

APPENDIX B-1

SOILS INFORMATION AND THE WEB SOIL SURVEY

The Web Soil Survey is an interactive, internet based application that contains soil maps and associated attribute data from soil surveys produced by the National Cooperative Soil Survey. Spatial and attribute data are available on the Web Soil Survey for all Georgia counties that have a completed, correlated soil survey, which includes most, but not all Georgia Counties. A status map of Georgia counties with spatial data available can be found on the Soil Data Mart at <http://soildatamart.nrcs.usda.gov/Statusmap.aspx>.

The URL to access the Web Soil Survey is <http://websoilsurvey.nrcs.usda.gov/>.

The Web Soil Survey Home Page contains guidance on how to use the application, including an explanatory document called “How to Use the Web Soil Survey”.

A brief description of the Web Soil Survey, information it contains, and how to use the application follows. Additional help can be found by clicking on the question mark (?) throughout the application. Other links to downloadable soils data, archived soil survey publications, and a glossary are at the top of the Web Soil Survey screen.

Start the Web Soil Survey

Start the Web Soil Survey application by clicking on the big green button that says “Start WSS”.

At the top of the page, there are 4 major tabs: Area of Interest (AOI), Soil Map, Soil Data Explorer, and Shopping Cart (Free).

Locate and Designate the Area of Interest (AOI)

The first step is to locate and outline the AOI. The AOI options will be displayed when the WSS application is started, but can also be accessed at anytime by clicking on the Area of Interest (AOI) tab. There is an Area of Interest Interactive Map on the right side of the screen, and an

AOI can be located by progressively zooming in to the area on the map using the magnifier tool. Alternatively, quick navigation options are on the left side of the screen. These allow for easy selection of locations using several options, including an address, state and county, soil survey area, longitude and latitude, and others.

Click on the navigation method of choice, enter the appropriate selections, and click on *View*. Then use the magnifier tool to zoom in to the specific AOI. One of the two AOI tools is then used to delineate the AOI as a rectangle, or as a multi-sided polygon. Once identified, the AOI will appear as a hatched area within the prescribed boundary. The AOI must be 10,000 acres or smaller in size, unless the entire survey area is selected as an AOI. The AOI can be set to the entire survey area by clicking on *Set AOI*, rather than *View*, when using quick navigation.

View the Soil Map

Once the AOI is defined, the soil map for the area can be displayed by clicking on the “*Soil Map*” tab. A map with soil lines and soil symbols will be displayed on the right side of the screen. A legend with map symbols, soil map unit names, and the extent of each map unit will be displayed on the left side of the screen. At this point an ADOBE PDF file can be created for download or printing by clicking on the *Printable Version* bar.

Viewing of the map can be switched between a *Full Width Map Layout*, or a “*Normal Map Layout*” with legend, by clicking on the layout icons on the top-right portion of the screen.

Click on the *Legend* tab at the top-left portion of the map to open a legend that allows for customized viewing options. Various features, such as streams, roads, cities, and counties can be turned on or off. The background map can also be switched between aerial photography and topographic maps.

Explore Soil Data and Interpretations

Access information about the soils by clicking on the Soil Data Explorer tab. This opens up a subset of folders that includes tabs for *Intro to Soils*, *Suitabilities and Limitations for Use*, *Soil*

Properties and Qualities, Ecological Site Assessment, and Soil Reports.

Information on Ecological Site Assessment is not available at this time, but this tab will become active as Ecological Site information is developed in the future.

The *Intro to Soils* folder contains descriptive information about soils and their use. The *Suitabilities and Limitations for Use* folder contains land classifications, productivity ratings, and interpretations for urban and recreational uses, forestland, cropland, waste disposal, water management, and other uses. The *Soil Properties and Qualities* folder contains information about chemical and physical properties of the soils, water features related to the soils, erosion factors, and other soil qualities and features. The *Soil Reports* folder provides for grouping of similar items in soil reports, without the graphical display.

Information in the *Suitabilities and Limitations for Use*, and the *Soil Properties and Qualities* folders, when selected, can be displayed graphically on the map, as the items listed are related to specific soil components.

Click on the *Soil Properties and Qualities* tab, and a list of selectable groups of soil properties and qualities appears.

Click on one of these groups, and specific items appear for selection. For example, selecting *Soil Erosion Factors* will open up selections for K Factor Rock Free, K Factor Whole Soil, T Factor, Wind Erodibility group, and Wind Erodibility Index. Select K Factor Whole Soil, then View Rating to get a map display of the k factors with an associated legend. At this point an ADOBE .pdf file can be created for download or printing by clicking on the Printable Version bar. There is also an option to create a document with multiple selections. Click on the Add to Shopping Cart bar to add any number of items to a customized report, which will be created at the end of the session.

All selected items will have a View Description bar in addition to the View Rating bar. Click on the View Description bar for an explanation

of the feature selected. There will also be a View Description option that can be checked to include a detailed description of the feature as part of the generated report.

Check Out

Click on the *Shopping Cart (Free)* tab to create a customized soil report for any or all of the soil items or reports that were previously selected using the Add to Shopping Cart option. The *Report Properties* option allows for designation of titles, paper sizes and scales. Selections can be made under the *Table of Contents* to remove any reports or descriptive materials not needed. Finally, click on the *Check Out* bar. Choices are to get the report now, or download later. It may be better to download very large files at a later time. An ADOBE PDF file containing customized maps, and selected items about the soils, will be created and made available for download.

Most of the information under the *Suitabilities and Limitations for Use* tab, and the *Soil Properties and Qualities* tab, can also be found under the *Soil Reports* tab. Information from the Soil Reports tab will not be graphically displayed on the map. However, the soil reports offer groupings of several related items, rather than the single item displayed from the other tabs. The reports, along with the associated soil map, may be a good option for many applications.

Download data

There is an option in Web Soil Survey to download the spatial and tabular data for the defined AOI in a format that can be utilized on a local computer in a GIS system, such as Arc-Map. Once the AOI has been identified, click on the *Download Soils Data* option at the top of the screen. Select or deselect tabular data, template database, or spatial data to download, enter an email address, and click the *Download* bar. Processing of the request will commence, and when completed, an email will be sent with a link for downloading the requested data.

Content of the Web Soil Survey

Soil properties, qualities, and interpretations that are currently in the Web Soil Survey under suitabilities, limitations, soil qualities and features, and soil reports are listed below. Content of the Web Soil Survey is refreshed periodically with updates and with additional information.

Suitabilities and Limitations Ratings in the Web Soil Survey

Category	Interpretation
Building Site Development.....	Corrosion of Concrete
Building Site Development.....	Corrosion of Steel
Building Site Development	Dwellings With Basements
Building Site Development.....	Dwellings Without Basements
Building Site Development.....	Lawns, Landscaping, and Golf Fairways
Building Site Development.....	Local Roads and Streets
Building Site Development.....	Shallow Excavations
Building Site Development.....	Small Commercial Buildings
Construction Materials.....	Gravel Source
Construction Materials.....	Roadfill Source
Construction Materials.....	Sand Source
Construction Materials.....	Topsoil Source
Disaster Recovery Planning.....	Catastrophic Mortality, Large Animal Disposal, Pit
Disaster Recovery Planning.....	Catastrophic Mortality, Large Animal Disposal, Trench
Disaster Recovery Planning.....	Clay Liner Material Source
Disaster Recovery Planning.....	Composting Facility - Subsurface
Disaster Recovery Planning.....	Composting Facility - Surface
Disaster Recovery Planning.....	Composting Medium and Final Cover
Disaster Recovery Planning.....	Rubble and Debris Disposal, Large-Scale Event
Land Classifications	Farmland Classification (this includes prime farmland and farmland of statewide importance)
Land Classifications	Hydric Rating by mapunit
Land Classifications.....	Soil Taxonomy Classification
Land Management.....	Construction Limitations for Haul Roads and Log Landings
Land Management.....	Erosion Hazard (Off-Road, Off- Trail)
Land Management.....	Erosion Hazard (Road, Trail)
Land Management.....	Harvest Equipment Operability
Land Management.....	Mechanical Site Preparation (Deep)
Land Management.....	Mechanical Site Preparation (Surface)
Land Management.....	Potential for Seedling Mortality
Land Management.....	Soil Rutting Hazard
Land Management.....	Suitability for Hand Planting
Land Management.....	Suitability for Log Landings
Land Management.....	Suitability for Mechanical Planting
Land Management.....	Suitability for Roads (Natural Surface)
Military Operations.....	Bivouac Areas
Military Operations.....	Excavations for Crew-Served Weapon Fighting Positions

Military Operations,,,,,,,,,,,,,,,,,,,,,,,,,,,,,Excavations for Individual Fighting Positions
Military Operations.....Excavations for Vehicle Fighting Positions
Military Operations.....Helicopter Landing Zones
Military Operations.....Vehicle Trafficability

Recreational DevelopmentCamp Areas
Recreational DevelopmentPaths and Trails
Recreational DevelopmentPicnic Areas
Recreational DevelopmentPlaygrounds

Sanitary Facilities.....Daily Cover for Landfill
Sanitary Facilities.....Sanitary Landfill (Area)
Sanitary Facilities.....Sanitary Landfill (Trench)
Sanitary Facilities.....Septic Tank Absorption Fields
Sanitary Facilities.....Sewage lagoons

Vegetative Productivity.....Forest Productivity (Cubic Feet per Acre per Year)
Vegetative Productivity.....Forest Productivity (Tree Site Index)
Vegetative Productivity.....Yield of Irrigated Crops (Component)

Vegetative Productivity.....Yield of Non-Irrigated Crops (Component)

Water management.....Embankments, Dikes, and Levees
Water management.....Excavated Ponds (Aquifer-Fed)

Soil Properties and Qualities in the Web Soil Survey

Category	Soil Property or Quality
Soil Chemical Properties.....	Calcium Carbonate (CaCO ₃)
Soil Chemical Properties.....	Cation-Exchange Capacity (CEC-7)
Soil Chemical Properties.....	Effective Cation-Exchange Capacity (ECEC)
Soil Chemical Properties.....	Electrical Conductivity (EC)
Soil Chemical Properties.....	Gypsum
Soil Chemical Properties.....	pH (1 to 1 Water)
Soil Chemical Properties.....	Sodium Adsorption Ratio (SAR)
Soil Erosion Factors.....	K Factor, Rock Free
Soil Erosion Factors.....	K Factor, Whole Soil
Soil Erosion Factors.....	T Factor
Soil Erosion Factors.....	Wind Erodibility Group
Soil Erosion Factors.....	Wind Erodibility Index
Soil Physical Properties.....	Available Water Capacity
Soil Physical Properties.....	Available Water Supply, 0 to 100 cm
Soil Physical Properties.....	Available Water Supply, 0 to 150 cm
Soil Physical Properties.....	Available Water Supply, 0 to 25 cm
Soil Physical Properties.....	Available Water Supply, 0 to 50 cm
Soil Physical Properties.....	Bulk Density, 15 Bar
Soil Physical Properties.....	Bulk Density, One-Tenth Bar
Soil Physical Properties.....	Bulk Density, One-Third Bar
Soil Physical Properties.....	Linear Extensibility
Soil Physical Properties.....	Liquid Limit
Soil Physical Properties.....	Organic Matter
Soil Physical Properties.....	Percent Clay
Soil Physical Properties.....	Percent Sand
Soil Physical Properties.....	Percent Silt
Soil Physical Properties.....	Plasticity Index
Soil Physical Properties.....	Saturated Hydraulic Conductivity (K _{sat})
Soil Physical Properties.....	Saturated Hydraulic Conductivity (K _{sat}), Standard Classes
Soil Physical Properties.....	Surface Texture
Soil Physical Properties.....	Water Content, 15 Bar
Soil Physical Properties.....	Water Content, One-Third Bar
Soil Qualities and Features.....	ASHTO Group Classification (Surface)
Soil Qualities and Features.....	Depth to a Selected Soil Restrictive Layer
Soil Qualities and Features.....	Depth to Any Soil Restrictive Layer
Soil Qualities and Features.....	Drainage Class
Soil Qualities and Features.....	Frost Action
Soil Qualities and Features.....	Frost-Free Days
Soil Qualities and Features.....	Hydraulic Soil Group
Soil Qualities and Features.....	Map Unit Name

Soil Qualities and Features.....	Parent Material Name
Soil Qualities and Features.....	Representative Slope
Soil Qualities and Features.....	Unified Soil Classification (Surface)
Water Features.....	Depth to Water Table
Water Features.....	Flooding Frequency Class
Water Features.....	Ponding Frequency Class

Reports in the Web Soil Survey

Report	Feature
AOI Inventory	
Component Legend.....	Map unit symbol
Component Legend	Map unit name
Component Legend.....	Component percent
Component Legend.....	Component name
Component Legend	Component kind
Component Legend.....	Slope percent
Map Unit Description.....	Map Unit Description
Map Unit Description (Brief).....	Map Unit Description (Brief)
Map Unit Description (Brief, Generated)....	Map Unit Description (Brief, Generated)
Selected Soil Interpretations.....	Selected Soil Interpretations
Selected Survey Area	
Interpretation Descriptions.....	Selected Survey Area Interpretation Descriptions
Survey Area Data Summary.....	Survey area version
Survey Area Data Summary.....	Survey area version established date
Survey Area Data Summary.....	Tabular data version
Survey Area Data Summary.....	Tabular data NASIS export data
Survey Area Data Summary.....	Tabular data certification status
Building Site Development	
Dwellings and Small Commercial Buildings.....	Dwellings without basements
Dwellings and Small Commercial Buildings.....	Dwellings with basements
Dwellings and Small Commercial Buildings.....	Small commercial buildings
Construction Materials	
Source of Roadfill and Topsoil.....	Potential as a source of roadfill
Source of Roadfill and Topsoil.....	Potential as a source of topsoil
Source of Sand and Gravel.....	Potential as a source of sand
Source of Sand and Gravel.....	Potential as a source of gravel

Land Classifications

Hydric Soils.....Hydric Soils
Land Capability Classification.....Land Capability Classification
Prime and other Important Farmlands.....Farmland classification
Taxonomic Classification of the Soils.....Taxonomic Classification of the Soils

Land Management

Hazard of Erosion and Suitabilities for Roads on Forestland Hazard of off-road or off-trail erosion
Hazard of Erosion and Suitabilities for Roads on Forestland Hazard of erosion on roads and trails
Hazard of Erosion and Suitabilities for Roads on Forestland Suitability for roads (natural surface)

Recreational Development

Camp Areas, Picnic Areas, and Playgrounds.....Camp areas
Camp Areas, Picnic Areas, and Playgrounds.....Picnic areas
Camp Areas, Picnic Areas, and Playgrounds.....Playgrounds
Paths, Trails, and Golf Fairways.....Paths and trails
Paths, Trails, and Golf Fairways.....Golf fairways

Sanitary Facilities

Landfills.....Trench sanitary landfill
Landfills.....Area sanitary landfill
Landfills.....Daily cover for landfill
Sewage Disposal.....Septic tank absorption fields
Sewage Disposal.....Sewage lagoons

Soil Chemical Properties

Chemical Properties.....Cation exchange capacity
Chemical Properties.....Effective cation exchange capacity
Chemical Properties.....Calcium carbonate
Chemical Properties.....Soil reaction
Chemical Properties.....Gypsum
Chemical Properties.....Salinity
Chemical Properties.....Sodium absorption ratio

Erosion

RUSLE2 Related Attributes.....hydrologic group
RUSLE2 Related Attributes.....Kf
RUSLE2 Related Attributes.....T factor
RUSLE2 Related Attributes.....Sand percent
RUSLE2 Related Attributes.....Silt percent
RUSLE2 Related Attributes.....Clay percent

Soil Physical Properties

Engineering Properties.....USDA texture
Engineering Properties.....Unified classification
Engineering Properties.....AASHTO classification
Engineering Properties.....Fragments > 10 inches

Engineering Properties.....	Fragments 3-10 inches
Engineering Properties.....	Percent passing sieve number 4
Engineering Properties.....	Percent passing sieve number 10
Engineering Properties.....	Percent passing sieve number 40
Engineering Properties.....	Percent passing sieve number 200
Engineering Properties.....	Liquid limit
Engineering Properties.....	Plasticity index
Particle Size and Coarse Fragments.....	Horizon
Particle Size and Coarse Fragments.....	Depth
Particle Size and Coarse Fragments.....	Sand percent
Particle Size and Coarse Fragments.....	Silt percent
Particle Size and Coarse Fragments.....	Clay percent
Particle Size and Coarse Fragments.....	Total Fragments
Particle Size and Coarse Fragments.....	Fragments 2-74 mm
Particle Size and Coarse Fragments.....	Fragments 75-249 mm
Particle Size and Coarse Fragments.....	Fragments 250-599 mm
Particle Size and Coarse Fragments.....	Fragments >=600 mm

Soil Qualities and Features

Soil Features.....	Restrictive Layer
Soil Features.....	Subsidence
Soil Features.....	Potential for frost action
Soil Features.....	Risk of corrosion-Uncoated steel
Soil Features.....	Risk of corrosion-Concrete

Vegetative Productivity

Forestland Productivity.....	Common trees
Forestland Productivity.....	Site Index
Forestland Productivity.....	Volume of wood fiber
Forestland Productivity.....	Trees to manage
Irrigated Yields by Map Unit Component.....	Land capability
Irrigated Yields by Map Unit Component.....	Crop yields
Nonirrigated Yields by Map Unit Component.....	Land capability
Nonirrigated Yields by Map Unit Component.....	Crop yields

Waste Management

Large Animal Carcass Disposal.....	Large Animal Carcass Disposal, Pit
Large Animal Carcass Disposal.....	Large Animal Carcass Disposal, Trench

Water Features

Water Features.....	Hydrologic group
Water Features.....	Surface runoff
Water Features.....	Water table
Water Features.....	Ponding
Water Features.....	Flooding

Water Management

Ponds and Embankments.....	Pond reservoir areas
Ponds and Embankments.....	Embankments, dikes, and levees

Index for the Suitabilities and Limitations Tab in the Web Soil Survey

Interpretation	Category
Bivouac Areas.....	Military Operations
Camp Areas.....	Recreational Development
Catastrophic Mortality, Large Animal Disposal, Pit.....	Disaster Recovery Planning
Catastrophic Mortality, Large Animal Disposal, Trench	Disaster Recovery Planning
Clay Liner Material Source.....	Disaster Recovery Planning
Composting Facility - Subsurface.....	Disaster Recovery Planning
Composting Facility - Surface.....	Disaster Recovery Planning
Composting Medium and Final Cover.....	Disaster Recovery Planning
Construction Limitations for Haul Roads and Log Landings..	Land Management
Corrosion of Concrete.....	Building Site Development
Corrosion of Steel.....	Building Site Development
Daily Cover for Landfills.....	Sanitary Facilities
Dwellings With Basements Building.....	Site Development
Dwellings Without Basements.....	Building Site Development
Embankments, Dikes, and Levees.....	Water management
Erosion Hazard (Off-Road, Off- Trail).....	Land Management
Erosion Hazard (Road, Trail).....	Land Management
Excavated Ponds (Aquifer-Fed).....	Water management
Excavations for Crew-Served Weapon Fighting Positions..	Military Operations
Excavations for Individual Fighting Positions.....	Military Operations
Excavations for Vehicle Fighting Positions.....	Military Operations
Farmland Classification (includes prime farmland and farmland of statewide importance).....	Land Classifications
Forest Productivity (Cubic Feet per Acre per Year).....	Vegetative Productivity
Forest Productivity (Tree Site Index).....	Vegetative Productivity
Gravel Source.....	Construction Materials
Harvest Equipment Operability.....	Land Management
Helicopter Landing Zones.....	Military Operations
Hydric Rating by mapunit.....	Land Classifications
Lawns, Landscaping, and Golf Fairways Building.....	Site Development
Local Roads and Streets.....	Building Site Development
Mechanical Site Preparation (Deep).....	Land Management
Mechanical Site Preparation (Surface).....	Land Management
Nonirrigated Capability Class.....	Land Classifications
Nonirrigated Capability Subclass.....	Land Classifications
Paths and Trails.....	Recreational Development

Picnic Areas.....	Recreational Development
Playgrounds.....	Recreational Development
Potential for Seedling Mortality.....	Land Management
Roadfill Source.....	Construction Materials
Rubble and Debris Disposal, Large-Scale Event.....	Disaster Recovery Planning
Sand Source.....	Construction Materials
Sanitary Landfill (Area).....	Sanitary Facilities
Sanitary Landfill (Trench).....	Sanitary Facilities
Septic Tank Absorption Fields.....	Sanitary Facilities
Sewage lagoons.....	Sanitary Facilities
Shallow Excavations.....	Building Site Development
Small Commercial Buildings.....	Building Site Development
Soil Rutting Hazard.....	Land Management
Soil Taxonomy Classification.....	Land Classifications
Suitability for Hand Planting.....	Land Management
Suitability for Log Landings.....	Land Management
Suitability for Mechanical Planting.....	Land Management
Suitability for Roads (Natural Surface).....	Land Management
Topsoil Source.....	Construction Materials
Vehicle Trafficability.....	Military Operations
Yield of Irrigated Crops (Component).....	Vegetative Productivity
Yield of Non-Irrigated Crops (Component).....	Vegetative Productivity

Index for the Soil Properties and Qualities Tab in the Web Soil Survey

Item	Subcategory
AASHTO Group Classification (Surface).....	Soil Qualities and Features
Available Water Capacity.....	Soil Physical Properties
Available Water Supply, 0 to 100 cm.....	Soil Physical Properties
Available Water Supply, 0 to 150 cm.....	Soil Physical Properties
Available Water Supply, 0 to 25 cm.....	Soil Physical Properties
Available Water Supply, 0 to 50 cm.....	Soil Physical Properties
Bulk Density, 15 Bar.....	Soil Physical Properties
Bulk Density, One-Tenth Bar.....	Soil Physical Properties
Bulk Density, One-Third Bar.....	Soil Physical Properties
Calcium Carbonate (CaCO ₃).....	Soil Chemical Properties
Cation-Exchange Capacity (CEC-7).....	Soil Chemical Properties
Depth to a Selected Soil Restrictive Layer.....	Soil Qualities and Features
Depth to Any Soil Restrictive Layer.....	Soil Qualities and Features
Depth to Water Table.....	Water Features
Drainage Class.....	Soil Qualities and Features
Effective Cation-Exchange Capacity (ECEC).....	Soil Chemical Properties
Electrical Conductivity (EC).....	Soil Chemical Properties
Flooding Frequency Class.....	Water Features
Frost Action.....	Soil Qualities and Features

Frost-Free Days.....	Soil Qualities and Features
Gypsum.....	Soil Chemical Properties
Hydraulic Soil Group.....	Soil Qualities and Features
K Factor, Rock Free.....	Soil Erosion Factors
K Factor, Whole Soil.....	Soil Erosion Factors
Linear Extensibility.....	Soil Physical Properties
Liquid Limit.....	Soil Physical Properties
Map Unit Name.....	Soil Qualities and Features
Organic Matter.....	Soil Physical Properties
Parent Material Name.....	Soil Qualities and Features
Percent Clay.....	Soil Physical Properties
Percent Sand.....	Soil Physical Properties
Percent Silt.....	Soil Physical Properties
pH (1 to 1 Water).....	Soil Chemical Properties
Plasticity Index.....	Soil Physical Properties
Ponding Frequency Class.....	Water Features
Representative Slope.....	Soil Qualities and Features
Saturated Hydraulic Conductivity (Ksat).....	Soil Physical Properties
Saturated Hydraulic Conductivity (Ksat), Standard Classes.....	Soil Physical Properties
Sodium Adsorption Ratio (SAR).....	Soil Chemical Properties
Surface Texture.....	Soil Physical Properties
T Factor.....	Soil Erosion Factors
Unified Soil Classification (Surface).....	Soil Qualities and Features
Water Content, 15 Bar.....	Soil Physical Properties
Water Content, One-Third Bar.....	Soil Physical Properties
Wind Erodibility Group.....	Soil Erosion Factors
Wind Erodibility Index.....	Soil Erosion Factors

Index for the Soil Reports Tab in the Web Soil Survey

Item	Report (Category)
AASHTO classification.....	Engineering Properties (Soil Physical Properties)
Area sanitary landfill.....	Landfills (Sanitary Facilities)
Calcium carbonate.....	Chemical Properties (Soil Chemical Properties)
Camp areas.....	Camp Areas, Picnic Areas, and Playgrounds (Recreational Development)
Cation exchange capacity.....	Chemical Properties (Soil Chemical Properties)
Clay percent.....	RUSLE2 Related Attributes (Erosion)
Clay percent.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Common trees.....	Forestland Productivity (Vegetative Productivity)
Component kind.....	Component Legend (AOI Inventory)
Component name.....	Component Legend (AOI Inventory)
Component percent.....	Component Legend (AOI Inventory)
Crop yields.....	Irrigated Yields by Map Unit Component (Vegetative Productivity)
Crop yields.....	Nonirrigated Yields by Map Unit Component (Vegetative Productivity)
Daily cover for landfill.....	Landfills (Sanitary Facilities)
Depth.....	Particle Size and Coarse Fragments (Soil Physical Properties)

Dwellings with basements.....	Dellings and Small Commercial Buildings (Building Site Development)
Dwellings without basements.....	Dwellings and Small Commercial Buildings (Building Site Development)
Effective cation exchange capacity.....	Chemical Properties (Soil Chemical Properties)
Embankments, dikes, and levees.....	Ponds and Embankments (Water Management)
Farmland classification.....	Prime and other Important Farmlands (Land Classifications)
Flooding.....	Water Features (Water Features)
Fragments > 10 inches.....	Engineering Properties (Soil Physical Properties)
Fragments >=600 mm.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Fragments 250-599 mm.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Fragments 2-74 mm.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Fragments 3-10 inches.....	Engineering Properties (Soil Physical Properties)
Fragments 75-249 mm.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Golf fairways.....	Paths, Trails, and Golf Fairways (Recreational Development)
Gypsum.....	Chemical Properties (Soil Chemical Properties)
Hazard of Erosion on roads and trails.....	Hazard of Erosion and Suitabilities for Roads on Forestland (Land Management)
Hazard of off-road or off-trail Erosion.....	Hazard of Erosion and Suitabilities for Roads on Forestland (Land Management)
Horizon.....	Particle Size and Coarse Fragments (Soil Physical Properties)
Hydric Soils.....	Hydric Soils (Land Classifications)
hydrologic group.....	RUSLE2 Related Attributes (Erosion)
Hydrologic group.....	Water Features (Water Features)
Kf.....	RUSLE2 Related Attributes (Erosion)
Land capability.....	Irrigated Yields by Map Unit Component (Vegetative Productivity)
Land capability.....	Nonirrigated Yields by Map Unit Component (Vegetative Productivity)
Land Capability Classification.....	Land Capability Classification (Land Classifications)
Large Animal Carcass Disposal,Pit.....	Large Animal Carcass Disposal Waste Management
Large Animal Carcass Disposal, Trench.....	Large Animal Carcass Disposal Waste Management
Liquid limit.....	Engineering Properties (Soil Physical Properties)
Map Unit Description.....	Map Unit Description (AOI Inventory)
Map Unit Description (Brief).....	Map Unit Description (Brief) (AOI Inventory)
Map Unit Description(Brief, Generated)....	Map Unit Description (Brief, Generated) (AOI Inventory)
Map unit name.....	Component Legend (AOI Inventory)
Map unit symbol.....	Component Legend (AOI Inventory)
Paths and trails.....	Paths, Trails, and Golf Fairways (Recreational Development)
Percent passing sieve number 10.....	Engineering Properties (Soil Physical Properties)
Percent passing sieve number 200.....	Engineering Properties (Soil Physical Properties)
Percent passing sieve number 4.....	Engineering Properties (Soil Physical Properties)
Percent passing sieve number 40.....	Engineering Properties (Soil Physical Properties)
Picnic areas.....	Camp Areas, Picnic Areas, and Playgrounds (Recreational Development)
Plasticity index.....	Engineering Properties (Soil Physical Properties)
Playgrounds.....	Camp Areas, Picnic Areas, and Playgrounds (Recreational Development)
Pond reservoir areas.....	Ponds and Embankments (Water Management)
Ponding.....	Water Features (Water Features)
Potential as a source of gravel.....	Source of Sand and Gravel Construction Materials

Potential as a source of roadfill.....	Source of Roadfill and Topsoil	Construction Materials
Potential as a source of sand.....	Source of Sand and Gravel	Construction Materials
Potential as a source of topsoil.....	Source of Roadfill and Topsoil	Construction Materials
Potential for frost action.....	Soil Features	Soil Qualities and Features
Restrictive Layer.....	Soil Features	Soil Qualities and Features
Risk of corrosion-Concrete.....	Soil Features	Soil Qualities and Features
Risk of corrosion-Uncoated steel.....	Soil Features	Soil Qualities and Features
Salinity.....	Chemical Properties (Soil Chemical Properties)	
Sand percent.....	RUSLE2 Related Attributes (Erosion)	
Sand percent.....	Particle Size and Coarse Fragments (Soil Physical Properties)	
Selected Soil Interpretations.....	Selected Soil Interpretations (AOI Inventory)	
Selected Survey Area Interpretation Descriptions.....	Selected Survey Area Interpretation Descriptions (AOI Inventory)	
Septic tank absorption fields.....	Sewage Disposal (Sanitary Facilities)	
Sewage lagoons.....	Sewage Disposal (Sanitary Facilities)	
Silt percent.....	RUSLE2 Related Attributes (Erosion)	
Silt percent.....	Particle Size and Coarse Fragments (Soil Physical Properties)	
Site Index.....	Forestland Productivity (Vegetative Productivity)	
Slope percent.....	Component Legend (AOI Inventory)	
Small commercial buildings.....	Dwellings and Small Commercial Buildings (Building Site Development)	
Sodium absorption ratio.....	Chemical Properties (Soil Chemical Properties)	
Soil reaction.....	Chemical Properties (Soil Chemical Properties)	
Subsidence.....	Soil Features	Soil Qualities and Features
Suitability for roads (natural surface).....	Hazard of Erosion and Suitabilities for Roads on Forestland (Land Management)	
Surface runoff.....	Water Features (Water Features)	
Survey area version.....	Survey Area Data Summary (AOI Inventory)	
Survey area version established date.....	Survey Area Data Summary (AOI Inventory)	
T factor.....	RUSLE2 Related Attributes (Erosion)	
Tabular data certification status.....	Survey Area Data Summary (AOI Inventory)	
Tabular data version.....	Survey Area Data Summary (AOI Inventory)	
Tabular data.....	NASIS export data Survey Area Data Summary (AOI Inventory)	
Taxonomic Classification of the Soils.....	Taxonomic Classification of the Soils (Land Classifications)	
Total Fragments.....	Particle Size and Coarse Fragments (Soil Physical Properties)	
Trees to manage.....	Forestland Productivity (Vegetative Productivity)	
Trench sanitary landfill.....	Landfills (Sanitary Facilities)	
Unified classification.....	Engineering Properties (Soil Physical Properties)	
USDA texture.....	Engineering Properties (Soil Physical Properties)	
Volume of wood fiber.....	Forestland Productivity (Vegetative Productivity)	
Water table.....	Water Features (Water Features)	