

# Available Soil Tables and Reports On the NRCS Web Soil Survey

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## Intro to Soils

(Contains a large and variety of helpful definitions, and general information about soils, soil survey, and soil use. It has information on Soils 101, for Land Users, Land Uses such as Cropland, Forestland, Pastureland, Horticulture, Rangeland, Recreation, and Urban Uses.)

## Suitabilities and Limitations for Use

(Generates Individual Tables and Thematic Maps)

### Building Site Development

Corrosion of Concrete  
Corrosion of Steel  
Dwellings With Basements  
Dwellings Without Basements  
Lawns, Landscaping, and Golf Fairways  
Local Roads and Streets  
Shallow Excavations  
Small Commercial Buildings

### Construction Materials

Roadfill Source  
Sand Source  
Topsoil Source (MD)

### Disaster Recovery Planning

Catastrophic Mortality, Large Animal Disposal, Pit  
Catastrophic Mortality, Large Animal Disposal, Trench  
Clay Liner Material Source  
Composting Facility - Subsurface  
Composting Facility - Surface  
Composting Medium and Final Cover  
Rubble and Debris Disposal, Large-Scale Event

### Land Classifications

Conservation Tree and Shrub Group  
Ecological Site ID  
Ecological Site Name  
Farmland Classification  
Forage Suitability Group ID (Component Table)  
Hydric Rating by Map Unit  
Irrigated Capability Class  
Irrigated Capability Subclass  
Nonirrigated Capability Class  
Nonirrigated Capability Subclass  
Soil Taxonomy Classification

### Land Management

Construction Limitations for Haul Roads and Log Landings  
Erosion Hazard (Off-Road, Off-Trail)  
Erosion Hazard (Road, Trail)  
Harvest Equipment Operability (MD)  
Mechanical Site Preparation (Deep) (MD)  
Mechanical Site Preparation (Surface) (MD)  
Potential for Seedling Mortality  
Soil Rutting Hazard  
Suitability for Hand Planting (MD)  
Suitability for Log Landings  
Suitability for Mechanical Planting (MD)  
Suitability for Roads (Natural Surface)

## **Military Operations**

Bivouac Areas

Excavations Crew-Served Weapon Fighting Positions

Excavations for Individual Fighting Positions

Excavations for Vehicle Fighting Positions

Helicopter Landing Zones

Vehicle Trafficability . Type 1, 1 pass Wet Season

Vehicle Trafficability. Type 1, 50 passes Wet Season

Vehicle Trafficability. Type 1, Dry Season

Vehicle Trafficability. Type 2, 1 pass, Wet Season

Vehicle Trafficability. Type 2, 50 passes, Wet Season

Vehicle Trafficability Type 2, Dry Season

Vehicle Trafficability. Type 3, 1 pass, Wet Season

Vehicle Trafficability Type 3, 50 passes, Wet Season

Vehicle Trafficability. Type 3, Dry Season

Vehicle Trafficability. Type 4, 1 pass, Wet Season

Vehicle Trafficability. Type 4, 50 passes, Wet Season

Vehicle Trafficability. Type 4, Dry Season

Vehicle Trafficability. Type 5, 1 pass, Wet Season

Vehicle Trafficability. Type 5, 50 passes, Wet Season

Vehicle Trafficability. Type 5, Dry Season

Vehicle Trafficability. Type 6, 1 pass, Wet Season

Vehicle Trafficability. Type 6, 50 passes, Wet Season

Vehicle Trafficability. Type 6, Dry Season

Vehicle Trafficability. Type 7, 1 pass, Wet Season

Vehicle Trafficability. Type 7, 50 passes, Wet Season

Vehicle Trafficability. Type 7, Dry Season

## **Recreational Development**

Camp Areas

Off-Road Motorcycle Trails

Paths and Trails

Picnic Areas

Playgrounds

## **Sanitary Facilities**

Daily Cover for Landfill

Sanitary Landfill (Area)

Sanitary Landfill (Trench)

Septic Tank Absorption Fields (MD)

Sewage Lagoons

## **Vegetative Productivity**

Crop Productivity Index

Forest Productivity (Cubic Feet per Acre per Year)

Forest Productivity (Tree Site Index)

Iowa Corn Suitability Rating

Range Production (Favorable Year)

Range Production (Normal Year)

Range Production (Unfavorable Year)

Yields of Irrigated Crops (Component)

Yields of Irrigated Crops (Map Unit)

Yields of Nonirrigated Crops (Component)

Yields of Nonirrigated Crops (Map Unit)

## **Waste Management**

Disposal of Wastewater by Irrigation (MD)

Disposal of Wastewater by Rapid Infiltration (MD)

Land Application of Municipal Sewage Sludge (MD)

Manure and Food Processing Waste (MD)

Overland Flow Treatment of Wastewater

Slow Rate Treatment of Wastewater

## **Water Management**

Embankments, Dikes, and Levees

Excavated Ponds (Aquifer-fed)

Pond Reservoir Areas

# Soil Properties and Qualities

(Generates Individual Tables and Thematic Maps)

## Soil Chemical Properties

Calcium Carbonate (CaCO<sub>3</sub>)  
Cation-Exchange Capacity (CEC-7)  
Effective Cation-Exchange Capacity (ECEC)  
Electrical Conductivity (EC)  
Gypsum  
pH (1 to 1 Water)  
Sodium Adsorption Ratio (SAR)

## Soil Erosion Factors

K Factor, Rock Free  
K Factor, Whole Soil  
T Factor  
Wind Erodibility Group  
Wind Erodibility Index

## Soil Physical Properties

Available Water Capacity  
Available Water Supply, 0 to 100 cm  
Available Water Supply, 0 to 150 cm  
Available Water Supply, 0 to 25 cm  
Available Water Supply, 0 to 50 cm  
Bulk Density, 15 Bar  
Bulk Density, One-Tenth Bar  
Bulk Density, One-Third Bar  
Linear Extensibility  
Liquid Limit  
Organic Matter  
Percent Clay  
Percent Sand  
Percent Silt  
Plasticity Index  
Saturated Hydraulic Conductivity (Ksat)  
Saturated Hydraulic Conductivity (Ksat), Standard Classes  
Surface Texture  
Water Content, 15 Bar  
Water Content, One-Third Bar

## Soil Qualities and Features

AASHTO Group Classification (Surface)  
Depth to Selected Soil Restrictive Layer  
Depth to Any Soil Restrictive Layer  
Drainage Class  
Frost Action  
Frost - Free Days  
Hydrologic Soil Group  
Map Unit Name  
Parent Material Name  
Representative Slope  
Unified Soil Classification (Surface)

## Water Features

Depth to Water Table  
Flooding Frequency Class  
Ponding Frequency Class

# Ecological Site Assessment

(not activated for this area)

# Soil Reports

(Standard and Custom Reports, may not be populated if “Selected Soil Interpretations” exist under AOI Inventory Reports, no thematic maps)

## AOI Inventory

Component Legend

Map Unit Description

Map Unit Description (Brief)

Map Unit Description (Brief, Generated)

Selected Soil Interpretations (custom interpretations and reports for MD and DE)

Selected Survey Area Interpretation Descriptions

Survey Area Data Summary (this reports lists dates of data)

## Building Site Development

**Dwellings and Small Commercial Buildings - this report includes:**

Dwellings Without Basements

Dwellings With Basements

Small Commercial Buildings

**Roads and Streets, Shallow Excavations, and Lawns and Landscaping – this report includes:**

Local Roads and Streets

Shallow Excavations

Lawn, Landscape

## Construction Materials

**Source of Reclamation Material, Roadfill, and Topsoil – this report includes:**

Potential as a source of reclamation material

Potential as a source of roadfill

Potential as a source of topsoil

**Source of Sand and Gravel – this report includes:**

Potential as a source of gravel

Potential as a source of sand

## Land Classifications

Conservation Tree and Shrub Suitability Groups

Hydric Soils

Land Capability Classification

Prime and other Important Farmlands

Taxonomic Classification of the Soils

## Land Management

**Damage by Fire and Seedling Mortality on Forestland – this report includes:**

Potential for damage to soil by fire

Potential seedling mortality

**Haul Roads, Log Landings, and Soil Rutting on Forestland – this report includes:**

Limitations affecting construction of haul roads and log landings

Suitability for log landing

Soil rutting hazard

**Hazard of Erosion and Suitability for Roads on Forestland – this report includes:**

Hazard of off-road or off-trail erosion

Hazard of erosion on roads or trails

Suitability for roads (natural surface)

## Recreational Development

**Camp Areas, Picnic Areas, and Playgrounds – this report includes:**

Camp Areas

Picnic Areas

Playgrounds

**Paths, Trails, and Golf Fairways – this report includes:**

Paths and trails

Off-road motorcycle trails

Golf fairways

## **Sanitary Facilities**

### **Landfills – this report includes:**

Trench sanitary landfill  
Area sanitary landfill  
Daily cover for landfill

### **Sewage Disposal – this report includes:**

Septic tank absorption fields  
Sewage lagoons

## **Soil Chemical Properties**

### **Chemical Soil Properties – this report includes:**

Cation-exchange capacity  
Effective cation-exchange capacity  
Soil reaction  
Calcium carbonate  
Gypsum  
Salinity  
Sodium adsorption ratio

## **Soil Erosion Factors**

### **RUSLE2 Related Attributes – this report includes:**

Hydrology group  
K Factor – Rock Free - Kf)  
T Factor  
% Sand  
% Silt  
% Clay

## **Soil Physical Properties**

### **Engineering Soil Properties – this report includes:**

USDA texture  
Unified Classification  
AASHTO Classification  
Rock Fragments (>10"; 3-10")  
Percent passing sieves (4,10,40,200)  
Liquid limit  
Plasticity index

### **Particle Size and Coarse Fragments– this report includes:**

Horizon  
Depth  
Sand (low, RV, high)  
Silt (low, RV, high)  
Clay (low, RV, high)  
Total Fragments  
Fragments (2-74mm)  
Fragments (75-249mm)  
Fragments (250-599mm)  
Fragments (>600mm)

### **Physical Soil Properties – this report includes:**

Percent Sand, Silt, Clay  
Moist Bulk Density  
Saturated Hydraulic Conductivity  
Available Water Capacity  
Linear Extensibility  
Organic Matter Content  
Erosion Factors (Kw, Kf, T)  
Wind Erodibility Group  
Wind Erodibility Index

## **Soil Qualities and Features**

### **Soil Features – this report includes:**

Restrictive Layer (kind, depth, thickness, Hardness)  
Subsidence (Initial, Total)  
Potential Frost Action  
Risk of Corrosion (Uncoated Steel, Concrete)

## **Vegetative Productivity**

### **Forestland Productivity – this report includes:**

Common Trees  
Site Index  
Volume of Wood Fiber (cu ft/ac)  
Trees to Manage

### **Irrigated and Nonirrigated Yields by Map Unit Component – this report includes:**

Irrigated and Nonirrigated Land Capability Classes  
Irrigated and Nonirrigated yields for corn, soybean, wheat, barley or other crops

### **Irrigated Yields by Map Unit Component – this report includes:**

Irrigated and Land Capability Classes  
Irrigated and yields for corn, soybean, or other crops

### **Nonirrigated Yields by Map Unit Component – this report includes:**

Nonirrigated Land Capability Classes  
Nonirrigated yields for corn, soybean, wheat, barley or other crops

### **Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition – this report includes: (may not be populated for this area)**

Ecological Site, Plant Association or Habitat Type  
Total Dry Weight Production for Favorable, Normal, Unfavorable Years  
Characteristic Rangeland or Forest Understory Vegetation  
Composition Rangeland (pct dry wt)  
Composition Forest Understory (pct dry wt)  
Composition Forest Understory (pct cover)

## **Waste Management**

### **Agricultural Disposal of Wastewater by Irrigation and Overland Flow – this report includes:**

Disposal of Wastewater by irrigation  
Overland Flow of Wastewater

### **Agricultural Disposal of Wastewater by Rapid Infiltration and Slow Rate Treatment – this report includes:**

Rapid Infiltration of Wastewater  
Slow Rate Treatment of Wastewater

### **Large Animal Carcass Disposal – this report includes:**

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

## **Water Features**

### **Water Features – this report includes:**

Hydrologic Group  
Surface Runoff  
Water Table Depths by Month  
Ponding Depths, Duration, Frequency by Month  
Flooding Duration, Frequency by Month

## **Water Management**

### **Ponds and Embankments – this report includes:**

Pond Reservoir Areas  
Embankments, Dikes, and Levees  
Aquifer-fed Excavated Ponds