Database Code: SP001

**Title:** Soil descriptions and data for soil profiles in the Andrews Experimental Forest, selected reference stands, Research Natural Areas, and National Parks, 1962 & 1996

**Abstract:**
Provides standard soil profile descriptions along with physiographic data and classifications. Physical and chemical profile data are included when available.

**Keywords:** Long-Term Ecological Research (LTER); Organic matter; Primary production; Soil chemistry; Soil classification; Soil descriptions; Soil physics; Soil profiles; Inorganic nutrients; Organic matter; Long-Term Ecological Research (LTER); Soil chemistry; Soil properties; Primary production; Inorganic nutrients; Organic matter; Soil horizons;

**Date data commenced:** 1962-01-01

**Date data terminated:** 1996-01-01

**Principal Investigator:** C. Ted Dyrness

**List of Entities:**
1. Profile Level Data (Classification, Location, etc.)
2. Horizon Level Data (description, physical and chemical Data)

<table>
<thead>
<tr>
<th>Attribute List:</th>
<th>PROFILE</th>
<th>SERIES</th>
<th>GR_GROUP</th>
<th>USDACLASS</th>
<th>MAPUNIT</th>
<th>SCS_EQUIV</th>
<th>LANDFORM</th>
<th>SLOPE</th>
<th>ASPECT</th>
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<th>ELEVATION</th>
<th>PARENTMAT</th>
<th>DRAINAGE</th>
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### Horizon Level Data (description, physical and chemical Data)

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### Notes:
- **NR_HOR**: numeric(2,0) range 1.0000 12.0000
- **PHYSDATA**: char(1) enum
- **CHEMDATA**: char(1) enum
- **PROF_DESC**: text freetext
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Attributes Definitions:

**ASPECT**
- Code for cardinal directions

**BASE_SAT**
- Percent base saturation

**BOUNDARY**
- Distinctness and topography of the lower horizon boundary

**CA**
- Exchangeable Ca of soil

**CEC**
- Cation exchange capacity of soil

**CHEMDATA**
- Presence of chemical data (Y/N)

**CLAY**
- Percent clay

**CONSDRY**
- Dry consistence

**CONSISTENC**
- Codes for dry, moist, and wet soil consistence

**CONSMOIST**
- Moist consistence

**CONSWET**
- Wet consistence

**DATE**
Date of profile description (m-yy and dd-mm-yy)

DENSITY
   Bulk density of soil

DEPTH_B
   Depth at the bottom of the horizon (in inches)

DEPTH_T
   Depth at the top of the horizon (in inches)

DESCRIPTN
   Name of persons describing the profile

DRAINAGE
   Drainage classes (explicit)

DRYCOLOR
   Munsell color of the dry soil

EL_CLASS
   Elevation class in 500 ft. intervals (explicit)

ELEVATION
   Elevation at the profile

GEO_AREA
   Broader geographic area (e.g. HJA, National Parks, etc.)

GR_GROUP
   Taxonomic great group

HORIZON
   Horizon designation

K
   Exchangeable K of soil

LANDFORM
   Explicit geomorphic unit at the profile location

LOC_CODE
   FSDB location code

LOCATION
   Brief location description

MAPUNIT
   Soil series and phase as mapped in the location of the profile

MG
   Exchangeable Mg of soil

MOISTCOL1
   Dominant munsell color of the moist soil
MOISTCOL2
    Moist Munsell color of mottles or variegations

MT_FIFTEEN
    Percent moisture on a dry-weight basis at 15 atm tension

MT_FIVE
    Percent moisture on a dry-weight basis at 5 atm tension

MT_ONE
    Percent moisture on a dry-weight basis at 1 atm tension

MT_THIRD
    Percolation rate in undisturbed soil cores determined in the lab

NA
    Exchangeable Na of soil

NR_HOR
    Number of soil horizons in profile

OM
    Organic matter content of soil

OTHER
    Explicit coarse fragments, O horizon characteristics, clay skins, mottling, etc

P
    Available P content of soil

PARENTMAT
    Explicit description of soil parent material

PH
    pH of 1:1 soil-water suspension

PHYSDATA
    Presence of physical data (Y/N)

PROF_DESC
    Generated profile description, with chemical and physical data if present

PROFILE
    Profile number

ROOTS
    Explicit abundance of roots, usually by size class

SAND
    Percent sand

SCS_EQUIV
    For HJA only: SCS equivalent to the hja series

SERIES
Soil series name
SILT
Percent silt
SLOPE
Percent slope at the profile location
SPEC_LOC
Location description (shortened for www display)
STRUCTURE
Codes for soil structure
TEXT_CLASS
Textural class
TEXTURE
Code for soil texture as determined in the field
TOT_N
Total nitrogen content of soil
USDACLASS
Soil taxonomic class as defined by the USDA
VEG_TYPE
Community type (shortened version for www display)
VEGETATION
Community type according to Dymess et al., 1974, if known, otherwise codes of dominant species

Enumerated Domains:
Enumerated Domain for Attribute: ASPECT
E  east
N  north
W  west
S  south
ENE east-northeast
NE northeast
NW northwest
SE southeast
SSE south-southeast
SSW south-southwest
SW southwest
WNW west-northwest
WSW west-southwest
Enumerated Domain for Attribute: CHEMDATA
  Y    Physical data available
  N    No physical data available

Enumerated Domain for Attribute: PHYSDATA
  Y    Physical data available
  N    No physical data available

Enumerated Domain for Attribute: BOUNDARY
  AB   abrupt broken
  AI   abrupt irregular
  AS   abrupt smooth
  AW   abrupt wavy
  CB   clear broken
  CI   clear irregular
  CS   clear smooth
  CW   clear wavy
  DB   diffuse broken
  DI   diffuse irregular
  DS   diffuse smooth
  DW   diffuse wavy
  GB   gradual broken
  GI   gradual irregular
  GL   gradual
  GS   gradual smooth
  GW   gradual wavy

Enumerated Domain for Attribute: CONSDRY
  lo   loose (dry)
  so   soft (dry)
  sh   slightly hard (dry)
  h    hard (dry)
  lo   loose (moist)
  vfr  very friable (moist)
  fr   friable (moist)
  fi   firm (moist)
  vfi  very firm (moist)
br brittle (moist)
so nonsticky (wet)
ss slightly sticky (wet)
s sticky (wet)
vs very sticky (wet)
po nonplastic (wet)
ps slightly plastic (wet)
p plastic (wet)
vp very plastic (wet)
smeary thixotropic

Enumerated Domain for Attribute: CONSISTENC
lo loose (dry)
so soft (dry)
sh slightly hard (dry)
h hard (dry)
lo loose (moist)
vfr very friable (moist)
fr friable (moist)
fi firm (moist)
vfi very firm (moist)
br brittle (moist)
so nonsticky (wet)
ss slightly sticky (wet)
s sticky (wet)
vs very sticky (wet)
po nonplastic (wet)
ps slightly plastic (wet)
p plastic (wet)
vp very plastic (wet)
smeary thixotropic

Enumerated Domain for Attribute: CONSMOIST
lo loose (dry)
so soft (dry)
sh slightly hard (dry)
Enumerated Domain for Attribute: CONSWET

- lo: loose (moist)
- vfr: very friable (moist)
- fr: friable (moist)
- fi: firm (moist)
- vfi: very firm (moist)
- br: brittle (moist)
- so: nonsticky (wet)
- ss: slightly sticky (wet)
- s: sticky (wet)
- vs: very sticky (wet)
- po: nonplastic (wet)
- ps: slightly plastic (wet)
- p: plastic (wet)
- vp: very plastic (wet)
- smeary: thixotropic
vp very plastic (wet)
smear thixotropic

Enumerated Domain for Attribute: STRUCTURE
1 weak (component of structure codes)
2 moderate (component of structure codes)
3 strong (component of structure codes)
vf very fine
f fine
m medium
c coarse
vc very coarse

Enumerated Domain for Attribute: TEXTURE
C clay
CL clay loam
CL+ heavy clay loam
CL- light
COBCL cobbly clay loam
COBL cobbly loam
COBL+ cobbly heavy loam
COBL- cobbly light loam
COBLS cobbly loamy sand
COBSICL cobbly silty clay loam
COBSIL cobbly silt loam
COBSL cobbly sandy loam
CS coarse sand
FSL finde sandy loam
GR gravel
GRCL gravelly clay loam
GRCL+ gravelly heavy clay loam
GRCL- gravelly light clay loam
GRL gravelly loam
GRL+ gravelly heavy loam
GRL- gravelly light loam
GRSHL gravelly shotty loam
GRSICL gravelly silty clay loam
GRSIL gravelly silt loam
GRSL gravelly sandy loam
L loam
L+ heavy loam
L- light loam
LFS loamy fine sand
LS loamy sand
ORG.L organic loam
SCL sandy clay loam
SHCL shotty clay loam
SHL shotty loam
SHL+ shotty heavy loam
SHSIL shotty silt loam
SHSL shotty sandy loam
SHSTL shotty stony loam
SHSTL+ shotty stony heavy loam
SHSTSCL shotty stony sandy clay loam
SHSTSL shotty stony sandy loam
SIC silty clay
SIC+ heavy silty clay
SIC- light silty clay
SICL silty clay loam
SICL+ heavy silty clay loam
SICL- light silty clay loam
SIL silt loam
SIL+ heavy silt loam
SIL- light silt loam
SL sandy loam
SL- light sandy loam
STC stony clay
STCL stony clay loam
STCL- stony light clay loam
STL stony loam
<table>
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<th>Code</th>
<th>Description</th>
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<tr>
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<tr>
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<tr>
<td>VGRCS</td>
<td>very gravelly coarse sand</td>
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<td>VGRL</td>
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<td>LCS</td>
<td>loamy coarse sand</td>
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<td>GRCS</td>
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Enumerated Domain for Attribute: TEXT_CLASS

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  clay
CL
  clay loam
CL+
  heavy clay loam
CL-
  light
COBCL
  cobbly clay loam
COBL
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COBSL
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CS
  coarse sand
FSL
  finde sandy loam
GR
  gravel
GRCL
  gravelly clay loam
GRCL+
  gravelly heavy clay loam
GRCL-
  gravelly light clay loam
GRL
  gravelly loam
GRL+
  gravelly heavy loam
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