## Agricultural Interpretations Database Description

**Date of last update:** 31-Mar-2003

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**Database Content Description**

**AREA**
Area of feature in internal units squared.

**PERIMETER**
Perimeter of feature in internal units.

**SOIL_**
Internal feature number.

**SOIL_ID**
User-defined feature number.

**TAGID**
System Attribute for storing polygon identifier.

**RM**
Rural Municipality.

**PROJECT_NU**
Soil Survey Report Number.

**PROJECT_NA**
Project Name.

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

**VERSN_DATE**
Version date.

**MAPUNITNOM**
Soil Map Unit Symbol as shown on the original paper map.

**SOIL_CODE**
Three character code for the soil name.
- **SOIL_CODE1** Must not be blank, values assigned by correlator
- **SOIL_CODE2** Use blank if EXTENT1 = 100
- **SOIL_CODE3** Use blank if EXTENT1 + EXTENT2 = 100
MODIFIER  Three character code to show soil variations. The modifier applies to the soil name and the soil code. This field may be blank. Modifiers may be used in various combinations, as required. Common single modifiers are:

- **d**__ drained phase
- **p**__ peaty phase
- **S**__ Sphagnic phase (organic soils only)
- **v**__ very poorly drained phase
- **s**__ slightly saline phase
- **t**__ moderately saline phase
- **u**__ strongly saline phase
- **1**__ numeric variant (series specific)
- **2**__ numeric variant (series specific)
- **1**__ slightly eroded phase
- **2**__ moderately eroded phase
- **3**__ strongly eroded phase
- **o**__ overblown phase

Modifier codes are left justified, except for erosion phase variants (to avoid confusion with numeric soil series variants).

CLASS  Field for storing EROSION, SLOPE, STONINESS and SALINITY codes. Used with SOIL_CODE and MODIFIER to create unique soil map units.

- **CLASS1** Must not be blank, defaults to xxxx
- **CLASS2** Use blank if SOIL_CODE2 is blank
- **CLASS3** Use blank if SOIL_CODE3 is blank

EXTENT  Percent of the map unit occupied by a specific soil.

- **EXTENT1** 34 TO 100
- **EXTENT2** 0 TO 50 0 if SOIL_CODE2 is blank
- **EXTENT3** 0 TO 33 0 if SOIL_CODE3 is blank

SLOPEP  Slope steepness in percent

- **SLOPEP1** 0 to 150 % if SOIL_CODE1 is mineral.
- **SLOPEP2** 0 to 150 % or -9.
- **SLOPEP3** 0 to 150 % or -9.
- **-9** if SOIL_CODE is nonsoil or unclassified

STONE  Stoniness Class

- **-** Not Applicable
- **0** Nonstony 0 < .01% of surface covered
- **1** Slightly stony .01 - -.1%
- **2** Moderately stony .1 - 3%
- **3** Very stony 3 - 15%
- **4** Exceedingly stony 15 - 50%
- **5** Excessively stony > 50% of surface covered by stones

EROSION  Apparent Erosion Class
- Not Applicable
1 Slightly eroded
2 Moderately eroded
3 Severely Eroded
0 Overblown

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Database. Calculated slope length and slope steepness value used by Universal Soil Loss Equation.

**LS_MEAN3** Slope and Steepness Factor associated with the third soil in the Soil Map Database. Calculated slope length and slope steepness value used by Universal Soil Loss Equation.

**C_ERPOLY** 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.
- 21 - Negligible
- 22 - Low
- 23 - Moderate
- 24 - High
- 25 - Severe
- 6 - Water
- 16 - Urban, modified or unclassified

**C_AGRI** Classification field summarizing the field AGRI_CAP1 (Agriculture Capability for Dryland Agriculture) representing the dominant soil and phase condition in the map polygon.
- 21 - Agricultural Capability class "1"
- 22 - Agricultural Capability class "2"
- 23 - Agricultural Capability class "3"
- 24 - Agricultural Capability class "4"
- 25 - Agricultural Capability class "5"
- 26 - Agricultural Capability class "6"
- 27 - Agricultural Capability class "7"
- 28 - Agricultural Capability class "O" organic soils
- 6 - Water
- 16 - Urban, modified or unclassified

**C_SLOPE** Classification field summarizing slope steepness based on the dominant slope gradient of map polygon.
- 21 - slope 0 - 2.0%
- 22 - slope 2.0 - 5.0 %
- 23 - slope 5.0 - 9.0 %
- 24 - slope 9.0 - 15.0 %
- 25 - slope 15.0 - 30.0 %
- 26 - slope > 30 %
- 26 - Soil_code1 = Eroded slopes (soil code SER)
- 6 - Water
- 16 - Urban, modified or unclassified

**C_GEN** Classification field summarizing GEN_RATIN1 (Irrigation Suitability Rating) representing the dominant soil and phase condition in the map polygon.
21 - Excellent
22 – Good
23 - Fair
24 - Poor
25 - Organic
6 - Water
16 - Urban, modified or unclassified

C_POT Classification field summarizing POT_IMPAC1 (Potential Environmental Impact) representing the dominant soil and phase condition in the map polygon.
21 - None
22 - Low
23 - Medium
24 - High
6 - Water
16 - Urban, modified or unclassified

C_DRAIN Classification field for summarizing the DRAINAGE1 field representing the dominant soil and phase condition in the map polygon.
21 - Very Rapid
22 - Rapid
23 - Well
25 - Imperfect
26 - Poor
29 - Poor (Improved)
27 - Very Poor
28 - Rock
6 - Water
13 - Marsh
16 - Urban, modified or unclassified

C_MAN Classification field for summarizing the MANCON1 (Management Considerations) field representing the dominant soil and phase condition in the map polygon.
20 - No Constraints
21 - C
22 - Rock
24 - T
24 - Soil_code1 is eroded slope ($ER) - T
24 - CWT
24 - FWT
30 - B
30 - W B
30 - TB
31 - W
31 - WT
C_SALT  Classification field 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

21 - salinity class ‘x’ (< 4 dS/m.)
22 - salinity class ‘s’ (4-8 dS/m.)
23 - salinity class ‘t’ (8 - 15 dS/m.)
24 - salinity class ‘u’ (>15 dS/m.)
6 - Water
7 - Soil_code1 is eroded slopes ($ER)
13 - Soil_code1 is marsh ($MH)
16 - Urban, modified or unclassified

C_SOIL  Classification field for summarizing Soil Association organized by Order, Mode of Deposition, Sub Group, Texture, Drainage, Chemical Composition, and Climatic Zone.

2 - Urban, modified, or unclassified
6 - Water
16 - Salt Flats
18 - Sand and Gravel
19 - Eroded Slopes
20 - Sand and Gravel (Gleysols)
21 - Sandy Lacustrine
22 - Variable Textured Alluvium (Regosols)
25 - Permafrost, Mineral
26 - Sandy Eolian
27 - Loamy Till with water worked surfaces
28 - Loamy Till (Black Chernozem)
29 - Loamy Till (Gleysols)
30 - Sandy Loam Lacustrine
31 - Loamy Lacustrine
32 - Strongly Acidic Clay Till
33 - Clayey Lacustrine (Black Chernozems)
34 - Sandy Lacustrine (Gleysols)
35 - Shallow Organic Fen Peat
36 - Deep Organic Fen Peat
37 - Sandy Loam Lacustrine (Gleysols)
38 - Loam Lacustrine (Gleysols)
40 - Clayey Lacustrine (Gleysols)
42 - Clay over Shale Bedrock
44 - Permafrost, Organic
48 - Loamy Till (Dark Gray Chernozem)
49 - Marsh
50 - Highly Calcareous Loamy Till (Brunisols and Dark Gray Chernozem)
51 - Loamy Till (Luvisols)
52 - Highly Calcareous Loamy Till (Black Chernozem)
53 - Acidic, Coarse Loamy Till
54 - Weakly Calcareous Sandy Loam Till
55 - Weakly Calcareous Sandy Loam Till (Gleysols)
56 - Extremely Calcareous Loamy Till (Brunisols and Dark Gray Chernozem)
57 - Extremely Calcareous Loamy Till (Black Chernozem)
60 - Variable Textured Alluvium (Gleysols)
62 - Highly Calcareous Loamy Till (Gleysols)
63 - Clayey Lacustrine (Gleysols)
64 - Clayey Lacustrine (Luvisols and Dark Gray Chernozems)
68 - Shallow Organic Forest Peat
69 - Deep Organic Forest or Sphagnum Peat
71 - Precambrian Bedrock
72 - Sand and Gravel with Overlays
73 - Limestone Bedrock
74 - Sand and Gravel with Overlays (Gleysols)
79 - Shale Bedrock

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

CLAYEY
  21 - C
  21 - SIC
  21 - SC
  21 - C-CL
FINE LOAMY
  22 - CL
  22 - SICL
  22 - SiCL
  22 - SCL
  22 - CL-L
  22 - CL-C
  22 - L-CL
  22 - L
COARSE LOAMY
  23 - VFSL
  23 - SL-L
  23 - SIL
  23 - FSL
  23 - VFS
  23 - LVFS
23 - SL
SAND
24 - S-SL
24 - LFS
24 - LS
24 - FS
24 - CSL
COARSE SANDS
25 - CS
25 - S
25 - MS
25 - GRLS
25 - GRSL
25 - LCS
25 - CB
ORGANIC
26 - M
26 - O
26 - H
26 - F

ERCLS1 Field containing Water Erosion Risk Class. Calculation of estimated soil loss on bare unprotected soil implementing the Universal Soil Loss Equation (USLE) upon **SOIL_CODE1** in the map polygon measured in tonnes/hectare/year.

- N - Negligible (< 6 t/h/y)
- L - Low (6 - 11 t/h/y)
- M - Moderate (11 - 22 t/h/y)
- H - High (22 - 33 t/h/y)
- S - Severe (> 33 t/h/y)

ERCLS2 Field containing Water Erosion Risk Class. Calculation of estimated soil loss on bare unprotected soil implementing the Universal Soil Loss Equation (USLE) upon **SOIL_CODE2** in the map polygon measured in tonnes/hectare/year.

- N - Negligible (< 6 t/h/y)
- L - Low (6 - 11 t/h/y)
- M - Moderate (11 - 22 t/h/y)
- H - High (22 - 33 t/h/y)
- S - Severe (> 33 t/h/y)

ERCLS3 Field containing Water Erosion Risk Class. Calculation of estimated soil loss on bare unprotected soil implementing the Universal Soil Loss Equation (USLE) upon **SOIL_CODE3** in the map polygon measured in tonnes/hectare/year.

- N - Negligible (< 6 t/h/y)
- L - Low (6 - 11 t/h/y)
ERPOLY
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
- N - Negligible (< 6 t/h/y)
- L - Low (6 - 11 t/h/y)
- M - Moderate (11 - 22 t/h/y)
- H - High (22 - 33 t/h/y)
- S - Severe (> 33 t/h/y)

ERSYMBOL
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.

AGRI_CAP1
Agriculture Capability for Dryland Agriculture utilizing the seven class Canada Land Inventory system (CLI) for the first soil and phase combination contained in the soil map database. The seven capability classes which groups soils together have the same relative degree of limitation or hazard for agricultural use. The limitation becomes progressively greater from Class 1 to Class 7. Various kinds of limitations within soil capability classes are:
- C - Climate
- D - Undesirable soil structure or permeability
- E - Erosion
- F - Low Fertility
- I - Inundation
- L - Coarse Wood Fragments
- M - Moisture Limitation
- N - Salinity
- P - Stoniness
- R - Consolidated Bedrock
- T - Topography
- W - Excess Water
- X - Cumulative minor adverse characteristics

AGRI_CAP2
Agriculture Capability for Dryland Agriculture utilizing the seven class Canada Land Inventory system (CLI) for the second soil and modifier combination contained in the soil map database. Same subclass limitations as AGRI_CAP1

AGRI_CAP3
Agriculture Capability for Dryland Agriculture utilizing the seven class Canada Land Inventory system (CLI) for the third soil and modifier combination contained in the soil map database. Same subclass limitations
as AGRI_CAP1.

**SOIL_FACT1**

Soil Property Classes for Irrigation Suitability Classification System for the first soil and modifier combination contained in the soil map database. A complete Description of the rating guidelines are in “An Irrigation Suitability Classification System for the Prairie Provinces” (ISC,1987).

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 - Sodicity
- q - Intake Rate
- r - Depth to Bedrock
- s - Salinity
- w - Drainage
- x – Drainability

The degree of limitation is categorized into four classes:
1 - None
2 - Slight
3 - Moderate
4 - Severe

**LANDSCAPE1**

Landscape Feature Classes for Irrigation Suitability Classification System for the first soil and modifier combination contained in the soil map database. A complete Description of the rating guidelines are in “An Irrigation Suitability Classification System for the Prairie Provinces” (ISC,1987).

Limitations within the four class landscape feature classification are:
- e - Local Relief
- i - Inundation
- p - Stoniness
- t - Topography

The degree of limitation is categorized into four classes:
A - None
B - Slight
C - Moderate
D – Severe

**IRRIG_CLA1**

Irrigation Suitability Class representing the first soil and modifier combination contained in the soil map database. Combination of **SOIL_FACT1** and **LANDSCAPE1** codes for classification matrix. A
complete Description of the rating guidelines are in “An Irrigation Suitability Classification System for the Prairie Provinces” (ISC,1987).

**GEN_RATIN1**  Irrigation Suitability Rating representing the first soil and modifier combination contained in the soil map database. A complete Description of the rating guidelines are in “An Irrigation Suitability Classification System for the Prairie Provinces” (ISC,1987). Most Limiting combination of IRRIG_CLA1 in one of 16 classes. These classes are grouped and described by four ratings of general suitability as:

- Excellent
- Good
- Fair
- Poor

**POT_IMPAC1**  Potential Environmental Impact representing the first soil and modifier combination in the soil map database. A complete Description of the rating guidelines are in “An Irrigation Suitability Classification System for the Prairie Provinces” (ISC,1987). The rating recognizes soil and/or landscape conditions which under irrigation could impact on the irrigated area. Relative guide using four general ratings of:

- None
- Low
- Medium
- High

**SOIL_FACT2**  Soil Property Classes for Irrigation Suitability Classification System for the second soil and modifier combination contained in the soil map database.

**LANDSCAPE2**  Landscape Feature Classes for Irrigation Suitability Classification System for the second soil and modifier combination contained in the soil map database.

**IRRIG_CLA2**  Irrigation Suitability Class representing the second soil and modifier combination contained in the soil map database. Combination of SOIL_FACT2 and LANDSCAPE2 codes for classification matrix.

**GEN_RATIN2**  Irrigation Suitability Rating representing the second soil and modifier combination contained in the soil map database.

**POT_IMPAC2**  Potential Environmental Impact representing the second soil and modifier combination in the soil map database.

**SOIL_FACT3**  Soil Property Classes for Irrigation Suitability Classification System for the third soil and modifier combination contained in the soil map database.
LANDSCAPE3 Landscape Feature Classes for Irrigation Suitability Classification System for the third soil and modifier combination contained in the soil map database.

IRRIG_CLA3 Irrigation Suitability Class representing the third soil and modifier combination contained in the soil map database. Combination of SOIL_FACT3 and LANDSCAPE3 codes for classification matrix.

GEN_RATIN3 Irrigation Suitability Rating representing the third soil and modifier combination contained in the soil map database.

POT_IMPAC3 Potential Environmental Impact representing the third soil and modifier combination in the soil map database.

DRAINAGE1 Drainage in soil reports is described on the basis of actual moisture content in excess of field capacity and length of the saturation period within the plant root zone. Drainage representing the first soil and modifier combination contained in the soil map database.

- R - Rapid
- W - Well
- I - Imperfect
- P - Poor
- VP - Very Poor

DRAINAGE2 Drainage representing the second soil and modifier combination contained in the soil map database.

DRAINAGE3 Drainage representing the third soil and modifier combination contained in the soil map database.

SURFTEXT1 Surface Texture standard USDA soil texture abbreviations (SIL = silt loam, etc.). For agricultural soils, (LU = A), this is the modal texture of the Ap horizon (normally the top 15cm). For native mineral soils (LU = N), a value for a hypothetical 15cm Ap horizon is assumed. For organic soils, and peaty phases of mineral soils, SURFTEXT values are F (Fibric), M (Mesic), H (Humic), or O (Organic, undifferentiated). Field representing the first soil and modifier combination contained in the soil map database.

- CLAYEY
  - C - Clay
  - SIC - Silty Clay
  - SC - Sandy Clay
  - C-CL - Clay to Clay Loam

- FINE LOAMY
  - CL - Clay Loam
  - SiCL - Silty Clay Loam
SURFTEXT2  Field representing the second soil and modifier combination contained in the soil map database.

SURFTEXT3  Field representing the third soil and modifier combination contained in the soil map database.

SURFTEXTM1  Surface Texture Modifier. This data field is typically blank. Field representing the first soil and modifier combination contained in the soil map database.

GR - Gravelly
VR - Very Gravelly
MU - Mucky
WY - Woody
**SURFTEXTM2**  Surface Texture Modifier. This data field is typically blank. Field representing the second soil and modifier combination contained in the soil map database.

**SURFTEXTM3**  Surface Texture Modifier. This data field is typically blank. Field representing the third soil and modifier combination contained in the soil map database.

**MANCON1**  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 first soil and modifier combination contained in the soil map database.

- **F**  - Fine Texture (clays and silty clays)
- **FW**  - Fine Texture and Wetness
- **FT**  - Fine Texture and Topography
- **FWT**  - Fine Texture, Wetness and Topography
- **C**  - Coarse Texture (loamy sands, sands and gravels)
- **CW**  - Coarse Texture and Wetness
- **CT**  - Coarse Texture and Topography
- **CWT**  - Coarse Texture, Wetness and Topography
- **T**  - Topography (slopes > 5.0%)
- **TB**  - Topography and Bedrock
- **B**  - Bedrock
- **W**  - Wetness (poor and very poor drainage)
- **WB**  - Wetness and Bedrock
- **WT**  - Wetness and Topography

**MANCON2**  Field representing the second soil and modifier combination contained in the soil map database.

**MANCON3**  Field representing the third soil and modifier combination contained in the soil map database.