MS_STATSGO2_2016

Shapefile

Tags

State Soil Geographic, Colorado, NASIS, General Soil Map, National Soil Information System, Soils, USDA, United States Department of Agriculture, USA, STATSGO

Summary

These data provide information about soil features on or near the surface of the Earth. Data were collected as part of the National Cooperative Soil Survey. These data are intended for geographic display and analysis at the state, regional, and national level. The data should be displayed and analyzed at scales appropriate for 1:250,000-scale data.

Description

This data set consists of general soil association units. It was developed by the National Cooperative Soil Survey and supersedes the State Soil Geographic (STATSGO) data set published in 2006. It consists of a broad based inventory of soils and nonsoil areas that occur in a repeatable pattern on the landscape and that can be cartographically shown at the scale mapped. The data set was created by generalizing more detailed soil survey maps. Where more detailed soil survey maps were not available, data on geology, topography, vegetation, and climate were assembled, together with Land Remote Sensing Satellite (LANDSAT) images. Soils of like areas were studied, and the probable classification and extent of the soils were determined. Map unit composition was determined by transecting or sampling areas on the more detailed maps and expanding the data statistically to characterize the whole map unit. This data set consists of georeferenced vector digital data and tabular digital data. The map data were collected in 1-by 2-degree topographic quadrangle units and merged into a seamless national data set. It is distributed in state/territory and national extents. The soil map units are linked to attributes in the National Soil Information System data base which gives the proportionate extent of the component soils and their properties.

Credits

There are no credits for this item.

Use limitations

The U.S. Department of Agriculture, Natural Resources Conservation Service should be acknowledged as the data source in products derived from these data. Hardcopies utilizing these data shall clearly indicate their source. User agrees not to misrepresent these data, nor to imply that changes made were approved by the Natural Resources Conservation Service. The Digital General Soil Map of U.S. was designed primarily for regional, multicounty, river basin, State, and multistate resource planning, management, and monitoring. Data are not detailed enough to make interpretations at a county level. This soil survey product is not designed for use as a primary regulatory tool in permitting or citing decisions, but may be used as a reference source. The use of these data is not restricted and may be interpreted by organizations, agencies, units of government, or others; however, they are responsible for its appropriate application. Federal, State, or local regulatory bodies are not to reassign to the Natural Resources Conservation Service any authority for the decisions that they make. The Natural Resources Conservation Service will not perform any evaluations of these maps for purposes related solely to state or local regulatory programs. When data from the Digital General Soil Map of U.S. are overlayed

with other data layers, such as land use data, caution must be used in generating statistics on the co-occurence of the land use data with the soil data. The composition of the soil map unit can be characterized independently for the land use and for the soil component, but there are no data on their joint occurrence at a more detailed level. Analysis of the overlayed data should be on a map polygon basis. Additional political, watershed, or other boundaries may be intersected with the soil data. Although the composition of each political and watershed unit may be described in terms of the soil map units, information is not available to assign the components to the boundary units with full accuracy. As with the land use categories, the analysis should be restricted to the classified components. The approximate minimum area delineated is 625 hectares (1,544 acres), which is represented on a 1:250,000-scale map by an area approximately 1 cm by 1 cm (0.4 inch by 0.4 inch). The approximate minimum area delineated for Alaska is 2,500 hectares (6,176 acres), which is represented on a 1:5000,000-scale map by an area approximately 1 cm by 1 cm (0.4 inch by 0.4 inch).Linear delineations are not less than 0.5 cm (0.2 inch) in width. The number of delineations per 1:250,000 quadrangle typically is 100 to 200, but may range up to 400. Delineations depict the dominant soils making up the landscape. Other dissimilar soils, too small to be delineated, are present within a delineation. Digital enlargements of these data to scales greater than at which they were originally mapped can cause misinterpretation of the data. If enlarged, maps do not show the small areas of contrasting soils that could have been shown at a larger scale. The depicted soil boundaries, interpretations, and analysis derived from them do not eliminate the need for onsite sampling, testing, and detailed study of specific sites for intensive uses. Thus, these data and their interpretations are intended for planning purposes only. Data values for some data elements may be incomplete or missing. Where data are unavailable, a mask should be used to exclude the area from analysis. The spatial and tabular data used to create this product are periodically updated. Data are versioned, and users are responsible for obtaining the latest version of the product.

Extent

West	-91.737513	**East**	-88.095844
North	35.005532	**South**	30.160164

Scale Range

Maximum (zoomed in)	1:24,000
Minimum (zoomed out)	1:500,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE   farming

* CONTENT TYPE   Downloadable Data

PLACE KEYWORDS   Colorado

THESAURUS   ▶
TITLE   USGS Geographic Names Information System (GNIS)

Hide Thesaurus ▲

PLACE KEYWORDS   USA

THEME KEYWORDS   State Soil Geographic, NASIS, General Soil Map, National Soil Information System, Soils, USDA, United States Department of Agriculture, STATSGO

Hide Topics and Keywords ▲

Citation ►

* TITLE   MS_STATSGO2_2016
PUBLICATION DATE   2016-10-04

PRESENTATION FORMATS   * digital map
FGDC GEOSPATIAL PRESENTATION FORMAT   Tabular digital data and vector digital data

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY
  ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service
  CONTACT'S ROLE   originator

RESPONSIBLE PARTY
  ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service
  CONTACT'S ROLE   publisher

  CONTACT INFORMATION   ►
   ADDRESS
    DELIVERY POINT   Fort Worth, Texas

    Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES   English (UNITED STATES)

STATUS   completed
SPATIAL REPRESENTATION TYPE   vector

* PROCESSING ENVIRONMENT   Version 6.2 (Build 9200) ; Esri ArcGIS 10.6.1.9270

ARCGIS ITEM PROPERTIES
  * NAME   MS_STATSGO2_2016
  * SIZE   4.663
  * LOCATION   file://\\DESKTOP-TP9LNVL\F$\DATA\00_GEOSCIENTIFIC\soils\Statewide\MS_STATSGO2_2016.shp
    * ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      WEST LONGITUDE -180
      EAST LONGITUDE 180
      SOUTH LATITUDE 17.5
      NORTH LATITUDE 72

EXTENT
  DESCRIPTION
    publication date

  TEMPORAL EXTENT
    BEGINNING DATE 2000-01-01
    ENDING DATE 2011-10-01

EXTENT
  GEOGRAPHIC EXTENT
  BOUNDING RECTANGLE
    EXTENT TYPE Extent used for searching
    * WEST LONGITUDE -91.737513
    * EAST LONGITUDE -88.095844
    * NORTH LATITUDE 35.005532
    * SOUTH LATITUDE 30.160164
    * EXTENT CONTAINS THE RESOURCE Yes

  EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE 318557.551568
    * EAST LONGITUDE 650997.524929
    * SOUTH LATITUDE 1042112.139156
    * NORTH LATITUDE 1577862.291287
    * EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Points of Contact ▶

POINT OF CONTACT
  ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation Service
  CONTACT'S POSITION State Soil Scientist
  CONTACT'S ROLE point of contact

  CONTACT INFORMATION ▶
    PHONE
      VOICE 307-233-6774
      TDD/TTY 800-877-8339
      FAX 307-233-6753

    ADDRESS
      TYPE postal

DELIVERY POINT   PO Box 33124
DELIVERY POINT   100 East B St Room 3124
CITY   Casper
ADMINISTRATIVE AREA   WY
POSTAL CODE   82602
E-MAIL ADDRESS   james.bauchert@wy.usda.gov

Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance   ▶

RESOURCE MAINTENANCE
  UPDATE FREQUENCY   as needed

Hide Resource Maintenance ▲

Resource Constraints   ▶

LEGAL CONSTRAINTS
  LIMITATIONS OF USE
    Although data in this product have been processed successfully on a computer system at the U.S. Department of Agriculture, no warranty expressed or implied is made by the Agency regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. The U.S. Department of Agriculture will warrant the delivery of this product in computer-readable format, and will offer appropriate adjustment of credit when the product is determined unreadable by correctly adjusted computer input peripherals, or when the physical medium is delivered in damaged condition. Request for adjustment of credit must be made within 90 days from the date of this shipment from the ordering site. The U.S. Department of Agriculture, nor any of its agencies are liable for misuse of the data. It is also not liable for damage, transmission of viruses, or computer contamination through the distribution of these data sets. The U.S. Department of Agriculture prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.)

CONSTRAINTS
  LIMITATIONS OF USE
    The U.S. Department of Agriculture, Natural Resources Conservation Service should be acknowledged as the data source in products derived from these data. Hardcopies utilizing these data shall clearly indicate their source. User agrees not to misrepresent these data, nor to imply that changes made were approved by the Natural Resources Conservation Service. The Digital General Soil Map of U.S. was designed primarily for regional, multicounty, river basin, State, and multistate resource planning, management, and monitoring. Data are not detailed enough to make interpretations at a county level. This soil survey product is not designed for use as a primary regulatory tool in permitting or citing decisions, but may be used as a reference source. The use of these data is not restricted and may be interpreted by organizations, agencies, units of government, or others; however, they are responsible for its appropriate application. Federal, State, or local regulatory bodies are not to reassign to the Natural Resources Conservation Service any authority for the decisions that they make. The Natural Resources Conservation Service will not perform any evaluations of these maps

for purposes related solely to state or local regulatory programs. When data from the Digital General Soil Map of U.S. are overlayed with other data layers, such as land use data, caution must be used in generating statistics on the co-occurence of the land use data with the soil data. The composition of the soil map unit can be characterized independently for the land use and for the soil component, but there are no data on their joint occurrence at a more detailed level. Analysis of the overlayed data should be on a map polygon basis. Additional political, watershed, or other boundaries may be intersected with the soil data. Although the composition of each political and watershed unit may be described in terms of the soil map units, information is not available to assign the components to the boundary units with full accuracy. As with the land use categories, the analysis should be restricted to the classified components. The approximate minimum area delineated is 625 hectares (1,544 acres), which is represented on a 1:250,000-scale map by an area approximately 1 cm by 1 cm (0.4 inch by 0.4 inch). The approximate minimum area delineated for Alaska is 2,500 hectares (6,176 acres), which is represented on a 1:5000,000-scale map by an area approximately 1 cm by 1 cm (0.4 inch by 0.4 inch).Linear delineations are not less than 0.5 cm (0.2 inch) in width. The number of delineations per 1:250,000 quadrangle typically is 100 to 200, but may range up to 400. Delineations depict the dominant soils making up the landscape. Other dissimilar soils, too small to be delineated, are present within a delineation. Digital enlargements of these data to scales greater than at which they were originally mapped can cause misinterpretation of the data. If enlarged, maps do not show the small areas of contrasting soils that could have been shown at a larger scale. The depicted soil boundaries, interpretations, and analysis derived from them do not eliminate the need for onsite sampling, testing, and detailed study of specific sites for intensive uses. Thus, these data and their interpretations are intended for planning purposes only. Data values for some data elements may be incomplete or missing. Where data are unavailable, a mask should be used to exclude the area from analysis. The spatial and tabular data used to create this product are periodically updated. Data are versioned, and users are responsible for obtaining the latest version of the product.

Hide Resource Constraints ▲

Spatial Reference ►

ARCGIS COORDINATE SYSTEM
* **TYPE**   Projected
* **GEOGRAPHIC COORDINATE REFERENCE**   GCS_North_American_1983
* **PROJECTION**   NAD_1983_Mississippi_TM
* **COORDINATE REFERENCE DETAILS**
  PROJECTED COORDINATE SYSTEM
  WELL-KNOWN IDENTIFIER   102609
  X ORIGIN   -5122200
  Y ORIGIN   -12297100
  XY SCALE   450339697.45066422
  Z ORIGIN   -100000
  Z SCALE   10000
  M ORIGIN   -100000
  M SCALE   10000
  XY TOLERANCE   0.001
  Z TOLERANCE   0.001
  M TOLERANCE   0.001
  HIGH PRECISION   true
  LATEST WELL-KNOWN IDENTIFIER   3814
  WELL-KNOWN TEXT
  PROJCS["NAD_1983_Mississippi_TM",GEOGCS["GCS_North_American_1983",DATUM["D

_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

REFERENCE SYSTEM IDENTIFIER
* VALUE 3814
* CODESPACE EPSG
* VERSION 6.17.1(10.0.0)

Hide Spatial Reference ▲

Spatial Data Properties ▶

VECTOR ▶
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME MS_STATSGO2_2016
* OBJECT TYPE composite
* OBJECT COUNT 1435

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ▶
FEATURE CLASS NAME MS_STATSGO2_2016
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 1435
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶
RESOURCE LEVEL dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - TOPOLOGICAL CONSISTENCY ▶
EVALUATION METHOD

Certain node/geometry and topology (GT)-polygon/chain relationships are collected or generated to satisfy topological requirements. (The GT-polygon corresponds to the soil delineation). Some of these requirements include: chains must begin and end at nodes, chains must connect to each other at nodes, chains do not extend through nodes, left and right GT-polygons are defined for each chain element and are consistent throughout, and the chains representing the limits of the file (neatline) are free of gaps. The tests of logical consistency are performed using vendor software. The neatline is generated by connecting the explicitly entered four corners of the digital file. All data outside the enclosed region are ignored and all data crossing these geographically straight lines are clipped at the neatline. Data within a specified tolerance of the neatline are snapped to the neatline. Neatline straightening aligns the digitized edges of the digital data with the generated neatline (i.e., with the longitude/latitude lines in geographic coordinates). All internal polygons are tested for closure with vendor software and are checked on hard copy plots. All data are checked for common soil lines (i.e., adjacent polygons with the same label). Quadrangles are edge matched within the state, merged into a statewide data sets, and then edge matched to adjacent state data sets. Edge locations do not deviate from centerline to centerline by more than 0.01 inch.

Hide Data quality report - Topological consistency ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶
MEASURE DESCRIPTION

Certain node/geometry and topology (GT)-polygon/chain relationships are collected or generated to satisfy topological requirements. (The GT-polygon corresponds to the soil delineation). Some of these requirements include: chains must begin and end at nodes, chains must connect to each other at nodes, chains do not extend through nodes, left and right GT-polygons are defined for each chain element and are consistent throughout, and the chains representing the limits of the file (neatline) are free of gaps. The tests of logical consistency are performed using vendor software. The neatline is generated by connecting the explicitly entered four corners of the digital file. All data outside the enclosed region are ignored and all data crossing these geographically straight lines are clipped at the neatline. Data within a specified tolerance of the neatline are snapped to the neatline. Neatline straightening aligns the digitized edges of the digital data with the generated neatline (i.e., with the longitude/latitude lines in geographic coordinates). All internal polygons are tested for closure with vendor software and are checked on hard copy plots. All data are checked for common soil lines (i.e., adjacent polygons with the same label). Quadrangles are edge matched within the state, merged into a statewide data sets, and then edge matched to adjacent state data sets. Edge locations do not deviate from centerline to centerline by more than 0.01 inch.

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - COMPLETENESS OMISSION ▶
MEASURE DESCRIPTION

A map unit is a collection of areas defined and named the same in terms of their soil and/or nonsoil areas. Each map unit differs in some respect from all others in a survey

area and is uniquely identified. Each individual area is a delineation. Each map unit in the Digital General Soil Map of U.S. consists of one to more than 21 components. In those few areas where detailed maps did not exist, reconnaissance soil surveys were combined with data on geology, topography, vegetation, climate, and remote sensing images to delineate map units and estimate the percentages of components. Map unit components in this product are soil series phases, and their percent composition represents the estimated areal proportion of each within a map unit. The composition for a map unit is generalized to represent the statewide extent of that map unit and not the extent of any single map unit delineation. These specifications provide a nationally consistent representation of the associated attribute data. The actual composition and interpretive purity of the map unit delineations were based on statistical analysis of transect data. The composition was largely determined by measuring transects on detailed soil survey maps. The number of transects used was proportional to the relative size, number, and complexity of the delineations. The combined data on the length of the map units crossed by the transects were used to determine the percentages of the different soil and nonsoil areas in each map unit. Specific National Cooperative Soil Survey Standards and procedures were used in the classification of soils, design and name of map units. These standards are outlined in U.S. Department of Agriculture. 2nd Ed., 1999. Soil Taxonomy: A basic system of soil classification for making and interpreting soil surveys. Nat. Res. Conserv. Serv., U.S. Dep. Agric. Handb. 436.; U.S. Department of Agriculture. 9th Ed., 2003. Keys to Soil Taxonomy. Soil Surv. staff, Nat. Res. Conserv. Serv.; U.S. Department of Agriculture. Current Issue. National Soil Survey Handbook, title 430-VI. Soil Surv. Staff, Nat. Res. Conserv. Serv.; and U.S. Department of Agriculture. 1993. Soil Survey Manual. Soil Surv. Staff, U.S. Dep. Agric. Handbook 18. Adherence to National Cooperative Soil Survey standards and procedures is based on peer review, quality control, and quality assurance. Quality control is outlined in documents that reside with the Natural Resources Conservation Service state soil scientist.

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶
MEASURE DESCRIPTION
Accuracy is tested by manual comparison of the source with hard copy plots and/or symbolized display of the map data on an interactive computer graphic system. Selected attributes that cannot be visually verified on plots or on screen are interactively queried and verified on screen. In addition, the attributes are tested against a master set of valid attributes. All attribute data conform to the attribute codes in the signed classification and correlation document and amendments and are current as of the date of digitizing.

Hide Data quality report - Quantitative attribute accuracy ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ▶
DIMENSION horizontal

MEASURE DESCRIPTION

The accuracy of these digital data is based upon their compilation to base maps that meet National Map Accuracy Standards. The difference in positional accuracy between the map unit boundaries in the field and their digitized map locations is unknown. The locational acuracy of soil delineations on the ground varies with the transition between map units. For example, in areas where changes in soils, climate, topography, and geology occur subtly across a portion of a state, the transition between soil map unit boundaries will be gradual. Where these features change abruptly, such as from an area of foothills to a lake plain, the transition will be very narrow. Soil delineation boundaries were digitized within 0.01 inches of their locations on the digitizing source. The digital map elements are edge matched between data sets. The data along each state boundary are matched against the data for the adjacent state. Edge locations generally do not deviate from centerline to centerline by more than 0.01 inch.

Hide Data quality report - Absolute external positional accuracy ▲

Hide Data Quality ▲

Lineage ►

PROCESS STEP ►
WHEN THE PROCESS OCCURRED   2005-07-18
DESCRIPTION
The tabular data were extracted from the Soil Data Mart without change. The spatial data was exported to an ESRI shapefile.

SOURCE DATA ►
RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION ►
ALTERNATE TITLES   NASIS

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP ►
WHEN THE PROCESS OCCURRED   2016-01-01
DESCRIPTION
The Alaska soils staff updated the STATSGO mapping for the state. A limited number of field visits during the summers of 2009 and 2010 provided additional verification of the preliminary STATSGO map. This included over 150 pedon and plant community

descriptions completed as a cooperative effort with USDI-US Fish and Wildlife Service and the Bureau of Land Management. Several National Wildlife Refuges were visited including Alaska Maritime (Attu Island), Yukon Delta, Kanuti, Tetlin, and Togiak. In addition the Bureau of Land Management supported verification work on the North Slope between Galbraith Lake and the Colville River Delta. In addition, 57 soil investigations of communities throughout Alaska are used to refine and verify the map. The state-wide Alaska MLRA (2002) map provided a starting point for this STATSGO update. STATSGO map units are unique to a MLRA. The map unit composition is derived through two different processes. In areas of detailed soil survey information (SSURGO) map units are developed through the aggregation of detailed soil maps into more general delineations with composition estimates based on a weighted average of detailed map unit components. Since detailed soil information is available for only about 15 percent of Alaska, a remote sensing approach using GIS tools was necessary to develop map units and components for remaining areas. The remote sensing process used to derive a majority of the STATSGO map for Alaska is described in the following paragraphs and outline. Regardless of the availability of detailed SSURGO data, a similar landform and life zone approach to map unit development is used in order to achieve a uniform map product throughout the State. The soil map unit lines and symbols are produced through a digitized on-screen process at a scale of approximately 1:250,000 in order to minimize the angularity of vertices and improve line placement and accuracy at landform boundaries. The final map is published at a nominal scale of 1:500,000. The on-screen digitizing process is best described as a visual digitizing process using a variety of digital layers as tools to assist in the manual on-screen process.

SOURCE DATA ▶
   RELATIONSHIP TO THE PROCESS STEP   used

   SOURCE CITATION ▶
      ALTERNATE TITLES   USGS2, USGS3, NRCS1, NRCS2, NRCS3

      Hide Source citation ▲

      Hide Source data ▲

   Hide Process step ▲

PROCESS STEP ▶
   WHEN THE PROCESS OCCURRED   2006-06-28
   DESCRIPTION
      The Natural Resources Conservation Service State Soil Scientist or delegate, upon completion of data quality verification, determined that the tabular data should be released for official use. A selected set of map units and components in the soil survey legend was copied to a staging database.

SOURCE DATA ▶
   RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION ▶
   ALTERNATE TITLES   NASIS

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP ▶
   WHEN THE PROCESS OCCURRED   2005-01-01
   DESCRIPTION
      The National Soil Information System data base was developed by Natural Resources Conservation Service soil scientists according to national standards.

SOURCE DATA ▶
   RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION ▶
   ALTERNATE TITLES   SCS4

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP ▶
   WHEN THE PROCESS OCCURRED   2005-07-15
   DESCRIPTION
      The Natural Resources Conservation Service State Soil Scientist or delegate, upon completion of data quality verification, determined that the tabular data should be released for official use. A selected set of map units and components in the soil survey legend was copied to a staging database.

SOURCE DATA ▶
    RELATIONSHIP TO THE PROCESS STEP   used

    SOURCE CITATION   ▶
      ALTERNATE TITLES   NASIS

      Hide Source citation ▲

    Hide Source data ▲

  Hide Process step ▲

PROCESS STEP ▶
    WHEN THE PROCESS OCCURRED   2000-01-01
    DESCRIPTION
      State coverages were merged into a seamless national coverage. This reduced tabular data redundancy and polygon number. A detailed and complete edit was performed on all digital data.

    SOURCE DATA   ▶
      RELATIONSHIP TO THE PROCESS STEP   used

      SOURCE CITATION   ▶
        ALTERNATE TITLES   SCS4

        Hide Source citation ▲

      Hide Source data ▲

    Hide Process step ▲

PROCESS STEP ▶
    WHEN THE PROCESS OCCURRED   1994-01-01
    DESCRIPTION
      Soil map unit lines and symbols were drafted in red pencil on a mylar overlay that was punch registered to fit the mylar USGS 1:250,000-scale topographic quadrangle. A detailed and complete edit was performed on all overlays before digitizing. The soil delineation overlays were raster scanned at a scanning resolution of at least 0.01 inches and converted to a vector format or were manually digitized on a digitizing tablet with a resolution of at least 0.001 inches. Four control points corresponding to

the four corners of the quadrangles were used for registration during data collection. The control points were either explicitly entered or developed by the software. The data sets were edge matched and merged into statewide coverages. A detailed and complete edit was performed on all digital data.

SOURCE DATA ►
RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION ►
ALTERNATE TITLES   USGS1, SCS3

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP ►
WHEN THE PROCESS OCCURRED   1994-01-01
DESCRIPTION
Map unit composition was determined by transecting or sampling areas on the more detailed soil maps and expanding the data statistically to characterize the whole map unit.

SOURCE DATA ►
RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION ►
ALTERNATE TITLES   SCS1

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP ►
WHEN THE PROCESS OCCURRED   2005-07-15
DESCRIPTION

The Natural Resources Conservation Service State Soil Scientist or delegate verified that the labels on the digitized soil map units link to map units in the tabular database, and certified the joined data sets for release to the Soil Data Warehouse. A system assigned version number and date stamp were added and the data were copied to the data warehouse. The tabular data for the map units and components were extracted from the data warehouse and reformatted into the soil data delivery data model, then stored in the Soil Data Mart. The spatial data were copied to the Soil Data Mart without change.

SOURCE DATA ▶
RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION   ▶
ALTERNATE TITLES   NASIS

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

PROCESS STEP   ▶
WHEN THE PROCESS OCCURRED   2006-06-29
DESCRIPTION
The Natural Resources Conservation Service State Soil Scientist or delegate verified that the labels on the digitized soil map units link to map units in the tabular database, and certified the joined data sets for release to the Soil Data Warehouse. A system assigned version number and date stamp were added and the data were copied to the data warehouse. The tabular data for the map units and components were extracted from the data warehouse and reformatted into the soil data delivery data model, then stored in the Soil Data Mart. The spatial data were copied to the Soil Data Mart without change.

SOURCE DATA ▶
RELATIONSHIP TO THE PROCESS STEP   used

SOURCE CITATION   ▶
ALTERNATE TITLES   NASIS

Hide Source citation ▲

Hide Source data ▲

Hide Process step ▲

SOURCE DATA ▶
  DESCRIPTION
    source for elevation correction

  SOURCE MEDIUM NAME   online link
  RESOLUTION OF THE SOURCE DATA
    SCALE DENOMINATOR   24000

  SOURCE CITATION   ▶
    TITLE   60 meter Digital Elevation Models (DEMs) National Elevation Dataset
    ALTERNATE TITLES   NRCS1
    PUBLICATION DATE   2004-01-01

    PRESENTATION FORMATS   hardcopy model
    FGDC GEOSPATIAL PRESENTATION FORMAT   model

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation
      Service National Cartography and Geospatial Center
      CONTACT'S ROLE   publisher

        CONTACT INFORMATION   ▶
          ADDRESS
            DELIVERY POINT   Fort Worth, Texas

          Hide Contact information ▲

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation
      Service
      CONTACT'S ROLE   originator

      Hide Source citation ▲

  EXTENT OF THE SOURCE DATA
    DESCRIPTION
      publication date

    TEMPORAL EXTENT
      DATE AND TIME   2004-01-01

    Hide Source data ▲

SOURCE DATA   ▶

DESCRIPTION
attribute (tabular) information

SOURCE CITATION ►
TITLE   National Soil Information System (NASIS) data base
ALTERNATE TITLES   NASIS
PUBLICATION DATE   2005-01-01

PRESENTATION FORMATS   digital document
FGDC GEOSPATIAL PRESENTATION FORMAT   tabular digital data

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service
CONTACT'S ROLE   originator

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service
CONTACT'S ROLE   publisher

CONTACT INFORMATION   ►
ADDRESS
DELIVERY POINT   Fort Collins, Colorado

Hide Contact information ▲

Hide Source citation ▲

EXTENT OF THE SOURCE DATA
DESCRIPTION
publication date

TEMPORAL EXTENT
BEGINNING DATE   2005-01-01
ENDING DATE   2005-01-01

Hide Source data ▲

SOURCE DATA   ►
DESCRIPTION
source material of soil map unit delineations and soil symbols

SOURCE MEDIUM NAME   CD-ROM
RESOLUTION OF THE SOURCE DATA
SCALE DENOMINATOR   250000

SOURCE CITATION ▶
  TITLE State Soil Geographic (STATSGO) data base
  ALTERNATE TITLES SCS5
  PUBLICATION DATE 1994-01-01

  FGDC GEOSPATIAL PRESENTATION FORMAT digital data

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation
    Service
    CONTACT'S ROLE originator

    Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION
    2006

  TEMPORAL EXTENT
    DATE AND TIME 1994-01-01

    Hide Source data ▲

SOURCE DATA ▶
  DESCRIPTION
      certified SSURGO data used for digital revision

  SOURCE MEDIUM NAME online link
  SOURCE CITATION ▶
    TITLE Soil Survey Geographic (SSURGO) database for Alaska
    ALTERNATE TITLES NRCS3
    PUBLICATION DATE 2015-01-01

    PRESENTATION FORMATS hardcopy map
    FGDC GEOSPATIAL PRESENTATION FORMAT map

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation
      Service
      CONTACT'S ROLE originator

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation
      Service
      CONTACT'S ROLE publisher

      CONTACT INFORMATION ▶
        ADDRESS

DELIVERY POINT Fort Worth, Texas

Hide Contact information ▲

Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION
    publication date

  TEMPORAL EXTENT
    DATE AND TIME 2015-01-01

  Hide Source data ▲

SOURCE DATA ▶
  DESCRIPTION
    source for digital revision

  SOURCE MEDIUM NAME online link
  RESOLUTION OF THE SOURCE DATA
    SCALE DENOMINATOR 500000

  SOURCE CITATION ▶
    TITLE Major Land Resource Area Map (MLRA) for Alaska
    ALTERNATE TITLES NRCS2
    PUBLICATION DATE 2002-01-01

    PRESENTATION FORMATS hardcopy model
    FGDC GEOSPATIAL PRESENTATION FORMAT model

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation
      Service National Cartography and Geospatial Center
      CONTACT'S ROLE publisher

      CONTACT INFORMATION ▶
        ADDRESS
          DELIVERY POINT Fort Worth, Texas

        Hide Contact information ▲

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME U.S. Department of Agriculture, Natural Resources Conservation
      Service
      CONTACT'S ROLE originator

    Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION
    publication date

  TEMPORAL EXTENT
    DATE AND TIME   2004-01-01

  Hide Source data ▲

SOURCE DATA   ▶
  DESCRIPTION
    Source of digital revision

RESOLUTION OF THE SOURCE DATA
  SCALE DENOMINATOR   500000

SOURCE CITATION   ▶
  TITLE   Landfire - EVT
  ALTERNATE TITLES   USGS3
  PUBLICATION DATE   2007-01-01

  FGDC GEOSPATIAL PRESENTATION FORMAT   remote sensing image

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME   U.S. Geological Survey
    CONTACT'S ROLE   originator

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME   U.S. Geological Survey
    CONTACT'S ROLE   publisher

    CONTACT INFORMATION   ▶
      ADDRESS
        DELIVERY POINT   Menlo Park, California

    Hide Contact information ▲

  Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION
    publication date

  TEMPORAL EXTENT
    DATE AND TIME   2007-01-01

  Hide Source data ▲

SOURCE DATA ▶
DESCRIPTION
Source of digital revision

RESOLUTION OF THE SOURCE DATA
SCALE DENOMINATOR   500000

SOURCE CITATION ▶
TITLE   Landsat Mosaic - Alaska
ALTERNATE TITLES   USGS2
PUBLICATION DATE   2000-01-01

FGDC GEOSPATIAL PRESENTATION FORMAT   remote sensing image

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Geological Survey
CONTACT'S ROLE   originator

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Geological Survey
CONTACT'S ROLE   publisher

CONTACT INFORMATION ▶
ADDRESS
DELIVERY POINT   Menlo Park, California

Hide Contact information ▲

Hide Source citation ▲

EXTENT OF THE SOURCE DATA
DESCRIPTION
publication date

TEMPORAL EXTENT
DATE AND TIME   2000-01-01

Hide Source data ▲

SOURCE DATA ▶
DESCRIPTION
source material of soil map unit delineations and soil symbols

SOURCE MEDIUM NAME   CD-ROM
RESOLUTION OF THE SOURCE DATA
  SCALE DENOMINATOR   250000

SOURCE CITATION   ▶
  TITLE   State Soil Geographic (STATSGO) data base
  ALTERNATE TITLES   SCS4
  PUBLICATION DATE   1994-01-01

  FGDC GEOSPATIAL PRESENTATION FORMAT   digital data

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation
    Service
    CONTACT'S ROLE   originator

    Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION
      1994

  TEMPORAL EXTENT
    DATE AND TIME   1994-01-01

  Hide Source data ▲

SOURCE DATA   ▶
  DESCRIPTION
      digitizing source

  SOURCE MEDIUM NAME   hardcopy—diazo on paper
  SOURCE CITATION   ▶
    TITLE   multiple compiled mylar overlays of map unit delineations, unpublished
    ALTERNATE TITLES   SCS3
    PUBLICATION DATE
      INDETERMINATE DATE   unknown

    FGDC GEOSPATIAL PRESENTATION FORMAT   annotated overlay

    RESPONSIBLE PARTY
      ORGANIZATION'S NAME   U.S Department of Agriculture, Natural Resources Conservation
      Service
      CONTACT'S ROLE   originator

      Hide Source citation ▲

EXTENT OF THE SOURCE DATA
  DESCRIPTION

unknown

TEMPORAL EXTENT
DATE AND TIME
INDETERMINATE DATE   unknown

Hide Source data ▲

SOURCE DATA   ▶
DESCRIPTION
base materials for compilation of map unit delineation linework

SOURCE MEDIUM NAME   hardcopy—diazo on paper
RESOLUTION OF THE SOURCE DATA
SCALE DENOMINATOR   250000

SOURCE CITATION   ▶
TITLE   multiple maps
ALTERNATE TITLES   USGS1
PUBLICATION DATE
INDETERMINATE DATE   unknown

PRESENTATION FORMATS   hardcopy map
FGDC GEOSPATIAL PRESENTATION FORMAT   map

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Geological Survey
CONTACT'S ROLE   publisher

CONTACT INFORMATION   ▶
ADDRESS
DELIVERY POINT   Reston, Virginia

Hide Contact information ▲

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Geological Survey
CONTACT'S ROLE   originator

Hide Source citation ▲

EXTENT OF THE SOURCE DATA
DESCRIPTION
publication date

TEMPORAL EXTENT
DATE AND TIME
INDETERMINATE DATE   unknown

Hide Source data ▲

SOURCE DATA ▶
DESCRIPTION
reference information for development of map unit delineations and transect data for naming map units where detailed surveys did not exist

SOURCE MEDIUM NAME   hardcopy—printing on paper
SOURCE CITATION ▶
TITLE   multiple reconnaissance, county, and State general soil maps
ALTERNATE TITLES   SCS2
PUBLICATION DATE
INDETERMINATE DATE   unknown

PRESENTATION FORMATS   hardcopy map
FGDC GEOSPATIAL PRESENTATION FORMAT   map

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S Department of Agriculture, Natural Resources Conservation Service
CONTACT'S ROLE   originator

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Government Printing Office
CONTACT'S ROLE   publisher

CONTACT INFORMATION ▶
ADDRESS
DELIVERY POINT   Washington, D.C.

Hide Contact information ▲

Hide Source citation ▲

EXTENT OF THE SOURCE DATA
DESCRIPTION
publication date

TEMPORAL EXTENT
DATE AND TIME
INDETERMINATE DATE   unknown

Hide Source data ▲

SOURCE DATA ▶
DESCRIPTION

base information for development of map unit delineations and transect data for naming map units

SOURCE MEDIUM NAME   hardcopy—printing on paper
SOURCE CITATION   ►
  TITLE   multiple soil survey publications
  ALTERNATE TITLES   SCS1
  PUBLICATION DATE
    INDETERMINATE DATE   unknown

  PRESENTATION FORMATS   hardcopy map
  FGDC GEOSPATIAL PRESENTATION FORMAT   map

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME   U.S Department of Agriculture, Natural Resources Conservation Service
    CONTACT'S ROLE   originator

  RESPONSIBLE PARTY
    ORGANIZATION'S NAME   U.S. Government Printing Office
    CONTACT'S ROLE   publisher

    CONTACT INFORMATION   ►
      ADDRESS
        DELIVERY POINT   Washington, D.C.

      Hide Contact information ▲

  Hide Source citation ▲

  EXTENT OF THE SOURCE DATA
    DESCRIPTION
      publication date

    TEMPORAL EXTENT
      DATE AND TIME
        INDETERMINATE DATE   unknown

  Hide Source data ▲

  Hide Lineage ▲

Distribution ►

DISTRIBUTOR   ►
  CONTACT INFORMATION
    ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service, National Cartography and Geospatial Center

CONTACT'S ROLE   distributor

CONTACT INFORMATION   ▶
  PHONE
    VOICE   (800) 672-5559
    TDD/TTY   (202) 720-2600
    FAX   (817) 509-3469

  ADDRESS
    TYPE   both
    DELIVERY POINT   501 West Felix Street, Building 23
    DELIVERY POINT   P.O. Box 6567
    CITY   Fort Worth
    ADMINISTRATIVE AREA   Texas
    POSTAL CODE   76115

  Hide Contact information ▲

AVAILABLE FORMAT
  NAME   ESRI shapefile
  FORMAT INFORMATION CONTENT   spatial

ORDERING PROCESS
  TERMS AND FEES   There is currently no direct charge for requesting data or for retrieving via FTP.
  TURNAROUND TIME
    Typically within four hours

  INSTRUCTIONS
    Visit the above mentioned Internet Web Site, select state or territory or national extent. Spatial data are available in ESRI shapefile format. The National Soil Information System attribute soil data are available in variable length, pipe delimited, ASCII file format.

TRANSFER OPTIONS
  TRANSFER SIZE   100

  ONLINE SOURCE
    LOCATION   URL:http://DataGateway.nrcs.usda.gov/
    DESCRIPTION   Select desired survey area at above Internet Web site. An email address is required for receipt of instructions on retrieval via anonymous FTP. Anticipate a delay between submission of request at Web site and receipt of email message.

TRANSFER OPTIONS
  ONLINE SOURCE
    DESCRIPTION   Digital General Soil Map of U.S.

  Hide Distributor ▲

DISTRIBUTION FORMAT
  * NAME   Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE   4.663

ONLINE SOURCE
   LOCATION   https://websoilsurvey-dev.dev.sc.egov.usda.gov/

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT MS_STATSGO2_2016 ▶
   * TYPE   Feature Class
   * ROW COUNT   1435
   DEFINITION
      A closed polygon that consists of soils and nonsoil areas that occur in a repeatable
      pattern on the landscape and that can be cartographically shown at the scale mapped.

   DEFINITION SOURCE
      NRCS National Cooperative Soil Survey

FIELD FID ▶
   * ALIAS   FID
   * DATA TYPE   OID
   * WIDTH   4
   * PRECISION   0
   * SCALE   0
   * FIELD DESCRIPTION
      Internal feature number.

   * DESCRIPTION SOURCE
      Esri

   * DESCRIPTION OF VALUES
      Sequential unique whole numbers that are automatically generated.

   Hide Field FID ▲

FIELD Shape ▶
   * ALIAS   Shape
   * DATA TYPE   Geometry
   * WIDTH   0
   * PRECISION   0
   * SCALE   0
   * FIELD DESCRIPTION
      Feature geometry.

   * DESCRIPTION SOURCE
      Esri

* DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field Shape ▲

FIELD AREASYMBOL ►
* ALIAS   AREASYMBOL
* DATA TYPE   String
* WIDTH   20
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
A symbol that uniquely identifies a single occurrence of a particular type of area (e.g. Lancaster Co., Nebraska is NE109).

DESCRIPTION SOURCE
NASIS

CODED VALUES
NAME OF CODELIST   None
SOURCE   National Information Technology Center, NRCS, 2150 Centre Ave., Bldg. A, Fort Collins, CO 80526

Hide Field AREASYMBOL ▲

FIELD SPATIALVER ►
* ALIAS   SPATIALVER
* DATA TYPE   Integer
* WIDTH   10
* PRECISION   10
* SCALE   0

Hide Field SPATIALVER ▲

FIELD MUKEY ►
* ALIAS   MUKEY
* DATA TYPE   String
* WIDTH   30
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
A non-connotative string of characters used to uniquely identify a record in the Mapunit table.

DESCRIPTION SOURCE
NASIS

No predefined set of mukeys.

Hide Field MUKEY ▲

FIELD MUSYM ►
 * ALIAS   MUSYM
 * DATA TYPE   String
 * WIDTH   6
 * PRECISION   0
 * SCALE   0
 FIELD DESCRIPTION
    The symbol used to uniquely identify the soil map unit in the soil survey.

 DESCRIPTION SOURCE
    NASIS

 CODED VALUES
   NAME OF CODELIST   None
   SOURCE   National Information Technology Center, NRCS, 2150 Centre Ave., Bldg. A, Fort Collins, CO 80526

 Hide Field MUSYM ▲

FIELD musym_1 ►
 * ALIAS   musym_1
 * DATA TYPE   String
 * WIDTH   6
 * PRECISION   0
 * SCALE   0

 Hide Field musym_1 ▲

FIELD muname ►
 * ALIAS   muname
 * DATA TYPE   String
 * WIDTH   175
 * PRECISION   0
 * SCALE   0

 Hide Field muname ▲

FIELD mustatus ►
 * ALIAS   mustatus
 * DATA TYPE   String
 * WIDTH   254

* PRECISION   0
* SCALE   0

Hide Field mustatus ▲

FIELD slopegradd ▶
* ALIAS   slopegradd
* DATA TYPE   Single
* WIDTH   13
* PRECISION   0
* SCALE   0

Hide Field slopegradd ▲

FIELD slopegradw ▶
* ALIAS   slopegradw
* DATA TYPE   Single
* WIDTH   13
* PRECISION   0
* SCALE   0

Hide Field slopegradw ▲

FIELD brockdepmi ▶
* ALIAS   brockdepmi
* DATA TYPE   Integer
* WIDTH   5
* PRECISION   5
* SCALE   0

Hide Field brockdepmi ▲

FIELD wtdepannmi ▶
* ALIAS   wtdepannmi
* DATA TYPE   Integer
* WIDTH   5
* PRECISION   5
* SCALE   0

Hide Field wtdepannmi ▲

FIELD wtdepaprju ▶
* ALIAS   wtdepaprju
* DATA TYPE   Integer
* WIDTH   5

* **Precision** 5
* **Scale** 0

Hide Field wtdepaprju ▲

Field flodfreqdc ►
* **Alias** flodfreqdc
* **Data type** String
* **Width** 254
* **Precision** 0
* **Scale** 0

Hide Field flodfreqdc ▲

Field flodfreqma ►
* **Alias** flodfreqma
* **Data type** String
* **Width** 254
* **Precision** 0
* **Scale** 0

Hide Field flodfreqma ▲

Field pondfreqpr ►
* **Alias** pondfreqpr
* **Data type** String
* **Width** 254
* **Precision** 0
* **Scale** 0

Hide Field pondfreqpr ▲

Field aws025wta ►
* **Alias** aws025wta
* **Data type** Single
* **Width** 13
* **Precision** 0
* **Scale** 0

Hide Field aws025wta ▲

Field aws050wta ►
* **Alias** aws050wta
* **Data type** Single
* **Width** 13

* **PRECISION** 0
* **SCALE** 0

   Hide Field aws050wta ▲

FIELD aws0100wta ▶
* **ALIAS** aws0100wta
* **DATA TYPE** Single
* **WIDTH** 13
* **PRECISION** 0
* **SCALE** 0

   Hide Field aws0100wta ▲

FIELD aws0150wta ▶
* **ALIAS** aws0150wta
* **DATA TYPE** Single
* **WIDTH** 13
* **PRECISION** 0
* **SCALE** 0

   Hide Field aws0150wta ▲

FIELD drclassdcd ▶
* **ALIAS** drclassdcd
* **DATA TYPE** String
* **WIDTH** 254
* **PRECISION** 0
* **SCALE** 0

   Hide Field drclassdcd ▲

FIELD drclasswet ▶
* **ALIAS** drclasswet
* **DATA TYPE** String
* **WIDTH** 254
* **PRECISION** 0
* **SCALE** 0

   Hide Field drclasswet ▲

FIELD hydgrpdcd ▶
* **ALIAS** hydgrpdcd
* **DATA TYPE** String
* **WIDTH** 254

* PRECISION　0
* SCALE　0

Hide Field hydgrpdcd ▲

FIELD iccdcd　▶
* ALIAS　iccdcd
* DATA TYPE　String
* WIDTH　254
* PRECISION　0
* SCALE　0

Hide Field iccdcd ▲

FIELD iccdcdpct　▶
* ALIAS　iccdcdpct
* DATA TYPE　Integer
* WIDTH　5
* PRECISION　5
* SCALE　0

Hide Field iccdcdpct ▲

FIELD niccdcd　▶
* ALIAS　niccdcd
* DATA TYPE　String
* WIDTH　254
* PRECISION　0
* SCALE　0

Hide Field niccdcd ▲

FIELD niccdcdpct　▶
* ALIAS　niccdcdpct
* DATA TYPE　Integer
* WIDTH　5
* PRECISION　5
* SCALE　0

Hide Field niccdcdpct ▲

FIELD engdwobdcd　▶
* ALIAS　engdwobdcd
* DATA TYPE　String
* WIDTH　254

* Precision   0
* Scale   0

Hide Field engdwobdcd ▲

Field engdwbdcd ▶
* Alias   engdwbdcd
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engdwbdcd ▲

Field engdwbll ▶
* Alias   engdwbll
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engdwbll ▲

Field engdwbml ▶
* Alias   engdwbml
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engdwbml ▲

Field engstafdcd ▶
* Alias   engstafdcd
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engstafdcd ▲

Field engstafll ▶
* Alias   engstafll
* Data type   String
* Width   254

* Precision   0
* Scale   0

Hide Field engstafll ▲

Field engstafml ►
* Alias   engstafml
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engstafml ▲

Field engsldcd ►
* Alias   engsldcd
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engsldcd ▲

Field engsldcp ►
* Alias   engsldcp
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field engsldcp ▲

Field englrsdcd ►
* Alias   englrsdcd
* Data type   String
* Width   254
* Precision   0
* Scale   0

Hide Field englrsdcd ▲

Field engcmssdcd ►
* Alias   engcmssdcd
* Data type   String
* Width   254

* PRECISION   0
  * SCALE   0

Hide Field engcmssdcd ▲

FIELD engcmssmp ▶
  * ALIAS   engcmssmp
  * DATA TYPE   String
  * WIDTH   254
  * PRECISION   0
  * SCALE   0

Hide Field engcmssmp ▲

FIELD urbrecptdc ▶
  * ALIAS   urbrecptdc
  * DATA TYPE   String
  * WIDTH   254
  * PRECISION   0
  * SCALE   0

Hide Field urbrecptdc ▲

FIELD urbrecptwt ▶
  * ALIAS   urbrecptwt
  * DATA TYPE   Single
  * WIDTH   13
  * PRECISION   0
  * SCALE   0

Hide Field urbrecptwt ▲

FIELD forpehrtdc ▶
  * ALIAS   forpehrtdc
  * DATA TYPE   String
  * WIDTH   254
  * PRECISION   0
  * SCALE   0

Hide Field forpehrtdc ▲

FIELD hydclprs ▶
  * ALIAS   hydclprs
  * DATA TYPE   String
  * WIDTH   254

* **PRECISION**   0
* **SCALE**   0

Hide Field hydclprs ▲

FIELD awmmfpwwta ▶
* **ALIAS**   awmmfpwwta
* **DATA TYPE**   Single
* **WIDTH**   13
* **PRECISION**   0
* **SCALE**   0

Hide Field awmmfpwwta ▲

FIELD mukey_1 ▶
* **ALIAS**   mukey_1
* **DATA TYPE**   String
* **WIDTH**   30
* **PRECISION**   0
* **SCALE**   0

Hide Field mukey_1 ▲

Hide Details for object MS_STATSGO2_2016 ▲

OVERVIEW DESCRIPTION   ▶
ENTITY AND ATTRIBUTE OVERVIEW

Map Unit Delineations are closed polygons that are geographic mixtures of groups of soils or soils and nonsoil areas. The map unit key uniquely identifies each closed map unit delineation. Each map unit key is linked to a map unit symbol and a map unit name. The map unit key is also the key for linking information in the National Soil Information System tables. Map Unit Delineations are described by the National Soil Information System data base. This attribute data base gives the proportionate extent of the component soils and the properties for each soil. The data base contains both estimated and measured data on the physical and chemical soil properties. The National Soil Information System data base contains static metadata. It documents the data structure and includes such information as what tables, columns, indexes, and relationships are defined as well as a variety of attributes of each of these data base objects. Attributes include table and column descriptions and detailed domain information. The National Soil Information System data base also contains distribution metadata. It records the criteria used in the set of distributed data.

ENTITY AND ATTRIBUTE DETAIL CITATION

U.S. Department of Agriculture. 2nd Ed., 1999. Soil Taxonomy: A basic system of soil classification for making and interpreting soil surveys. Nat. Res. Conserv. Serv., U.S. Dep. Agric. Handb. 436. U.S. Department of Agriculture. 9th Ed., 2003. Keys to Soil Taxonomy. Soil Surv. Staff, Nat. Res. Conserv. Serv. U.S. Department of Agriculture.

Current Issue. National Soil Survey Handbook, title 430-VI. Soil Surv. Staff, Nat. Res. Conserv. Serv. U.S. Department of Agriculture. 1993. Soil Survey Manual. Soil Surv. Staff, U.S. Dep. Agric. Handbook 18. U.S. Department of Agriculture. 1994. State Soil Geographic (STATSGO) Data Base: Data use information. Soil Conserv. Serv.

Hide Overview Description ▲

Hide Fields ▲

References ▶

AGGREGATE INFORMATION
ASSOCIATION TYPE   cross reference

AGGREGATE RESOURCE NAME   ▶
TITLE   State Soil Survey Geographic (STATSGO) data base
PUBLICATION DATE   1994-01-01

RESPONSIBLE PARTY
ORGANIZATION'S NAME   U.S. Department of Agriculture, Soil Conservation Service
CONTACT'S ROLE   originator

Hide Aggregate resource name ▲

Hide References ▲

Metadata Details ▶

METADATA LANGUAGE   English (UNITED STATES)
METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA   dataset
SCOPE NAME   **dataset

**LAST UPDATE   2018-11-15

ARCGIS METADATA PROPERTIES
METADATA FORMAT   ArcGIS 1.0
METADATA STYLE   FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM   2018-11-15   13:49:32
LAST MODIFIED IN ARCGIS FOR THE ITEM   2018-11-15   13:52:10

AUTOMATIC UPDATES
HAVE BEEN PERFORMED   Yes
LAST UPDATE   2018-11-15   13:52:10

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT
ORGANIZATION'S NAME   U.S. Department of Agriculture, Natural Resources Conservation Service
CONTACT'S POSITION   State Soil Scientist
CONTACT'S ROLE   point of contact

CONTACT INFORMATION   ▶
PHONE
VOICE   307-233-6774
TDD/TTY   800-877-8339
FAX   307-233-6753

ADDRESS
TYPE   postal
DELIVERY POINT   PO Box 33124
DELIVERY POINT   100 East B St Room 3124
CITY   Casper
ADMINISTRATIVE AREA   WY
POSTAL CODE   82602
E-MAIL ADDRESS   james.bauchert@wy.usda.gov

Hide Contact information ▲

Hide Metadata Contacts ▲

Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE   JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL   MS_STATSGO2_2016
ENTITY TYPE DEFINITION
A closed polygon that consists of soils and nonsoil areas that occur in a repeatable pattern on the landscape and that can be cartographically shown at the scale mapped.
ENTITY TYPE DEFINITION SOURCE   NRCS National Cooperative Soil Survey

ATTRIBUTE
ATTRIBUTE LABEL   FID
ATTRIBUTE DEFINITION
Internal feature number.
ATTRIBUTE DEFINITION SOURCE   Esri
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE
ATTRIBUTE LABEL   Shape
ATTRIBUTE DEFINITION
Feature geometry.
ATTRIBUTE DEFINITION SOURCE   Esri
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Coordinates defining the features.

ATTRIBUTE
ATTRIBUTE LABEL   AREASYMBOL
ATTRIBUTE DEFINITION
A symbol that uniquely identifies a single occurrence of a particular type of area (e.g. Lancaster Co., Nebraska is NE109).
ATTRIBUTE DEFINITION SOURCE   NASIS
ATTRIBUTE DOMAIN VALUES
CODESET DOMAIN
CODESET NAME   None
CODESET SOURCE   National Information Technology Center, NRCS, 2150 Centre Ave., Bldg. A, Fort Collins, CO 80526

ATTRIBUTE
ATTRIBUTE LABEL   SPATIALVER

ATTRIBUTE
ATTRIBUTE LABEL   MUKEY
ATTRIBUTE DEFINITION
A non-connotative string of characters used to uniquely identify a record in the Mapunit table.
ATTRIBUTE DEFINITION SOURCE   NASIS
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
No predefined set of mukeys.

ATTRIBUTE
ATTRIBUTE LABEL   MUSYM
ATTRIBUTE DEFINITION
The symbol used to uniquely identify the soil map unit in the soil survey.
ATTRIBUTE DEFINITION SOURCE   NASIS
ATTRIBUTE DOMAIN VALUES
CODESET DOMAIN
CODESET NAME   None
CODESET SOURCE   National Information Technology Center, NRCS, 2150 Centre Ave., Bldg. A, Fort Collins, CO 80526

ATTRIBUTE
ATTRIBUTE LABEL   musym_1

ATTRIBUTE
ATTRIBUTE LABEL   muname

ATTRIBUTE
ATTRIBUTE LABEL   mustatus

ATTRIBUTE
ATTRIBUTE LABEL   slopegradd

ATTRIBUTE

ATTRIBUTE LABEL   slopegradw

ATTRIBUTE
ATTRIBUTE LABEL   brockdepmi

ATTRIBUTE
ATTRIBUTE LABEL   wtdepannmi

ATTRIBUTE
ATTRIBUTE LABEL   wtdepaprju

ATTRIBUTE
ATTRIBUTE LABEL   flodfreqdc

ATTRIBUTE
ATTRIBUTE LABEL   flodfreqma

ATTRIBUTE
ATTRIBUTE LABEL   pondfreqpr

ATTRIBUTE
ATTRIBUTE LABEL   aws025wta

ATTRIBUTE
ATTRIBUTE LABEL   aws050wta

ATTRIBUTE
ATTRIBUTE LABEL   aws0100wta

ATTRIBUTE
ATTRIBUTE LABEL   aws0150wta

ATTRIBUTE
ATTRIBUTE LABEL   drclassdcd

ATTRIBUTE
ATTRIBUTE LABEL   drclasswet

ATTRIBUTE
ATTRIBUTE LABEL   hydgrpdcd

ATTRIBUTE
ATTRIBUTE LABEL   iccdcd

ATTRIBUTE
ATTRIBUTE LABEL   iccdcdpct

ATTRIBUTE
ATTRIBUTE LABEL   niccdcd

ATTRIBUTE
ATTRIBUTE LABEL   niccdcdpct

ATTRIBUTE
ATTRIBUTE LABEL   engdwobdcd

ATTRIBUTE
ATTRIBUTE LABEL   engdwbdcd

ATTRIBUTE LABEL	engdwbll	ATTRIBUTE
ATTRIBUTE LABEL	engdwbml	ATTRIBUTE
ATTRIBUTE LABEL	engstafdcd	ATTRIBUTE
ATTRIBUTE LABEL	engstafll	ATTRIBUTE
ATTRIBUTE LABEL	engstafml	ATTRIBUTE
ATTRIBUTE LABEL	engsldcd	ATTRIBUTE
ATTRIBUTE LABEL	engsldcp	ATTRIBUTE
ATTRIBUTE LABEL	englrsdcd	ATTRIBUTE
ATTRIBUTE LABEL	engcmssdcd	ATTRIBUTE
ATTRIBUTE LABEL	engcmssmp	ATTRIBUTE
ATTRIBUTE LABEL	urbrecptdc	ATTRIBUTE
ATTRIBUTE LABEL	urbrecptwt	ATTRIBUTE
ATTRIBUTE LABEL	forpehrtdc	ATTRIBUTE
ATTRIBUTE LABEL	hydclprs	ATTRIBUTE
ATTRIBUTE LABEL	awmmfpwwta	ATTRIBUTE
ATTRIBUTE LABEL	mukey_1	ATTRIBUTE

OVERVIEW DESCRIPTION
ENTITY AND ATTRIBUTE OVERVIEW

Map Unit Delineations are closed polygons that are geographic mixtures of groups of soils or soils and nonsoil areas. The map unit key uniquely identifies each closed map unit delineation. Each map unit key is linked to a map unit symbol and a map unit name. The map unit key is also the key for linking information in the National Soil Information System tables. Map Unit Delineations are described by the National Soil Information System data base. This attribute data base gives the proportionate extent of the component soils and the properties for each soil. The data base contains both

estimated and measured data on the physical and chemical soil properties. The National Soil Information System data base contains static metadata. It documents the data structure and includes such information as what tables, columns, indexes, and relationships are defined as well as a variety of attributes of each of these data base objects. Attributes include table and column descriptions and detailed domain information. The National Soil Information System data base also contains distribution metadata. It records the criteria used in the set of distributed data.

ENTITY AND ATTRIBUTE DETAIL CITATION

U.S. Department of Agriculture. 2nd Ed., 1999. Soil Taxonomy: A basic system of soil classification for making and interpreting soil surveys. Nat. Res. Conserv. Serv., U.S. Dep. Agric. Handb. 436. U.S. Department of Agriculture. 9th Ed., 2003. Keys to Soil Taxonomy. Soil Surv. Staff, Nat. Res. Conserv. Serv. U.S. Department of Agriculture. Current Issue. National Soil Survey Handbook, title 430-VI. Soil Surv. Staff, Nat. Res. Conserv. Serv. U.S. Department of Agriculture. 1993. Soil Survey Manual. Soil Surv. Staff, U.S. Dep. Agric. Handbook 18. U.S. Department of Agriculture. 1994. State Soil Geographic (STATSGO) Data Base: Data use information. Soil Conserv. Serv.

Hide Entities and Attributes ▲