitation

VALUE 3  
DESCRIPTION Moderate limitation

VALUE 4  
DESCRIPTION Severe limitation

VALUE d  
DESCRIPTION structure

VALUE g  
DESCRIPTION geological unconformity

VALUE h  
DESCRIPTION depth to water table

VALUE k  
DESCRIPTION hydraulic conductivity

VALUE m  
DESCRIPTION available water holding capacity

VALUE n  
DESCRIPTION sodicity

VALUE q  
DESCRIPTION intake rate

VALUE r  
DESCRIPTION depth to bedrock

VALUE s  
DESCRIPTION salinity

VALUE w  
DESCRIPTION drainage

VALUE x

DESCRIPTION drainability

Hide Field SOIL\_FACT1 ▲

FIELD LANDSCAPE1

\* ALIAS SOIL\_1\_IRRIG\_LANDSCAPE\_CLASS  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Landscape feature classes for irrigation suitability classification system for the first named soil and class combination contained in the soil map polygon. A complete description of the rating guidelines are in "An Irrigation Suitability Classification System for the Prairie Provinces" (ISC,1987).

The degree of limitation is categorized into four classes:

A - None  
B - Slight  
C - Moderate  
D - Severe

Limitations within the four class landscape feature classification are:

e - Local Relief  
i - Inundation  
p - Stoniness  
t1 - Topography - simple slope  
t2 - Topography - complex slope

Example: Bt2 = slight landscape limitations due to topography (complex slopes)

For more info:

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

LIST OF VALUES

VALUE A  
DESCRIPTION No limitation

VALUE B  
DESCRIPTION Slight limitation

VALUE C  
DESCRIPTION Moderate limitation

VALUE D  
DESCRIPTION Severe limitation

VALUE e  
DESCRIPTION Local relief

VALUE i  
DESCRIPTION Inundation

VALUE p  
DESCRIPTION Stoniness

VALUE t1  
DESCRIPTION Topography - simple slope

VALUE t2  
DESCRIPTION Topography - complex slope

Hide Field LANDSCAPE1 ▲

FIELD IRRIG\_CLA1

\* ALIAS SOIL\_1\_IRRIGATION\_SUIT\_CLASS  
\* DATA TYPE String  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Irrigation suitability class representing the first named soil and class combination contained in the soil map polygon. Combination of SOIL\_FACT and LANDSCAPE codes for classification matrix. A complete description of the rating guidelines are in "An Irrigation Suitability Classification System for the Prairie Provinces" (ISC,1987).

Example: 2kxBt2 = slight soil limitations due to hydraulic conductivity and drainability, AND slight landscape limitations due to topography (complex slopes)

For more info:  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field IRRIG\\_CLA1 ▲](#)

#### FIELD GEN\_RATIN1

►  
\* ALIAS SOIL\_1\_IRRIGATION\_SUIT\_RATING  
\* DATA TYPE String  
\* WIDTH 9  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

This is a rating for general irrigated crop production. Soil and landscape characteristics such as texture, drainage, depth to water table, salinity, geological uniformity, topography and stoniness are considered

For more info:  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field GEN\\_RATIN1 ▲](#)

#### FIELD SOIL\_FACT2

►  
\* ALIAS SOIL\_2\_IRRIGATION\_SOIL\_CLASS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as SOIL\_FACT2, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field SOIL\\_FACT2 ▲](#)

#### FIELD LANDSCAPE2

►  
\* ALIAS SOIL\_2\_IRRIG\_LANDSCAPE\_CLASS  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as LANDSCAPE1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field LANDSCAPE2 ▲](#)

#### FIELD IRRIG\_CLA2

►  
\* ALIAS SOIL\_2\_IRRIGATION\_SUIT\_CLASS  
\* DATA TYPE String  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as IRRIG\_CLA1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field IRRIG\\_CLA2 ▲](#)

#### FIELD GEN\_RATIN2

►  
\* ALIAS SOIL\_2\_IRRIGATION\_SUIT\_RATING  
\* DATA TYPE String  
\* WIDTH 9  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as GEN\_RATIN1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field GEN\\_RATIN2 ▲](#)

#### FIELD SOIL\_FACT3



\* ALIAS SOIL\_3\_IRRIGATION\_SOIL\_CLASS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SOIL\_FACT1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field SOIL\\_FACT3 ▲](#)

FIELD LANDSCAPE3



\* ALIAS SOIL\_3\_IRRIG\_LANDSCAPE\_CLASS

\* DATA TYPE String

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as LANDSCAPE1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field LANDSCAPE3 ▲](#)

FIELD IRRIG\_CLA3



\* ALIAS SOIL\_3\_IRRIGATION\_SUIT\_CLASS

\* DATA TYPE String

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as IRRIG\_CLA1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field IRRIG\\_CLA3 ▲](#)

FIELD GEN\_RATIN3



\* ALIAS SOIL\_3\_IRRIGATION\_SUIT\_RATING

\* DATA TYPE String

\* WIDTH 9

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as GEN\_RATIN1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/interpretive-maps.html#irrigation>

[Hide Field GEN\\_RATIN3 ▲](#)

FIELD SPUD\_RTNG1



\* ALIAS SOIL\_1\_POTATO\_IRRIGATION\_SUIT

\* DATA TYPE String

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil polygon suitability for irrigation specific to potato production for processing are evaluated based on drainage, texture group of the entire profile, slope, stoniness and salinity.

For more info:

<https://www.gov.mb.ca/agriculture/crops/production/potatoes-suitability-of-land-for-irrigated-potato-production.html>

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/crops/production/potatoes-suitability-of-land-for-irrigated-potato-production.html>

LIST OF VALUES

VALUE Class 1

DESCRIPTION Most suitable

VALUE Class 5

DESCRIPTION Least suitable

[Hide Field SPUD\\_RTNG1 ▲](#)

FIELD SPUD\_RTNG2





\* ALIAS SOIL\_2\_POTATO\_IRRIGATION\_SUIT

\* DATA TYPE String

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SPUD\_RTNG1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/crops/production/potatoes-suitability-of-land-for-irrigated-potato-production.html>

[Hide Field SPUD\\_RTNG2 ▲](#)

FIELD SPUD\_RTNG3

\* ALIAS SOIL\_3\_POTATO\_IRRIGATION\_SUIT

\* DATA TYPE String

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as SPUD\_RTNG1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/crops/production/potatoes-suitability-of-land-for-irrigated-potato-production.html>

[Hide Field SPUD\\_RTNG3 ▲](#)

FIELD DRAINAGE1

\* ALIAS SOIL\_1\_DRAINAGE

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil drainage is the speed and extent of water removal from the soil by runoff (surface drainage) and downward flow through the soil profile (internal drainage). It also refers to the frequency and duration when the soil is not saturated.

For more info:

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/pubs/soil-management-guide.pdf>

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/pubs/soil-management-guide.pdf>

LIST OF VALUES

VALUE R

DESCRIPTION rapidly drained

VALUE W

DESCRIPTION well drained

VALUE I

DESCRIPTION imperfectly drained

VALUE P

DESCRIPTION poorly drained

VALUE VP

DESCRIPTION very poorly drained

VALUE \$ML

DESCRIPTION Modified land

VALUE \$UL

DESCRIPTION Unclassified land

VALUE \$UR

DESCRIPTION Urban land

VALUE \$ZZ

DESCRIPTION Water

[Hide Field DRAINAGE1 ▲](#)

FIELD DRAINAGE2

\* ALIAS SOIL\_2\_DRAINAGE

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as DRAINAGE1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/pubs/soil-management-guide.pdf>

[Hide Field DRAINAGE2 ▲](#)

FIELD DRAINAGE3

\* ALIAS SOIL\_3\_DRAINAGE

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as DRAINAGE1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/environment/soil-management/soil-management-guide/pubs/soil-management-guide.pdf>

[Hide Field DRAINAGE3 ▲](#)

FIELD SURFTEXT1

\* ALIAS SOIL\_1\_SURFACE\_TEXTURE

\* DATA TYPE String

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil surface texture of the first named soil series in the map polygon.

Soil texture is the relative proportion of sand, silt and clay particles. The texture of a soil cannot be altered. In agriculture, soil texture is determined by measuring the size and distribution of particles less than 2.0 mm in diameter. Particles larger than 2.0 mm in diameter, such as gravel and stones, are included in the textural description only if present in significant amounts (e.g. gravelly sand (GrS)).

Sand (S) = 2.0 - 0.05 mm in diameter (coarse material) – referred to as “light” soils, since they are easily tilled (not because of the soil’s weight)

Silt (Si) = <0.05 - 0.002 mm (medium material)

Clay (C) = <0.002 mm (fine material) – referred to as “heavy” soils, because of their difficult workability

Loams (L) are medium textured soils made up of a mixture of sand, silt and clay

Gravel and stones are particles > 2.0 mm in diameter

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

LIST OF VALUES

VALUE C

DESCRIPTION Clay

VALUE SiC

DESCRIPTION Silty Clay

VALUE SC

DESCRIPTION Sandy Clay

VALUE CL

DESCRIPTION Clay Loam

VALUE SiCL

DESCRIPTION Silty Clay Loam

VALUE SCL

DESCRIPTION Sandy Clay Loam

VALUE L

DESCRIPTION Loam

VALUE VFSL

DESCRIPTION Very Fine Sandy Loam

VALUE SiL

DESCRIPTION Silt Loam

VALUE FSL

DESCRIPTION Fine Sandy Loam

VALUE VFS

DESCRIPTION Very Fine Sand

VALUE LVFS  
DESCRIPTION Loamy Very Fine Sand

VALUE SL  
DESCRIPTION Sandy Loam

VALUE LFS  
DESCRIPTION Loamy Fine Sand

VALUE LS  
DESCRIPTION Loamy Sand

VALUE FS  
DESCRIPTION Fine Sand

VALUE CSL  
DESCRIPTION Coarse Sandy Loam

VALUE CS  
DESCRIPTION Coarse Sand

VALUE S  
DESCRIPTION Sand

VALUE MS  
DESCRIPTION Medium Sand

VALUE GRLS  
DESCRIPTION Gravelly Loamy Sand

VALUE GRSL  
DESCRIPTION Gravelly Sandy Loam

VALUE LCS  
DESCRIPTION Loamy Coarse Sand

VALUE CB  
DESCRIPTION Cobble Beach

VALUE M  
DESCRIPTION Mesic

VALUE O  
DESCRIPTION Organic

VALUE H  
DESCRIPTION Humic

VALUE F  
DESCRIPTION Fibric

VALUE \$ML  
DESCRIPTION Modified land

VALUE \$UL  
DESCRIPTION Unclassified land

VALUE \$UR  
DESCRIPTION Urban land

VALUE \$ZZ  
DESCRIPTION Water

Hide Field SURFTEXT1 ▲

FIELD SURFTEXT2

►  
\* ALIAS SOIL\_2\_SURFACE\_TEXTURE  
\* DATA TYPE String

\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SURFTEXT1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

[Hide Field SURFTEXT2 ▲](#)

FIELD SURFTEXT3

\* ALIAS SOIL\_3\_SURFACE\_TEXTURE  
\* DATA TYPE String  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SURFTEXT1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

[Hide Field SURFTEXT3 ▲](#)

FIELD SURFTEXTM1

\* ALIAS SOIL\_1\_SURFAC\_TEXTURE\_MODIFIER  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Surface texture modifier.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE GR  
DESCRIPTION Gravelly

VALUE VG  
DESCRIPTION Very gravelly

VALUE MU  
DESCRIPTION Mucky

VALUE WY  
DESCRIPTION Woody

[Hide Field SURFTEXTM1 ▲](#)

FIELD SURFTEXTM2

\* ALIAS SOIL\_2\_SURFAC\_TEXTURE\_MODIFIER  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SURFTEXTM1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field SURFTEXTM2 ▲](#)

FIELD SURFTEXTM3

\* ALIAS SOIL\_3\_SURFAC\_TEXTURE\_MODIFIER  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as SURFTEXTM1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

[Hide Field SURFTEXTM3 ▲](#)

FIELD TEX\_GROUP1



\* ALIAS SOIL\_1\_SURFACE\_TEXTURE\_GROUP

\* DATA TYPE String

\* WIDTH 15

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil surface texture group of the first named soil series

For more info:

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

LIST OF VALUES

VALUE VC

DESCRIPTION Very coarse

VALUE CO

DESCRIPTION Coarse

VALUE MC

DESCRIPTION Moderately coarse

VALUE ME

DESCRIPTION Medium

VALUE MF

DESCRIPTION Moderately Fine

VALUE F

DESCRIPTION Fine

VALUE VF

DESCRIPTION Very Fine

VALUE Om

DESCRIPTION Organic, mesic

VALUE Of

DESCRIPTION Organic, fibric

VALUE Oh

DESCRIPTION Organic, humic

VALUE \$ER

DESCRIPTION Eroded slope complex

VALUE \$ML

DESCRIPTION Modified land

VALUE \$UL

DESCRIPTION Unclassified land

VALUE \$UR

DESCRIPTION Urban land

VALUE \$ZZ

DESCRIPTION Water

Hide Field TEX\_GROUP1 ▲

FIELD TEX\_GROUP2



\* ALIAS SOIL\_2\_SURFACE\_TEXTURE\_GROUP

\* DATA TYPE String

\* WIDTH 15

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Same as TEX\_GROUP1, except that it applies to the second named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

[Hide Field TEX\\_GROUP2 ▲](#)

FIELD TEX\_GROUP3



\* ALIAS SOIL\_3\_SURFACE\_TEXTURE\_GROUP  
\* DATA TYPE String  
\* WIDTH 15  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Same as TEX\_GROUP1, except that it applies to the third named soil series in the polygon (where applicable).

DESCRIPTION SOURCE

[https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface\\_Texture.pdf](https://agrimaps.gov.mb.ca/agrimaps/extras/info/Surface_Texture.pdf)

[Hide Field TEX\\_GROUP3 ▲](#)

FIELD MANCON1



\* ALIAS SOIL\_1\_MANAGEMNT\_CONSIDERATION  
\* DATA TYPE String  
\* WIDTH 14  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Management considerations portray the most common and wide spread combinations of soil and landscape attributes that should be considered for intended land use. Field representing the soil and class combination contained in the soil map polygon.

DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

LIST OF VALUES

VALUE F

DESCRIPTION Fine Texture (clays and silty clays)

VALUE FW

DESCRIPTION Fine Texture and Wetness

VALUE FT

DESCRIPTION Fine Texture and Topography

VALUE FWT

DESCRIPTION Fine Texture, Wetness and Topography

VALUE C

DESCRIPTION Coarse Texture (loamy sands, sands and gravels)

VALUE CW

DESCRIPTION Coarse Texture and Wetness

VALUE CT

DESCRIPTION Coarse Texture and Topography

VALUE CWT

DESCRIPTION Coarse Texture, Wetness and Topography

VALUE T

DESCRIPTION Topography (slopes > 5.0%)

VALUE TB

DESCRIPTION Topography and Bedrock

VALUE B

DESCRIPTION Bedrock

VALUE W

DESCRIPTION Wetness (poor and very poor drainage)

VALUE WB

DESCRIPTION Wetness and Bedrock

VALUE WT

DESCRIPTION Wetness and Topography

[Hide Field MANCON1 ▲](#)

#### FIELD MANCON2

\* ALIAS SOIL\_2\_MANAGEMNT\_CONSIDERATION  
\* DATA TYPE String  
\* WIDTH 14  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as MANCON1, except that it applies to the second named soil series in the polygon (where applicable).

##### DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field MANCON2* ▲

#### FIELD MANCON3

\* ALIAS SOIL\_3\_MANAGEMNT\_CONSIDERATION  
\* DATA TYPE String  
\* WIDTH 14  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Same as MANCON1, except that it applies to the third named soil series in the polygon (where applicable).

##### DESCRIPTION SOURCE

[http://mli2.gov.mb.ca/soils/soilaid/meta\\_files/soilaid\\_description.doc](http://mli2.gov.mb.ca/soils/soilaid/meta_files/soilaid_description.doc)

*Hide Field MANCON3* ▲

#### FIELD TOPSOIL1

\* ALIAS SOIL\_1\_SUIT\_SOURCE\_OF\_TOPSOIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability as source of topsoil. The term "topsoil" includes soil materials used to cover barren surfaces exposed during construction, and materials used to improve soil conditions on lawns, gardens, flower beds, etc. The factors to be considered include not only the characteristic of the soil itself, but also the ease or difficulty of excavation, and where removal of topsoil is involved, accessibility to the site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=54>

*Hide Field TOPSOIL1* ▲

#### FIELD TOPSOIL2

\* ALIAS SOIL\_2\_SUIT\_SOURCE\_OF\_TOPSOIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 2 suitability as source of topsoil. The term "topsoil" includes soil materials used to cover barren surfaces exposed during construction, and materials used to improve soil conditions on lawns, gardens, flower beds, etc. The factors to be considered include not only the characteristic of the soil itself, but also the ease or difficulty of excavation, and where removal of topsoil is involved, accessibility to the site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=54>

*Hide Field TOPSOIL2* ▲

#### FIELD TOPSOIL3

\* ALIAS SOIL\_3\_SUIT\_SOURCE\_OF\_TOPSOIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability as source of topsoil. The term "topsoil" includes soil materials used to cover barren surfaces exposed during construction, and materials used to improve soil conditions on lawns, gardens, flower beds, etc. The factors to be considered include not only the characteristic of the soil itself, but also the ease or difficulty of excavation, and where removal of topsoil is involved, accessibility to the site.

##### DESCRIPTION SOURCE

<http://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=54>

*Hide Field TOPSOIL3* ▲

#### FIELD SAND\_GRAV1

\* ALIAS SOIL\_1\_SUIT\_SOURCE\_SAND\_GRAVEL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 1 suitability as source of sand and gravel. The purpose of this table is to provide guidance for assessing the probable supply as well as quality of the sand or gravel for use as road base material and in concrete. The interpretation pertains mainly to the characteristics of substratum to a depth of 150 cm, augmented by observations made in deep cuts as well as geological knowledge where available.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=55>

[Hide Field SAND\\_GRAV1 ▲](#)

FIELD SAND\_GRAV2



\* ALIAS SOIL\_2\_SUIT\_SOURCE\_SAND\_GRAVEL

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 2 suitability as source of sand and gravel. The purpose of this table is to provide guidance for assessing the probable supply as well as quality of the sand or gravel for use as road base material and in concrete. The interpretation pertains mainly to the characteristics of substratum to a depth of 150 cm, augmented by observations made in deep cuts as well as geological knowledge where available.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=55>

[Hide Field SAND\\_GRAV2 ▲](#)

FIELD SAND\_GRAV3



\* ALIAS SOIL\_3\_SUIT\_SOURCE\_SAND\_GRAVEL

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 3 suitability as source of sand and gravel. The purpose of this table is to provide guidance for assessing the probable supply as well as quality of the sand or gravel for use as road base material and in concrete. The interpretation pertains mainly to the characteristics of substratum to a depth of 150 cm, augmented by observations made in deep cuts as well as geological knowledge where available.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=55>

[Hide Field SAND\\_GRAV3 ▲](#)

FIELD ROADFILL1



\* ALIAS SOIL\_1\_SUIT\_AS\_SOURCE\_ROADFILL

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 1 suitability as source of roadfill. Fill material for building or roads are included in this use. The performance of the material when removed from its original location and placed under load at the building site or road bed are to be considered. Since surface materials are generally removed during road or building construction their properties are disregarded. Aside from this layer, the whole soil to a depth of 150-200 cm should be evaluated. Soil materials which are suitable for fill can be considered equally suited for road subgrade construction.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=56>

[Hide Field ROADFILL1 ▲](#)

FIELD ROADFILL2



\* ALIAS SOIL\_2\_SUIT\_AS\_SOURCE\_ROADFILL

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 2 suitability as source of roadfill. Fill material for building or roads are included in this use. The performance of the material when removed from its original location and placed under load at the building site or road bed are to be considered. Since surface materials are generally removed during road or building construction their properties are disregarded. Aside from this layer, the whole soil to a depth of 150-200 cm should be evaluated. Soil materials which are suitable for fill can be considered equally suited for road subgrade construction.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=56>

[Hide Field ROADFILL2 ▲](#)

FIELD ROADFILL3



\* ALIAS SOIL\_3\_SUIT\_AS\_SOURCE\_ROADFILL

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION



Soil 3 suitability as source of roadfill. Fill material for building or roads are included in this use. The performance of the material when removed from its original location and placed under load at the building site or road bed are to be considered. Since surface materials are generally removed during road or building construction their properties are disregarded. Aside from this layer, the whole soil to a depth of 150-200 cm should be evaluated. Soil materials which are suitable for fill can be considered equally suited for road subgrade construction.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=56>

[Hide Field ROADFILL3 ▲](#)

FIELD BASMNT1



\* ALIAS SOIL\_1\_SUIT\_BLDNG\_BASEMENT

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 1 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field BASMNT1 ▲](#)

FIELD BASMNT2



\* ALIAS SOIL\_2\_SUIT\_BLDNG\_BASEMENT

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 2 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field BASMNT2 ▲](#)

FIELD BASMNT3



\* ALIAS SOIL\_3\_SUIT\_BLDNG\_BASEMENT

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 3 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field BASMNT3 ▲](#)

FIELD NO\_BASMNT1



\* ALIAS SOIL\_1\_SUIT\_BLDNG\_NO\_BASEMENTS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 1 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field NO\\_BASMNT1 ▲](#)

FIELD NO\_BASMNT2



\* ALIAS SOIL\_2\_SUIT\_BLDNG\_NO\_BASEMENTS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 2 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field NO\\_BASMNT2 ▲](#)

FIELD NO\_BASMNT3

\* ALIAS SOIL\_3\_SUIT\_BLDNG\_NO\_BASEMENTS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 3 suitability for permanent buildings. This guide applies to undisturbed soils to be evaluated for single-family dwellings and other structures with similar foundation requirements. The emphasis for rating soils for buildings is on foundation requirements; but soil slope, susceptibility to flooding and other hydrologic conditions, such as wetness, that have effects beyond those related exclusively to foundations are considered as well. Also considered are soil properties, particularly depth to bedrock, which influence excavation, landscaping and septic tank absorption fields.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=57>

[Hide Field NO\\_BASMNT3 ▲](#)

FIELD ROAD\_ST1

\* ALIAS SOIL\_1\_SUIT\_FOR\_ROADS\_STREETS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 1 suitability for local roads and streets. This guide applies to soils to be evaluated for construction and maintenance of local roads and streets. These are improved roads and streets having some kind of all-weather surfacing, commonly asphalt or concrete, and are expected to carry automobile traffic all year. They consist of: (1) the underlying local soil material (either cut or fill) called the subgrade; (2) the base material of gravel, crushed rock, lime or soil cement, stabilized soil called the subbase; and (3) the actual road surface or pavement, either flexible or rigid. They are also graded to shed water and have ordinary provisions for drainage. With the probable exception of the hardened surface layer, the roads and streets are built mainly from the soil at hand, and cuts and fills are limited, usually less than 2 metres. Excluded from consideration in this guide are highways designed for fast moving, heavy trucks.

Properties that affect design and construction of roads and streets are: (1) those that affect the load supporting capacity and stability of the subgrade, and (2) those that affect the workability and amount of cut and fill. The AASHO and Unified Classification give an indication of the traffic supporting capacity. Wetness and flooding affect stability. Slope, depth of bedrock, stoniness, rockiness, and wetness affect the ease of excavation, and the amount of cut and fill to reach an even grade.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=58>

[Hide Field ROAD\\_ST1 ▲](#)

FIELD ROAD\_ST2

\* ALIAS SOIL\_2\_SUIT\_FOR\_ROADS\_STREETS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 2 suitability for local roads and streets. This guide applies to soils to be evaluated for construction and maintenance of local roads and streets. These are improved roads and streets having some kind of all-weather surfacing, commonly asphalt or concrete, and are expected to carry automobile traffic all year. They consist of: (1) the underlying local soil material (either cut or fill) called the subgrade; (2) the base material of gravel, crushed rock, lime or soil cement, stabilized soil called the subbase; and (3) the actual road surface or pavement, either flexible or rigid. They are also graded to shed water and have ordinary provisions for drainage. With the probable exception of the hardened surface layer, the roads and streets are built mainly from the soil at hand, and cuts and fills are limited, usually less than 2 metres. Excluded from consideration in this guide are highways designed for fast moving, heavy trucks.

Properties that affect design and construction of roads and streets are: (1) those that affect the load supporting capacity and stability of the subgrade, and (2) those that affect the workability and amount of cut and fill. The AASHO and Unified Classification give an indication of the traffic supporting capacity. Wetness and flooding affect stability. Slope, depth of bedrock, stoniness, rockiness, and wetness affect the ease of excavation, and the amount of cut and fill to reach an even grade.

DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=58>

[Hide Field ROAD\\_ST2 ▲](#)

FIELD ROAD\_ST3

\* ALIAS SOIL\_3\_SUIT\_FOR\_ROADS\_STREETS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Soil 3 suitability for local roads and streets. This guide applies to soils to be evaluated for construction and maintenance of local roads and streets. These are improved roads and streets having some kind of all-weather surfacing, commonly asphalt or concrete, and are expected to carry automobile traffic all year. They consist of: (1) the underlying local soil material (either cut or fill) called the subgrade; (2) the base material of gravel, crushed rock, lime or soil cement, stabilized soil called the subbase; and (3) the actual road surface or pavement, either flexible or rigid. They are also graded to shed water and have ordinary provisions for drainage. With the probable exception of the hardened surface layer, the roads and streets are built mainly from the soil at hand, and cuts and fills are limited, usually less than 2 metres. Excluded from consideration in this guide are highways designed for fast moving, heavy trucks.

Properties that affect design and construction of roads and streets are: (1) those that affect the load supporting capacity and stability of the subgrade, and (2) those that affect the workability and amount of cut and fill. The AASHO and Unified Classification give an indication of the traffic supporting capacity. Wetness and flooding affect stability. Slope, depth of bedrock, stoniness, rockiness, and wetness affect the ease of excavation, and the amount of cut and fill to reach an even grade.

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=58>

[Hide Field ROAD\\_ST3 ▲](#)

#### FIELD TRENCHTYP1

▶  
\* ALIAS SOIL\_1\_SUIT\_TRENCH\_TYP\_LANDFIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability for trench-type sanitary landfills. The trench-type sanitary landfill, involves the daily burial of dry garbage and trash in an open trench that is covered with a layer of soil material. Suitability of the site is dependent upon the potential for pollution of water sources through groundwater contact with the refuse, or leachate arising from the site. Those properties affecting ease of excavation of the site must be supplemented with geological and hydrological knowledge to provide subsurface soil and groundwater data to a depth of at least 3 to 4.5 m, a common depth of landfills.

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=59>

[Hide Field TRENCHTYP1 ▲](#)

#### FIELD TRENCHTYP2

▶  
\* ALIAS SOIL\_2\_SUIT\_TRENCH\_TYP\_LANDFIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 2 suitability for trench-type sanitary landfills. The trench-type sanitary landfill, involves the daily burial of dry garbage and trash in an open trench that is covered with a layer of soil material. Suitability of the site is dependent upon the potential for pollution of water sources through groundwater contact with the refuse, or leachate arising from the site. Those properties affecting ease of excavation of the site must be supplemented with geological and hydrological knowledge to provide subsurface soil and groundwater data to a depth of at least 3 to 4.5 m, a common depth of landfills.

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=59>

[Hide Field TRENCHTYP2 ▲](#)

#### FIELD TRENCHTYP3

▶  
\* ALIAS SOIL\_3\_SUIT\_TRENCH\_TYP\_LANDFIL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability for trench-type sanitary landfills. The trench-type sanitary landfill, involves the daily burial of dry garbage and trash in an open trench that is covered with a layer of soil material. Suitability of the site is dependent upon the potential for pollution of water sources through groundwater contact with the refuse, or leachate arising from the site. Those properties affecting ease of excavation of the site must be supplemented with geological and hydrological knowledge to provide subsurface soil and groundwater data to a depth of at least 3 to 4.5 m, a common depth of landfills.

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=59>

[Hide Field TRENCHTYP3 ▲](#)

#### FIELD AREA\_TYPE1

▶  
\* ALIAS SOIL\_1\_SUIT\_AREA\_TYPE\_LANDFILL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability for area-type sanitary landfills. In the area-type sanitary landfill, refuse is placed on the surface of the soil in successive layers. The daily and final cover material is generally imported. A final cover of soil material at least 60 cm thick is placed over the fill when it is completed.

The soil under the proposed site should be investigated to determine the probability that leachates from the landfill may penetrate the soil and thereby pollute water supplies.

DESCRIPTION SOURCE  
<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=60>

[Hide Field AREA\\_TYPE1 ▲](#)

#### FIELD AREA\_TYPE2

▶  
\* ALIAS SOIL\_2\_SUIT\_AREA\_TYPE\_LANDFILL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 2 suitability for area-type sanitary landfills. In the area-type sanitary landfill, refuse is placed on the surface of the soil in successive layers. The daily and final cover material is generally imported. A final cover of soil material at least 60 cm thick is placed over the fill when it is completed.

The soil under the proposed site should be investigated to determine the probability that leachates from the landfill may penetrate the soil and thereby pollute water supplies.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=60>

[Hide Field AREA\\_TYPE2 ▲](#)

#### FIELD AREA\_TYPE3

▶  
\* ALIAS SOIL\_3\_SUIT\_AREA\_TYPE\_LANDFILL  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability for area-type sanitary landfills. In the area-type sanitary landfill, refuse is placed on the surface of the soil in successive layers. The daily and final cover material is generally imported. A final cover of soil material at least 60 cm thick is placed over the fill when it is completed.

The soil under the proposed site should be investigated to determine the probability that leachates from the landfill may penetrate the soil and thereby pollute water supplies.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=60>

[Hide Field AREA\\_TYPE3 ▲](#)

#### FIELD COVER\_MAT1

▶  
\* ALIAS SOIL\_1\_SUIT\_COVR\_MATL\_AREA\_TYP  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability as cover material for area-type sanitary landfills. The term cover material includes soil materials used to put a daily and final covering layer in area-type sanitary landfills. This cover material may be derived from the area of the landfill or may be brought in from surrounding areas.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=61>

[Hide Field COVER\\_MAT1 ▲](#)

#### FIELD COVER\_MAT2

▶  
\* ALIAS SOIL\_2\_SUIT\_COVR\_MATL\_AREA\_TYP  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 2 suitability as cover material for area-type sanitary landfills. The term cover material includes soil materials used to put a daily and final covering layer in area-type sanitary landfills. This cover material may be derived from the area of the landfill or may be brought in from surrounding areas.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=61>

[Hide Field COVER\\_MAT2 ▲](#)

#### FIELD COVER\_MAT3

▶  
\* ALIAS SOIL\_3\_SUIT\_COVR\_MATL\_AREA\_TYP  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability as cover material for area-type sanitary landfills. The term cover material includes soil materials used to put a daily and final covering layer in area-type sanitary landfills. This cover material may be derived from the area of the landfill or may be brought in from surrounding areas.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=61>

[Hide Field COVER\\_MAT3 ▲](#)

#### FIELD S\_LAGOON1



\* ALIAS SOIL\_1\_SUIT\_FOR\_SEWAGE\_LAGOONS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Soil 1 suitability for reservoirs and sewage lagoons. Factors affecting the ability of undisturbed soils to impound water or sewage and prevent seepage, are considered for evaluating the suitability of soils for reservoir and lagoon areas. This evaluation considers soil both as a vessel for the impounded area and as material for the enclosing embankment. As the impounded liquids could be potential sources of contamination of nearby water supplies, e.g. sewage lagoons, the landscape position of the reservoir as it affects risk of flooding must also be considered.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=62>

[Hide Field S\\_LAGOON1 ▲](#)

#### FIELD S\_LAGOON2



\* ALIAS SOIL\_2\_SUIT\_FOR\_SEWAGE\_LAGOONS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Soil 2 suitability for reservoirs and sewage lagoons. Factors affecting the ability of undisturbed soils to impound water or sewage and prevent seepage, are considered for evaluating the suitability of soils for reservoir and lagoon areas. This evaluation considers soil both as a vessel for the impounded area and as material for the enclosing embankment. As the impounded liquids could be potential sources of contamination of nearby water supplies, e.g. sewage lagoons, the landscape position of the reservoir as it affects risk of flooding must also be considered.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=62>

[Hide Field S\\_LAGOON2 ▲](#)

#### FIELD S\_LAGOON3



\* ALIAS SOIL\_3\_SUIT\_FOR\_SEWAGE\_LAGOONS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Soil 3 suitability for reservoirs and sewage lagoons. Factors affecting the ability of undisturbed soils to impound water or sewage and prevent seepage, are considered for evaluating the suitability of soils for reservoir and lagoon areas. This evaluation considers soil both as a vessel for the impounded area and as material for the enclosing embankment. As the impounded liquids could be potential sources of contamination of nearby water supplies, e.g. sewage lagoons, the landscape position of the reservoir as it affects risk of flooding must also be considered.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=62>

[Hide Field S\\_LAGOON3 ▲](#)

#### FIELD SEP\_FIELD1



\* ALIAS SOIL\_1\_SUIT\_FOR\_SEPTIC\_FIELDS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Soil 1 suitability for septic tank absorption fields. This guide applies to soils to be used as an absorption and filtering medium for effluent from septic tank systems. A subsurface tile system laid in such a way that effluent from the septic tank is distributed reasonably uniformly into the natural soil is assumed when applying this guide. A rating of poor need not mean that a septic system should not be installed in the given soil, but rather, may suggest the difficulty, in terms of installation and maintenance, which can be expected.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=63>

[Hide Field SEP\\_FIELD1 ▲](#)

#### FIELD SEP\_FIELD2



\* ALIAS SOIL\_2\_SUIT\_FOR\_SEPTIC\_FIELDS

\* DATA TYPE String

\* WIDTH 3

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Soil 2 suitability for septic tank absorption fields. This guide applies to soils to be used as an absorption and filtering medium for effluent from septic tank systems. A subsurface tile system laid in such a way that effluent from the septic tank is distributed reasonably uniformly into the natural soil is assumed when applying this guide. A rating of poor need not mean that a septic system should not be installed in the given soil, but rather, may suggest the difficulty, in terms of installation and maintenance, which can be expected.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=63>

[Hide Field SEP\\_FIELD2 ▲](#)

#### FIELD SEP\_FIELD3

▶  
\* ALIAS SOIL\_3\_SUIT\_FOR\_SEPTIC\_FIELDS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability for septic tank absorption fields. This guide applies to soils to be used as an absorption and filtering medium for effluent from septic tank systems. A subsurface tile system laid in such a way that effluent from the septic tank is distributed reasonably uniformly into the natural soil is assumed when applying this guide. A rating of poor need not mean that a septic system should not be installed in the given soil, but rather, may suggest the difficulty, in terms of installation and maintenance, which can be expected.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=63>

[Hide Field SEP\\_FIELD3 ▲](#)

#### FIELD PLAY\_GRND1

▶  
\* ALIAS SOIL\_1\_SUIT\_FOR\_PLAYGROUNDS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability for playgrounds. This guide applies to soils to be used intensively for playgrounds, football, badminton, and for other similar organized games. These areas are subject to intensive foot traffic. A nearly level surface, good drainage, and a soil texture and consistence that provide a firm surface generally are required. The most desirable soils are free of rock outcrops and coarse fragments.

Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=64>

[Hide Field PLAY\\_GRND1 ▲](#)

#### FIELD PLAY\_GRND2

▶  
\* ALIAS SOIL\_2\_SUIT\_FOR\_PLAYGROUNDS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 2 suitability for playgrounds. This guide applies to soils to be used intensively for playgrounds, football, badminton, and for other similar organized games. These areas are subject to intensive foot traffic. A nearly level surface, good drainage, and a soil texture and consistence that provide a firm surface generally are required. The most desirable soils are free of rock outcrops and coarse fragments.

Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=64>

[Hide Field PLAY\\_GRND2 ▲](#)

#### FIELD PLAY\_GRND3

▶  
\* ALIAS SOIL\_3\_SUIT\_FOR\_PLAYGROUNDS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 3 suitability for playgrounds. This guide applies to soils to be used intensively for playgrounds, football, badminton, and for other similar organized games. These areas are subject to intensive foot traffic. A nearly level surface, good drainage, and a soil texture and consistence that provide a firm surface generally are required. The most desirable soils are free of rock outcrops and coarse fragments.

Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=64>

[Hide Field PLAY\\_GRND3 ▲](#)

#### FIELD PICNIC1

▶  
\* ALIAS SOIL\_1\_SUIT\_FOR\_PICNIC\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

##### FIELD DESCRIPTION

Soil 1 suitability for picnic areas. This guide applies to soils considered for intensive use as park-type picnic areas. It is assumed that most vehicular traffic will be confined to the access roads. Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

##### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=65>

[Hide Field PICNIC1 ▲](#)

#### FIELD PICNIC2



\* ALIAS SOIL\_2\_SUIT\_FOR\_PICNIC\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 2 suitability for picnic areas. This guide applies to soils considered for intensive use as park-type picnic areas. It is assumed that most vehicular traffic will be confined to the access roads. Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=65>

[Hide Field PICNIC2 ▲](#)

#### FIELD PICNIC3



\* ALIAS SOIL\_3\_SUIT\_FOR\_PICNIC\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 3 suitability for picnic areas. This guide applies to soils considered for intensive use as park-type picnic areas. It is assumed that most vehicular traffic will be confined to the access roads. Soil suitability for growing and maintaining vegetation is not a part of this guide, except as influenced by moisture, but is an important item to consider in the final evaluation of site.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=65>

[Hide Field PICNIC3 ▲](#)

#### FIELD CAMP\_AREA1



\* ALIAS SOIL\_1\_SUIT\_FOR\_CAMP\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 1 suitability for camp areas. This guide applies to soils to be used intensively for tents and camp trailers and the accompanying activities of outdoor living. It is assumed that little site preparation will be done other than shaping and levelling for campsites and parking areas. The soil should be suitable for heavy foot traffic by humans and limited vehicular traffic. Soil suitability for growing and maintaining vegetation is not a part of this guide, but is an important item to consider in the final evaluation of site.

Back country campsites differ in design, setting and management but require similar soil attributes. These guides should apply to evaluations for back country campsites but, depending on the nature of the facility, the interpreter may wish to adjust the criteria defining a given degree of limitation to reflect the changed requirement. For example, small tent sites may allow rock exposures greater than 10 m apart to be considered slight limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=66>

[Hide Field CAMP\\_AREA1 ▲](#)

#### FIELD CAMP\_AREA2



\* ALIAS SOIL\_2\_SUIT\_FOR\_CAMP\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 2 suitability for camp areas. This guide applies to soils to be used intensively for tents and camp trailers and the accompanying activities of outdoor living. It is assumed that little site preparation will be done other than shaping and levelling for campsites and parking areas. The soil should be suitable for heavy foot traffic by humans and limited vehicular traffic. Soil suitability for growing and maintaining vegetation is not a part of this guide, but is an important item to consider in the final evaluation of site.

Back country campsites differ in design, setting and management but require similar soil attributes. These guides should apply to evaluations for back country campsites but, depending on the nature of the facility, the interpreter may wish to adjust the criteria defining a given degree of limitation to reflect the changed requirement. For example, small tent sites may allow rock exposures greater than 10 m apart to be considered slight limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=66>

[Hide Field CAMP\\_AREA2 ▲](#)

#### FIELD CAMP\_AREA3



\* ALIAS SOIL\_3\_SUIT\_FOR\_CAMP\_AREAS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 3 suitability for camp areas. This guide applies to soils to be used intensively for tents and camp trailers and the accompanying activities of outdoor living. It is assumed that little site preparation will be done other than shaping and levelling for campsites and parking areas. The soil should be suitable for heavy foot traffic by humans and limited vehicular traffic. Soil suitability for growing and maintaining vegetation is not a part of this guide, but is an important item to consider in the final evaluation of site.

Back country campsites differ in design, setting and management but require similar soil attributes. These guides should apply to evaluations for back country campsites but, depending on the nature of the facility, the interpreter may wish to adjust the criteria defining a given degree of limitation to reflect the changed requirement. For example, small tent sites may allow rock exposures greater than 10 m apart to be considered slight limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=66>

[Hide Field CAMP\\_AREA3 ▲](#)

#### FIELD PATH1



\* ALIAS SOIL\_1\_SUIT\_FOR\_PATHS\_TRAILS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 1 suitability for paths and trails. It is assumed that the trails will be built at least 45 cm wide and that obstructions such as cobbles and stones will be removed during construction. It is also assumed that a dry, stable tread is desirable and that muddy, dusty, worn or eroded trail treads are undesirable. Hiking and riding trails are not treated separately, but as the design requirements for riding trails are more stringent, a given limitation will be more difficult to overcome. Poor or very poor suitability does not indicate that a trail cannot or should not be built. It does, however, suggest higher design requirements and maintenance to overcome the limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=67>

[Hide Field PATH1 ▲](#)

#### FIELD PATH2



\* ALIAS SOIL\_2\_SUIT\_FOR\_PATHS\_TRAILS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 2 suitability for paths and trails. It is assumed that the trails will be built at least 45 cm wide and that obstructions such as cobbles and stones will be removed during construction. It is also assumed that a dry, stable tread is desirable and that muddy, dusty, worn or eroded trail treads are undesirable. Hiking and riding trails are not treated separately, but as the design requirements for riding trails are more stringent, a given limitation will be more difficult to overcome. Poor or very poor suitability does not indicate that a trail cannot or should not be built. It does, however, suggest higher design requirements and maintenance to overcome the limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=67>

[Hide Field PATH2 ▲](#)

#### FIELD PATH3



\* ALIAS SOIL\_3\_SUIT\_FOR\_PATHS\_TRAILS  
\* DATA TYPE String  
\* WIDTH 3  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Soil 3 suitability for paths and trails. It is assumed that the trails will be built at least 45 cm wide and that obstructions such as cobbles and stones will be removed during construction. It is also assumed that a dry, stable tread is desirable and that muddy, dusty, worn or eroded trail treads are undesirable. Hiking and riding trails are not treated separately, but as the design requirements for riding trails are more stringent, a given limitation will be more difficult to overcome. Poor or very poor suitability does not indicate that a trail cannot or should not be built. It does, however, suggest higher design requirements and maintenance to overcome the limitations.

#### DESCRIPTION SOURCE

<https://www.gov.mb.ca/agriculture/soil/soil-survey/pubs/d91blanshard.pdf#page=67>

[Hide Field PATH3 ▲](#)

#### FIELD Shape\_Length



\* ALIAS Shape\_Length  
\* DATA TYPE Double  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

#### FIELD DESCRIPTION

Length of feature in internal units.

#### \* DESCRIPTION SOURCE

ESRI

#### \* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.



[Hide Field Shape\\_Length ▲](#)

FIELD Shape\_Area



\* ALIAS Shape\_Area  
\* DATA TYPE Double  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0  
\* FIELD DESCRIPTION  
Area of feature in internal units squared.  
  
\* DESCRIPTION SOURCE  
ESRI  
  
\* DESCRIPTION OF VALUES  
Positive real numbers that are automatically generated.

[Hide Field Shape\\_Area ▲](#)

[Hide Details for object Cornwallis\\_Detailed\\_Soils1to20k ▲](#)

[Hide Fields ▲](#)

**Metadata Details ▶**

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SCOPE NAME \* dataset  
  
\* LAST UPDATE 2019-11-13  
  
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STANDARD OR PROFILE USED TO EDIT METADATA NAP  
  
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LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-11-13 10:27:08  
  
AUTOMATIC UPDATES  
HAVE BEEN PERFORMED Yes  
LAST UPDATE 2019-11-13 10:27:08

[Hide Metadata Details ▲](#)

**Metadata Contacts ▶**

METADATA CONTACT  
INDIVIDUAL'S NAME Steve Hamm  
ORGANIZATION'S NAME Manitoba Agriculture  
CONTACT'S POSITION Soil Cartographer  
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POSTAL CODE R0J 1E0  
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HOURS OF SERVICE  
Monday - Friday, 8:30 - 16:30 CST

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

MAINTENANCE  
UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ►

CONSTRAINTS  
LIMITATIONS OF USE

Manitoba Agriculture makes every effort to ensure that soil survey data and interpretations are accurate, verified, and up-to-date. However, as data is continuously updated, sorted and verified, future updates may contain additional information.

The data is intended to be used at the appropriate scale, as identified in the 'SCALE' attribute field of the feature class.

The data represents the results of data collection/processing for a specific activity and indicate the general existing conditions. As such, each dataset is only valid for its intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than their intended purpose.

[Hide Metadata Constraints ▲](#)

## Thumbnail and Enclosures ►

THUMBNAIL  
THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

## FGDC Metadata (read-only) ▼