Creating multiple, disconnected, AOIs for use in Web Soil Survey

Many WSS customers wish to use the multiple, disconnected, AOI function but do not have access to the GIS software necessary to create the shape files. This document provides a process allowing customers to use simple web based browser tools to create their disconnected Web Soil Survey AOIs.

This process requires a Google account, either create or login to your Google account and proceed to <u>Google Maps</u>. Instructions for creating a Google account are at the end of this document. Click into the search bar:

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Getting around	P Directions		

Choose 'My maps'. This link appears only when logged into Google Maps. Notice in this account, multiple 'My maps' appear. This will become an issue to be aware of later in this process.

Choose to 'Create' a new map. A new map window appears. Zoom to the location you wish to create the AOI.



New tool bars are available for use:



The 'Add Line or Shape' icon will be used to draw the polygon.



After clicking on the 'add line icon' choose the 'Add line or shape' to draw a polygon.

Begin in one location and use the left mouse button to click the home point. Then navigate around the farm setting a point at each major corner. Each click of the left mouse button will set a point. In the image to the right, four clicks were created, but Google set 3 additional.

Double clicking on the home point will close the polygon and the parameter box will appear to name the AOI and provide a description and Save:



Continue these steps until all farms have been created as a series of polygons on Google Maps.



Then move to the next farm location and follow the same steps to add a second polygon. Populate the name and the description after closing the polygon:



Click on the three dots to the right of 'Untitled Layer' to rename, notice both polygons are in the renamed "Multiple Ranch AOI":



Multiple AOI Demonstration April 28, 2015

Untitled map April 28, 2015

ranch_multiple_test April 28, 2015

Untitled map March 29, 2015

My Saved Places July 25, 2010

Exporting the map depends on how many maps appear. Choose the specific map to export:		Export to KML	
		Entire map	
		Multiple Ranch AOI Untitled layer	k KML
Multiple AOI Demonstration This is a demonstration on how to create multiple AOIs using Google Maps with the intent of importing shape files into WSS All changes saved in Drive	Villoune A	If 'Entire chosen, there is 'map' te	e map' is make sure only one l
Add layer 1 Share Multiple Ranch AOI Todividual styles	Export to KML	Web So allow th only usable online). Learn more	il Survey w ie import c e shape file

е KML vill of e.

The Firefox browser will prompt to save, in this instance to the Downloads folder on the hard drive. Verify where the browser saves the KMZ file. Keyhole Markup Language (KML) is the actual files

Cancel

Download

🎘 Ranch 2

Opening Multiple AOI Demonstration.kmz	containing the map data. The KMZ file is a
You have chosen to open:	zipped file containing the KML files.
Multiple AOI Demonstration.kmz	
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OK Cancel	Open the folder and verify the KMZ file is
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Converting KMZ to Shape File

The next step will convert the KMZ file to a shape file. A simple google search for 'KMZ to shape file online converter' will find several free web browsers that will convert files. This instruction will use MyGeoData located at http://converter.mygeodata.eu/.



Then click on the 'Submit Query' button. The web site will

process the KMZ file and when finished, the 'Overview Map' will appear. Zoom in to locate the sites and confirm the polygons appear as designed:



Scroll through the page to see all options before converting the data.

Submit Query

The Target vector format, by default, is an ESRI Shapefile. This should remain. The Layer creation, Environment variables, and Output coordinate system can be



populated as shown, but not necessary.

Check datasets details bellow to edit parameters and perform vario Share, Publish, CRS edit, Rename attributes, Metadata edit, Filter, Im Convert now!	us operations on dataset (Download, Delete, age export_Layer-style)	Choose 'Convert Now' and the conversion process will begin, and, warnings may appear:	
	Conversion finished!		
The warnings will not interfere with the shape file conversion.	Download your converted	l data	
	Result If the conversion was successful, you should be able to download the result (as a ZIP file). If any problem occurs during the conversion, you will see a report log listed below.		
	Some possible problems occured For more information see format specifications for your <u>vector</u> or <u>raster</u> data formats relating to following message:		
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	Delete result after download		
Choose to 'Download result".	Download result OK		

Like many free ware sites, this one has a waiting period to allow you to view the advertisers:



To show a different methods browsers prompt to save, in this screen shot, Internet Explorer is used. Save the file and remember its location:



The downloads folder now contains the files: Ranchmygeodata..zip that is being saved for this project, the KMZ file created from Google Maps, and the mygeodata.zip saved from a previous demonstration:

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w Tools Help				
Open E-mail New folder				
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aces	💐 mygeodata.zip	4/28/2015 2:09 PM	WinZip File	

Importing AOI into Web Soil Survey:

Open <u>Web Soil Survey</u> or http://websoilsurvey.nrcs.usda.gov/app/:



Choose the 'Start WSS' big green button :

Then, choose to import the AOI





Then choose to "Create AOI from a Zipped Shapefile". Browse to find the folder containing the zipped shape files.



And the final product:



This process has successfully created multiple AOIs for import into WSS without the need for GIS software. The soil map can be viewed for the multiple field ranch:



And reports can be created for the variety of soil properties and soil interpretations:

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Inigated Capability Subclass	Map unit	Map unit name	Rating	Acres in	Percent of
National Commodity Crop Productivity Index v2	symbol	Takin silala an anasimallu da adad	All	A01	A01
NH Forest Soil Group	2266	Tobin silt loam, occasionally flooded	All areas are prime tarmiand	412.0	11.1%
Nonirrigated Capability Class	3350	Evalgo day loam, 3 to 7 percent slopes	importance	424.8	11.5%
Nonirrigated Capability Subclass	3391	Lancaster loam, 3 to 7 percent slopes	All areas are prime farmland	314.0	8.5%
Soil Taxonomy Classification	3396	Lancaster-Hedville complex, 3 to 20 percent	Not prime farmland	1,450.8	39.2%
Land Management (2) (2)	3401	slopes	All areas are prime farmland	39.0	1.0%

Area of Interes (AOI)	t Soil Soil Data Download Shopping Cart (Free)
Download Soils	Data for
Your AOI (SSUR	GO)
General Informati	ion
Link	Description of Soil Survey Geographic (SSURGO) Database
Download Contents	Tabular data, spatial data (if available), template database, and FGDC metadata
Spatial Data Format	ESRI Shapefile, Geographic WGS84
Soils Data Downlo	ad Package for your AOI (SSURGO)
AOI Name Multiple-AOI-	Demonstration-Multiple-Ranch-AOI
AOI Location Saline Count	y, Kansas
Soil Survey Area	as
Saline Cou	unty, Kansas (KS169)
Are	a in AOI 3,699 acres
Dat	a Availability Tabular and Spatial, complete
Ver	sion Survey Area: Version 11, Sep 3, 2014 Tabular: Version 10, Sep 3, 2014 Spatial: Version 3, Dec 13, 2013

And, the data for the multiple polygons AOI can be downloaded.

Currently, the Custom Soil Resource Report includes the map units combined for all disconnected AOIs. Future WSS updates will provide separate reports for each disconnected AOI.

Creating a Google account

Enter <u>www.google.com</u> into an internet browser. Once on the Google page, click on blue "Sign In" button in the upper right hand corner. Then enter an email address and choose 'Create an account'.

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