

How to create practices with Toolkit and change the symbology.

This was written using Toolkit Service Pack 1.

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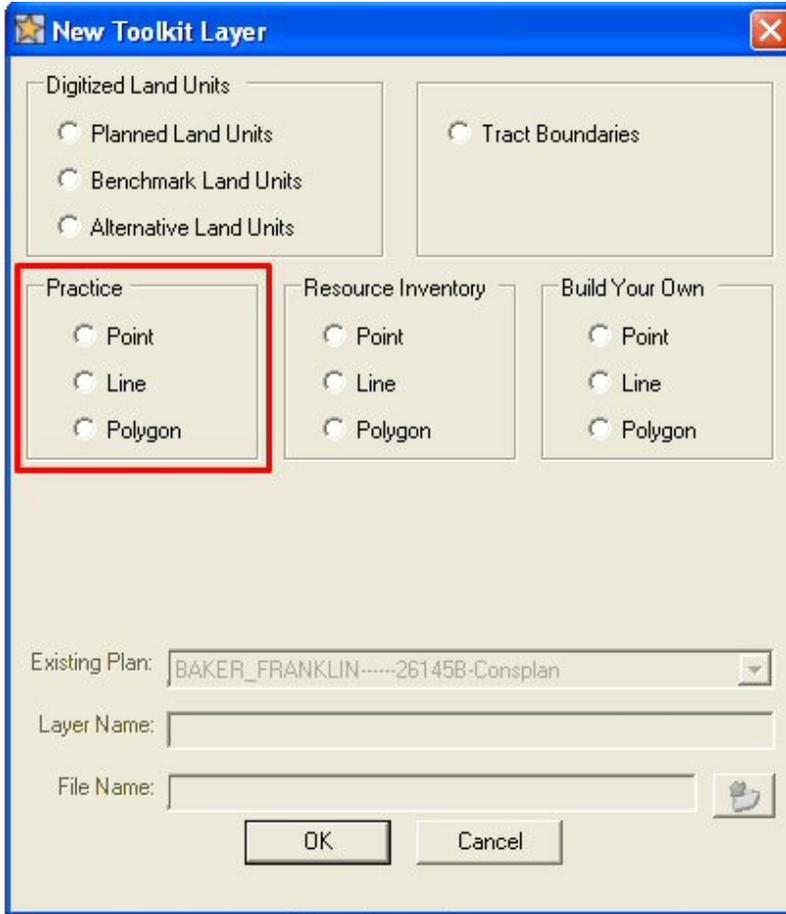
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Creating Practice Layers

(Note: Please attribute all of your fields in your Planned Land Units layer **prior** to adding any practices. This will make the attributing of the practices easier.)

Click on the Create New Layer. 

Choose one of the options under Practice: Point, Line or Polygon.



The screenshot shows the 'New Toolkit Layer' dialog box. It has a blue title bar with a star icon and a close button. The main area is divided into several sections:

- Digitized Land Units:** Contains three radio buttons: 'Planned Land Units', 'Benchmark Land Units', and 'Alternative Land Units'.
- Tract Boundaries:** Contains one radio button: 'Tract Boundaries'.
- Practice:** This section is highlighted with a red border. It contains three radio buttons: 'Point', 'Line', and 'Polygon'.
- Resource Inventory:** Contains three radio buttons: 'Point', 'Line', and 'Polygon'.
- Build Your Own:** Contains three radio buttons: 'Point', 'Line', and 'Polygon'.

At the bottom, there are three text input fields:

- Existing Plan:** A dropdown menu showing 'BAKER_FRANKLIN-----26145B-Consplan'.
- Layer Name:** An empty text box.
- File Name:** An empty text box with a folder icon to its right.

At the very bottom are 'OK' and 'Cancel' buttons.

In the first example, we'll use Polygon to add some CRP Fields.

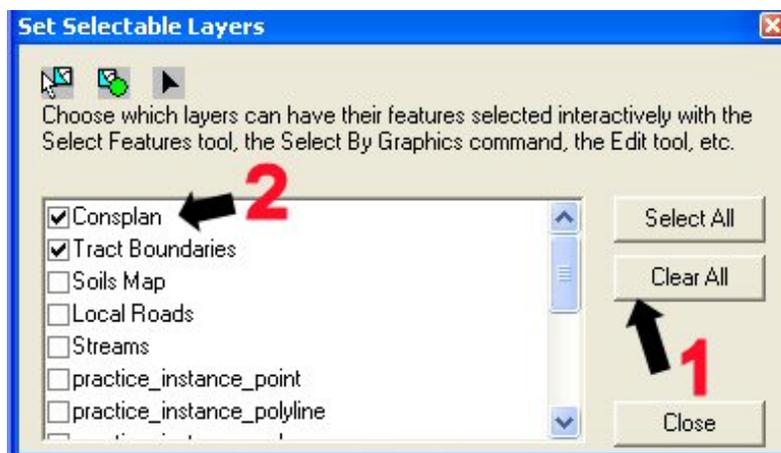
The Practices Polygons Editor toolbar will show up and Practices (polygons) will be added to the data frame. The Practices (polygons) should also be shown in the target layer.

Adding Practices:

Adding a Polygons Practice (fields):

ArcMap will allow you to select any feature that is on the map—not just the active one like in ArcView. To select only the fields from the planned

land units layer, you need to hit the Set Selectable Layers button.  A new window will pop-up will appear that allows you to choose which layers you can select features from.



1. Click on the Clear All button to clear all of the selected layers.
2. Click on the consplan/planned land units layer.
3. Click the close button.

Select the field(s) that the practice will occur on from the Planned Land

Units layer by using the Select Features tool . If you want to select multiple fields, hold down the shift key and select them.

Once that is done, go up to Edit, under the File Menu, and choose **Copy**. Then go back to that menu, and choose **Paste**. This will copy the field(s) from the Planned Land Units into the Practices (polygons) layer. Save you edits under the Editor toolbar.

Adding in a field (polygon) from GPS data.

DNRGarmin 4.4.2 works with ArcMap. You will have to use DNRGarmin to get the GPS points to the stage where they are a shapefile. Once that is done, copy the shapefile and the backup text file from DNRGarmin into the GPS_Data folder within that customer's folder. This way, anyone that checks out this landowner will have access to the GPS data.

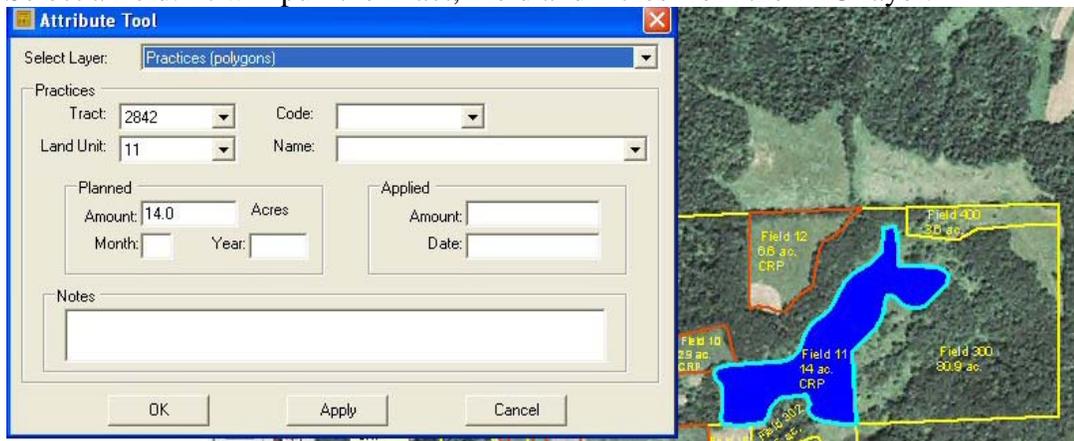
Add the GPS polygon by clicking on the Add Data button  and navigating to the GPS_Data folder and add the shapefile.

Make sure that you are editing the Practices (polygons) layer if you are not already doing so, by clicking on the pencil and choosing the Practices(polygons) layer. Click on the GPS polygon(s) and then go to **Edit** under the File Menu and click on **Copy**. And then click on **Paste**.

Once you have pasted them into the Practices (polygons) layer, they will change to the color that the Practices (polygons) layer is in within the Data Frame.

You can then label them with the Attribute Tool.
Select the Practices Polygons from the drop-down list on the Attribute Tool.

Select a field. It will pull the Tract, Field and Acres from the PLU layer.



Populate the Month, Year, and then choose either the Practice Code or Practice Name. Click Apply when you have all of the fields filled in and then click on Apply, and then select the next field. Click **OK** when you are all done attributing the fields.

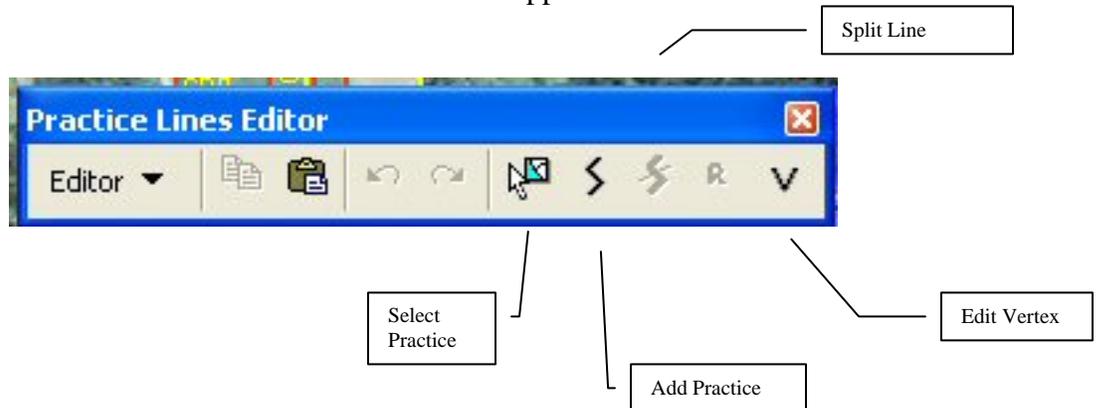
If you get something like the following message, it means that there has already been an instance of that practice scheduled in that field within the Practice Schedule.



You will have to delete the duplicate practice from the Practice Schedule. TK support is planning on adding the ability to use the “Link to tabular” process that we use in linking tabular data to the planned land units to the practices layer in a future build.

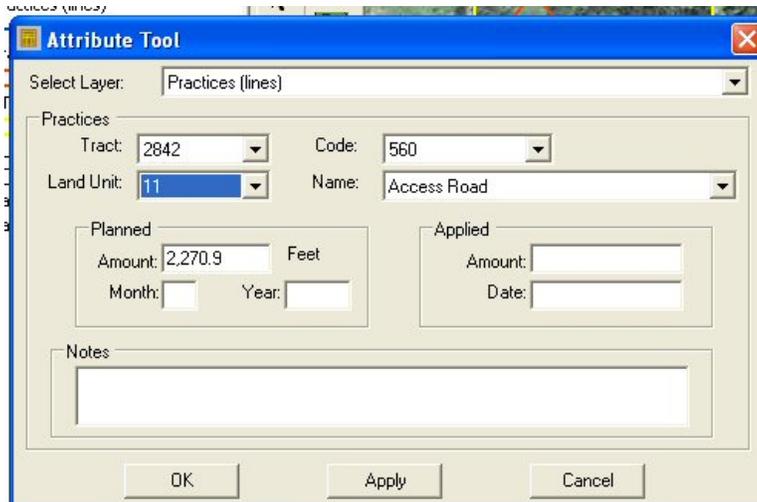
Adding a Line Practice:

Click on the Create New Layer .
 Choose the Line option under Practice.
 The Practices lines Editor Toolbar will appear.



Click on the Add Practice and digitize all of the linear practices that will be in the plan. (Digitize the grassed waterways down slope).

Once you're done with adding the lines, stop editing and save your edits on the Toolbar. Attribute the lines with the Attribute tool. In this instance, we have the access road selected. Under the Planned Amount, it shows how long of a line we digitized on the map. Change this amount to reflect what will go into the plan. What's critical here is that this amount is what is going into the plan, not whether you can digitize the exact amount on the map. The line is on the map for reference only. So, in this case, the plan calls for 2,200'. We'll change the Planned Amount in that box to reflect that.



Adding in Point Practices:

Same process as before, the toolbar is just slightly different.



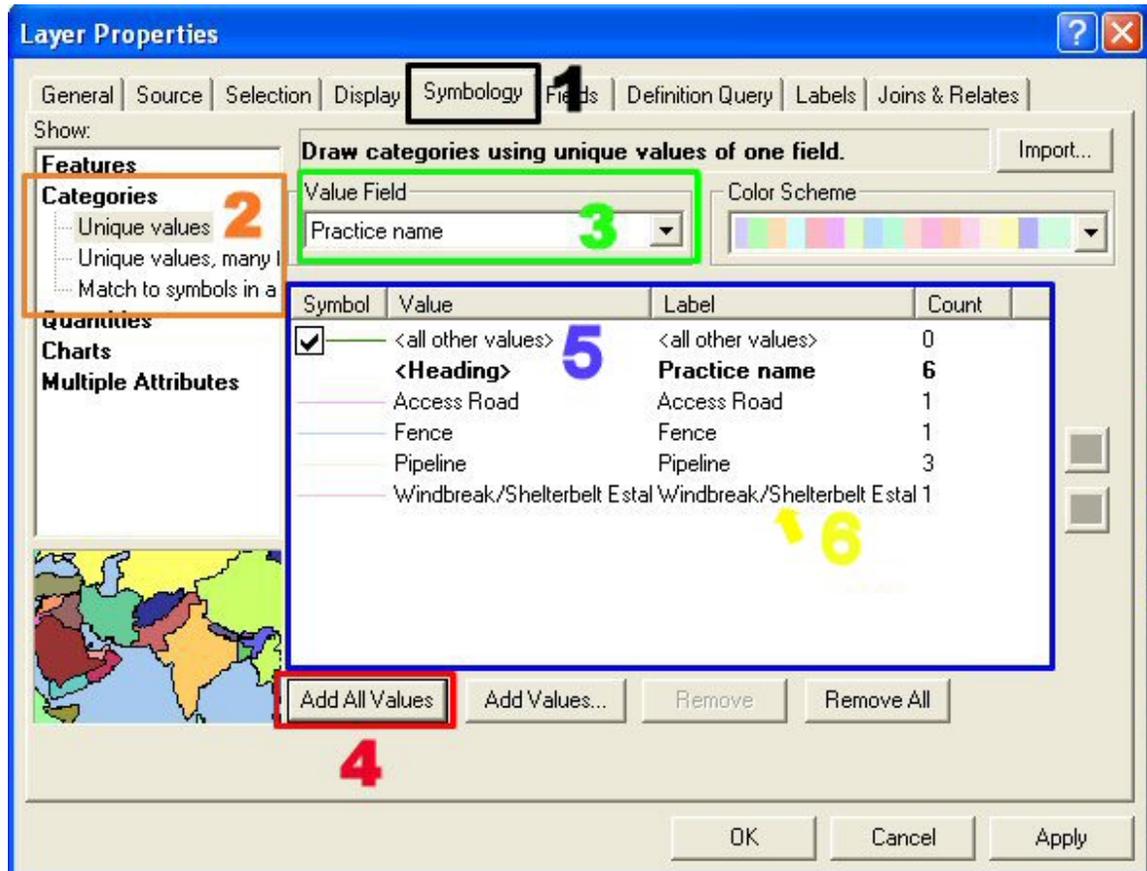
Click on the Add Practice and digitize all of the point practices that will be in the plan. Once you're done with adding the points, stop editing and save your edits on the Toolbar.

Attributing the points is also the same process

Changing the layer symbology.

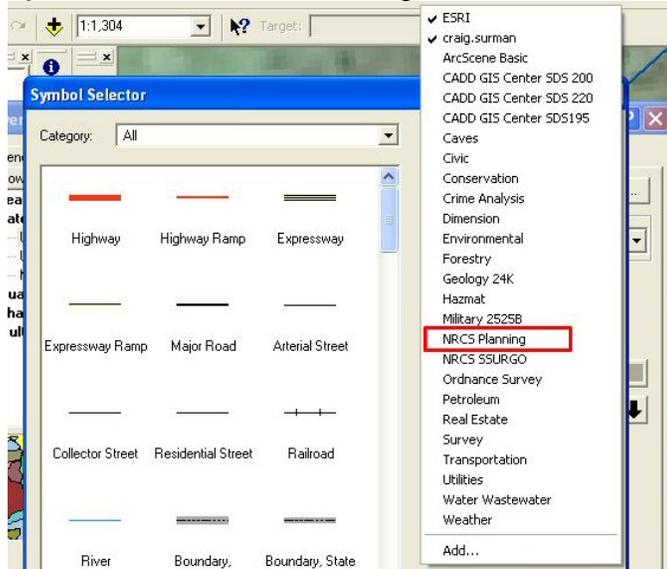
Right-click on the layer that you want to change the symbology on. Then choose Properties.

The Layer Properties window will appear. We are going to give different symbols to each line practice in this example.



1. Click on the Symbology Tab (if it's not chosen already).
2. Click on Categories in the Show window.
3. Click on the down-arrow in the Value Field window and choose Practice Name (it's one of the last ones).
4. Click on the Add All Values button to add all of the practices that are attributed.
5. These are all of the practices that are entered. Uncheck the box to the left of the <all other values> entry to remove it from the legend. If you have any values that show up listed as Null, these have not been attributed. Please attribute these.
6. If you want to change to default label, click in the label field for that line and type in what you'd like the label to display as. In this instance, we will change the Windbreak/Shelterbelt Establishment to Windbreak later on.

Double-click on the line to the left of the practice name under the Symbol column. You will have to add the NRCS Planning Symbol set. To do this, click on the **More Symbols** button in the lower right and then check the line that says NRCS Planning.



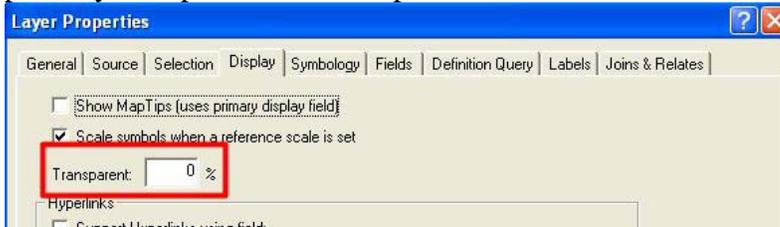
This will add the NRCS Planning symbols to the bottom of the list. Scroll down through the list and choose the appropriate symbol for each practice that you have. ****There is NOT a symbol for grassed waterways. We've been using the one that's listed under Planned Irrigation (it's a dashed line with black arrowheads pointing down slope—We change the color from black lines to light blue so that it shows up better on the map).**

Once you're done with changing all of the symbols, your legend will look something like this:

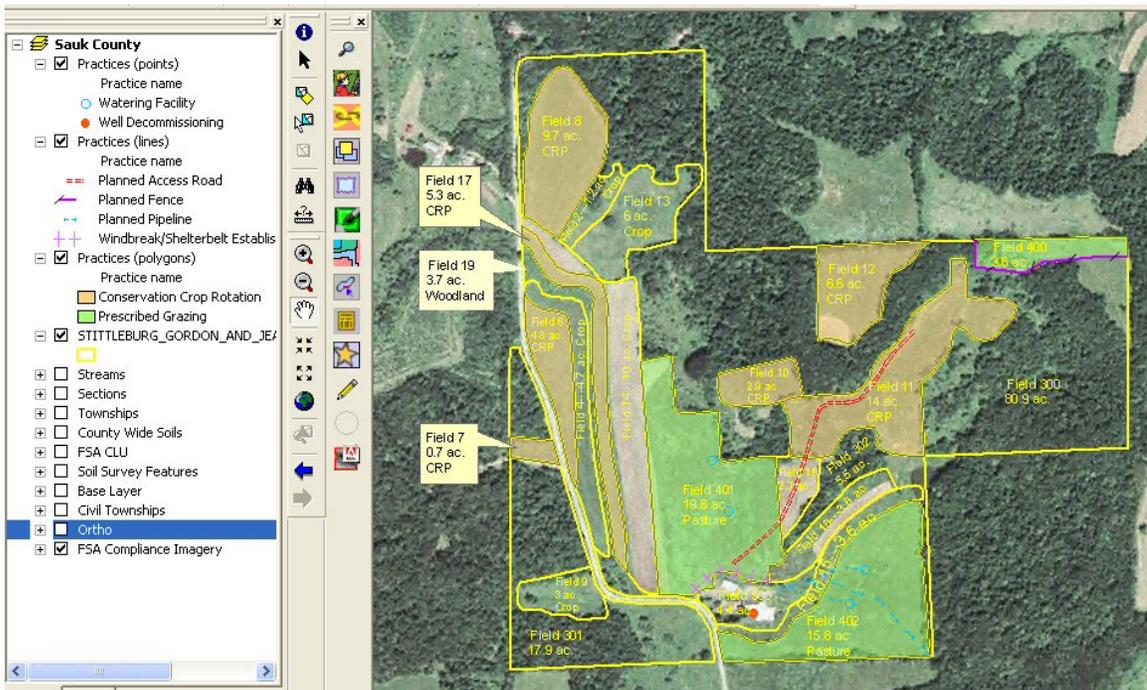
Symbol	Value	Label	Count
	<all other values>	<all other values>	1
	<Heading>	Practice name	4
	Access Road	Access Road	1
	Fence	Fence	1
	Pipeline	Pipeline	1
	Windbreak/Shelterbelt Estal Windbreak	Windbreak	1

Continue on with any other practices you have (points, polygons, etc...). For polygons, you can do a solid fill on them, and then make them transparent so that you can see the imagery underneath. To do this, right-click on the layer, choose Properties, and then click on the Display Tab.

Type in 50 for the transparency percentage, and then click ok. This layer will be partially transparent on the map.

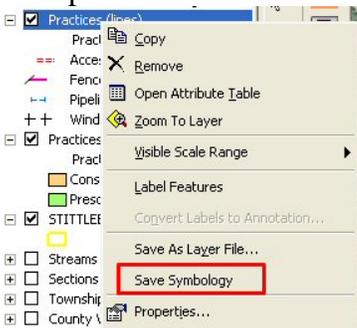


Once you are done, your map will look something like this:



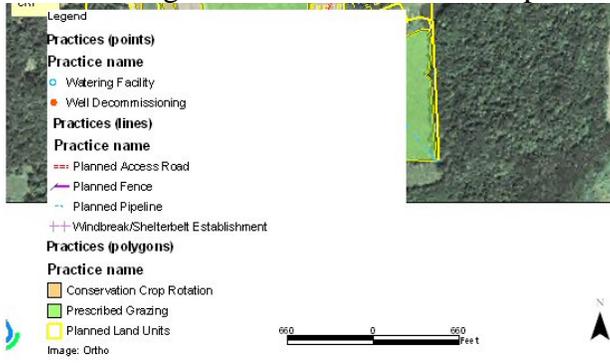
Saving Layer Symbology

Make sure that you save your symbology once you are all done by right-clicking on EACH practice layer that you've changed and choose the "Save Symbology" option.

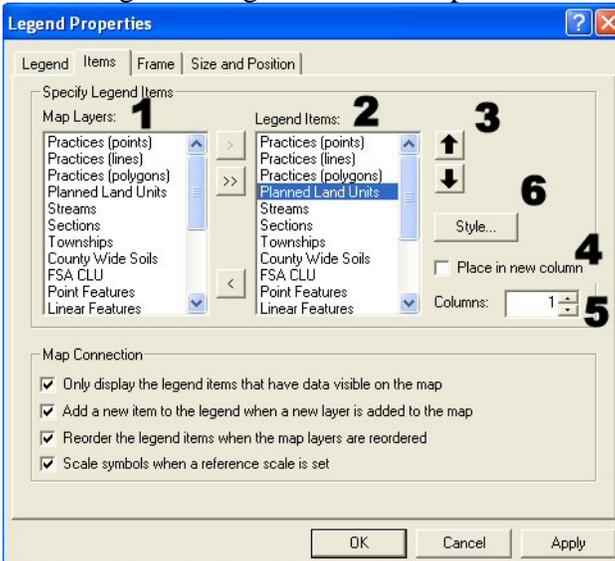


Changing the legend in your layout.

The legend will pose a small problem at first. It will be really tall vertically and we need to change it so that it doesn't take up so much space on the map:

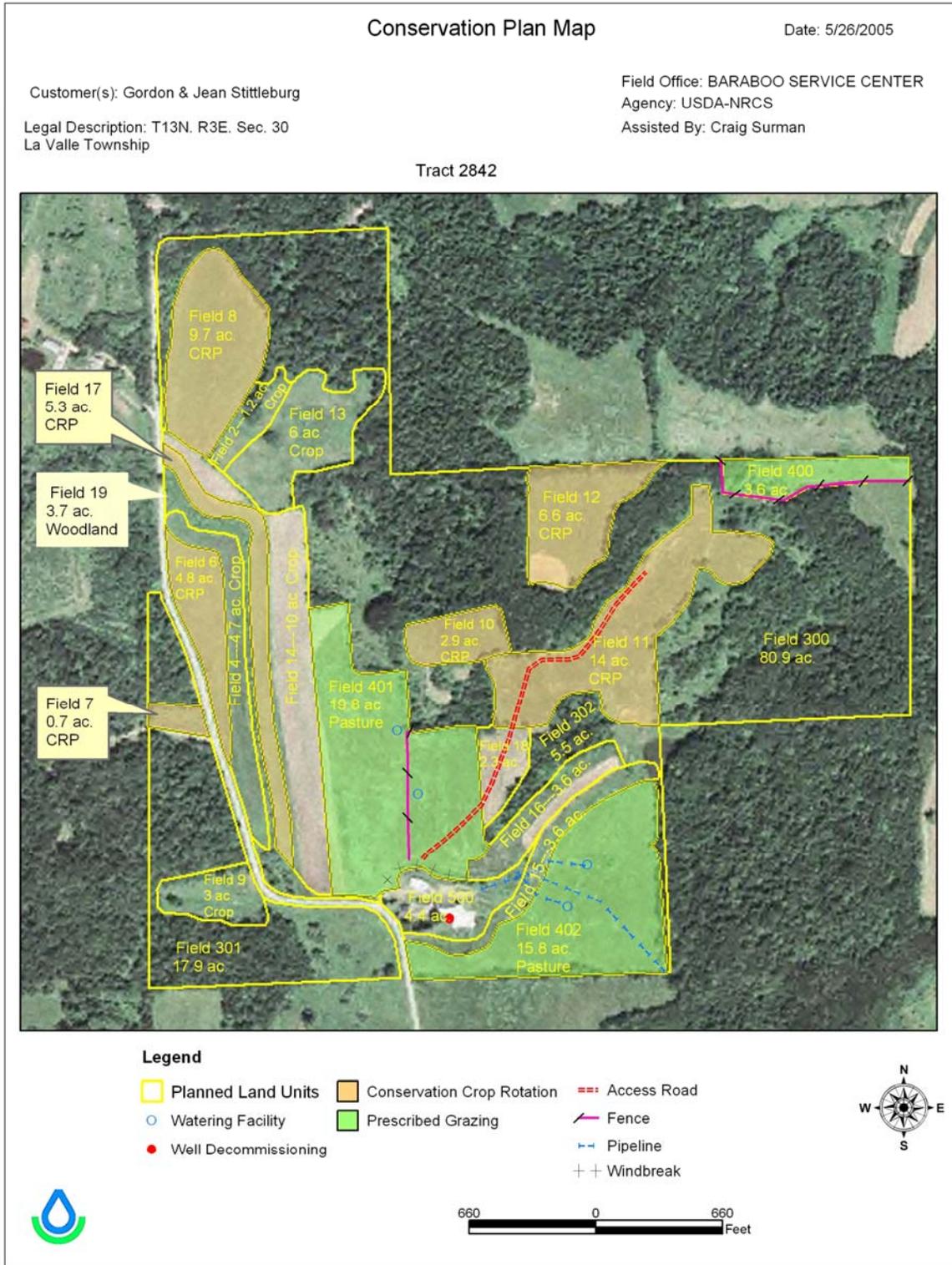


On the legend---Right-click--->Properties.



1. The Map Layers window show all of the layers that are in the Data Frame.
2. The Legend Items allows you to add/remove layers from the legend.
3. By clicking on these arrows once you have a layer in the Legend Items window selected, you can change the priority of it by clicking on the up/down arrows. This will place that layer above/below the layers listed by it.
4. By checking the Place in new column box when a layer is selected, you force that layer to be placed in a new column in the legend. I did this for the line and polygon practices.
5. This window allows you to define how many columns that one layer will be in. This works really well in cases where you have a lot of values, such as individual soil types from the soils map, or tract numbers for a landowner that has 8-12+ tracts.
6. This button allows you to change the label style of each layer in the legend and how the text and symbol will be displayed in the legend.

Here's the final map with all of the practices and the legend.



Here's the symbol sets for NRCS Planning (Points):

NRCS Planning Marker Styles - All Categories

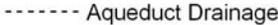
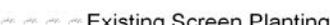
Airport	Existing Windmill & Trough
Airway Beacon	Fort
Borrow Pit	Gated Cattleguard
Boundary Monument	Gravel Pit
Bridge Tunnel (left)	House Farmstead
Bridge Tunnel (right)	Large Depression
Buildings	Lighthouse
Cemetery, Large	Located Object
Cemetery, Small	Lookout
Cemetery, Small (2)	Marsh Swamp
Church	Mine Shaft
Corral	Mine Tunnel Opening
Depression	Oil or Gas Well
Depression Contains Water	Permanent Bench Mark
Depression Crossable	Pipe
Depression Not Crossable	Planned Check Dam
Drainage End	Planned Diversion
Existing Check Dam	Planned Division Box
Existing Diversion	Planned Drop Structure
Existing Division Box	Planned Flood Gate
Existing Drop Structure	Planned Pipe
Existing Flood Gate	Planned Pipe Riser
Existing Pipe Riser	Planned Pit
Existing Pit	Planned Pump
Existing Pump	Planned Salt Ground
Existing Salt Ground	Planned Shelter Belt
Existing Shelter Belt	Planned Spring & Trough
Existing Spring & Trough	Planned Spring Devel
Existing Spring Devel	Planned Tent Site
Existing Tent Site	Planned Trough
Existing Trough	Planned Water Tank
Existing Water Tank	Planned Well
Existing Well	
Existing Windmill	

Here's the symbol sets for NRCS Planning (Points--Continued):

NRCS Planning Marker Styles - All Categories

-  Planned Windmill
-  Planned Windmill & Trough
-  Prominent Hill or Peak
-  Prospect Mine
-  Quarry Mine
-  Railroad Station
-  Small Arrow Head
-  Sawmill
-  School
-  Screen
-  Special Purpose Planting
-  Spot Elevation
-  Spring
-  Stack Yard
-  Storage Tanks
-  Telephone Line
-  Tower
-  Triangulation Point
-  Well, Artesian
-  Well, Irrigation
-  Wet Spot

Here's the symbol sets for NRCS Planning (Lines):

NRCS Planning Line Styles - All Categories	
 2 Dot Drainage Pattern	 Farm, Ranch or Other Operations
 Applied Drainage Irrigation	 Field or Landuse Boundary
 Aqueduct Drainage	 Intermittent Drainage
 City, Village, Borough, or Urban Area	 Land CAP range, wooded or HEL
 Conservation District Boundary	 Land Grant
 County or Parish	 Levee
 Crossable Depression, Large	 Line Symbol
 Divided Road	 Minor Civil Division
 Double Line Perennial Drainage	 National Forest or Reservation
 Existing Fence	 National State or Province
 Existing Fence Removed	 Not Crossable Depression, Large
 Existing Pipeline Water or Gas	 Perennial Single Line Drainage
 Existing Power Transmission	 Planned Drainage Irrigation
 Existing Screen Planting	 Planned Fence
 Existing Shelter Belt	 Planned Pipeline Water or Gas
 Existing Telephone	 Planned Shelter Belt

Here's the symbol sets for NRCS Planning (Lines):

NRCS Planning Line Styles - Default Category	
	Farm, Ranch or Other Operations
	Land CAP range, wooded or HEL
	Short Steep Slope
	Double Line Perennial Drainage
	Perennial Single Line Drainage
	2 Dot Drainage Pattern
	Applied Drainage Irrigation
	Planned Drainage Irrigation
	Aqueduct Drainage
	Terrace
	Existing Power Transmission
	Existing Screen Planting
	Crossable Depression, Large
	Not Crossable Depression, Large