

Downloading USDA Geospatial Data

1. Go to the USDA Geospatial site - <http://datagateway.nrcs.usda.gov/>

2. On the top menu select
"Get Data".

(The files data/files to be downloaded are Roads, Sections, Soils, Townships, Water, Clu, and Boundary's.)

Note: No NAIPS.

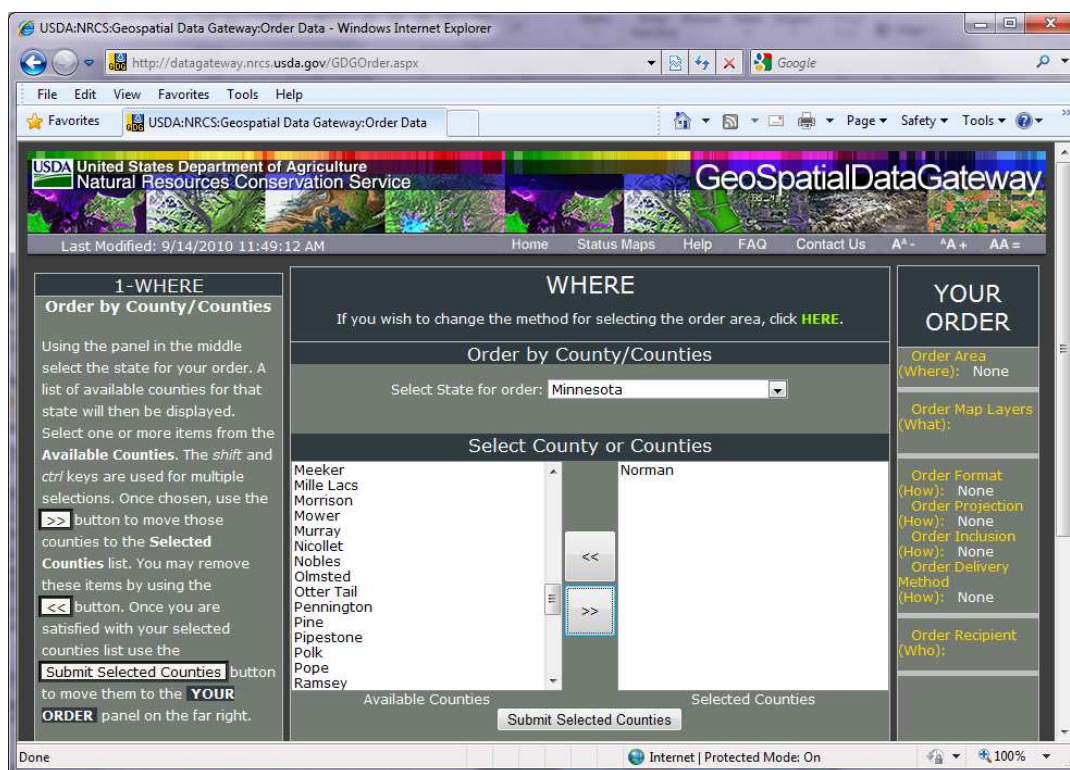
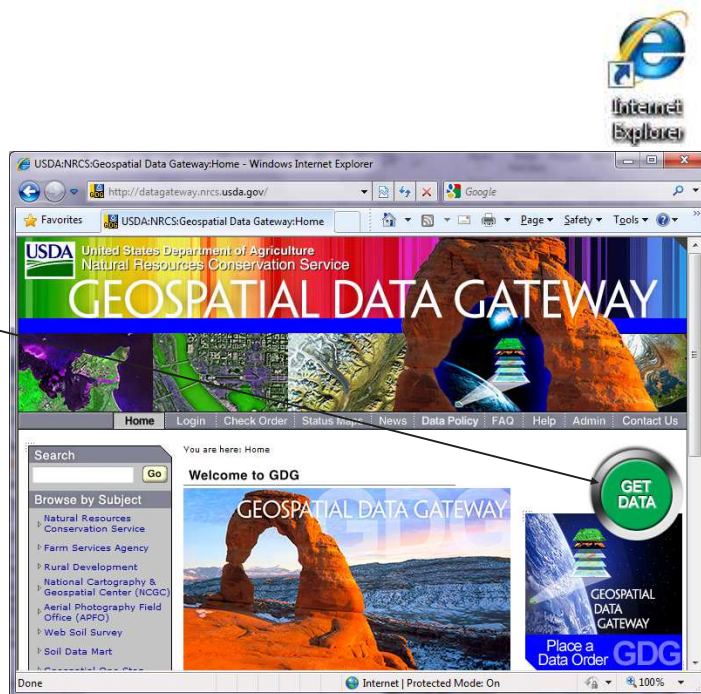
3. Select the "State" from the drop down

4. Select the "County" (one at a time)

5. Click on the Button to the "Right" labeled
 "Add Counties to the Selected List"

Note: can select multiple counties so that it is not necessary to repeat this procedure. Limit to FTP size of request 8 GB of Data.

6. Click "Submit Selected Counties".

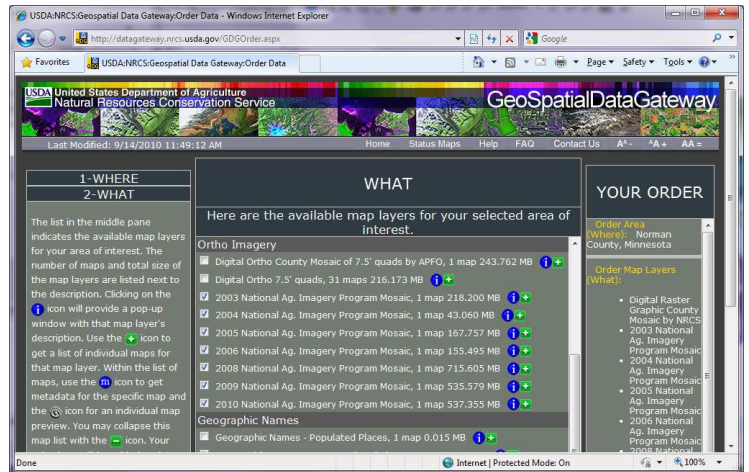


Downloading USDA Geospatial Data

7. In the “What” to download window, check the items listed below & to the right.

— Suggested Download Items —

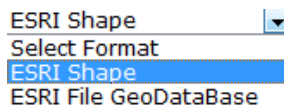
- Public Land Survey System (PLSS) Townships
- Public Land Survey System (PLSS) Sections
- National Elevation Dataset 10 Meter
- Also download Quadrangle Index 1:24,000
- National Elevation Dataset 30 Meter (60 meter AK)
- Geographic Names - Populated Places
- Geographic Names - Non-Populated Places
- NRCS Counties by State
- Digital Ortho County Mosaic of 7.5' quads by NRCS
- Soil Survey Spatial and Tabular Data (SSURGO 2.2)
- Digital Raster Graphic County Mosaic by NRCS
- TIGER 2010 Primary and Secondary Roads
- TIGER 2010 Streets



8. Once checked, click “Continue” button.

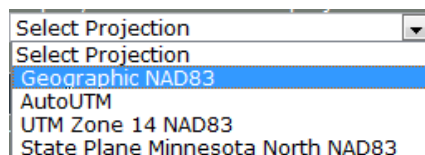
9. In the “How” window select the “FTP” button.

It may ask about File Type

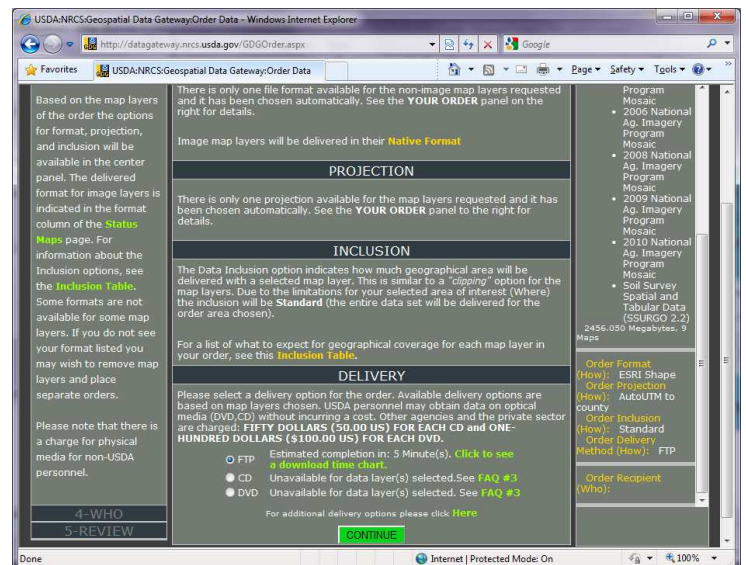


It may ask about projection

- Geographic NAD 83 or WGS 84



10. Click “Continue” button.



Downloading USDA Geospatial Data

11. Type in the required fields. A download link will be emailed to the address provided. This is a government site, and the address provided **will not be used for spam messages.**
12. Recommended – Put a check mark in the “Save Contact Data” box on the Left side of the screen
13. Click the “Continue” button.

GeoSpatialDataGateway

WHO

A valid email address must be entered to receive a completion email indicating that your order is finished. A * indicates a required field.

* Email:

[CONTINUE](#)

14. Review order and click “Place Order”.

USDA-NRCS GeoSpatial Data Gateway/Order Data

Natural Resources Conservation Service

Last Modified: 9/14/2010 11:49:12 AM

Home Status Maps Help FAQ Contact Us A+ A- A=

1-WHERE
2-WHAT
3-HOW
4-WHO
5-REVIEW

Please check over the details of your order. If you wish to change anything, use this left control panel to traverse the steps to make corrections. When you are ready press the button below to place your order.

Estimated time to complete your order: **5 Hour(s):52 Minute(s)**

Place your order with this button: [PLACE ORDER](#)

REVIEW

Order Area (Where):	Norman County, Minnesota
Order Map Layers(What):	• Quadrangle Index 1:12,000, 1 map 0.035 MB
Order Delivery Specifics (How):	Format: ESRI Shape Projection: Geographic NAD83 Delivery: FTP Inclusion: Standard
Final Order Size:	0.035 megabytes

15. Option 1 – Wait a 10 seconds to a minute and click on the “**Check Order**” link
16. Option 2 – Close the window and wait for the Geospatial email. This can take anywhere from 20 seconds to 3 days for all the items of the order to be processed and bundled for download.

Last Modified: 9/14/2010 11:49:12 AM

Home Status Maps Help FAQ Contact Us A+ A- A=

1-WHERE
2-WHAT
3-HOW
4-WHO
5-REVIEW
FINISHED

Your order has been placed. You may use this left navigation control to change any of the values of your last order to create a new one. Please note that you cannot place duplicate orders.

ORDER GENERATED

Thank You for using the Geospatial Data Gateway

Order #:1464803 has been generated. Please note this number, as it will be needed to reference your order. You will receive an e-mail notification that your order is complete in as little as: **5 Hour(s):52 Minute(s)**. This time is a minimum and is dependent on order volume and system maintenance. It is not exact. Using the **Check Order** function allows download of map layers completed before notification is sent for multi-item orders. As a matter of etiquette, please download this order **BEFORE** placing any more orders. **DO NOT** place several orders in sequence. This way, other users will have an opportunity to place and download orders.

Your order will be deleted **4 DAYS** after the confirmation email has been sent to the email address that was given with your order.

Downloading USDA Geospatial Data



17. Check Order will bring up a window. Click the "GO" button after typing your email address.

18. Clicking on the "Success (Download Now)" button (Link), will go directly to a FTP download link from the USDA site. You may be limited to the number of downloads you can do at a time due to file type, file size and connection speed.

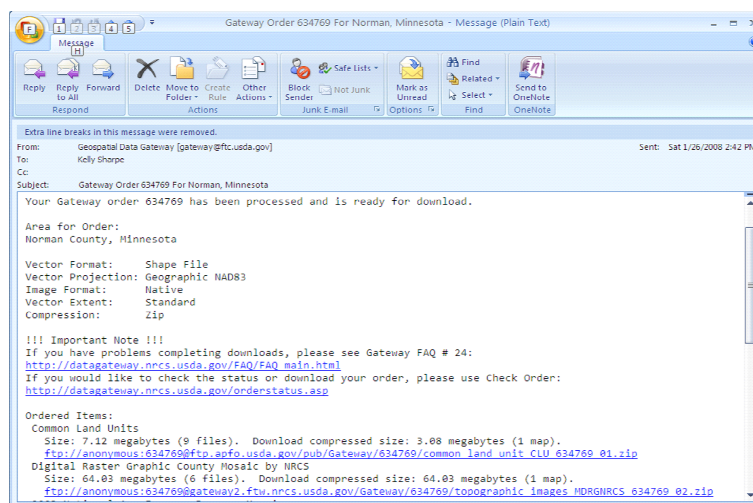
19. A "Save" or "Save As" option will appear. Choose 'Save As'. (see below)

20. If you wait for the "email" to arrive, Click the "[ftp://download link](#)"

21. A "Save" or "Save As" option will appear. Choose 'Save As'. (see below)

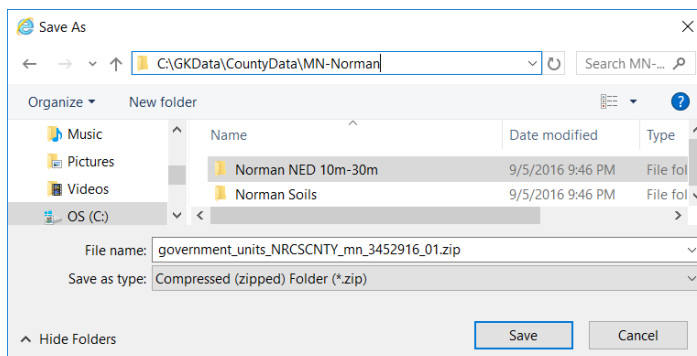
Order	Date Ordered	Ordered Area	Status
1464803	Ordered: 1/27/2011 4:51:09 PM	Quick Order: Norman, Minnesota	

Item	Description	Size(Disk/Zip)	Count (Map/File)	Status
1464803_01 (10)	Quadrangle Index 1:12,000	0.04 MB/0.01 MB	1/7	Success (Download Now)



Note: Example using Internet Explorer 11. choose "SAVE AS" and you can place the data in "GKData/CountyData" location as shown.

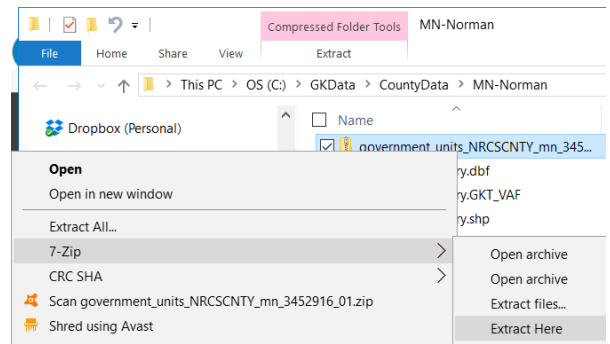
22. Repeat this process till all the data is downloaded.



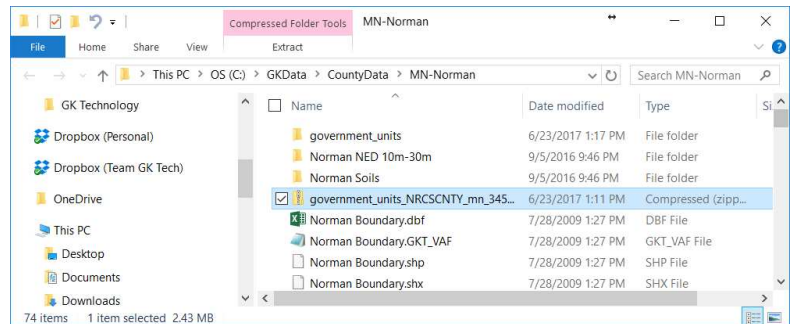
Downloading USDA Geospatial Data

23. "Right click" on zipped file and "7-Zip" and "Extract Here"

Note: Suggest using "7-Zip" to unzip files, or use what you currently have to unzip the files.

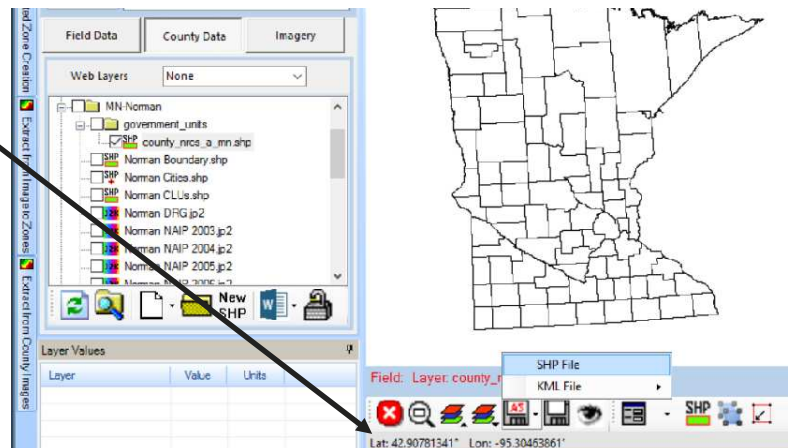


24. Once the files are unzipped save the files in you GKData/CountyData/ correct county file.



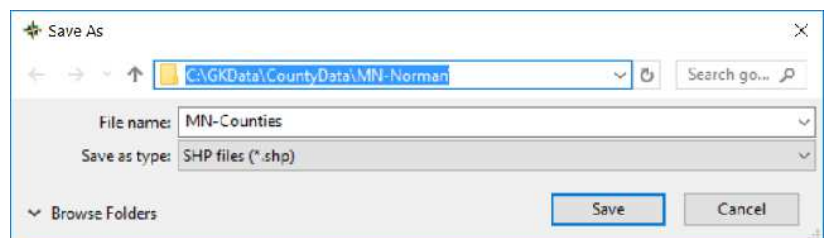
25. Make sure to save the data into the right UTM zone by looking at the "Lat" and "Lon" numbers at the bottom of the screen.

Note: if values are not in Lat—Lon, close Map Window & go to "Settings" and under "User Interface 2" change "Cursor Coordinate Units", also look at the "UTM" tab map - note Lat-Lon values.



26. Do a "Save As" and move to the correct level you want the data at and click "Save".

Note: By "Save or Save As" on any SHP file that is or may be in a UTM projection system. This Save process will convert the data to a LAT-LON—WGS84 projection.

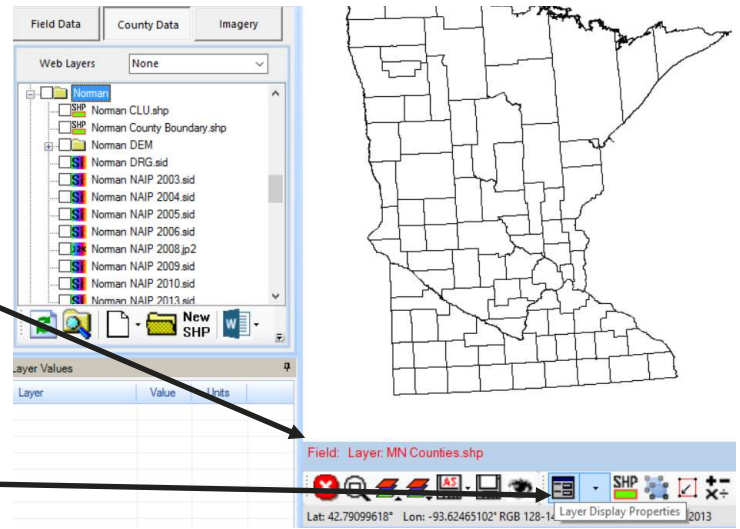


Downloading USDA Geospatial Data

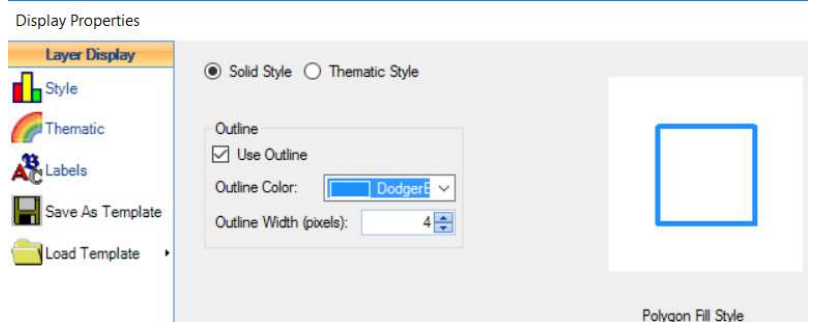
27. Turn on the newly created SHP file.
Example is MN-Counties.

SEE ACTIVE LAYER

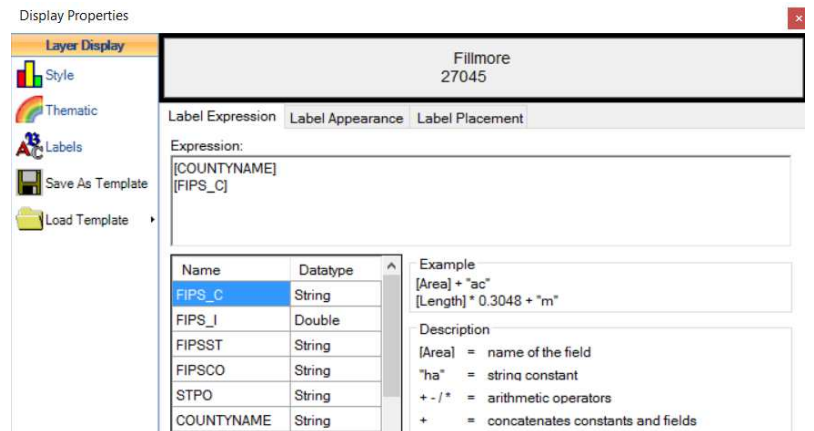
28. Go down to the “Layer Display Properties” on the bottom tool bar.



29. Click on the “Style” button and choose the color and line weight for the counties.

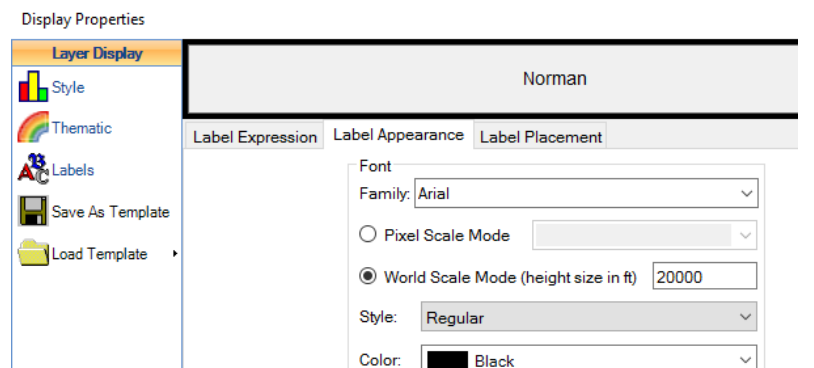


30. Click on the Labels button and select the “COUNTYNAME” and click “Enter” to get the cursor to the second line and choose the “FIPS_C” (should look similar to the example on the right)



31. Next click on the Label Appearance tab and select the Font, Pixel Scale Mode, Style and Color of the label.

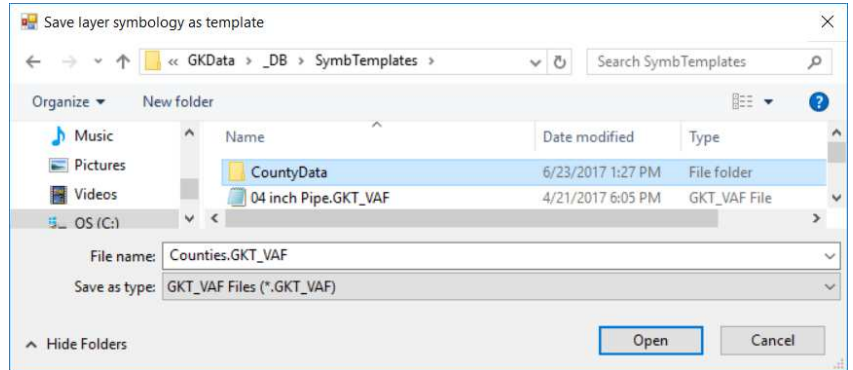
Note you may want to look at “Label Placement” options also.



Downloading USDA Geospatial Data

32. Once the color and labels are set, suggest "Save as Template" in the "Display" window.

NOTE: In the "Save" function you can create folders. In this example we save into a "CountyData" folder.



NOTE: GK has already created all of these templates, if you do not have them, contact us and we will gladly share.

33. It is recommended to rename everything and to create a file structure similar to the example listed below. This is done by dragging and dropping files in ADMS (once all the files are unzipped).

Color scheme for DRAWING layers

CLU – 1 pt lines – LightSkyBlue—300'

Counties – 3 pt lines - Yellow—15,000'

Cities—2 pixel—Black / Red—3,000'

Places—2 pixel—Black / Red —300'

Railroads—1 pt lines—Black

Roads Minor – 1 pt lines - Red

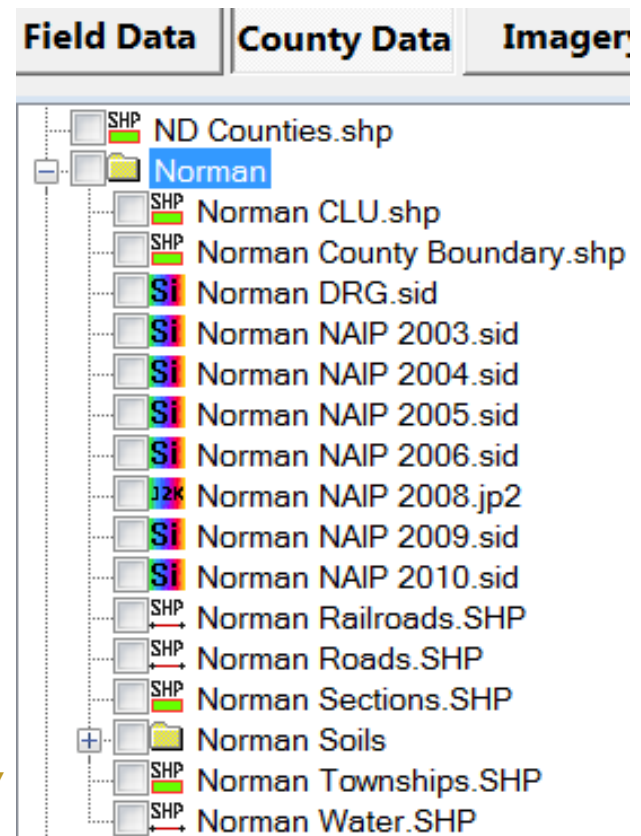
Roads Mjr—3 pt lines—Red

Sections – 1 pt lines – Lt. Gray—1,500'

Soils – 1 pt lines - Black—300'

Townships – 2 pt lines - Yellow - 4,500'

Water Lines – 1 pt lines – Blue



Downloading USDA Geospatial Data

Note: FIPS codes are needed when downloading NAIP data to identify the correct counties that are wanted.

FIPS (Fed Information Processing Standardisation)

1. Go to the web site.

<http://datagateway.nrcs.usda.gov>

2. Select the NAIP Download tab.

28. Select the "[county FIPS](#)" link in blue.

3. Select the "State" that is going to be downloaded from the download tab.

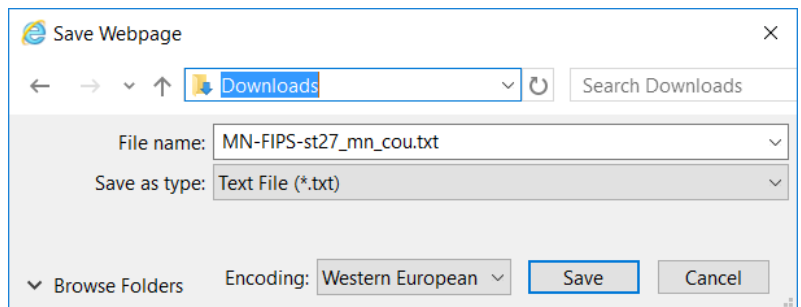
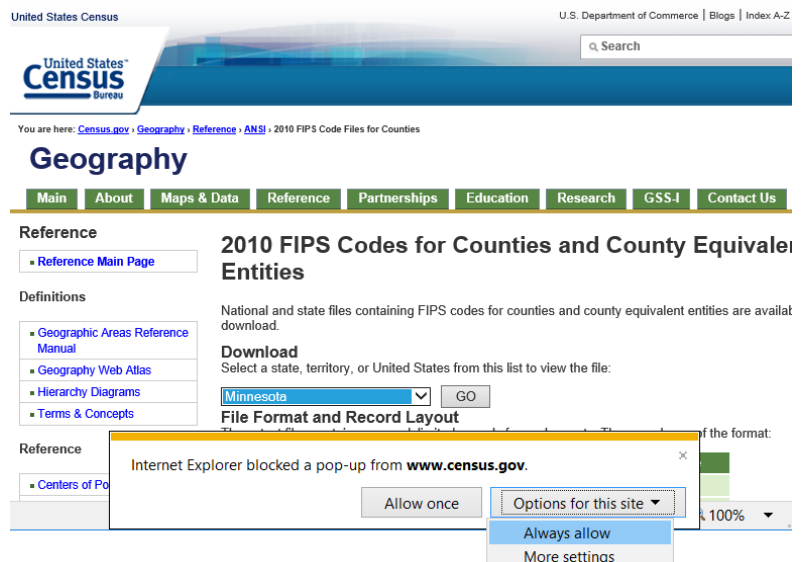
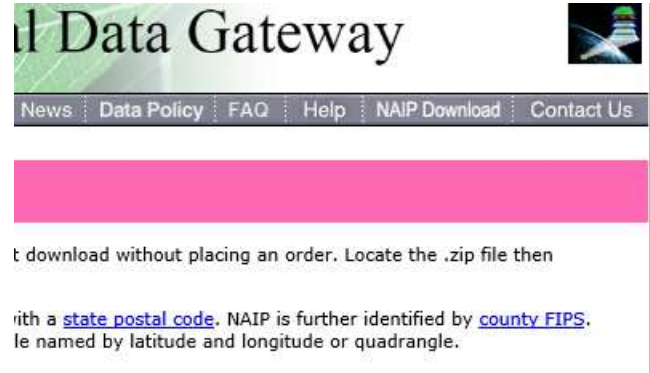
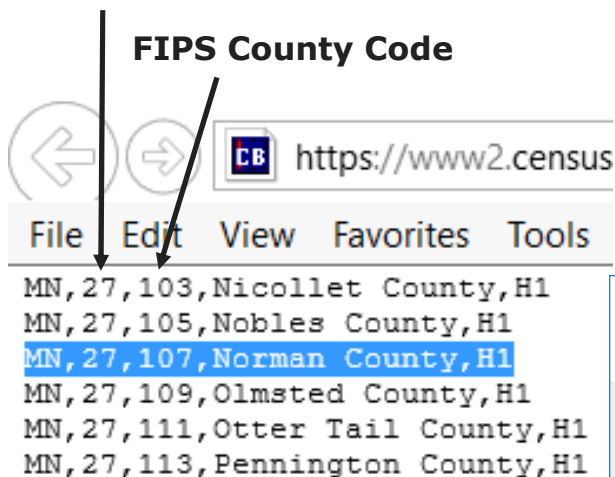
Note: write down the FIPS code for the Counties that are downloading

or

Click "File" & "Save As" a TXT file for later use, please note location and name of the file.

FIPS State Code

FIPS County Code



Downloading USDA Geospatial Data

FSA NAIP (National Ag Imagery Program)

1. to download NAIPs go to
<http://datagateway.nrcs.usda.gov>

2. Under the "I Want To..." area

Click the "**NAIP Download**" link.

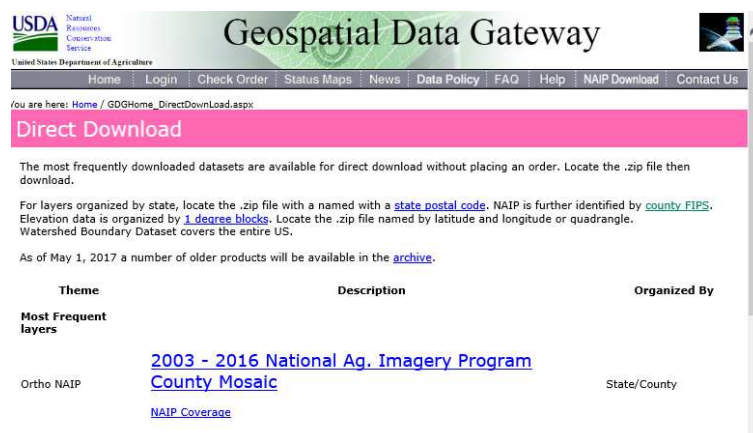


3. Select "**2003-2016 National Ag. Imagery program County Mosaic**" link.

4. Select the year of the NAIPs that are to be downloaded.

5. Select the State NAIP files.

Note: not every year will have all States. NAIP is flown on a 2 to 3 year cycle.



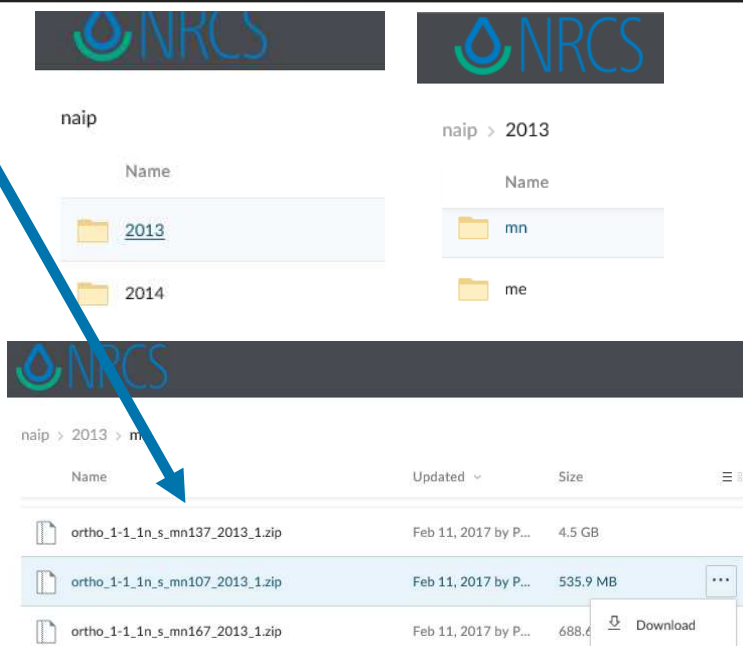
Note: the FIPS # location.

6. Move the mouse to the right to the "More Options" button.

Click to "Download" & "Save As" button to start the download.

Note: Also, clicking the header will resort the column ascending/descending.

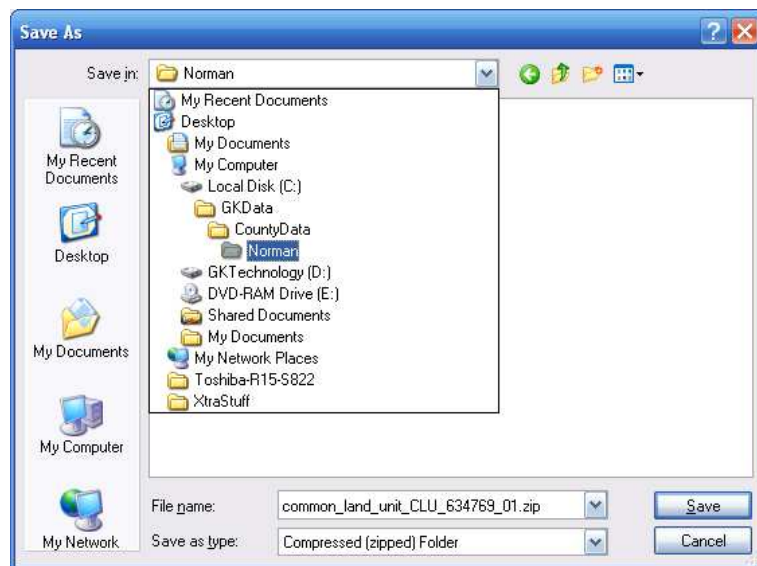
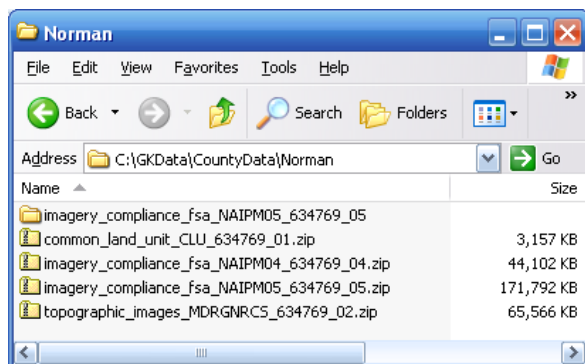
Download may take couple minutes to a couple hours depending on internet speed.



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7. Save the files into the C:\GKData\CountyData\"Name of County" folder as shown to the right.

8. All of the downloads are .zip files. They must be unzipped or extracted.



9. Once files are unzipped, open the folder and "Cut" .sid file and move up to the "CountyName" folder and "Paste"

10. Rename the files to the following file structure

CountyName NAIP year.sid

Example - Norman NAIP 2003.sid

Note: suggest turning the file on / off in ADMS. Confirm that all the data lines up with TWP / SEC / NAIP files. Look at the "Lat / Lon" values to confirm you are correct.

Final Note: If all looks good, the original ZIP folders and UNZIPPED folders can be deleted.

