

Soil

Table of Contents

[Identification Information](#)

[Data Quality Information](#)

[Spatial Data Organization Information](#)

[Spatial Reference Information](#)

[Entity and Attribute Information](#)

[Distribution Information](#)

[Metadata Reference Information](#)

IDENTIFICATION_INFORMATION

Citation:

Citation_Information:

Originator: USDA Black Hills National Forest
Originator: Natural Resource Conservation Service
Publication_Date: 20001025
Title: Soil
Edition: one
Geospatial_Data_Presentation_Form: Map

Publication_Information:

Publication_Place: Custer Sd
Publisher: USDA Black Hills National Forest

Other_Citation_Details:

Online_Linkage: www.fs.fed.us/r2/blackhills

Larger_Work_Citation:

Citation_Information:

Originator:
Publication_Date:
Title:
Publication_Information:
Publication_Place:
Publisher:
Online_Linkage:

Description:

Abstract:

This coverage contains the most recent copy of available digital soil survey polygons. Where digital data was not

available, polygons were taken from existing vegetation coverage (RMRIS) polygons based on soil code from the RMRIS database.

Purpose:

This dataset was developed to spatially display soil map units and to perform spatial analysis utilizing this data.

Supplemental_Information:

The soils code in the RMRIS database were derived from a manual overlay of RIS polygons with Soils polygons and the assignment of the code was based on the majority soil polygon which fell in the site.

Time_Period_of_Content:**Time_Period_Information:****Range_of_Dates/Times:**

Beginning_Date: 1978

Ending_Date: 20001025

Currentness_Reference: ground condition on date of soil survey by county

Status:

Progress: In work

Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:**Bounding_Coordinates:**

West_Bounding_Coordinate: -104.7249

East_Bounding_Coordinate: -103.1913

North_Bounding_Coordinate: 44.7969

South_Bounding_Coordinate: 43.2692

Keywords:**Theme:**

Theme_Keyword_Thesaurus: None

Theme_Keyword: GIS

Theme_Keyword: soils

Theme_Keyword: map units

Theme_Keyword: NASIS

Theme_Keyword: NRCS

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Black Hills National Forest

Place_Keyword: Custer County

Place_Keyword: Fall River County

Place_Keyword: Lawrence County

Place_Keyword: Meade County

Place_Keyword: Pennington County

Place_Keyword: South Dakota

Place_Keyword: Wyoming

Access_Constraints:

None

Use_Constraints:

This data is current to the best knowledge of the USDA Black Hills National Forest as of 10/25/2000. NRCS is the

official keeper of the NASIS dataset in Oracle and spatial location of the vectors.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Black Hills National Forest

Contact_Person: Deanna Reyher

Contact_Position: Forest Soils Scientist

Contact_Address:

Address_Type: mailing and physical address

Address: Highway 385 North, RR 2, Box 200

City: Custer

State_or_Province: South Dakota

Postal_Code: 57730

Country: USA

Contact_Voice_Telephone: 605-673-2251

Contact_Facsimile_Telephone: 605-673-5567

Contact_Electronic_Mail_Address: dreyher@fs.fed.us

Hours_of_Service: Monday-Friday 7:30am - 5pm

Native_Data_Set_Environment:

Arc/Info coverage format

/fsfiles/ref/library/gis/forest/blkh/physical/soil

[Top](#)

DATA_QUALITY_INFORMATION

Attribute_Accuracy:

Attribute_Accuracy_Report:

All attributes were verified during the creation process by manually comparing hardcopy maps to known or desired boundaries and through acreage reports.

Logical_Consistency_Report:

There are no duplicate features in this coverage or in the database. There are no overshoots, undershoots or dangling arcs unless desired and each feature has only one label point. The database is run through error checking routines before being considered frozen.

Completeness_Report:

This coverage is complete to the Forest boundary excluding some internal privately owned areas.

Positional_Accuracy:**Horizontal_Positional_Accuracy:****Horizontal_Positional_Accuracy_Report:**

The data were created by delineating the boundary from a USGS Primary Base Series quadrangle at 1:24000 scale. Therefore the horizontal accuracy is assumed to be within National Map Accuracy Standards.

Vertical_Positional_Accuracy:**Vertical_Positional_Accuracy_Report:**

The data were created by delineating the boundary from a USGS Primary Base Series quadrangle at 1:24000 scale. Therefore the vertical accuracy is assumed to be within National Map Accuracy Standards.

Lineage:**Source_Information:****Source_Citation:****Citation_Information:****Originator:**

Publication_Date: 20001025

Title: Vector polygon based layer of soil map units developed from the most current NRCS soil surveys.

Edition: one

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Custer Sd

Publisher: USDA Black Hills National Forest

Other_Citation_Details:

Online_Linkage: www.fs.fed.us/r2/blackhills

Larger_Work_Citation:**Citation_Information:**

Originator:

Publication_Date:

Title:

Publication_Information:

Publication_Place:

Publisher:

Online_Linkage:

Source_Scale_Denominator: 1:24000

Type_of_Source_Media: Stable Based Mylar

Source_Time_Period_of_Content:**Time_Period_Information:**

Range_of_Dates/Times:

Beginning_Date: 1978

Ending_Date: 20001025

Source_Currentness_Reference: ground conditions

Source_Citation_Abbreviation:

Source_Contribution:

Process_Step:**Process_Description:**

Coverage was created by importing existing spatially defined vector polygons and editing them where necessary to match hardcopy soil survey maps. Data was derived from NRCS maps and RMRIS maps. Coverage was then run through edit checks for dangles, undershoots and missing or incorrect attributes.

Source_Used_Citation_Abbreviation:

Process_Date: 199802 thru 199810

Source_Produced_Citation_Abbreviation:**Process_Description:**

Coverage was re-projected to UTM, Zone 13, NAD83, meters.

Process_Date: 20050419

Process_Contact:**Contact_Information:****Contact_Person_Primary:**

Contact_Organization: Black Hills National Forest

Contact_Person: Lorrie Martinez

Contact_Position: Forest GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: Highway 385 North, RR 2, Box 200

City: Custer

State_or_Province: South Dakota

Postal_Code: 57730

Country: USA

Contact_Voice_Telephone: 605-673-2251

Contact_Facsimile_Telephone: 605-673-5567

Contact_Electronic_Mail_Address: lamartinez@fs.fed.us

Hours_of_Service: Monday-Friday 7:30am - 5pm

[Top](#)

SPATIAL_DATA_ORGANIZATION_INFORMATION

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 18805

[Top](#)

SPATIAL_REFERENCE_INFORMATION

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 13

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -105.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.001000

Ordinate_Resolution: 0.001000

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Resolution: 1.000000

Altitude_Encoding_Method:

Explicit elevation coordinate included with horizontal coordinates

ENTITY_AND_ATTRIBUTE_INFORMATION

Detailed_Description:

Entity_Type:

Entity_Type_Label: soil.pat

Entity_Type_Definition: Polygon Attribute Table

Entity_Type_Definition_Source: None

Attribute:

Attribute_Label: Area

Attribute_Definition: Area of polygon

Attribute_Definition_Source: Software generated

Attribute_Domain_Values:

Unrepresentable_Domain:

Software computed

Attribute:

Attribute_Label: Perimeter

Attribute_Definition: Perimeter of polygon

Attribute_Definition_Source: Software generated

Attribute_Domain_Values:

Unrepresentable_Domain:

Software computed

Attribute:

Attribute_Label: Soil#

Attribute_Definition: Internal feature number

Attribute_Definition_Source: Software generated

Attribute_Domain_Values:

Unrepresentable_Domain:

Software computed

Attribute:

Attribute_Label: Soil-id

Attribute_Definition: Feature identification number

Attribute_Definition_Source: Software generated

Attribute_Domain_Values:

Unrepresentable_Domain:

User Defined

Attribute:

Attribute_Label: Soil_cn

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Character Field, Oracle generated control number used to link the spatial data to the Oracle Database. It is a guaranteed unique value across Forest Service Units.

Attribute:

Attribute_Label: Soil-code

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Numeric Field, Soil number for sils from South Dakota counties (excluding Fall River). See specific county soil survey from the Natural Resource Conservation Service.

Attribute:

Attribute_Label: Soil-name

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Character Field, Number or alpha symbol for the soil classification. See the specific soil survey for each county from the Natural Resource Conservation Service.

Attribute:

Attribute_Label: Symbol

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Numeric Field, ArcInfo plot symbol used in producing hardcopy maps.

Attribute:

Attribute_Label: Sev_ero

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Enumerated_Domain_Value_Definition: Soil type is not serverely

errosive.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: Y

Enumerated_Domain_Value_Definition: Soil type is serverely errosive.

Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: County-name

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Character Field, Name of the county in which the polygon exists.

Attribute:

Attribute_Label: Gis_acres

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Numeric Field, Calculated field to return acres based on the area field which is stored in square meters.

Attribute:

Attribute_Label: Mass_wst

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Enumerated_Domain_Value_Definition: Soil is not a mass wasting soil

type.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: Y

Enumerated_Domain_Value_Definition: Soil is a mass wasting soil type.

Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: Hsg

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Enumerated_Domain_Value_Definition: Soil does not belong to a hydrological soil group.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: A

Enumerated_Domain_Value_Definition: High infiltration rate when thoroughly wet and having low runoff potential.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: A/B

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: A/B/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: A/C

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B

Enumerated_Domain_Value_Definition: Moderate infiltration rate when thoroughly wet and moderate runoff potential.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/A/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/B

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/B/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/C

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/C/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: B/D/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C

Enumerated_Domain_Value_Definition: Slow infiltration rate when

thoroughly

wet and slow runoff potential.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/A

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/B

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/B/A

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/B/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/C

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/C/C

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/C/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: C/D/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D

Enumerated_Domain_Value_Definition: Very slow infiltration rate when thoroughly wet and high runoff potential.

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/B

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/B/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/C

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/C/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/D/D

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Enumerated_Domain_Value: D/E

Enumerated_Domain_Value_Definition:

Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: Map_unit_symbol

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Character Field, Locally unique and locally defined

identifier that is used to initially link the spatial data to the database.

Attribute:

Attribute_Label: Mapu_cn

Attribute_Definition:

Attribute_Definition_Source:

Attribute_Domain_Values:

Unrepresentable_Domain: Character Field, Redefined item on SOIL_CN. This item will be destroyed by some GIS function when used with other NRIS Terra relatd coverages with the same item name.

[Top](#)

DISTRIBUTION_INFORMATION

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Black Hills National Forest

Contact_Person: Ron Calvird

Contact_Position: Forest Resource Information Specialist

Contact_Address:

Address_Type: mailing and physical address

Address: Highway 385 North, RR 2, Box 200

City: Custer

State_or_Province: South Dakota

Postal_Code: 57730

Country: USA

Contact_Voice_Telephone: 605-673-2251

Contact_Facsimile_Telephone: 605-673-5567

Contact_Electronic_Mail_Address: rcalvird@fs.fed.us

Hours_of_Service: Monday-Friday 7:30am - 5pm

Resource_Description:

Soils coverage linked to the NRIS Terra database.

Distribution_Liability:

DISCLAIMER:

The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be: developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results.

The Forest Service reserves the right to correct, update, modify, or replace, GIS products without notification.

For more information, contact the Black Hills National Forest at (605) 673-2251.

[Top](#)

METADATA_REFERENCE_INFORMATION

Metadata_Date: 20001025

Metadata_Review_Date: 20001030

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Black Hills National Forest

Contact_Person: Lorrie Martinez

Contact_Position: Forest GIS Coordinator

Contact_Address:

Address_Type: Mailing and physical address

Address: Highway 385 North, RR 2, Box 200

City: Custer

State_or_Province: South Dakota

Postal_Code: 57730

Country: USA

Contact_Voice_Telephone: 605-673-2251

Contact_Facsimile_Telephone: 605-673-5567

Contact_Electronic_Mail_Address: lamartinez@fs.fed.us

Hours_of_Service: Monday-Friday 7:30am - 5pm

Metadata_Standard_Name: FGDC CSDGM

Metadata_Standard_Version: FGDC-STD-001-1998

[Top](#)