

Tuesday Afternoon: Led by Darci

Open Project: TuesdayAfternoon

In Drawing Order: Hybrid Reference Layer, County, IncorporatedAreas, World Imagery

Locate Tool:

LOCATE Search an address: 2610 Claflin Rd, Manhattan, KS 66502

LOCATE Search a Lat/Long: -96.590995, 39.257394

LOCATE Search Intersection: Anderson Ave & N Manhattan Ave, Manhattan, KS

LAYER SEARCH Type in Riley

Feel free to try your own search

Add Data:

Catalog Pane: TuesdayAfternoon – NotableFires

Data – My Groups: “K-State Research & Extension GIS” Kansas Arboretums

Data from Path: Champion Trees

https://services.arcgis.com/djZgF6YJCuO8rbmH/arcgis/rest/services/Champion_Tree_Public/FeatureServer

Symbology:

NotableFires

- Change Outline to Red
- Increase Outline Size
- Change inside color to no color

IncorporatedAreas

- Change the inside color to gray
- Set transparency to 50% (Feature Layer tab)

ChampionTrees09292014

- Note: Unique Values
- Primary Symbology – Heat Map

Selection:

Select:

- Look at dropdown view. Try out the various options

Select by Attribute:

- Input Rows: NotableFires
- Selection Type: New Selection
- Where ‘Year’ is equal ‘2023’
- Should select 22 wildfires

Select by Location:

- Input Features: County
- Relationship: Intersect
- Selecting Features: Arboretums
- Should select 14 Counties

Clear Selection or click off the selectable features

TASK

Select the County you want to work in.

Export Selection to a Feature Class

- Right Click on County in Contents Pane
- Select Data – Export Features
- Save in Home Geodatabase. Name accordingly. (Riley, RileyCounty, RLCO)
- Right Click on new county layer
- Zoom to Layer

Create a New Feature Class

- Open the Catalog Pane
- Right Click on the Geodatabase – New – Feature Class
- Name (no spaces) PublicSpaces or Public_Spaces
- Alias (How you want it to look in Contents) Public Spaces
- Leave Polygon – Next
- Add Fields:
 - Name, Text
 - Type, Text
 - Size, Double, Alias: Acres
- Projection
 - NAD 1983 UTM Zone 14N or 15N
 - Projected Coordinate System – UTM – NAD 1983 – You can right click to make favorite

TASK

Change symbology of new layer

TASK

Make Public Space the only editable layer

Create Polygons and Add Attribute Data

Locate Parks, Disc Golf Courses, Golf Courses, Cemeteries, Schools

- Open Create Features Pane
- Click public spaces (I encourage you to try the different types of creating features buttons)
- Draw a polygon around the public space
- Add Name of public space (attribute pane or attribute table)
- Add Type of public space (attribute pane or attribute table)
- Click Save Edits button

TASK

Make several polygons of each type.

Save Edits.

Edit Polygons

Open Modify Features Pane (Found in the Edit Tab)

Make sure that Public Spaces is the only selectable layer

Try out several tools. I recommend these:

- Move
- Rotate
- Scale
- Edit Vertices
- Reshape
- Split
- Divide
- Merge

You do not have to save your changes. You can always hit undo. This is just a time to explore how you can edit shapes, lines and points after you create them.

Calculate Geometry

- Open Attribute Table for Public Spaces (Right Click)
- Right Click 'Acres' Choose Calculate Geometry
 - Input Features – Public Spaces
 - Geometry Features - Acres
 - Property – Area
 - Area Unit – International Acres
 - Coordinate System – Choose Public Spaces
 - Hit Ok.

Add Attribute Field

- Click on 'Add' (Top left of attribute table)
- Field Name – Fee
- Alias – Fee
- Data Type – Text
- Save Edits
- Close 'Fields'
- Add in Yes or No to each field
- Save Edits.

Create a Definition Query

- Right click on the Public Spaces layer in the Contents Pane
- Select Properties
- Select Definition Query
- New definition query
- Change Query 1 to 'Fee'
- Where – Type is equal to Park
- You can turn off the definition query (uncheck the green checkmark)

Labels

- Turn labels on – Click on Public Spaces in Contents Pane; Click Labeling Tab (above); Check “Label Features In This Class”
- Change font, size, color, etc.
- In the Label Class Pane
 - Symbol
 - Halo – Halo Color White; Halo Size 1 pt
 - Position
 - Placement – explore options
 - Remove Duplicate Labels
- Cover Classes

Join

- Add table from Documents to map
 - CountyProperties – Sheet1\$
- Right Click County Layer in Contents Pane
- Click on Join and Relates – Add Join
 - Input Table – County
 - Input Join Field – NAME
 - Join Table – Sheet1\$
 - Join Table Field – NAME
 - Click on Validate Join – You should have 105 matches
 - Click Join
- Open County Attribute Table
 - You should see PROTECTED_AREAS included in attributes

BONUS TASK

- Change the Symbology of the County Layer to Graduated Colors using Protected_Areas
- Add County labels
- You can turn off the layer or revert it back to single symbol

TASK

Create a Layout

Map Series

- Insert Tab
- Turn on Spatial Map Series
- Layer – Public Spaces
- Name Field – Name
- Sort Field – Name
- Insert Title - Dynamic Text – Map Series – Page Name
 - Delete Page Name Text
 - Update Font, size and color of title
- Remove Service Credits – Dynamic Text – Service Layer Credits
 - Draw a Polygon off the layout

TASK

Finish creating the layout for a final product

- You can stick with the Map Series or turn off the Map Series

Export Layout

- Share Tab – Export Map
- File Type
- Name – make sure to save it to a place you remember
- Vector Resolution – I usually keep at 300
- If you are doing a map series: Click on Map Series in the Export Layout Pane
 - Pages – All
 - Files – Single PDF File