Description of Soil Map Unit File ("SMUF") Structure and Database

Date of last update: 31-Mar-2003

Field	Field Name	Type	Width	Dec	Index
1	AREA	Numeric	18	5	N
2	PERIMETER	Numeric	18	5	N
3	SOIL_	Numeric	11		N
4	SOIL_ID	Numeric	11		N
5	TAGID	Character	20		N
6	RM	Character	25		N
7	PROJECT_NU	Character	3		N
8	PROJECT_NA	Character	40		N
9	SCALE	Character	11		N
10	VERSN_DATE	Character	10		N
11	MAPUNITNOM	Character	60		N
12	SOIL_CODE1	Character	3		N
13	MODIFIER1	Character	3		N
14	CLASS1	Character	4		N
15	EXTENT1	Numeric	3		N
16	SOIL_CODE2	Character	3		N
17	MODIFIER2	Character	3		N
18	CLASS2	Character	4		N
19	EXTENT2	Numeric	2		N
20	SOIL_CODE3	Character	3		N
21	MODIFIER3	Character	3		N
22	CLASS3	Character	4		N
23	EXTENT3	Numeric	2		N
24	SLOPEP1	Numeric	5	1	N
25	SLOPEP2	Numeric	5	1	N
26	SLOPEP3	Numeric	5	1	N
27	STONE1	Character	1		N
28	STONE2	Character	1		N
29	STONE3	Character	1		N
30	EROSION1	Character	1		N
31	EROSION2	Character	1		N
32	EROSION3	Character	1		N
33	SALINITY1	Character	1		N
34	SALINITY2	Character	1		N
35	SALINITY3	Character	1		N
** TOTAL **			289		

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.
Allowable Extent Value
      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 coved by stones

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

SALINITY Salinity Class
      x Non Saline   0 - 4 mS/cm
      s Weakly Saline   4 - 8 mS/cm
      t Moderately Saline 8 - 15 mS/cm

u Strongly Saline   > 15   mS/cm