

Enhancing the Web-Based Soil Survey Management System

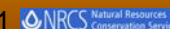
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INTRODUCTION

The purpose of this site is to provide the results of Soil Survey and other scientific studies to the public in a timely manner and useful format.

ACKNOWLEDGMENTS

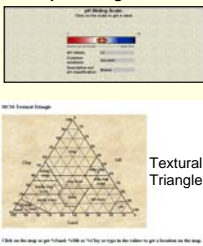
- This site is a multi-agency and multi-state collaborative effort tasked with continuing the development of science-based soil system information, customized to meet user needs for natural resource management.
- The University of Missouri's Center for Agricultural, Resource and Environmental Systems (CARES).
- Missouri Department of Natural Resources.
- USDA Natural Resources Conservation Service (for Texas and Missouri)

EDUCATIONAL RESOURCES

Soils Tutorial – Created to encourage students to study soil science.



pH Sliding Scale



Textural Triangle

Map Gallery – Allows the user to pick a county and print a pdf or png file.



MLRA Mapping Tool – Allows the user to click on any MLRA polygon and get a description of that MLRA area.



REPORT TOOLS

Soil Survey Report



Select State, County and report format

Soil Survey Report

Standard Thundersheet Results

Soil Survey Report

Customized Thundersheet Results

Soil Survey Report

County Legends

QUERY TOOLS

Pedon Query Retrieval



Pedon Retrieval Results

Pedon Fast Track



Allows a user to get to the ArcIMS and add a pedon quickly.

Pedon Statistical Summary

Pedon Spatial Distribution



PEDON EDITING TOOLS

Site Data Edit Form

Individual Pedon Description Form

Soil Property Graphing Tool – Allows users to make a graph of horizon depth vs % sand, silt, and clay, pH, CEC, and organic carbon content.



Epipedon Report

This report allows the soil scientist a visual comparison of epipedons and soil surface horizons by relative horizon depth and feature type.

Digital Munsell

Book – Allows soil scientists to assign Munsell colors to individual horizons by point and click.



Horizon Description Editing Tool

Check us out a <http://www.soilsurvey.org>

ARCIMS MAPPING & ANALYSIS TOOLS

ArcIMS Interface for creating a Farmland Impact Rating – This interface is used to identify many areas of interest, calculate the area for each polygon as well as assign a site assessment criteria for each area.



Areas are defined in the ArcIMS interface

Acres and other information are sent back to the form to be populated

ArcIMS Interface for Spatial Buffers – This allows the user to create buffers of any line weight or color combination from point, line and polygon features.



ArcIMS Interface for Creating Terraces – This interface allows the user to create a terrace for any location within a specified area.



ArcIMS Interface for creating Detailed Summary Areas – This interface is used to identify an area of interest, calculate the acreage of an area and save it to the database.



ArcIMS and Google map – This functionality allows the user to toggle between Google map and the ArcIMS interface.



ArcIMS Interface for Pedon Entry – Soil scientists use this interface to enter pedon coordinates or a legal description.



ArcIMS Interface for Pesticide Application – This interface is used to identify the soil leaching potential based on a selected area and pesticide.



Area of interest and selected pesticide



Shaded soil polygon results

Legend for shaded soil polygon

ArcIMS Interface for Pedon Data – Soil scientists use this interface to click on the map to add a pedon.



Soil Report Interface – This allows users to select an area and produce a soil report.



Custom Reports – Specific reports have been built into the ArcIMS Interface.



Soil Conservation



Soil Forensics

Soil Report Results Page