## Child Abuse and Neglect in Oklahoma

#### Introduction

I decided to focus my final project on the child abuse and neglect statistics for the State of Oklahoma. I have worked with the Department of Human Services since May 2019 with a short break of service, returning in October 2020. Being on the front line working with Child Protective Services (CPS) I saw firsthand how little resources Oklahoma has for services, mental health or substance abuse, and the overall lack of parental knowledge that the smaller communities of Oklahoma struggle with. With the lack of parental knowledge, mental health and substance abuse providers being scares in the smaller communities, we see child abuse and neglect. My goal for this project was to shed light on how many child abuse and neglect investigations were assigned and how many were substantiated. I also wanted to visually depict the difference in types of substantiations, either abuse, neglect, or both. In the beginning of the project, I started with just showing how many substantiations, investigations, and how they were classified per county, but I later wanted to show the percentage of those classifications by county. I believe that this new information will help to show a bigger picture rather than just how many substantiations per population of each topic that there were.

### **Definitions**

Oklahoma Department of Human Services says that a child abuse and neglect investigation is the response to an allegation of abuse or neglect that involves a serious and immediate threat to the safety of the child making it necessary to determine the current safety of that child and the risk of subsequent abuse or neglect, if that child abuse or neglect occurred, and if the family needs prevention and

intervention-related services. They define abuse as harm or threat of harm by a person responsible for a child's health, safety, or welfare including non-accidental physical or mental injury or sexual abuse or sexual exploitation. They also define neglect as the failure of or omission by the person responsible for a child to provide the child with adequate nurturance and affection, food, clothing, shelter, medical, dental, or behavioral health care and other special care needs, and exposure to the use, abuse, possession, sale, or manufacture of illegal drugs, activities, or sexual acts or materials that are not age appropriate, and abandonment. Substantiation means that the department has concluded its investigation and has found that there is some credible evidence that abuse, or neglect has occurred.

### **Data Source**

The information that I have gathered for this project includes a state map of Oklahoma obtained from the ArcGIS, a County Boundary map — originally from lab 3 in class but from the OU GIS warehouse, and Oklahoma population from the Oklahoma Demographics website. Child abuse and neglect statistics taken from the Oklahoma Department of Human Services (OKDHS) statistics library for fiscal year 2019 and definitions from the policy library. I combined the data from OKDHS in an excel spreadsheet and added a column for each of the additional data topics I needed. I used ArcGIS as the platform for this project.

### **Project Strategy**

I began by creating a new map in ArcGIS. I added in the shapefile – County Boundaries to the table of contents. I then added the table 'Final Dataset' that included 5 different data tables to my table of contents. I needed to combine the attribute tables between the shapefile and my data table, for this I opened the attribute tables and compared them to see what common column they had. I found that between the two attribute tables, I was able to use Join and Relates to join 'Name10' and 'County'. By

joining these two attribute tables, I was then able to have a value assigned to each county. This value is where the remainder of my data came from.

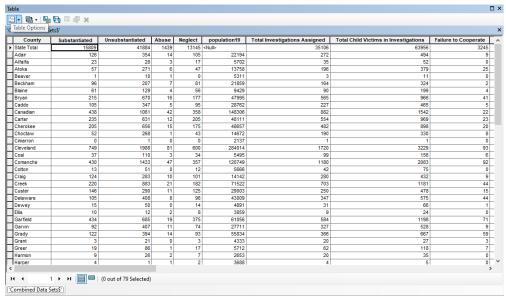
After joining my attribute tables, I was able to go ahead with my visual representations of what I wanted to show. Once I had my shapefile with the combined attribute table, I was able to go into symbology and select quantities. I chose to use graduated colors since the data was for the entire county, not particular locations within the county. I used a mixture of natural breaks (Jenks) and manual breaks to adjust the ranges for each of the maps. The color ramp I decided to go with were light green to dark green. I felt that this was enough to visually separate each range but still be pleasing to the eye. While in the layers properties I was able to add in labels for each of the counties, adjusting them to try horizontal first, then straight.

Once all data was selected, I added in a title, scale bar, north arrow, legend, and source and author information. I added in a new data frame and placed a map of the United States inside. I used the same layout for each of the 10 maps created. I found this was the easiest method, while saving each project before changing the data and information.

- 1. Create a new map ArcGIS
- 2. Add data
  - a. SHP file from file Oklahoma by County



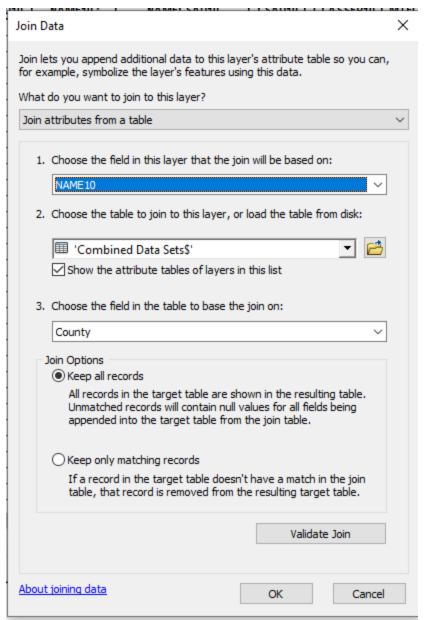
b. Add table "Combined Data Set" from file "Final Dataset"



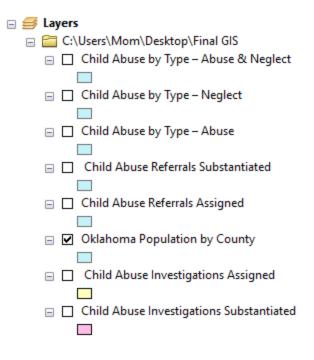
- 3. Open attribute table for Oklahoma by County
  - a. Joines and Relates

i.

i. Join

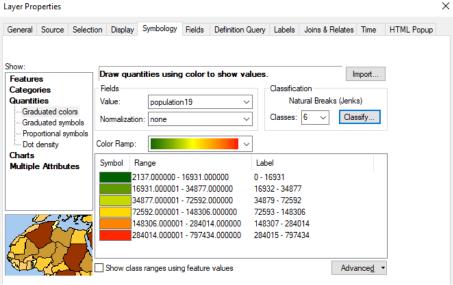


- 4. Now that tables are joined, you can use this data to make several maps based on what information within the tables you want.
  - a. Copy original layer, rename each layer... Population by County, Child Abuse
    Investigations Assigned, Child Abuse Investigations Substantiated, Child Abuse by Type –
    Abuse, Child Abuse by Type Neglect, Child Abuse by Type Abuse & Neglect



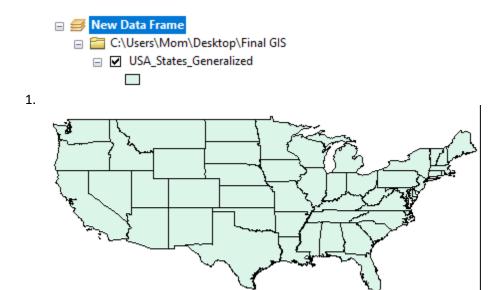
i.

- 5. Change map to Layout view, add in rules, snap map to grid
- 6. 1st map will be a population map. Oklahoma Population by County
  - a. Symbology
    - i. Re-label each labeled amount to remove .000000 Natural Breaks (Jenks) 6 classes, color ramp green to red \*later changed to green scale

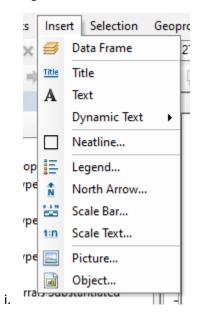


Inserted New Data Frame

i. United States of America by state - ArcGIS shp file



c. Added Legend, Scale Bar, North Arrow, Dynamic Text



# **Results**

My results were not surprising. While counties such as Oklahoma, Tulsa, Cleveland, Canadian, and Comanche have the highest populations in the state, the percentage of investigations assigned and substantiated were not within these counties. Ellis County, with a population of 3850, is showing with the highest percentage of substantiations per population in the state. Ellis, Harper, Woods, Major,

Kingfisher and Roger Mills counties had the highest percentage of substantiations by population in the State. Ellis, Woods, Major, and Roger Mills also had the highest percentage of neglect substantiations, while Ellis was one of the top three in highest percentage in abuse substantiations. This visual information can help those counties to identify what needs, behavioral health, substance abuse, and/or overall parenting knowledge are needed in the communities.

## Things that went wrong

The very first thing that went wrong was that once I joined my attribute tables, Le Flore County would not populate. I found that on the shapefile 'County Boundaries' it was spelt "Le Flore" while on my data table it was spelt "LeFlore". I had to go in and change the data table to match the shapefile and then I was able to rejoin the two and it showed up correctly. Another issue I ran into was color schemes. While the color ramp green to red allows you to see the difference in data, going from dark green to light green to orange, yellow, and then red was confusing. I played around with several other ramps until I decided upon the green light to dark ramp.

### Things to change next time

Procrastination. I wanted to wait until I was comfortable with the information before I began my project. I noticed that my overall project was very basic. This may be because I waited so long to come up with the idea for my project or that I just picked a very basic idea. Either way, I'd like to dig deeper into the Child Abuse and Neglect data by focusing in on one county and looking at demographics, generational cases, and types of abuse and neglect that is really happening. Another category to investigate is who is the offending party and what is the relationship to the child or children. All this information is not open to the public, but as an employee and student, I believe I can obtain this information legally.

# **Sources**

Oklahoma Department of Human Services Library

http://www.okdhs.org/library/rpts/Pages/s19\_dhsannualreport\_tables.aspx

OU Data Warehouse - County Boundaries

http://data.csa.ou.edu

ArcGIS - United States Map - Generalized

https://hub.arcgis.com/datasets/esri::usa-states-generalized

Oklahoma Demographics – Population

https://www.oklahoma-demographics.com/counties by population