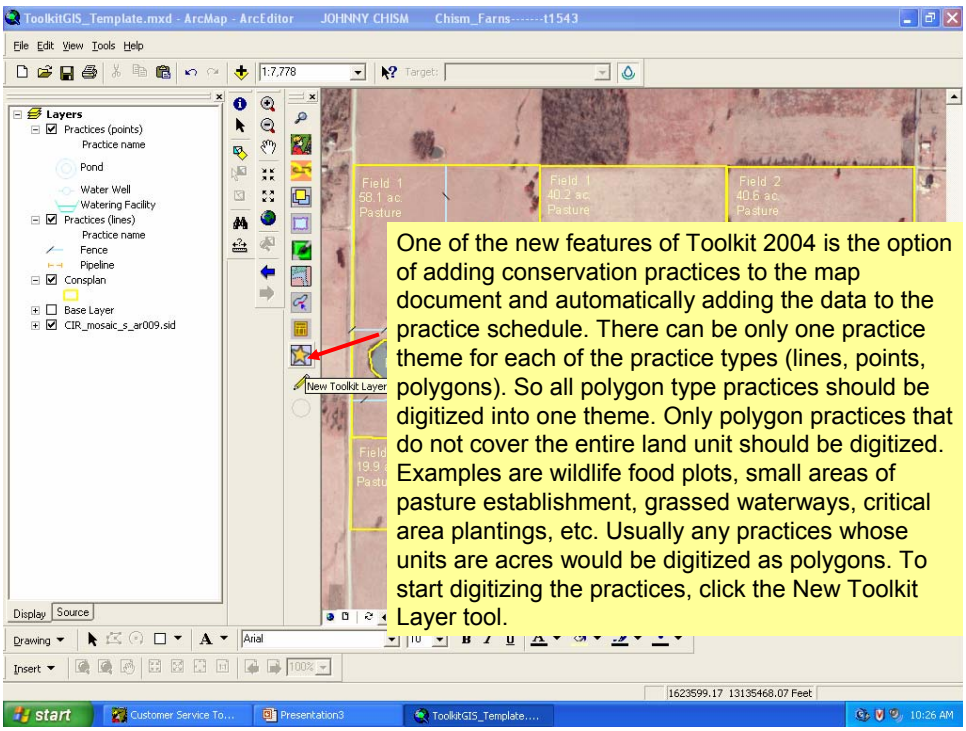
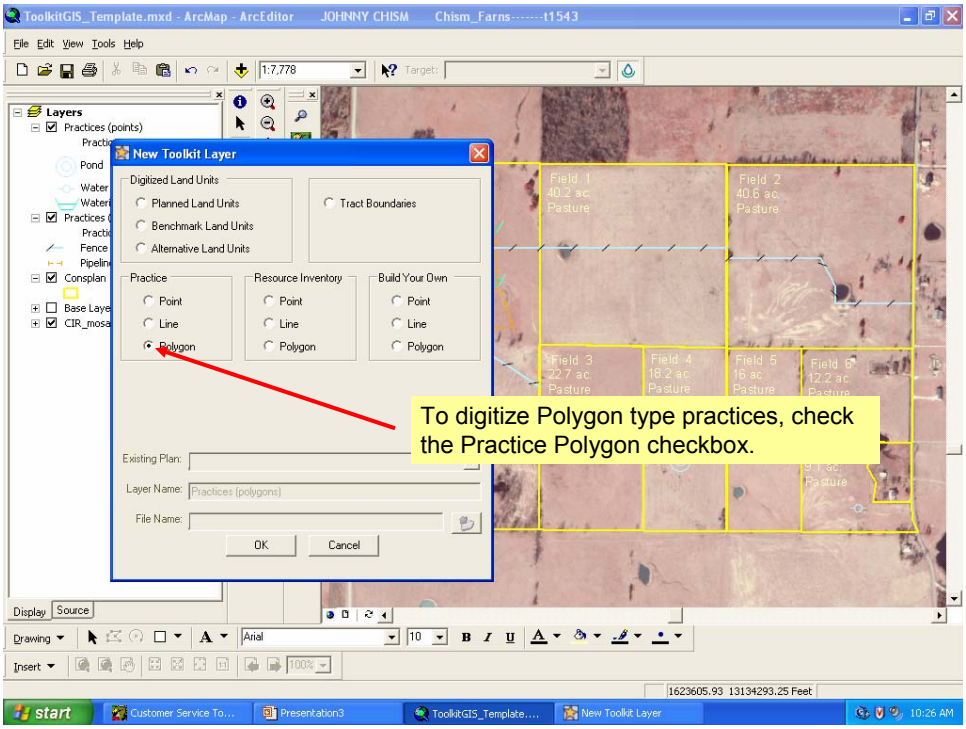
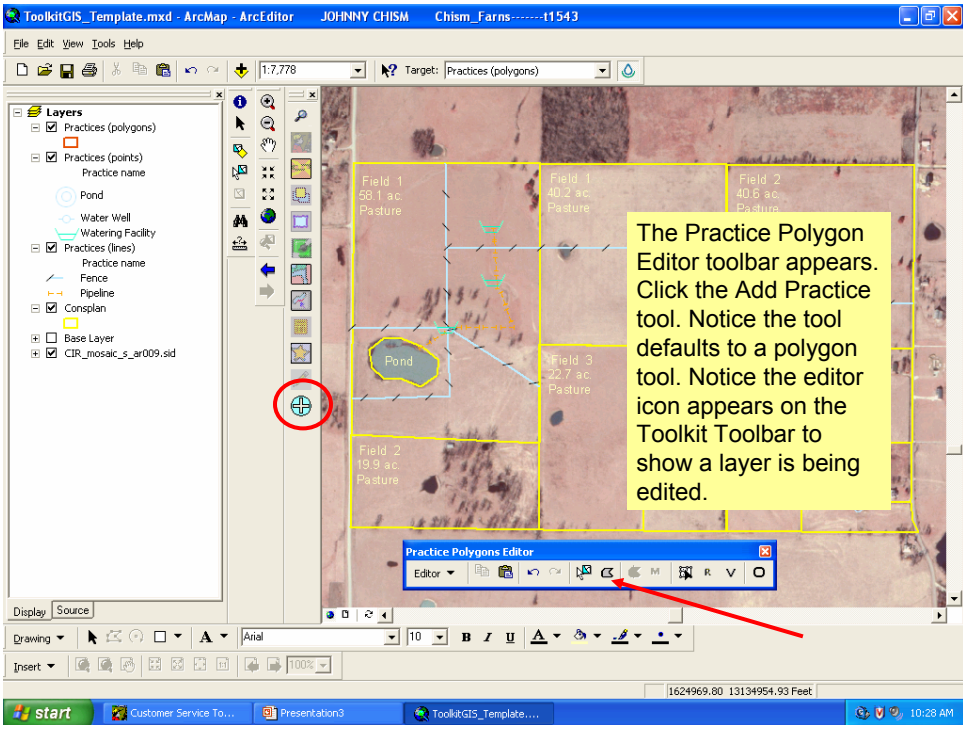
Digitizing Polygon Type Conservation Practices

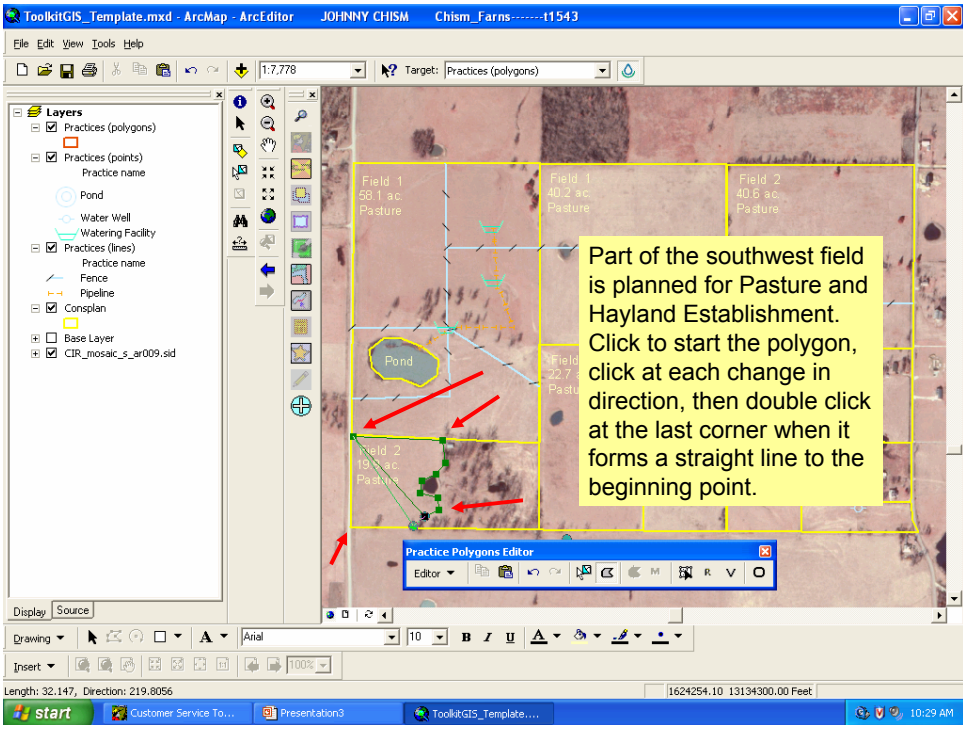
Toolkit 2004

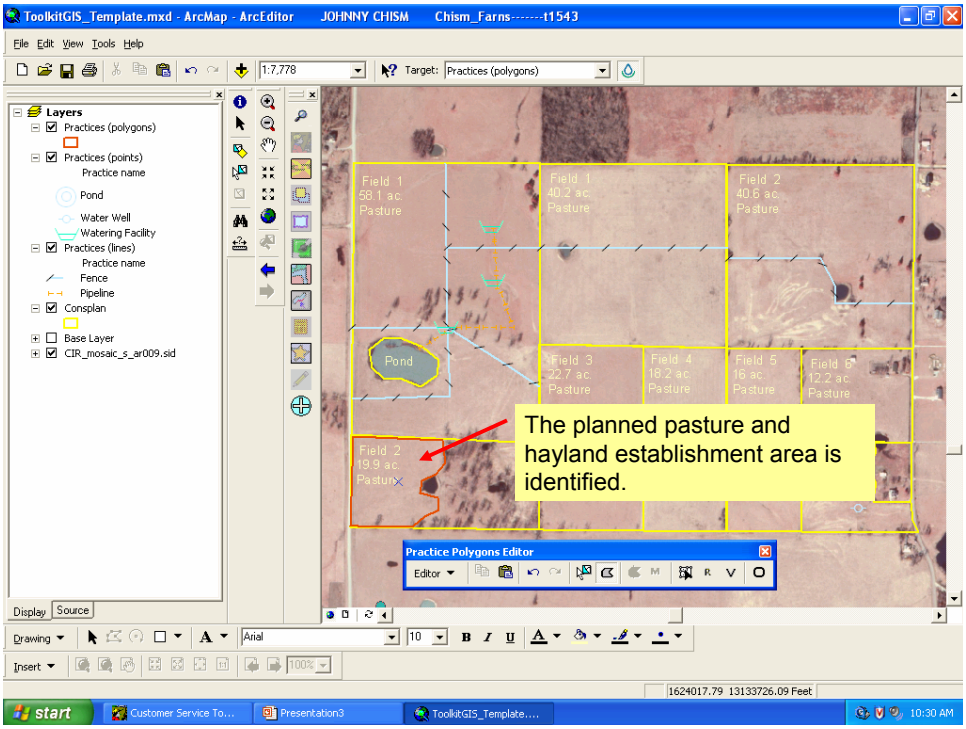


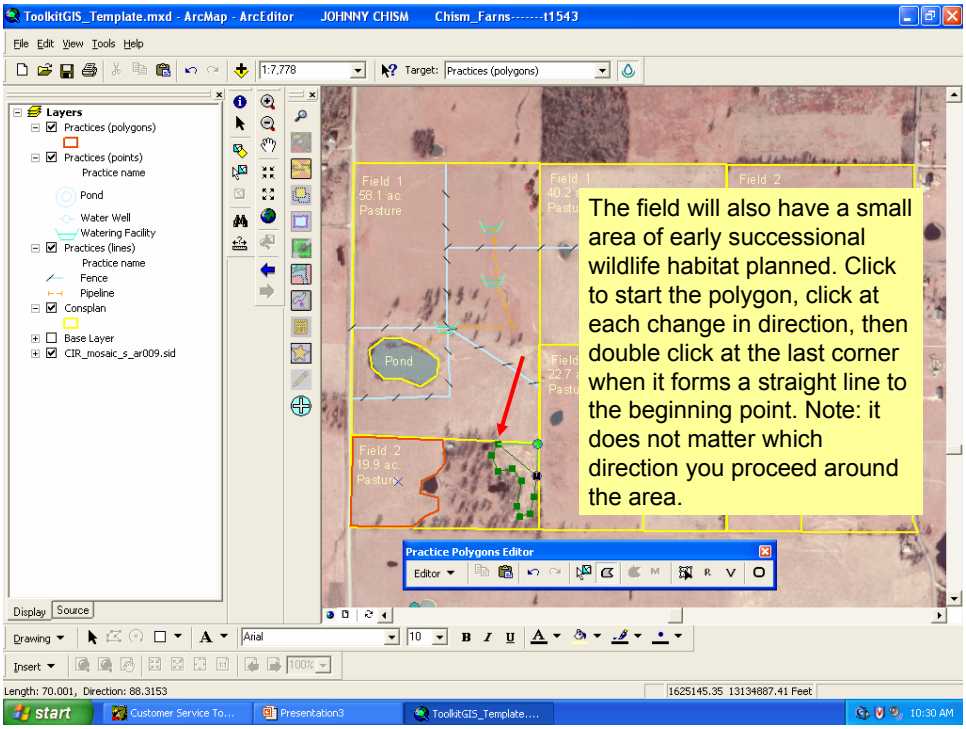
One of the new features of Toolkit 2004 is the option of adding conservation practices to the map document and automatically adding the data to the practice schedule. There can be only one practice theme for each of the practice types (lines, points, polygons). So all polygon type practices should be digitized into one theme. Only polygon practices that do not cover the entire land unit should be digitized. Examples are wildlife food plots, small areas of pasture establishment, grassed waterways, critical area plantings, etc. Usually any practices whose units are acres would be digitized as polygons. To start digitizing the practices, click the New Toolkit Layer tool.

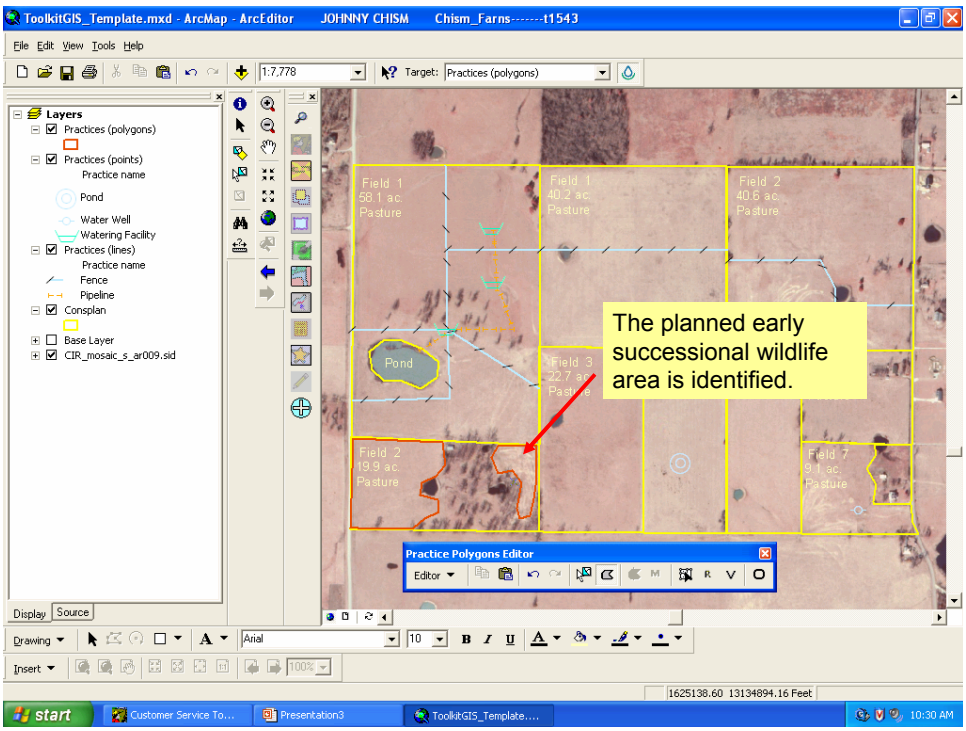

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
New Toolkit Layer
Digitized Land Units
Planned Land Units
Benchmark Land Units
Alternative Land Units
Tract Boundaries
Practice
Point
Line
Polygon
Resource Inventory
Build Your Own
Existing Plan:
Layer Name: Practices (polygons)
File Name:
OK
Cancel
To digitize Polygon type practices, check the Practice Polygon checkbox.

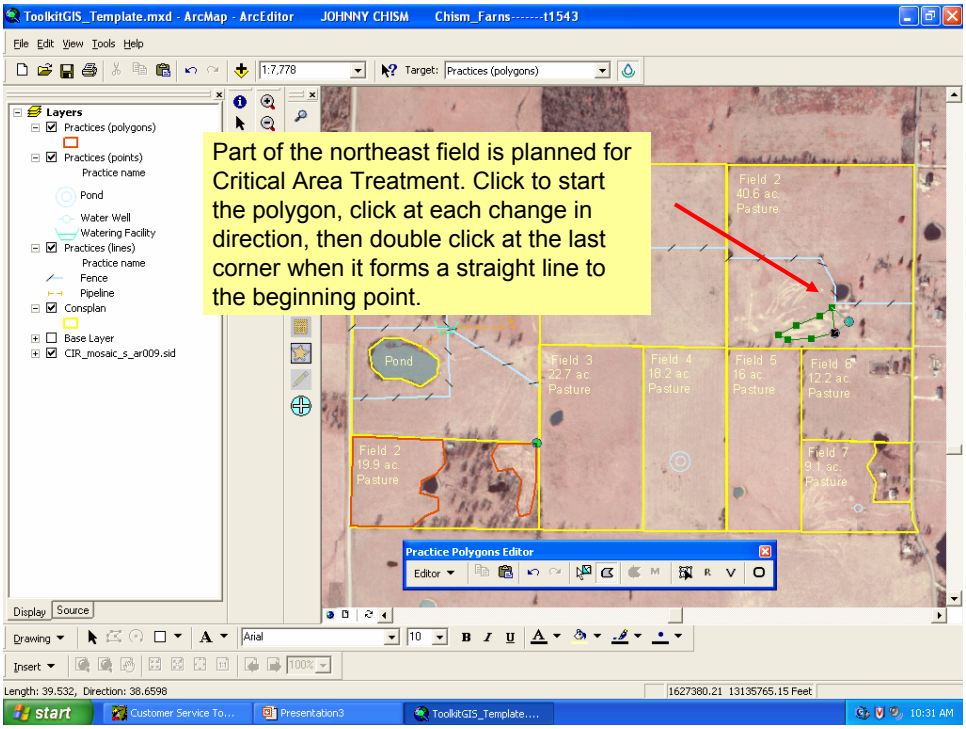

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Target: Practices (polygons)
Practice Polygons Editor
Editor
The Practice Polygon Editor toolbar appears. Click the Add Practice tool. Notice the tool defaults to a polygon tool. Notice the editor icon appears on the Toolkit Toolbar to show a layer is being edited.

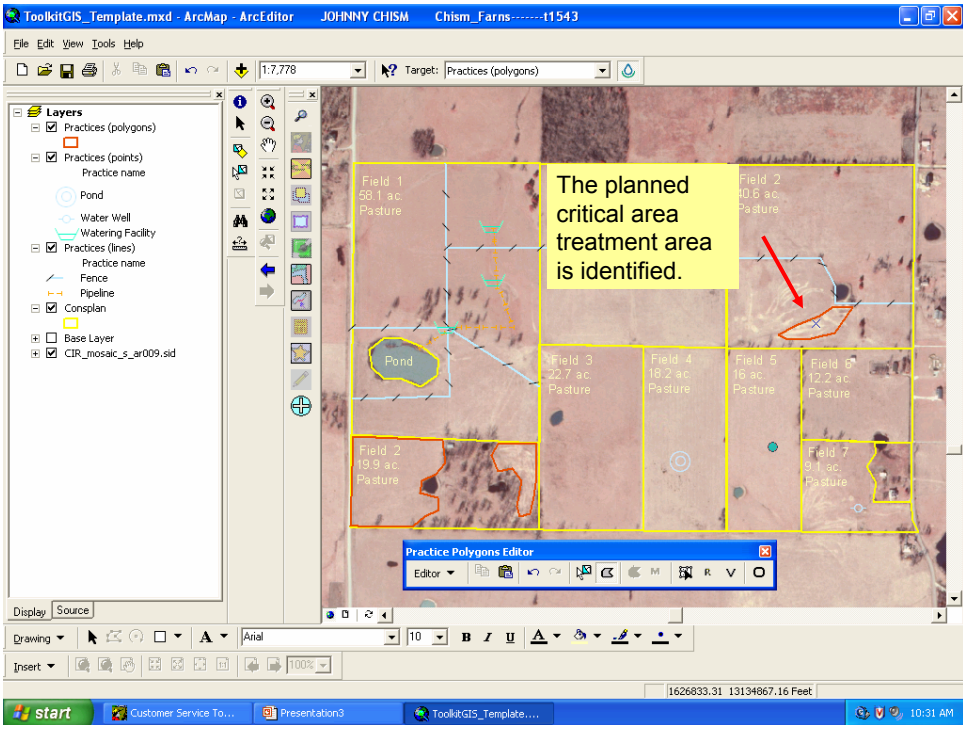

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Part of the southwest field is planned for Pasture and Hayland Establishment. Click to start the polygon, click at each change in direction, then double click at the last corner when it forms a straight line to the beginning point.
Practice Polygons Editor

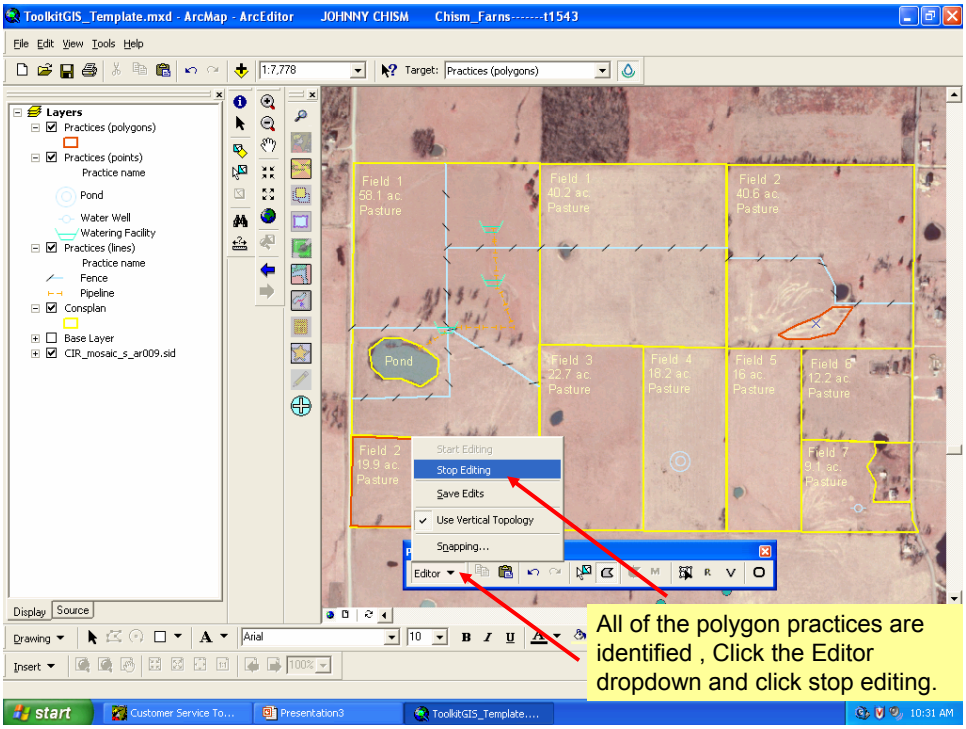

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
The planned pasture and hayland establishment area is identified.
Practice Polygons Editor

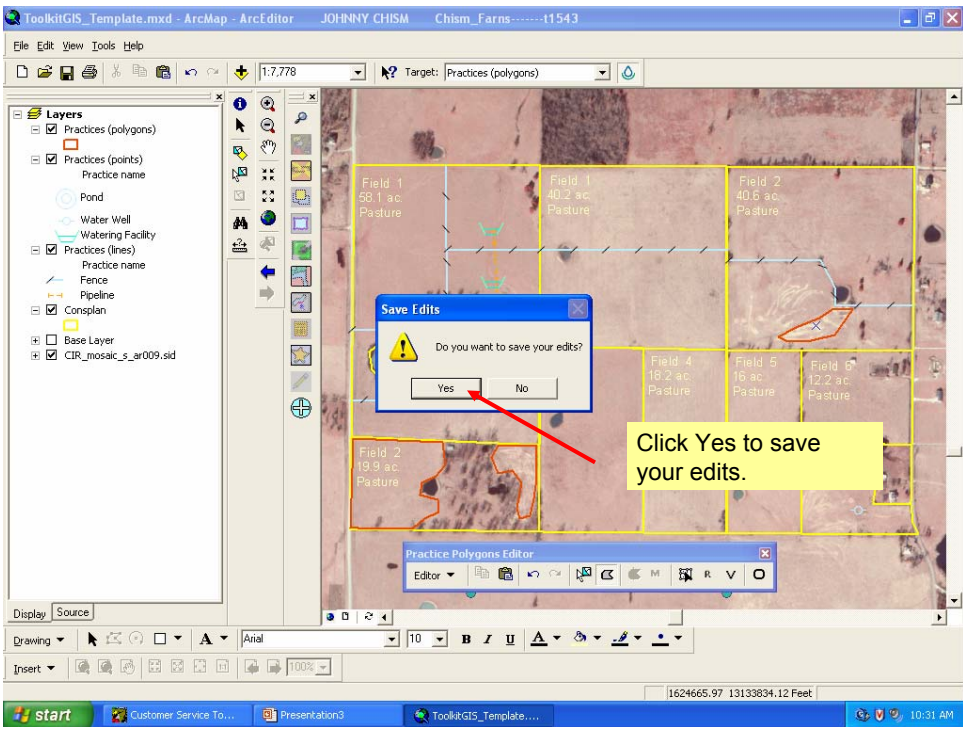

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Target: Practices (polygons)
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Field 1
58.1 ac.
Pasture
Field 1
40.2 ac.
Pasture
Field 2
Pond
Field 2
19.9 ac.
Pasture
The field will also have a small area of early successional wildlife habitat planned. Click to start the polygon, click at each change in direction, then double click at the last corner when it forms a straight line to the beginning point. Note: it does not matter which direction you proceed around the area.
Practice Polygons Editor
Editor
Display Source
Drawing
Insert
Length: 70.001, Direction: 88.3153
1625145.35 13134887.41 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:30 AM

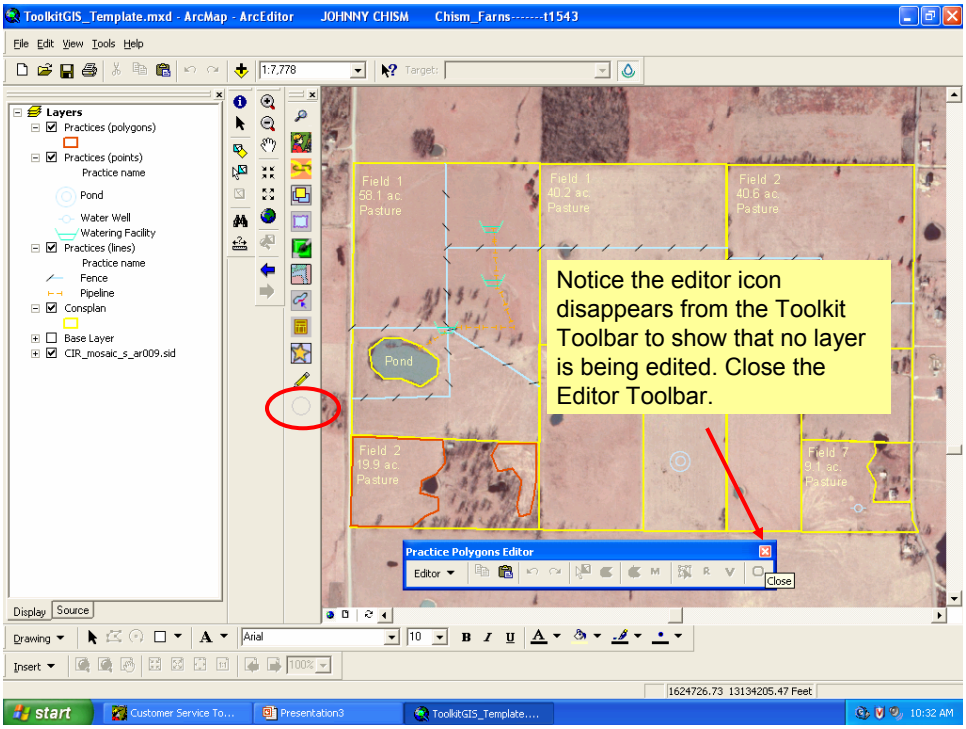

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Target: Practices (polygons)
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Field 1
58.1 ac.
Pasture
Field 1
40.2 ac.
Pasture
Field 2
40.6 ac.
Pasture
Pond
Field 3
22.7 ac.
Pasture
Field 2
19.9 ac.
Pasture
Field 7
9.1 ac.
Pasture
The planned early successional wildlife area is identified.
Practice Polygons Editor
Editor
Display Source
Drawing
Insert
1625138.60 13134894.16 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:30 AM

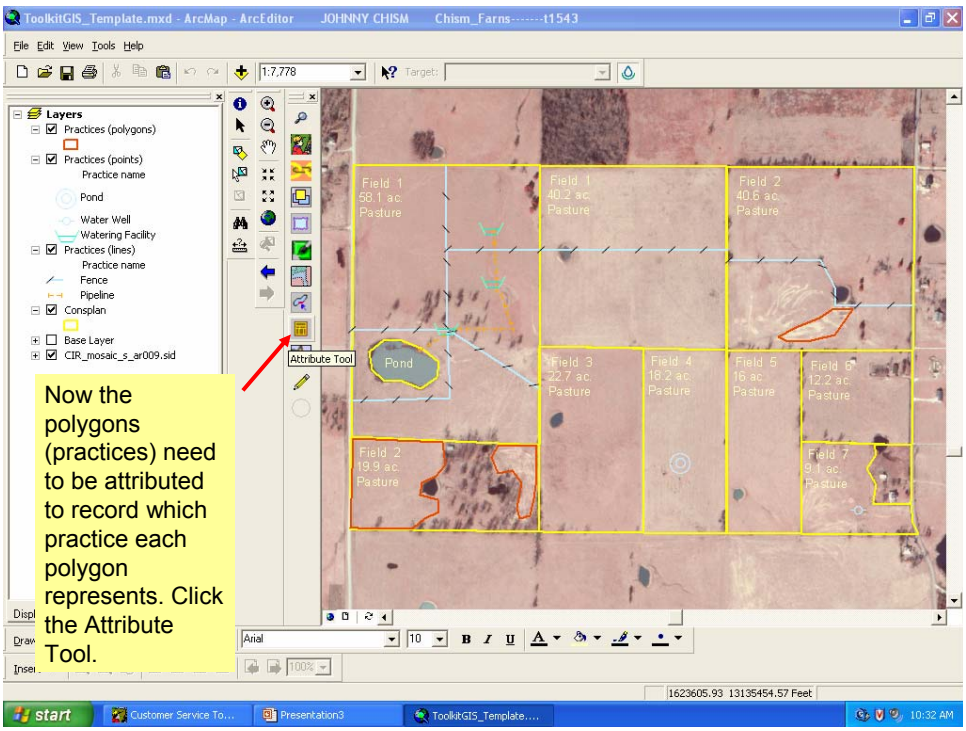

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Part of the northeast field is planned for Critical Area Treatment. Click to start the polygon, click at each change in direction, then double click at the last corner when it forms a straight line to the beginning point.
Practice Polygons Editor

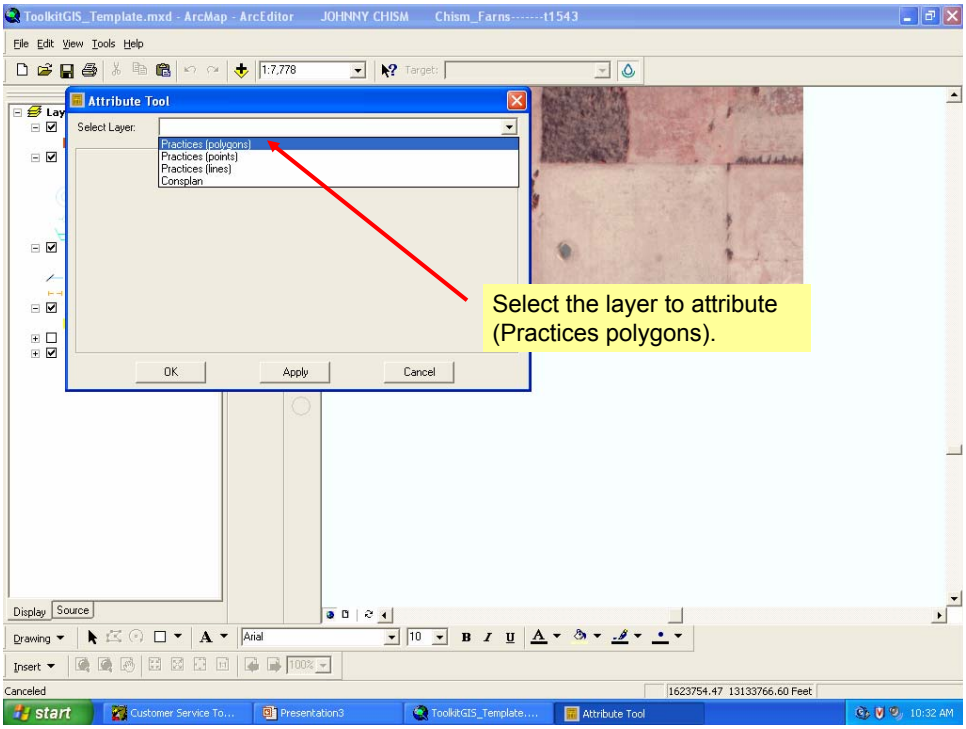

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
The planned critical area treatment area is identified.
Practice Polygons Editor

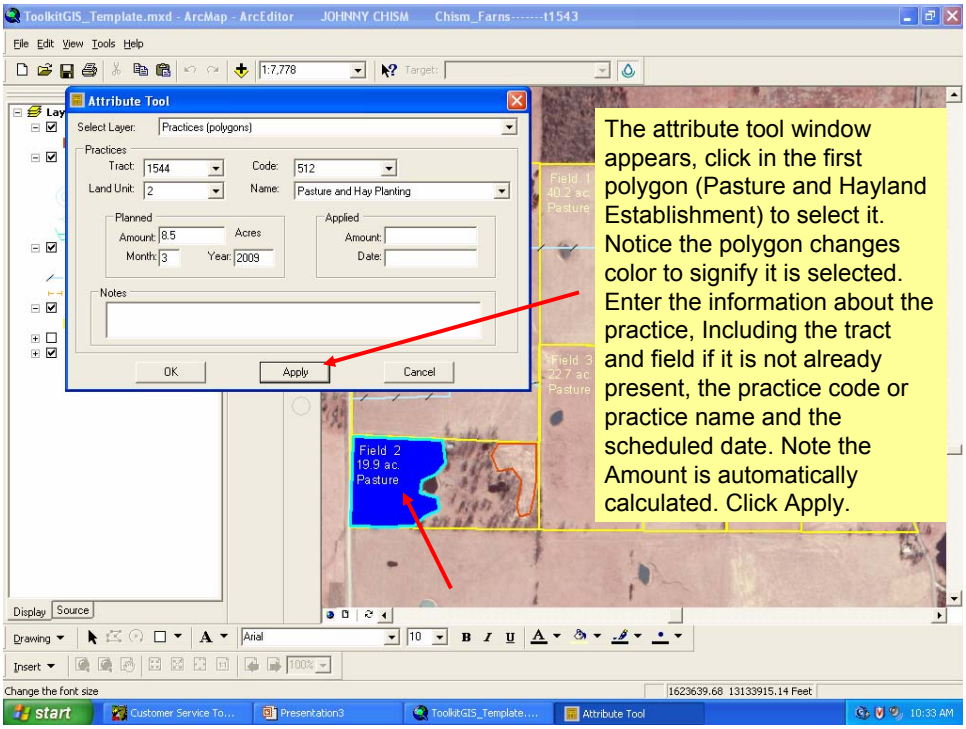

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Target: Practices (polygons)
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Start Editing
Stop Editing
Save Edits
Use Vertical Topology
Snapping...
Editor
All of the polygon practices are identified , Click the Editor dropdown and click stop editing.

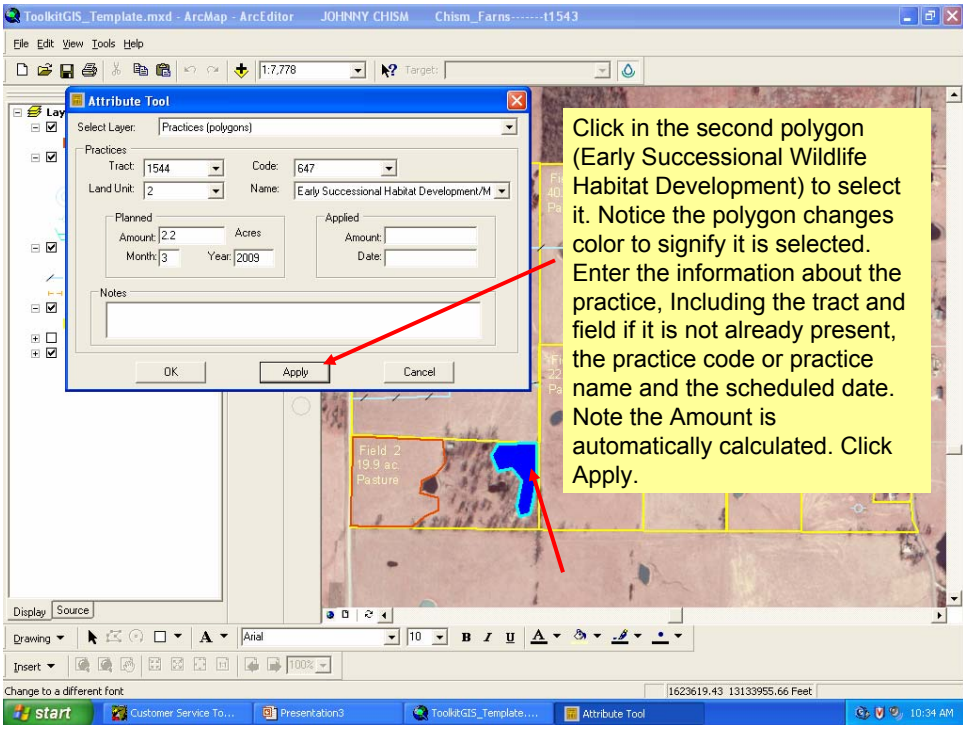

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Save Edits
Do you want to save your edits?
Yes
No
Click Yes to save your edits.
Practice Polygons Editor

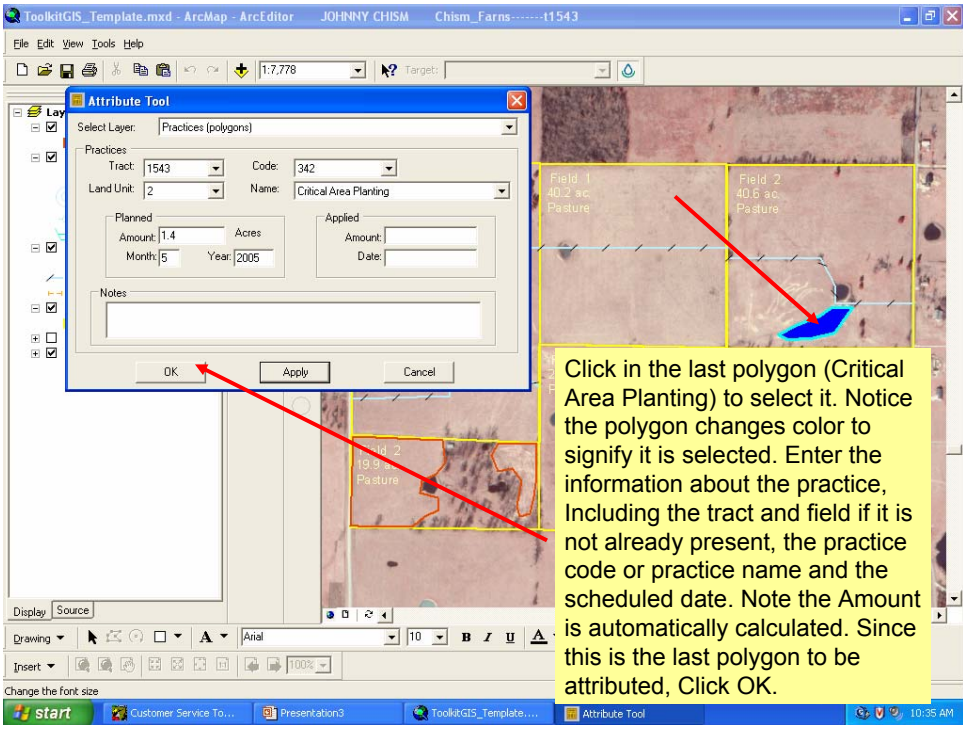

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Field 1 58.1 ac. Pasture
Field 1 40.2 ac. Pasture
Field 2 40.6 ac. Pasture
Pond
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
Notice the editor icon disappears from the Toolkit Toolbar to show that no layer is being edited. Close the Editor Toolbar.
Practice Polygons Editor
Editor
Close
Display Source
Drawing
Insert
Arial
1624726.73 13134205.47 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:32 AM

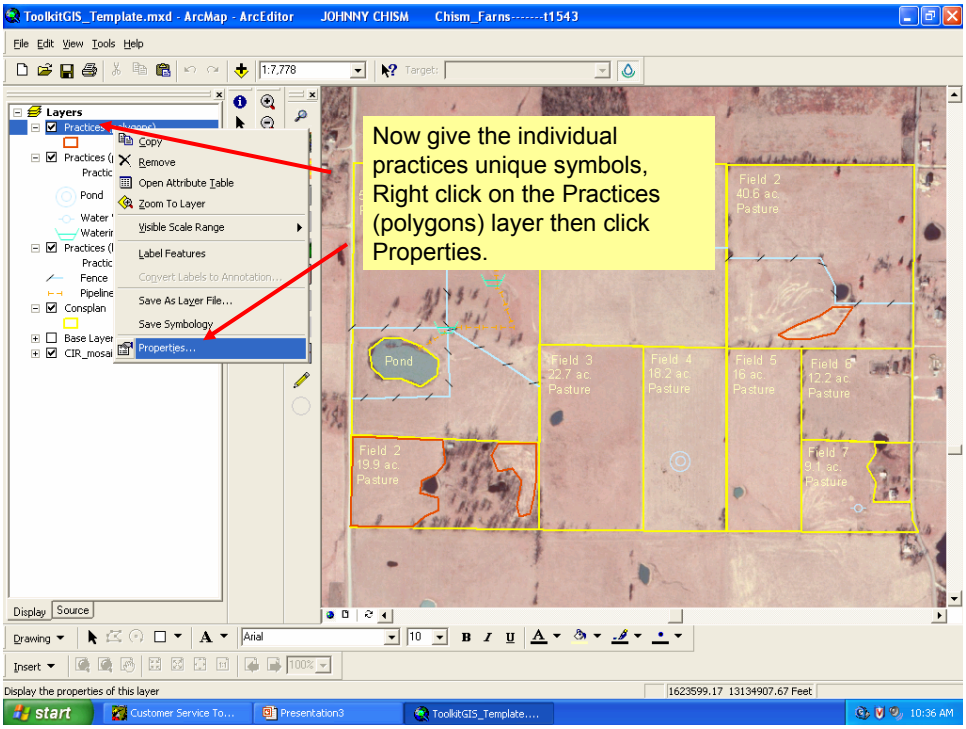

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Attribute Tool
Now the polygons (practices) need to be attributed to record which practice each polygon represents. Click the Attribute Tool.
Field 1 58.1 ac. Pasture
Field 1 40.2 ac. Pasture
Field 2 40.6 ac. Pasture
Pond
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
Arial
1623605.93 13135454.57 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:32 AM

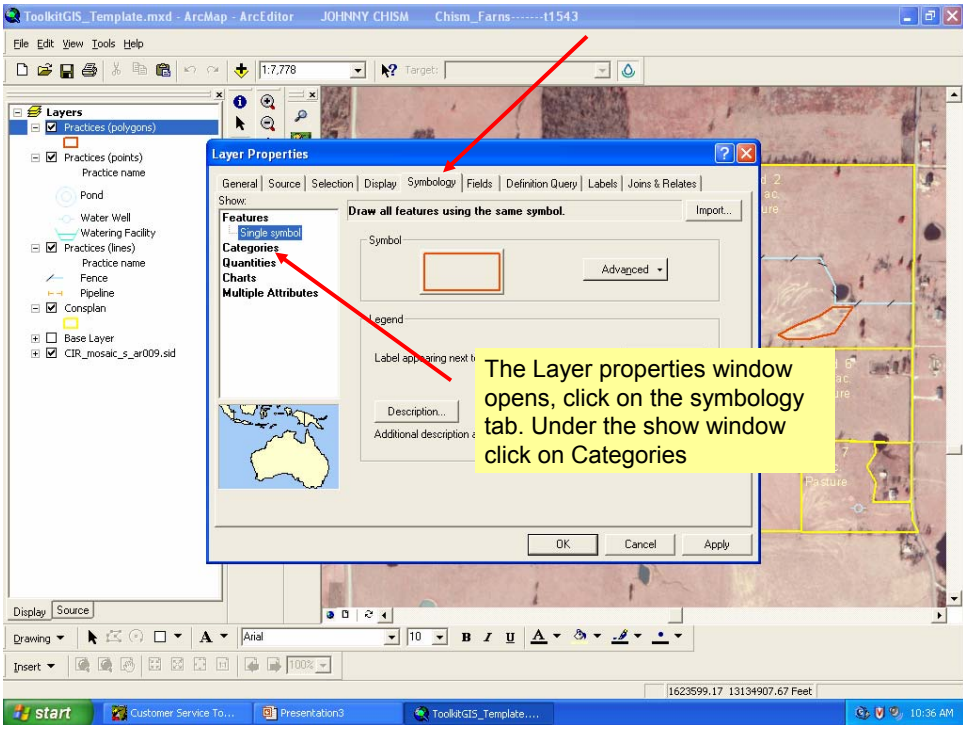

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Attribute Tool
Select Layer:
Practices (polygons)
Practices (points)
Practices (lines)
Consplan
OK
Apply
Cancel
Select the layer to attribute (Practices polygons).
Display Source
Drawing
Insert
Canceled
1623754.47 13133766.60 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
Attribute Tool
10:32 AM

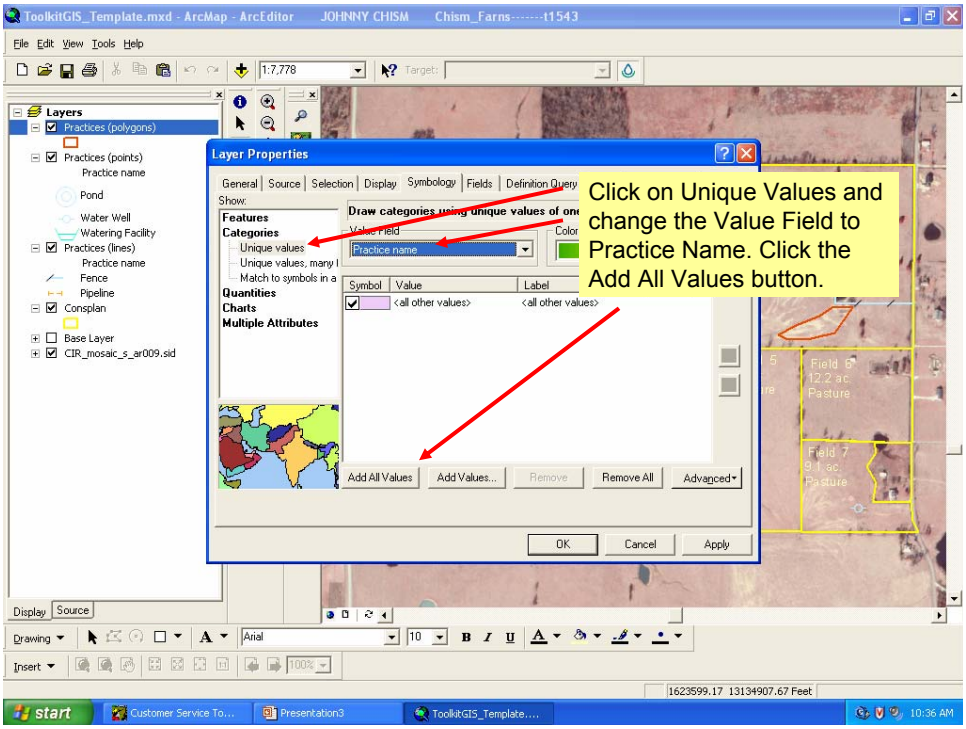

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Attribute Tool
Select Layer: Practices (polygons)
Practices
Tract: 1544
Code: 512
Land Unit: 2
Name: Pasture and Hay Planting
Planned
Amount: 8.5 Acres
Month: 3 Year: 2009
Applied
Amount:
Date:
Notes
OK
Apply
Cancel
Field 2
19.9 ac.
Pasture
The attribute tool window appears, click in the first polygon (Pasture and Hayland Establishment) to select it. Notice the polygon changes color to signify it is selected. Enter the information about the practice, Including the tract and field if it is not already present, the practice code or practice name and the scheduled date. Note the Amount is automatically calculated. Click Apply.
Display Source
Drawing
Insert
Change the font size
1623639.68 13133915.14 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
Attribute Tool
10:33 AM

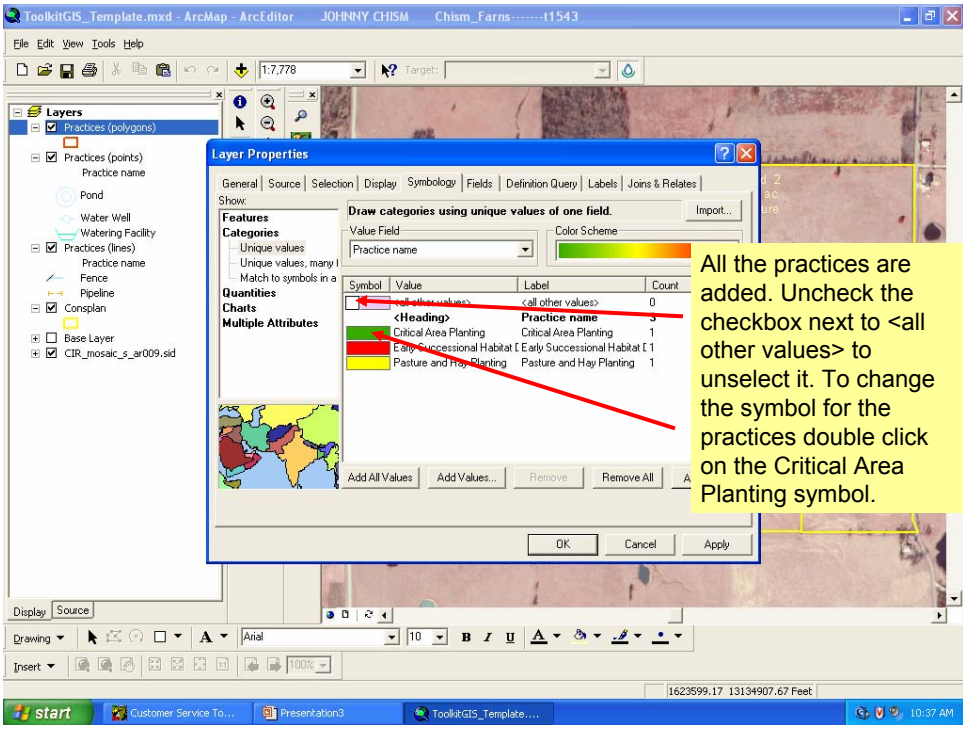

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Attribute Tool
Select Layer: Practices (polygons)
Practices
Tract: 1544
Code: 647
Land Unit: 2
Name: Early Successional Habitat Development/M
Planned
Amount: 2.2
Acres
Month: 3
Year: 2009
Applied
Amount:
Date:
Notes
OK
Apply
Cancel
Field 2
19.9 ac
Pasture
Click in the second polygon (Early Successional Wildlife Habitat Development) to select it. Notice the polygon changes color to signify it is selected. Enter the information about the practice, Including the tract and field if it is not already present, the practice code or practice name and the scheduled date. Note the Amount is automatically calculated. Click Apply.

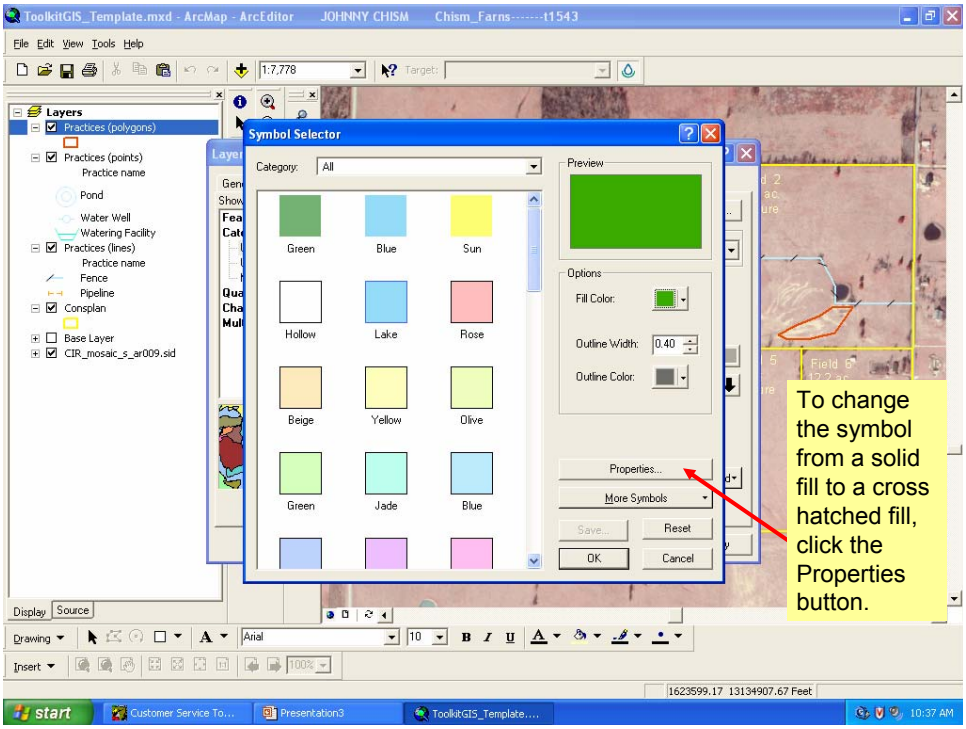

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Attribute Tool
Select Layer: Practices (polygons)
Practices
Tract: 1543
Code: 342
Land Unit: 2
Name: Critical Area Planting
Planned
Amount: 1.4
Acres
Month: 5
Year: 2005
Applied
Amount:
Date:
Notes
OK
Apply
Cancel
Field 1
40.2 ac
Pasture
Field 2
40.6 ac
Pasture
Click in the last polygon (Critical Area Planting) to select it. Notice the polygon changes color to signify it is selected. Enter the information about the practice, Including the tract and field if it is not already present, the practice code or practice name and the scheduled date. Note the Amount is automatically calculated. Since this is the last polygon to be attributed, Click OK.

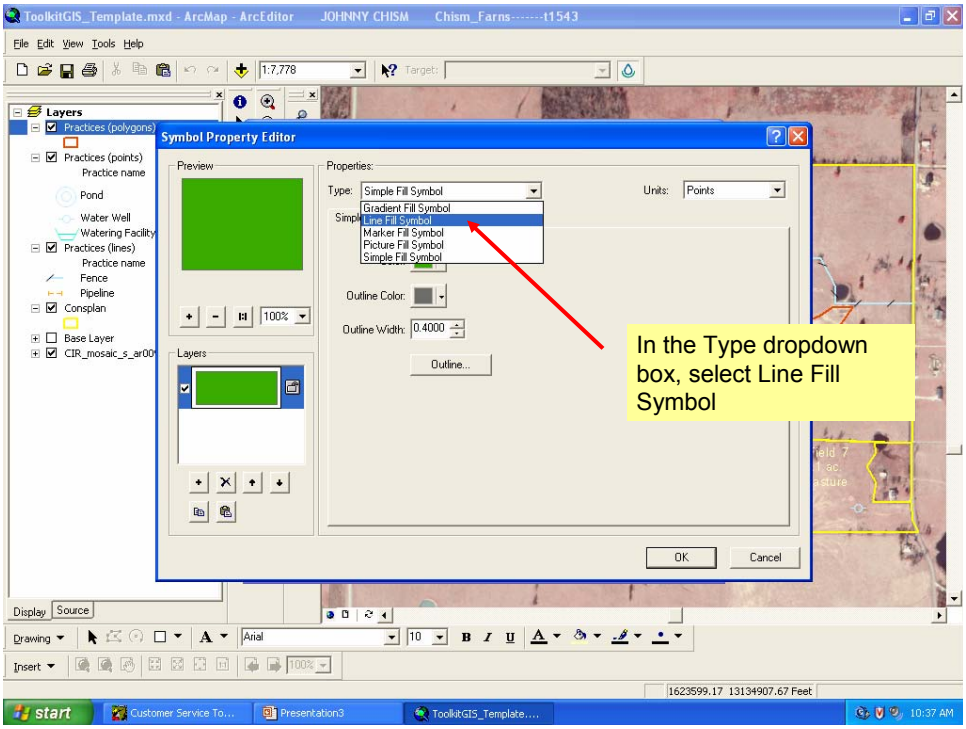

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Now give the individual practices unique symbols, Right click on the Practices (polygons) layer then click Properties.
Copy
Remove
Open Attribute Table
Zoom To Layer
Visible Scale Range
Label Features
Convert Labels to Annotation...
Save As Layer File...
Save Symbology
Properties...
Pond
Field 2 40.6 ac. Pasture
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture

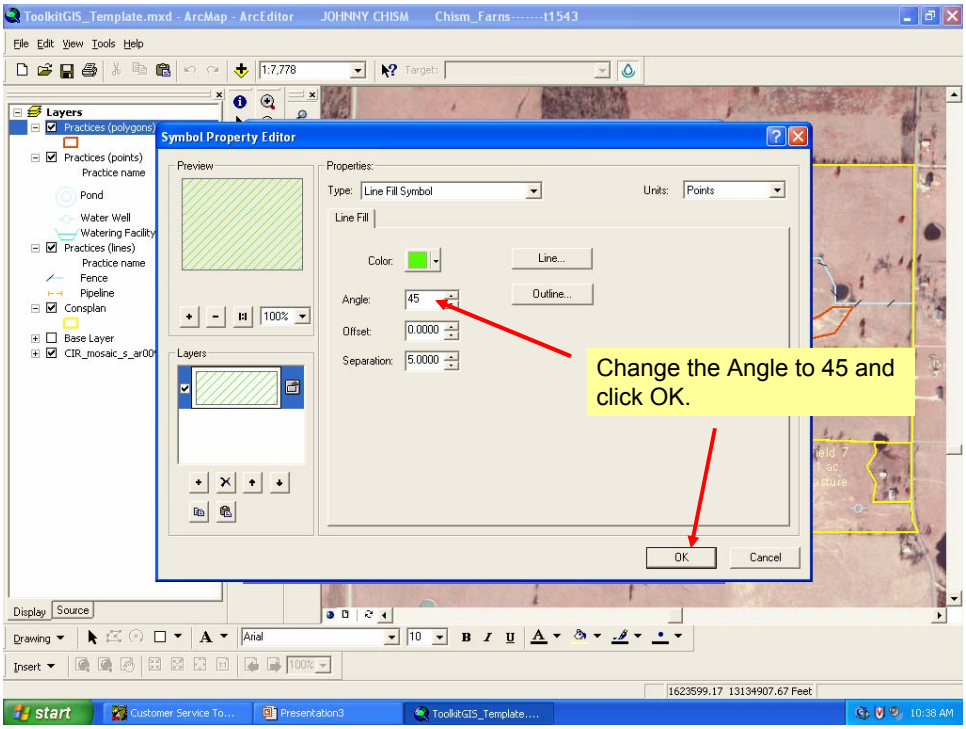

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Show:
Features
Single symbol
Categories
Quantities
Charts
Multiple Attributes
Draw all features using the same symbol.
Import...
Symbol
Advanced
Legend
Description...
Additional description
OK
Cancel
Apply
The Layer properties window opens, click on the symbology tab. Under the show window click on Categories

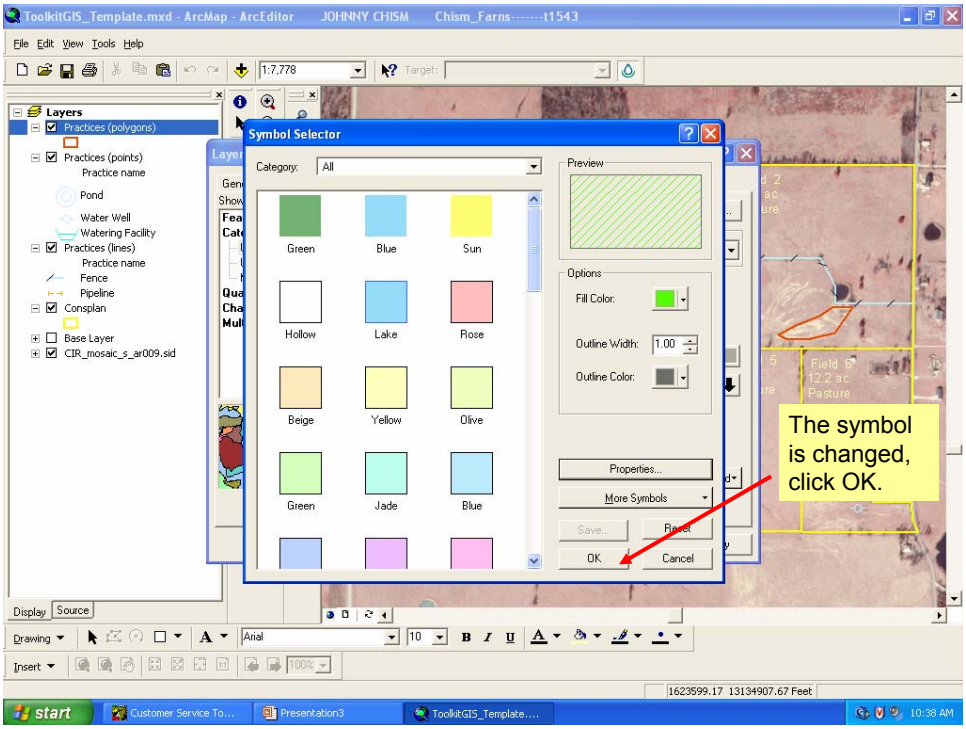

Click on Unique Values and change the Value Field to Practice Name. Click the Add All Values button.

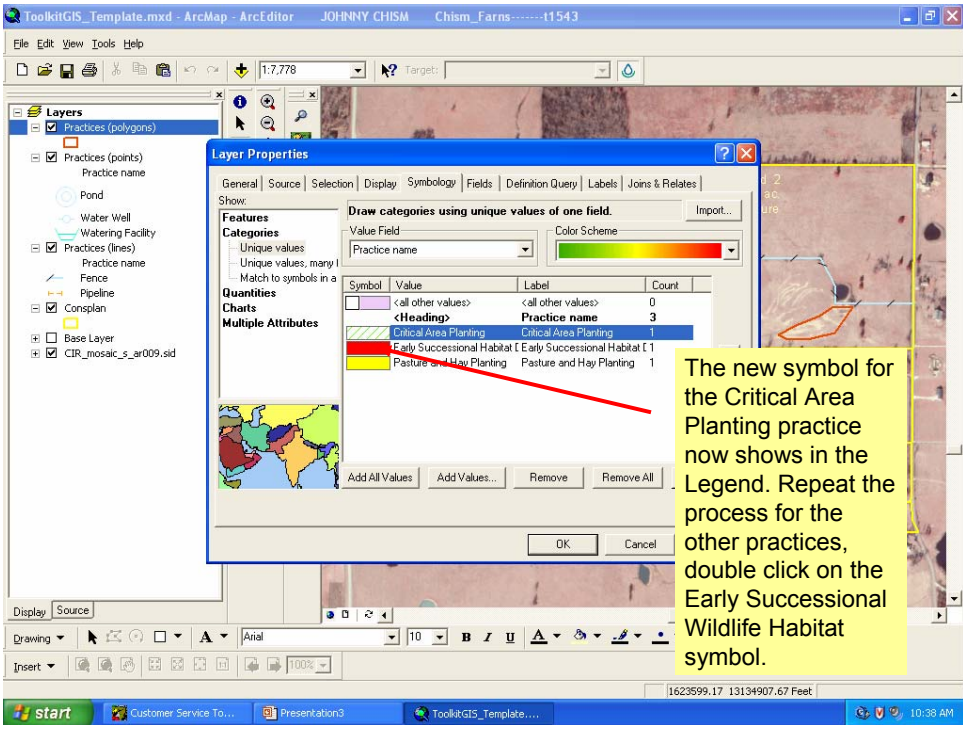

All the practices are added. Uncheck the checkbox next to <all other values> to unselect it. To change the symbol for the practices double click on the Critical Area Planting symbol.

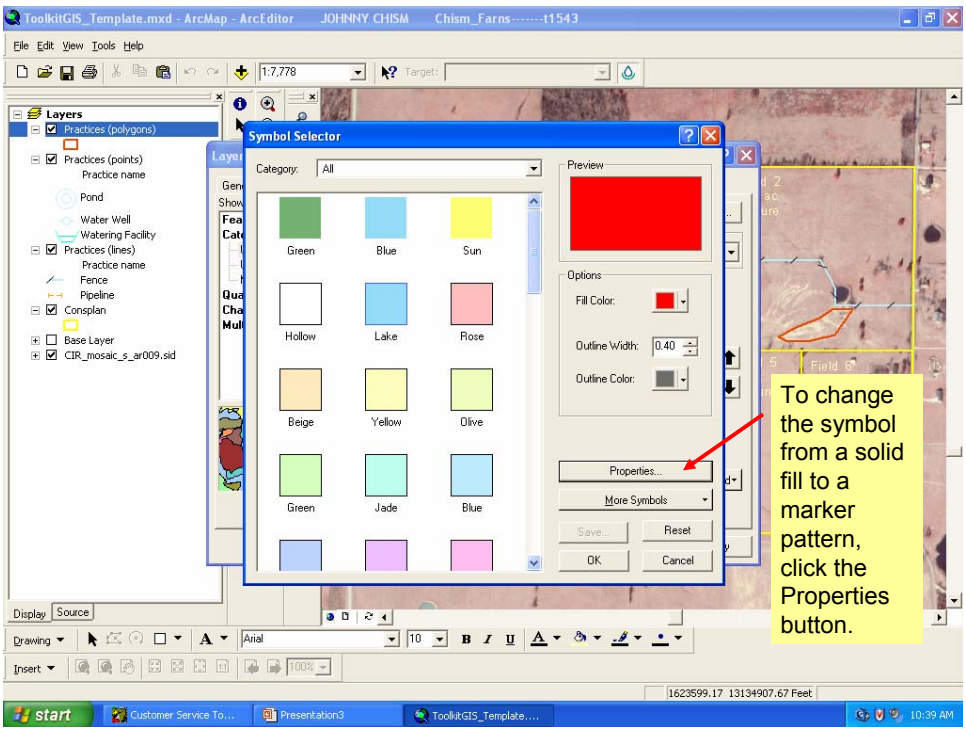

ToolkitGIS_Template.mxd - ArcMap - ArcEditor
Symbol Selector
Category: All
Preview
Options
Fill Color:
Outline Width: 0.40
Outline Color:
Properties...
More Symbols
Save...
Reset
OK
Cancel
To change the symbol from a solid fill to a cross hatched fill, click the Properties button.

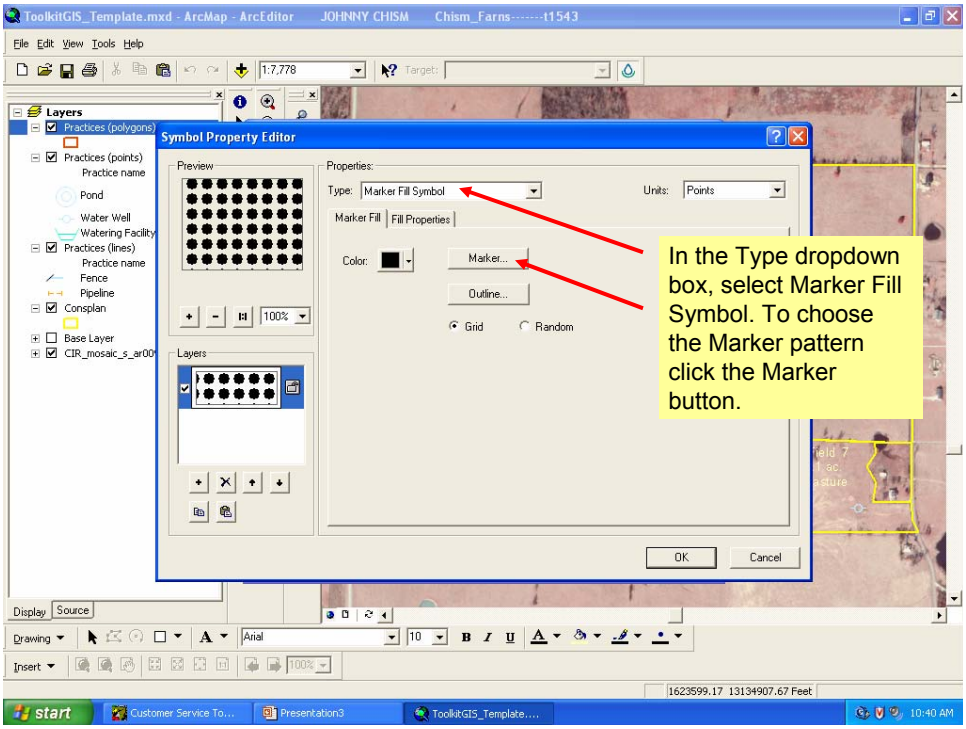

ToolkitGIS_Template.mxd - ArcMap - ArcEditor
Symbol Property Editor
Preview
Properties:
Type: Simple Fill Symbol
Gradient Fill Symbol
Line Fill Symbol
Marker Fill Symbol
Picture Fill Symbol
Simple Fill Symbol
Units: Points
Outline Color:
Outline Width: 0.4000
Outline...
Layers
OK
Cancel
In the Type dropdown box, select Line Fill Symbol

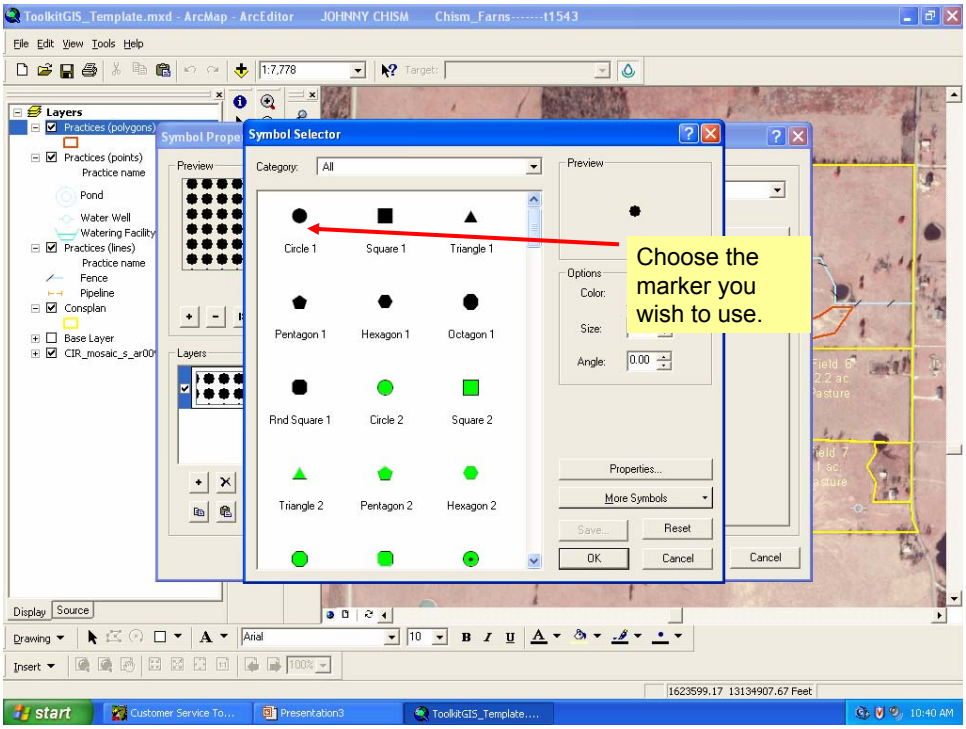

Symbol Property Editor
Change the Angle to 45 and click OK.
OK
Cancel

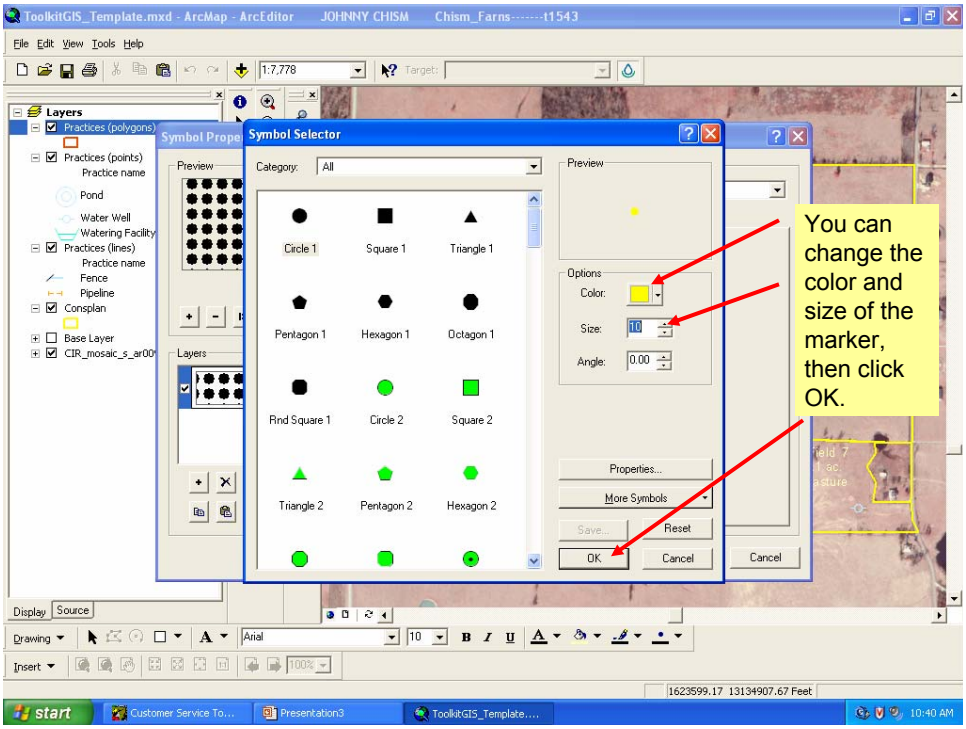

Symbol Selector
The symbol is changed, click OK.
OK
Cancel

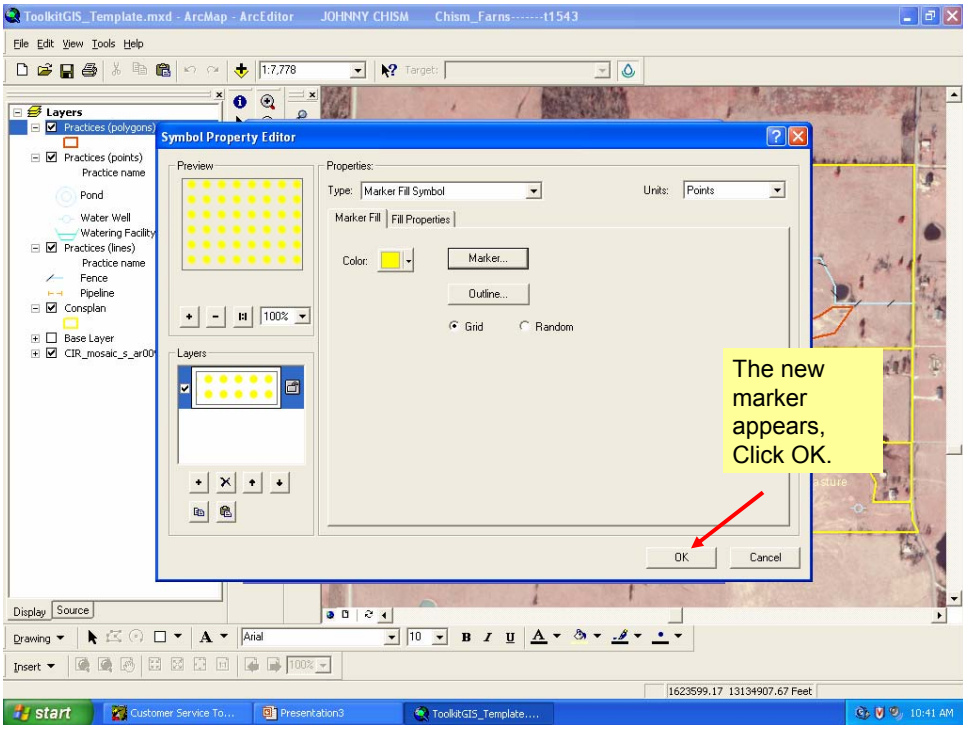

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Show:
Features
Categories
Unique values
Unique values, many
Match to symbols in a
Quantities
Charts
Multiple Attributes
Draw categories using unique values of one field.
Import...
Value Field
Practice name
Color Scheme
Symbol Value Label Count
<all other values> <all other values> 0
<Heading> Practice name 3
Critical Area Planting Critical Area Planting 1
Early Successional Habitat Early Successional Habitat 1
Pasture and Hay Planting Pasture and Hay Planting 1
Add All Values
Add Values...
Remove
Remove All
OK
Cancel
The new symbol for the Critical Area Planting practice now shows in the Legend. Repeat the process for the other practices, double click on the Early Successional Wildlife Habitat symbol.
Display Source
Drawing
Insert
1623599.17 13134907.67 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:38 AM

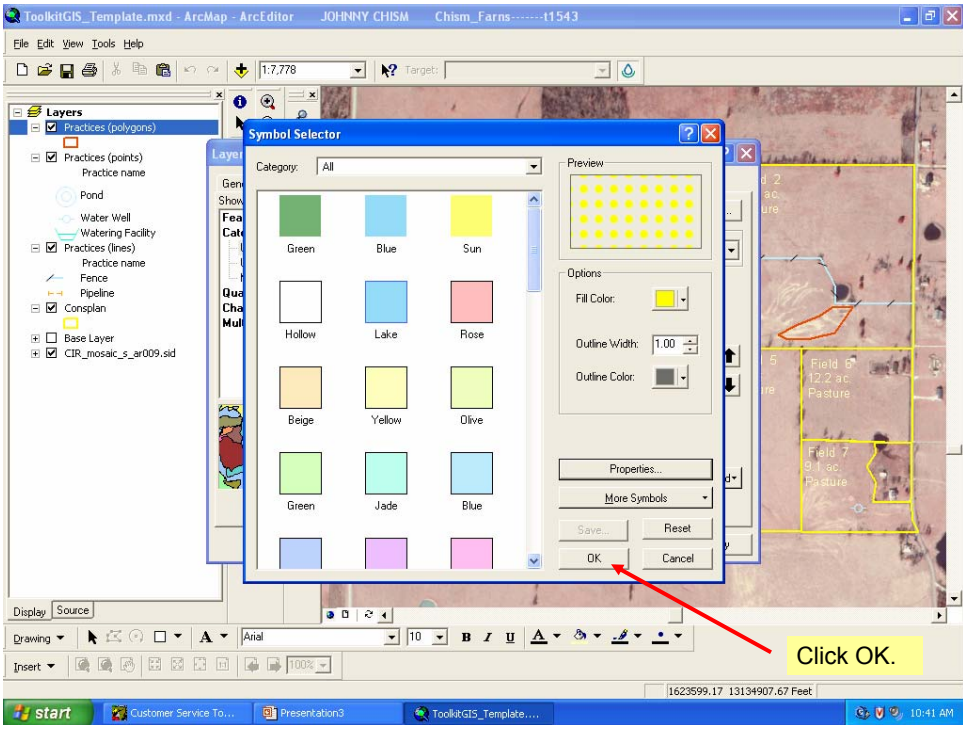

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Symbol Selector
Category: All
Preview
Green
Blue
Sun
Hollow
Lake
Rose
Beige
Yellow
Olive
Green
Jade
Blue
Options
Fill Color:
Outline Width: 0.40
Outline Color:
Properties...
More Symbols
Save...
Reset
OK
Cancel
To change the symbol from a solid fill to a marker pattern, click the Properties button.
Display Source
Drawing
Insert
1623599.17 13134907.67 Feet
start
Customer Service To...
Presentation3
ToolkitGIS_Template....
10:39 AM

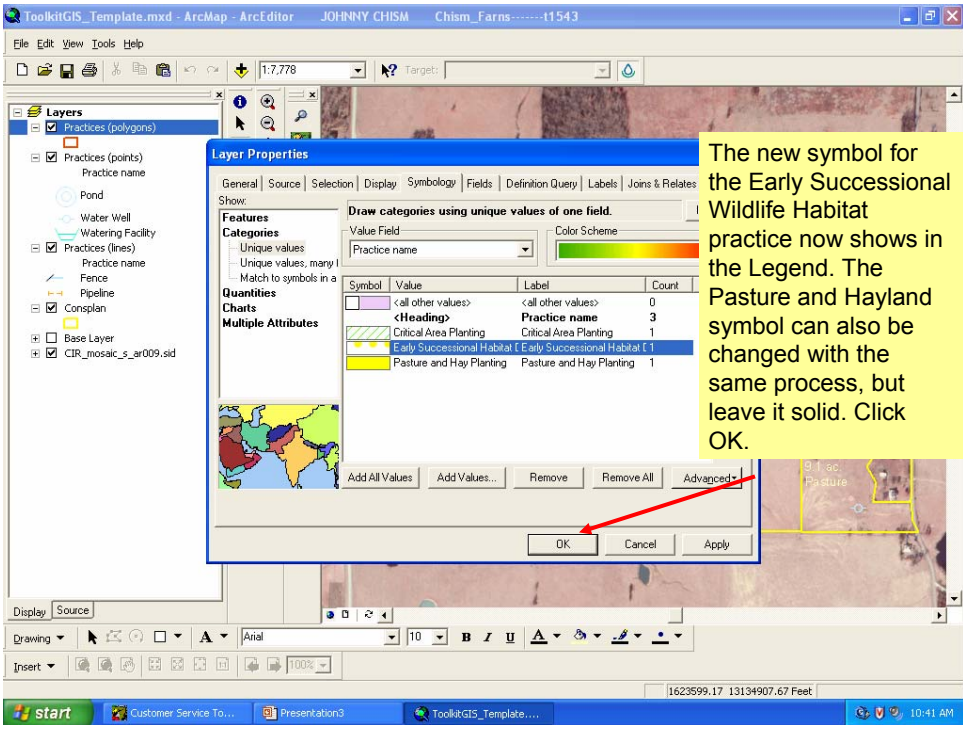

Symbol Property Editor
In the Type dropdown box, select Marker Fill Symbol. To choose the Marker pattern click the Marker button.

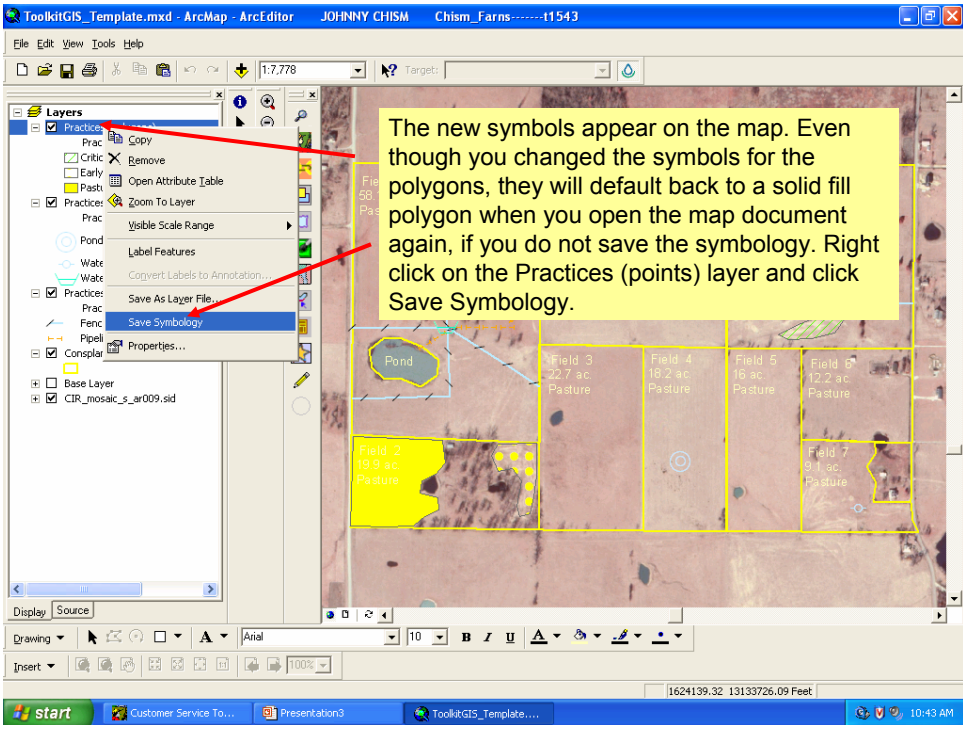

Symbol Selector
Choose the marker you wish to use.

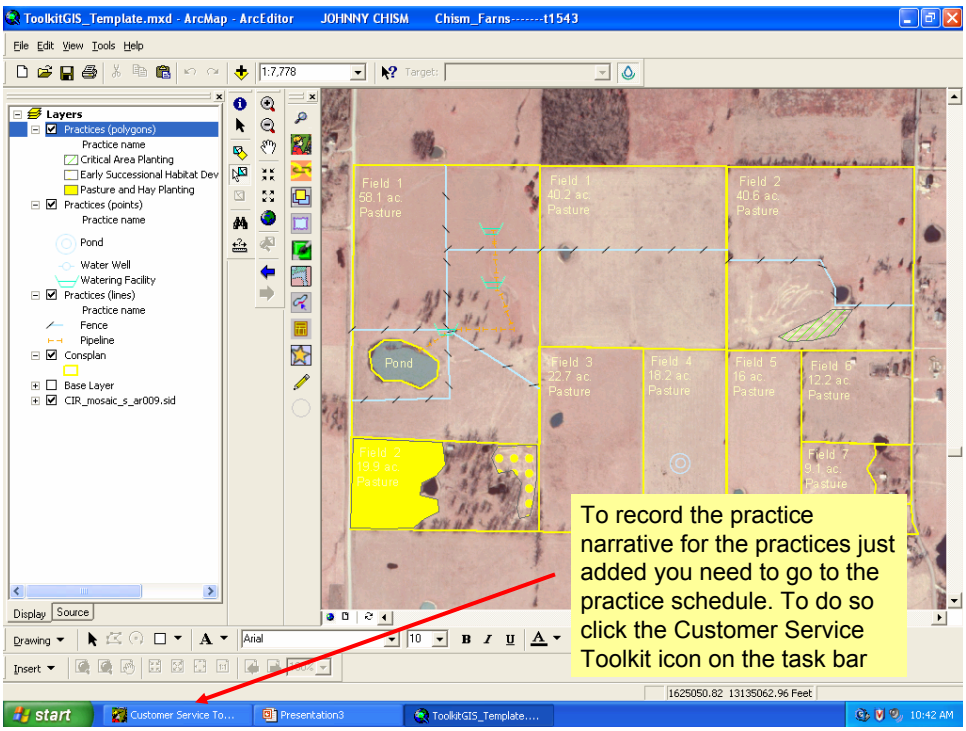

Symbol Selector
You can change the color and size of the marker, then click OK.

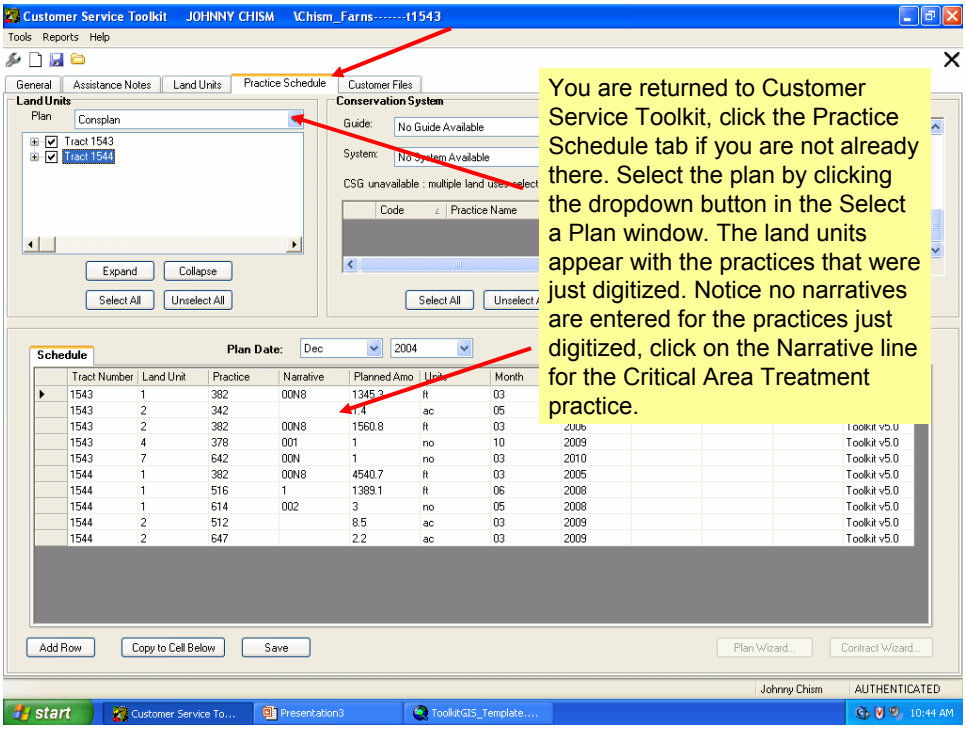

Symbol Property Editor
The new marker appears, Click OK.

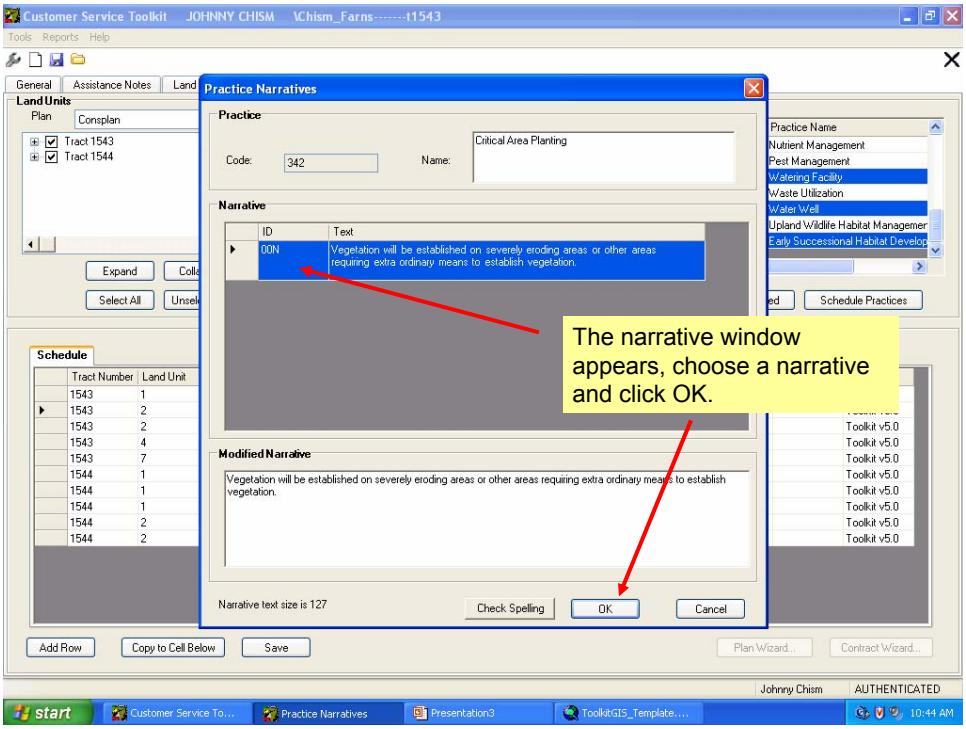

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Symbol Selector
Category: All
Preview
Green
Blue
Sun
Hollow
Lake
Rose
Beige
Yellow
Olive
Green
Jade
Blue
Options
Fill Color:
Outline Width: 1.00
Outline Color:
Properties...
More Symbols
Save...
Reset
OK
Cancel
Click OK.

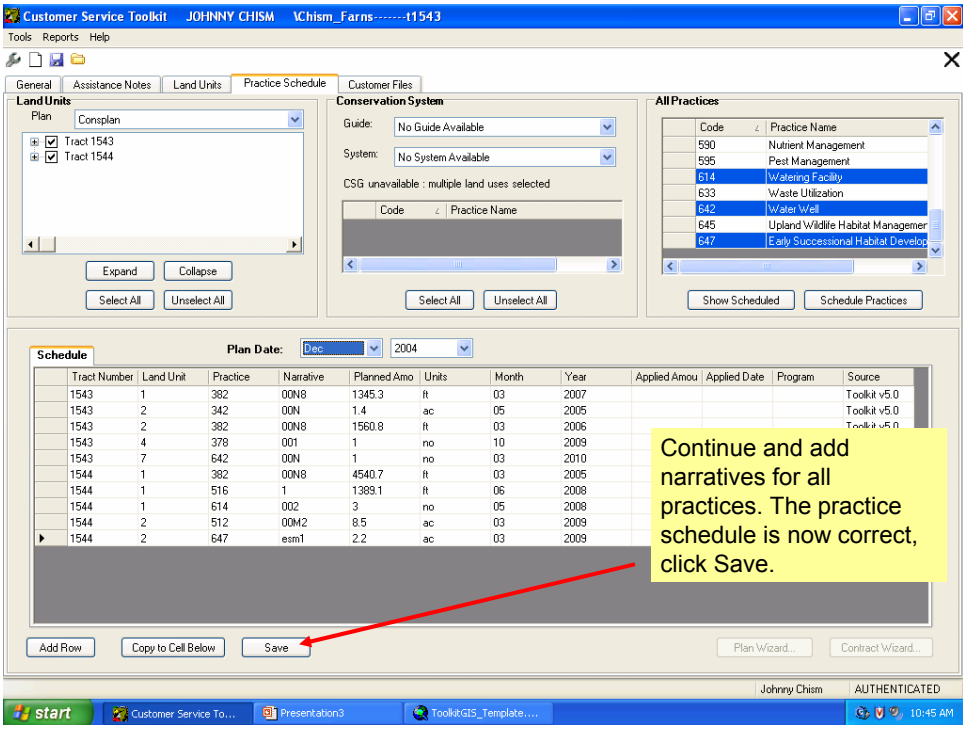

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
Layer Properties
General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Joins & Relates
Show:
Features
Categories
Unique values
Unique values, many
Match to symbols in a
Quantities
Charts
Multiple Attributes
Draw categories using unique values of one field.
Value Field
Practice name
Color Scheme
Symbol | Value | Label | Count
<all other values> <all other values> 0
<Heading> Practice name 3
Critical Area Planting Critical Area Planting 1
Early Successional Habitat Early Successional Habitat 1
Pasture and Hay Planting Pasture and Hay Planting 1
Add All Values
Add Values...
Remove
Remove All
Advanced
OK
Cancel
Apply
The new symbol for the Early Successional Wildlife Habitat practice now shows in the Legend. The Pasture and Hayland symbol can also be changed with the same process, but leave it solid. Click OK.

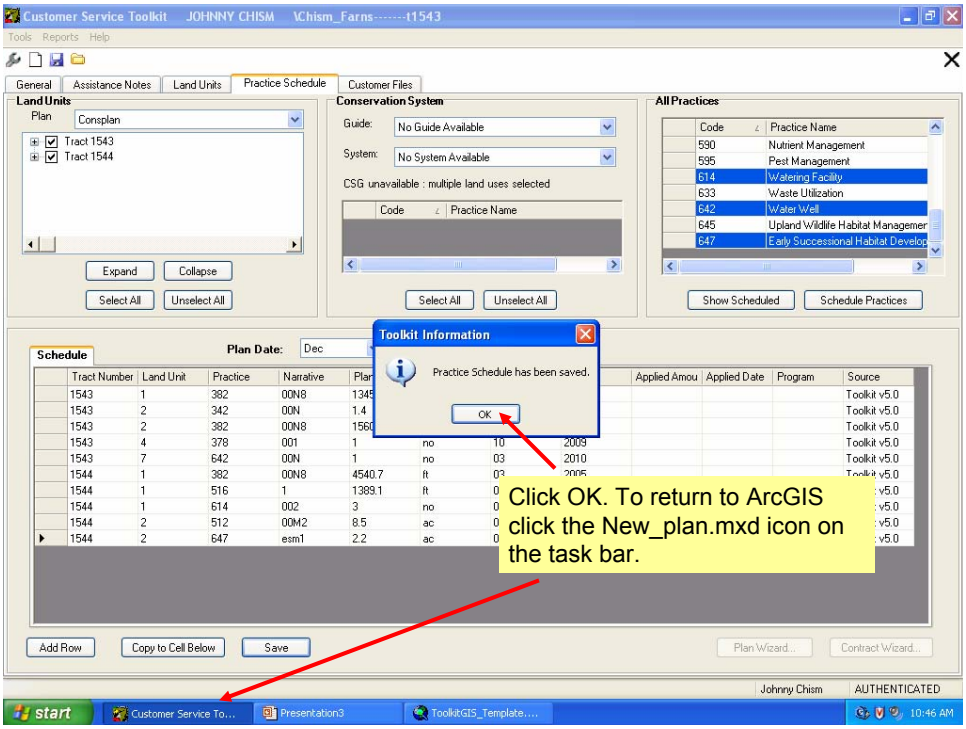

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Copy
Remove
Open Attribute Table
Zoom To Layer
Visible Scale Range
Label Features
Convert Labels to Annotation...
Save As Layer File...
Save Symbology
Properties...
Base Layer
CIR_mosaic_s_ar009.sid
Display Source
Pond
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
1624139.32 13133726.09 Feet
start
10:43 AM
The new symbols appear on the map. Even though you changed the symbols for the polygons, they will default back to a solid fill polygon when you open the map document again, if you do not save the symbology. Right click on the Practices (points) layer and click Save Symbology.

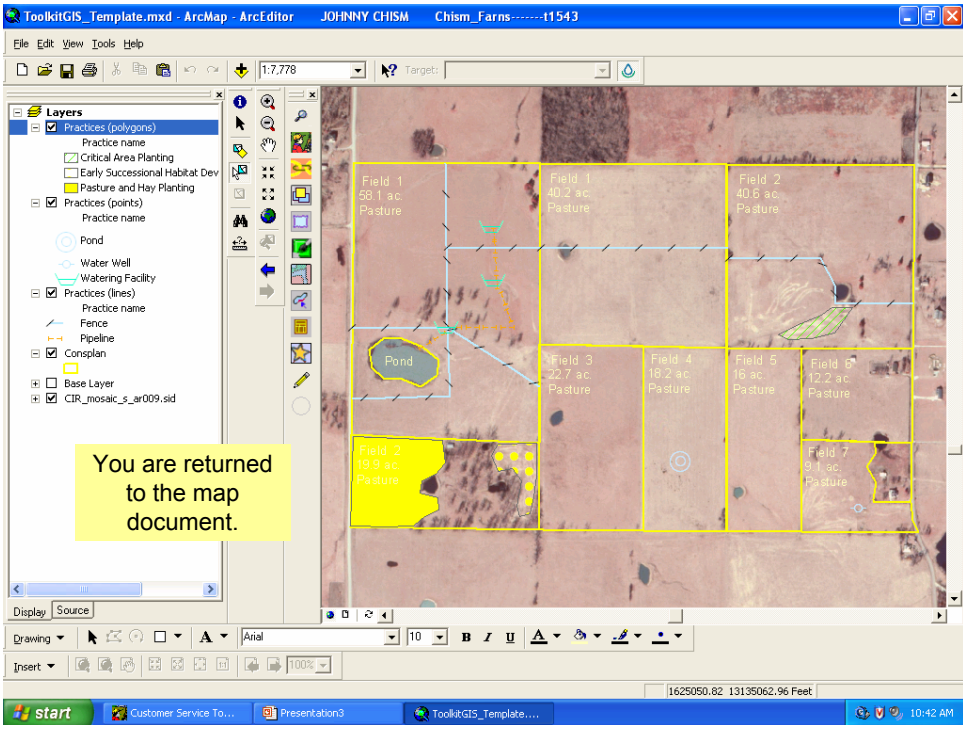

ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practice name
Critical Area Planting
Early Successional Habitat Dev
Pasture and Hay Planting
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
Display Source
Field 1 58.1 ac. Pasture
Field 1 40.2 ac. Pasture
Field 2 40.6 ac. Pasture
Pond
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
1625050.82 13135062.96 Feet
start
10:42 AM
To record the practice narrative for the practices just added you need to go to the practice schedule. To do so click the Customer Service Toolkit icon on the task bar

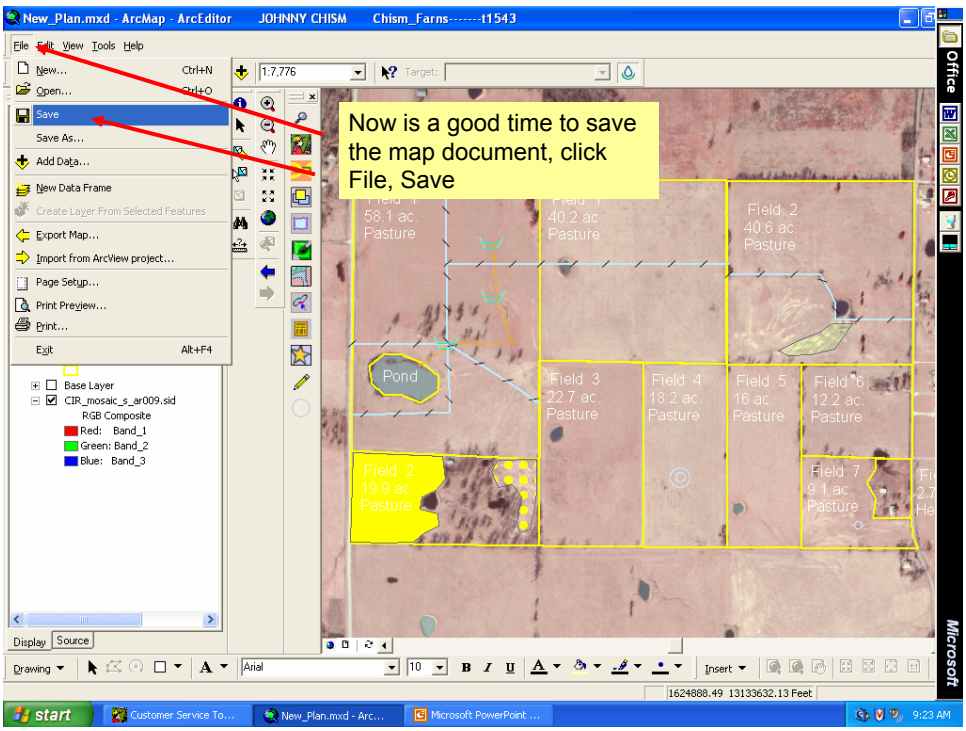

You are returned to Customer Service Toolkit, click the Practice Schedule tab if you are not already there. Select the plan by clicking the dropdown button in the Select a Plan window. The land units appear with the practices that were just digitized. Notice no narratives are entered for the practices just digitized, click on the Narrative line for the Critical Area Treatment practice.


The narrative window appears, choose a narrative and click OK.


Customer Service Toolkit JOHNNY CHISM \Chism_Farns-------t1543
Tools Reports Help
General Assistance Notes Land Units Practice Schedule Customer Files
Land Units
Plan Consplan
Tract 1543
Tract 1544
Expand Collapse
Select All Unselect All
Conservation System
Guide: No Guide Available
System: No System Available
CSG unavailable : multiple land uses selected
Code Practice Name
Select All Unselect All
All Practices
Code Practice Name
590 Nutrient Management
595 Pest Management
614 Watering Facility
633 Waste Utilization
642 Water Well
645 Upland Wildlife Habitat Management
647 Early Successional Habitat Develop
Show Scheduled Schedule Practices
Schedule
Plan Date: Dec 2004
Tract Number Land Unit Practice Narrative Planned Amo Units Month Year Applied Amou Applied Date Program Source
1543 1 382 00N8 1345.3 ft 03 2007 Toolkit v5.0
1543 2 342 00N 1.4 ac 05 2005 Toolkit v5.0
1543 2 382 00N8 1560.8 ft 03 2006
1543 4 378 001 1 no 10 2009
1543 7 642 00N 1 no 03 2010
1544 1 382 00N8 4540.7 ft 03 2005
1544 1 516 1 1389.1 ft 06 2008
1544 1 614 002 3 no 05 2008
1544 2 512 00M2 8.5 ac 03 2009
1544 2 647 esm1 2.2 ac 03 2009
Add Row Copy to Cell Below Save
Plan Wizard... Contract Wizard...
Continue and add narratives for all practices. The practice schedule is now correct, click Save.
Johnny Chism AUTHENTICATED
start Customer Service To... Presentation3 ToolkitGIS_Template.... 10:45 AM


Customer Service Toolkit JOHNNY CHISM \Chism_Farns-------t1543
Toolkit Information
Practice Schedule has been saved.
OK
Click OK. To return to ArcGIS click the New_plan.mxd icon on the task bar.
start Customer Service To... Presentation3 ToolkitGIS_Template.... 10:46 AM


ToolkitGIS_Template.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
Layers
Practices (polygons)
Practice name
Critical Area Planting
Early Successional Habitat Dev
Pasture and Hay Planting
Practices (points)
Practice name
Pond
Water Well
Watering Facility
Practices (lines)
Practice name
Fence
Pipeline
Consplan
Base Layer
CIR_mosaic_s_ar009.sid
You are returned to the map document.
Field 1 58.1 ac. Pasture
Field 1 40.2 ac. Pasture
Field 2 40.6 ac. Pasture
Pond
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
start
10:42 AM


New_Plan.mxd - ArcMap - ArcEditor JOHNNY CHISM Chism_Farns-------t1543
File Edit View Tools Help
New... Ctrl+N
Open... Ctrl+O
Save
Save As...
Add Data...
New Data Frame
Create Layer From Selected Features
Export Map...
Import from ArcView project...
Page Setup...
Print Preview...
Print...
Exit Alt+F4
Now is a good time to save the map document, click File, Save
Base Layer
CIR_mosaic_s_ar009.sid
RGB Composite
Red: Band_1
Green: Band_2
Blue: Band_3
Field 1 58.1 ac. Pasture
Field 1 40.2 ac. Pasture
Field 2 40.6 ac. Pasture
Pond
Field 3 22.7 ac. Pasture
Field 4 18.2 ac. Pasture
Field 5 16 ac. Pasture
Field 6 12.2 ac. Pasture
Field 2 19.9 ac. Pasture
Field 7 9.1 ac. Pasture
start
9:23 AM