

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **chaashto** Table Logical Name: chorizon_aashto
Import/Export File Name: chaashto.txt Table Label: Horizon AASHTO

The Horizon AASHTO table contains the American Association of State Highway Transportation Officials classification(s) for the referenced horizon. One row in this table is marked as the representative AASHTO classification for the horizon.

Table Physical Name: **chconsistence** Table Logical Name: chorizon_consistence
Import/Export File Name: chconsis.txt Table Label: Horizon Consistence

The Horizon Consistence table contains descriptive terms of soil consistence -- rupture resistance, plasticity, and stickiness -- for the referenced horizon. One row in this table is marked as having the representative characteristics for the horizon.

Table Physical Name: **chdesgnsuffix** Table Logical Name: chorizon_desgn_suffix
Import/Export File Name: chdsuffx.txt Table Label: Horizon Designation Suffix

The Horizon Designation Suffix table contains the designation suffix(es), one per row, for the referenced horizon. For example, the "h" and "s" of a Bhs horizon appear as two rows in this table.

Table Physical Name: **chfrags** Table Logical Name: chorizon_fragments
Import/Export File Name: chfrags.txt Table Label: Horizon Fragments

The Horizon Fragments table lists the mineral and organic fragments that generally occur in the referenced horizon. If the Volume % is greater than zero (low=5, RV=10, high=15) in a row, the kind and size of fragment in that row exists everywhere this horizon and component occur in the map unit. If the Volume % includes zero (low=0, RV=5, high=10), the kind and size of fragment may exist in some places, but not in others.

Table Physical Name: **chorizon** Table Logical Name: chorizon
Import/Export File Name: chorizon.txt Table Label: Horizon

The Horizon table lists the horizon(s) and related data for the referenced map unit component. If the horizon thickness is greater than zero (low=5, RV=8, high=12), the horizon exists everywhere this component occurs. If the horizon thickness includes zero (low=0, RV=1, high=3), the horizon may exist in some places, but not in other places. Horizons that have two distinct parts, such as E/B or E&Bt horizons, are recorded twice. Once for the characteristics of the first part; and again on another row, using the same depths and thicknesses, for the characteristics of the other part.

Table Physical Name: **chpores** Table Logical Name: chorizon_pores
Import/Export File Name: chpores.txt Table Label: Horizon Pores

The Horizon Pores table lists the voids for the referenced horizon. If the Quantity is greater than zero (low=2, RV=5, high=10) in a row, the voids in that row exist everywhere the horizon and component occur in the map unit. If the Quantity includes zero (low=0, RV=2, high=5), the voids may exist in some places, but not in others. More than one row can be marked as an RV row because a horizon may have more than one size or shape of void.

Table Physical Name: **chstruct** Table Logical Name: chorizon_structure
Import/Export File Name: chstr.txt Table Label: Horizon Structure

The Horizon Structure table lists the individual soil structure size, grade, and shape terms for the referenced horizon. Terms in this table are assembled into a structure group string which is recorded in the Horizon Structure Group table.

Table Physical Name: **chstructgrp** Table Logical Name: chorizon_structure_group
Import/Export File Name: chstrgrp.txt Table Label: Horizon Structure Group

The Horizon Structure Group table lists the ranges of soil structure for the referenced horizon. The row with the typically occurring structure is marked as being representative. The entry in this table is based on grouping of entries in the Horizon Structure table.

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **chttext** Table Logical Name: horizon_text
Import/Export File Name: chttext.txt Table Label: Horizon Text

The Horizon Text table contains notes and narrative descriptions related to the referenced horizon. Some notes may provide additional information about the horizon for which there is no explicit column for such data. In many cases, the table is empty for a particular horizon.

Table Physical Name: **chttexture** Table Logical Name: horizon_texture
Import/Export File Name: chttextur.txt Table Label: Horizon Texture

The Horizon Texture table lists the individual texture(s), or term(s) used in lieu of texture, for the referenced horizon. Only the unmodified texture terms are listed in the Horizon Texture table; modifiers are listed in the Horizon Texture Modifier table. For example, a gravelly loamy sand is shown as "GR-LS" in the Horizon Texture Group table, "ls" in the Horizon Texture table, and "gr" in the Horizon Texture Modifier table.

Table Physical Name: **chttexturegrp** Table Logical Name: horizon_texture_group
Import/Export File Name: chttextgrp.txt Table Label: Horizon Texture Group

The Horizon Texture Group table lists the range of textures for the referenced horizon as a concatenation of horizon texture and texture modifier(s). For example, a horizon that is gravelly loamy sand in some places and gravelly loamy coarse sand in other places is shown as GR-LS on one row and GR-LCOS on another row in this table. The row with the typically occurring texture is identified as the RV row. Stratified textures are shown in one row. For example, a horizon that is stratified gravelly loamy fine sand and cobbly coarse sand is shown as SR-GR-LFS CB-COS on one row and the Stratified? column for that row is marked "yes". If two or more textures always occur together but are not stratified, all of the textures are listed on one row and the Stratified? column for that row is marked "no".

Table Physical Name: **chttexturemod** Table Logical Name: horizon_texture_modifier
Import/Export File Name: chttextmod.txt Table Label: Horizon Texture Modifier

The Horizon Texture Modifier table lists the texture modifier(s) for the referenced texture. For example, a gravelly loamy sand is shown as "GR-LS" in the Horizon Texture Group table, "ls" in the Horizon Texture table, and "gr" in this table.

Table Physical Name: **chunified** Table Logical Name: horizon_unified
Import/Export File Name: chunifie.txt Table Label: Horizon Unified

The Horizon Unified table contains the Unified Soil Classification(s) for the referenced horizon. One row in the Horizon Unified table is marked as the representative Unified classification for the horizon.

Table Physical Name: **ccanopycover** Table Logical Name: component_canopy_cover
Import/Export File Name: ccancov.txt Table Label: Component Canopy Cover

The Component Canopy Cover table lists the overstory plants that typically occur on the referenced map unit component.

Table Physical Name: **ccropyield** Table Logical Name: component_crop_yield
Import/Export File Name: ccrpyd.txt Table Label: Component Crop Yield

The Component Crop Yield table lists commonly grown crops and their expected range in yields when grown on the referenced map unit component. Yields for the map unit as a whole are given in the Mapunit Crop Yield table.

Table Physical Name: **codiagfeatures** Table Logical Name: component_diagnostic_features
Import/Export File Name: cdfeat.txt Table Label: Component Diagnostic Features

The Component Diagnostic Features table lists the typical soil features, such as ochric epipedon or cambic horizon, for the referenced map unit component.

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **coecoclass** Table Logical Name: component_ecological_class
Import/Export File Name: cecoclas.txt Table Label: Component Ecological Classification

The Component Ecological Classification table identifies the ecological sites typically associated with the referenced map unit component. These may include the official NRCS forestland and rangeland ecological sites, as well as those of other classification systems, such as the USFS Habitat Types.

Table Physical Name: **coeplants** Table Logical Name: component_existing_plants
Import/Export File Name: ceplants.txt Table Label: Component Existing Plants

The Component Existing Plants table lists the plants, either rangeland or forestland plants, that typically occur on the referenced map unit component.

Table Physical Name: **coerosionacc** Table Logical Name: component_erosion_accelerated
Import/Export File Name: cerosnac.txt Table Label: Component Erosion Accelerated

The Component Erosion Accelerated table lists the kinds of accelerated erosion that occur on the referenced map unit component. One row in this table is marked as the representative kind of accelerated erosion for that component.

Table Physical Name: **coforprod** Table Logical Name: component_forest_prod
Import/Export File Name: cfprod.txt Table Label: Component Forest Productivity

The Component Forest Productivity table lists the site index and the annual productivity in cubic feet per acre per year (CAMI) of forest overstory tree species that typically occur on the referenced map unit component.

Table Physical Name: **coforprodo** Table Logical Name: component_forest_prod_other
Import/Export File Name: cforprodo.txt Table Label: Component Forest Productivity - Other

The Component Forest Productivity - Other table lists the site index and annual productivity of forest overstory tree species in units other than cubic feet per acre per year for trees that typically occur on the referenced map unit component.

Table Physical Name: **cogeomordesc** Table Logical Name: component_geomorph_desc
Import/Export File Name: cgeomord.txt Table Label: Component Geomorphic Description

The Component Geomorphic Description table lists the geomorphic features on which the referenced map unit component typically occurs.

Table Physical Name: **cohydriccriteria** Table Logical Name: component_hydric_criteria
Import/Export File Name: chydrcrit.txt Table Label: Component Hydric Criteria

The Component Hydric Criteria table lists the hydric soil criteria met for those referenced map unit components that are classified as a "hydric soil."

Table Physical Name: **cointerp** Table Logical Name: component_interpretation
Import/Export File Name: cinterp.txt Table Label: Component Interpretation

The Component Interpretation table lists the predictions of behavior and limiting features for specified uses made for the referenced map unit component.

Table Physical Name: **comonth** Table Logical Name: component_month
Import/Export File Name: cmonth.txt Table Label: Component Month

The Component Month table lists the monthly flooding and ponding characteristics for the referenced map unit component. This table has one row for each month of the year.

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **component** Table Logical Name: component
Import/Export File Name: comp.txt Table Label: Component

The Component table lists the map unit components identified in the referenced map unit, and selected properties of each component. If the Component % is greater than zero (low=65, RV=75, high=90) for a component, that component exists in every delineation of that mapunit. If the Component % includes zero (low=0, RV=50, high=90), the component may exist in some delineations, but not in others.

Table Physical Name: **copm** Table Logical Name: component_parent_material
Import/Export File Name: cpmat.txt Table Label: Component Parent Material

The Component Parent Material table lists the individual parent material(s) for the referenced map unit component. In some cases where soils developed in multiple materials in a vertical sequence, that sequence will be noted. In other cases multiple entries with no vertical sequence noted indicates the soil may have formed in one of the materials listed.

Table Physical Name: **copmgrp** Table Logical Name: component_parent_material_grp
Import/Export File Name: cpmatgrp.txt Table Label: Component Parent Material Group

The Component Parent Material Group table lists the concatenated string of parent material(s) in which the referenced map unit component formed based on entries in the Component Parent Material table. For example, a component formed in one parent material, such as loess, or one vertical sequence of parent materials, such as loamy glacial drift over silty residuum weathered from shale, has one row in this table. A component formed in one parent material in some locations, but another parent material (or sequence of parent materials) in other locations has two rows in this table, one for each parent material (or sequence of parent materials). One row is identified as the representative parent material.

Table Physical Name: **copwindbreak** Table Logical Name: component_potential_windbreak
Import/Export File Name: cpwndbrk.txt Table Label: Component Potential Windbreak

The Component Potential Windbreak table lists the windbreak plant species commonly recommended for the referenced map unit component. A windbreak plant listed in this table may be used alone or in combination with other plants.

Table Physical Name: **corestrictions** Table Logical Name: component_restrictions
Import/Export File Name: crstrcts.txt Table Label: Component Restrictions

The Component Restrictions table lists the root restrictive feature(s) or layer(s) for the referenced map unit component. If the thickness of the restrictive layer is greater than zero (low=5, RV=8, high=10), the restrictive layer exists in all delineations of the map unit where the component occurs. If the thickness of the restrictive layer includes zero (low=0, RV=2, high=5), the restrictive layer may exist in some delineations, but not in others. This table will be empty if the component does not have restrictive features, but could have several rows if several restrictive features occur in the soil.

Table Physical Name: **cosoilmoist** Table Logical Name: component_soil_moisture
Import/Export File Name: csmoist.txt Table Label: Component Soil Moisture

The Component Soil Moisture table describes the typical soil moisture profile for the referenced map unit component during the month referenced in the Component Month table. The soil moisture profiles for each month, taken as a group of twelve months, describe the representative situation for the component throughout the year.

Table Physical Name: **cosoiltemp** Table Logical Name: component_soil_temperature
Import/Export File Name: cstemp.txt Table Label: Component Soil Temperature

The Component Soil Temperature table describes the typical soil temperature profile for the referenced map unit component during the month referenced in the Component Month table. The soil temperature profiles for each month, taken as a group of twelve months, describe the representative situation for the component throughout the year.

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **mdstatidxdet** Table Logical Name: metadata_static_index_detail
Import/Export File Name: msidxdet.txt Table Label: Index Detail Static Metadata

The Index Detail Static Metadata table records what columns of a table make up a particular index. Each record in this table represents one column of a particular index.

Table Physical Name: **mdstatidxmas** Table Logical Name: metadata_static_index_master
Import/Export File Name: msidxmas.txt Table Label: Index Master Static Metadata

The Index Master Static Metadata table records the metadata that pertains to an index, as a whole, for all indexes defined for the tabular data set. Each record in this table represents one index for a particular table. An index is based on one or more columns from a particular table. Information about the columns that make up an index is found in the Index Detail Static Metadata table.

Table Physical Name: **mdstatrshpdet** Table Logical Name: metadata_static_relship_detail
Import/Export File Name: mrsrdet.txt Table Label: Relationship Detail Static Metadata

The Relationship Detail Static Metadata table records the pairs of join columns that define a particular relationship. Each record in this table represents one pair of join columns for a particular relationship.

Table Physical Name: **mdstatrshpmas** Table Logical Name: metadata_static_relship_master
Import/Export File Name: mrsrmas.txt Table Label: Relationship Master Static Metadata

The Relationship Master Static Metadata table records the metadata that pertains to a relationship, as a whole, for all relationships defined for the tabular data set. Each record in this table represents one particular relationship between two related tables. A relationship involves one or more pairs of join columns, and more than one relationship may exist between the same two tables. Information about the join columns involved in a relationship is found in the Relationship Detail Static Metadata table.

Table Physical Name: **mdstatabcols** Table Logical Name: metadata_static_table_columns
Import/Export File Name: mstabcol.txt Table Label: Table Column Static Metadata

The Table Column Static Metadata table records the metadata for all columns of all tables that make up the tabular data set. Each record in this table represents one column of a particular table.

Table Physical Name: **mdstatabs** Table Logical Name: metadata_static_tables
Import/Export File Name: mstab.txt Table Label: Table Static Metadata

The Table Static Metadata table records metadata about the tables that make up the tabular data set. Each record in this table represents one table.

Table Physical Name: **muaggatt** Table Logical Name: mapunit_aggregated_attribute
Import/Export File Name: muaggatt.txt Table Label: Mapunit Aggregated Attribute

The Mapunit Aggregated Attribute table records a variety of soil attributes and interpretations that have been aggregated from the component level to a single value at the map unit level. They have been aggregated by one or more appropriate means in order to express a consolidated value or interpretation for the map unit as a whole.

Table Physical Name: **muaooverlap** Table Logical Name: mapunit_area_overlap
Import/Export File Name: muareao.txt Table Label: Mapunit Area Overlap

The Mapunit Area Overlap table lists the map units that exist in the overlap between the entire soil survey area and the referenced geographic area in the Legend Area Overlap table.

SSURGO Metadata - Tables

SSURGO Metadata Version: 2.1.1

Table Physical Name: **sacatalog**
Import/Export File Name: sacatlog.txt

Table Logical Name: survey_area_catalog
Table Label: Survey Area Catalog

This table records the primary dynamic metadata associated with a soil survey area. This includes such things as survey area version, tabular data version, etc. The remaining dynamic metadata, which soil interpretations were generated for the corresponding soil survey area, is recorded in the Survey Area Interpretation table.

Table Physical Name: **sainterp**
Import/Export File Name: sainterp.txt

Table Logical Name: survey_area_interpretation
Table Label: Survey Area Interpretation

This table records information about the soil interpretations that were generated for a soil survey area.

Table Physical Name: **sapolygon**
Import/Export File Name: sapoly.txt

Table Logical Name: survey_area_polygon
Table Label: Survey Area Polygon

This table records the set of polygons that make up a soil survey area boundary. The table is not like other tabular data tables that are delivered as ASCII delimited files. How the information in this table is delivered depends of the spatial format that was requested at the time the corresponding soil survey area data was exported. Spatial information is typically delivered in GIS vendor specific format, and more than one output file may be produced when the information for this spatial entity is exported. Consequently, no spatially oriented columns are shown, because the name and number of columns necessary to portray spatial characteristics vary depending on spatial format.

This table is documented in order to show attributes that will always be available when working with the corresponding spatial entity in a GIS. These attributes have two purposes. One purpose is to identify each instance of the corresponding spatial entity. The other purpose is to identify each instance of the corresponding tabular entity. The tabular entity corresponding to the survey area boundary is represented by a record in the Legend table.