Innocent Nsabimana

Partner: Braxton Anderson

Computer Science 150

**Lab Evaluation**

Q: How many sirens are within 1/2 mile? Within 1 mile?

* There is only one siren that is within 1/2 mile
* There are two sirens that are within 1 mile

Q: Which school is closest to a siren? Which school is furthest away from a siren?

* The closest school to a siren is Ruth Doyle Middle
* The furthest away school from a siren is Carolyn Lewis Elementary

Q: Based on this graph, at what GPS coordinates would you recommend adding a new tornado siren?

* I would recommend a new siren at coordinate 35.05 latitude, 92.500 longitude in order to help the school “Carolyn Lewis Elementary” be closer to a tornado siren.

Q: What other data would we need to consider, and assumptions do we need to verity before making the conclusion that more tornado sirens are needed?

* We need more data about how many times tornedos have been affecting specific places. Then we can come up with an assumption that more tornado sirens added to those places can prevent people who live there from being affected so much by tornadoes.

**Reflective question**

* Which graph above did you find the most useful in analyzing this data and why?

The last graph that shows both sirens and schools was more important at analyzing the data because it helped me to analyses the locations of schools and sirens at the same time. Also, I was able to label some schools as they were together with sirens. As a result, that information helped me to make conclusions about what can be done in specific locations such adding more tornado sirens there.

* Examine the other datasets available from the City of Conway. What are two other civic research questions you could imagine answering using the tools we learned in this lab?

On the City of Conway website, there are data about streets in Conway that can be used for research purposes, and bellow are potential research questions.

* Q1: How can we minimize time taken to drive from one place to another in Conway.
* Q2: What is the minimal distances that can used to construct roads that will help people to drive faster from one place to another in Conway city.
* Describe a useful dataset that is not posted on the City of Conway website and how civic hacking could be used with it to address a community need.

Data about car accidents and there they occurred in past years can be helpful to address a community need. These datasets can used to inspect various reasons why accidents tend to happen more in some roads than others. Such information can be used in concluding to renovate the roads that causes more accidents if those roads are old or not properly constructed. As a result, community will benefit from stopping to face more car accidents caused by bad construction of roads.