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)

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MT_FIFTEEN N  Y  numeric(4,1)  range  10.0000  50.0000  %
PH       N  Y  numeric(3,1)  range  4.0000  7.0000  ph
CEC      N  Y  numeric(5,2)  range  10.0000  70.0000  meq/100g
OM       N  Y  numeric(6,2)  range  0.1000  22.0000  %
TOT_N    N  Y  numeric(6,4)  range  0.0010  1.0500  %
P        N  Y  numeric(5,2)  range  0.0000  85.0000  ppm
K        N  Y  numeric(5,1)  range  0.0000  3.0000  meq/100g
CA       N  Y  numeric(5,1)  range  0.0000  25.0000  meq/100g
MG       N  Y  numeric(5,1)  range  0.0000  20.0000  meq/100g
NA       N  Y  numeric(5,1)  range  0.0000  1.0000  meq/100g
BASE_SAT N  Y  numeric(5,1)  range  1.0000  105.0000  %

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

\begin{itemize}
  \item \text{lo} \quad \text{loose (dry)}
  \item \text{sh} \quad \text{soft (dry)}
  \item \text{h} \quad \text{hard (dry)}
  \item \text{lo} \quad \text{loose (moist)}
  \item \text{vfr} \quad \text{very friable (moist)}
  \item \text{fr} \quad \text{friable (moist)}
  \item \text{fi} \quad \text{firm (moist)}
  \item \text{vfi} \quad \text{very firm (moist)}
  \item \text{br} \quad \text{brittle (moist)}
  \item \text{so} \quad \text{nonsticky (wet)}
  \item \text{ss} \quad \text{slightly sticky (wet)}
  \item \text{s} \quad \text{sticky (wet)}
  \item \text{vs} \quad \text{very sticky (wet)}
  \item \text{po} \quad \text{nonplastic (wet)}
  \item \text{ps} \quad \text{slightly plastic (wet)}
  \item \text{p} \quad \text{plastic (wet)}
  \item \text{vp} \quad \text{very plastic (wet)}
  \item \text{smeary} \quad \text{thixotropic}
\end{itemize}
vp very plastic (wet)
smeary 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
COBS/CL 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
SHSTSL    shotty stony sandy 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
STL+  heavy stony loam
STSCL  stony sandy clay loam
STSHSCL  stony shotty sandy clay loam
STSIC  stony silty clay
STSICL  stony silty clay loam
STSICL+  stony heavy silty clay loam
STSICL-  stony light silty clay loam
STSL  stony sandy loam
VCOBL  very cobbly loam
VCOBSICL  very cobbly silty clay loam
VCOBSIL  very cobbly silty loam
VCOBSL  very cobbly coarse sand
VGRCL  very gravelly clay loam
VGRCS  very gravelly coarse sand
VGRL  very gravelly loam
VGRL+  very gravelly heavy loam
VGR-  very gravelly light loam
VGRSICL  very gravelly silty clay loam
VGRSIL  very gravelly silt loam
VGRSIL-  very gravelly light silt loam
VGRSL  very gravelly sandy loam
VGRSLH  very gravelly shotty loam
VSTCL  very stony clay loam
VSTCL+  very stony heavy clay loam
VSTCL-  very stony light clay loam
VSTL  very stony loam
VSTL+  very stony heavy loam
VSTLS  very stony loamy sand
VSTSICL  very stony silty clay loam
VSTSL  very stony sandy loam
LCS  loamy coarse sand
GRCS  gravelly coarse sand
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<tr>
<td><strong>CL</strong> clay loam</td>
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<tr>
<td><strong>CL+</strong> heavy clay loam</td>
</tr>
<tr>
<td><strong>CL-</strong> light</td>
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<tr>
<td><strong>COBCL</strong> cobbly clay loam</td>
</tr>
<tr>
<td><strong>COBL</strong> cobbly loam</td>
</tr>
<tr>
<td><strong>COBL+</strong> cobbly heavy loam</td>
</tr>
<tr>
<td><strong>COBL-</strong> cobbly light loam</td>
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<tr>
<td><strong>COBLS</strong> cobbly loamy sand</td>
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<tr>
<td><strong>COBSICL</strong> cobbly silty clay loam</td>
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<tr>
<td><strong>COBSIL</strong> cobbly silt loam</td>
</tr>
<tr>
<td><strong>COBSL</strong> cobbly sandy loam</td>
</tr>
<tr>
<td><strong>CS</strong> coarse sand</td>
</tr>
<tr>
<td><strong>FSL</strong> finde sandy loam</td>
</tr>
<tr>
<td><strong>GR</strong> gravel</td>
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<tr>
<td><strong>GRCL</strong> gravelly clay loam</td>
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<tr>
<td><strong>GRCL+</strong> gravelly heavy clay loam</td>
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<td><strong>GRCL-</strong> gravelly light clay loam</td>
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<td><strong>GRL</strong> gravelly loam</td>
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<tr>
<td><strong>GRL+</strong> gravelly heavy loam</td>
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<td><strong>GRL-</strong> gravelly light loam</td>
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<tr>
<td><strong>GRSHL</strong> gravelly shotty loam</td>
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<td><strong>GRSIL</strong> gravelly silt loam</td>
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<td><strong>L</strong> loam</td>
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<tr>
<td><strong>L+</strong> heavy loam</td>
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<td><strong>L-</strong> light loam</td>
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<td><strong>LFS</strong> loamy fine sand</td>
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<td><strong>LS</strong> loamy sand</td>
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