

# Locations of Indoor Ice Rinks in the Buffalo Metro Area vs. the Birmingham Metro Area

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NFHS

GTEST GIS camp 2019



# Purpose

- Plot the points of all the indoor ice rinks in the Birmingham Metro Area and the Buffalo Metro Area.
- Compare the concentration of the ice rinks in the respective areas.
- See where ice skating related activities are more popular.



# Location

- **Birmingham Metro Area:**

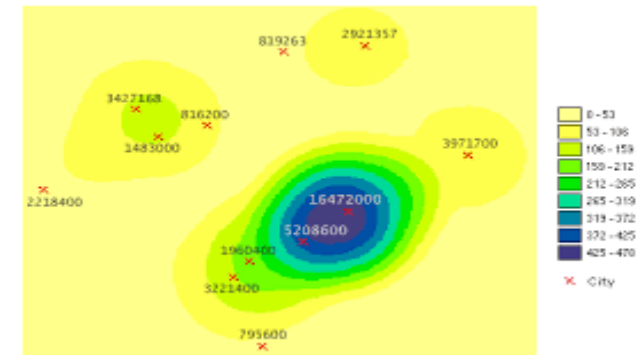
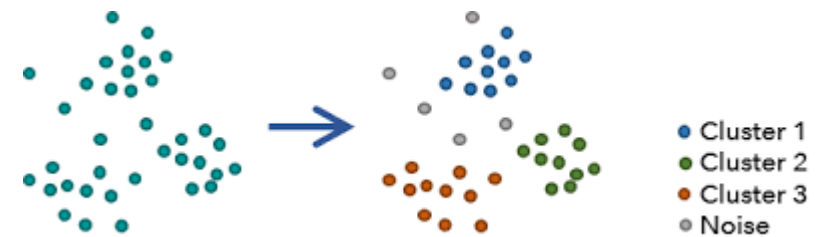
- Chilton County
- Bibb County
- Shelby County
- Jefferson County
- Walker County
- Blount County
- St. Clair County

- **Buffalo Metro Area:**

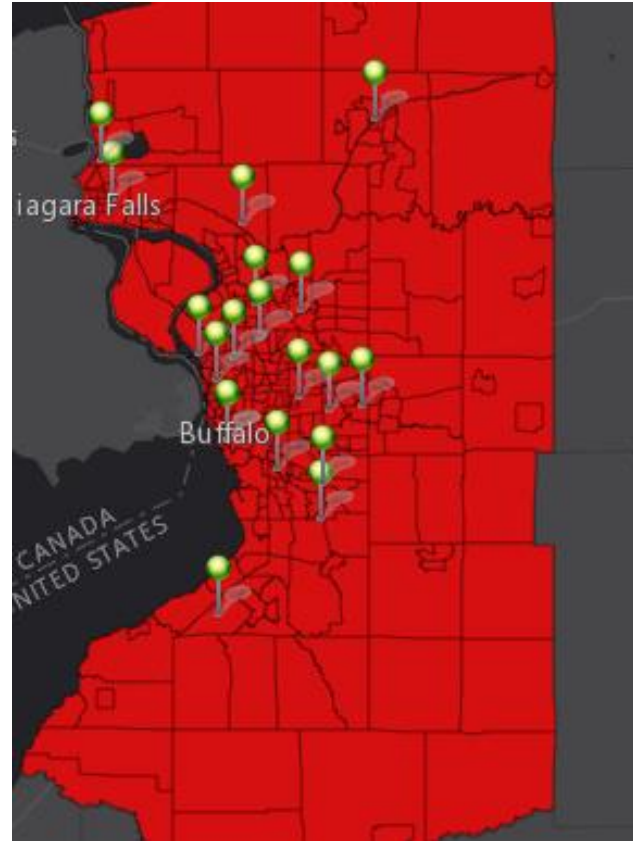
- Niagara County
- Erie County

# Analysis

- I used the Find Point Cluster analysis which allowed me to see multiple clusters of ice rinks in the Buffalo Metro Area.
- I used the Calculate Density analysis and saw that the ice rinks were much denser in the Buffalo Metro Area.



# Results

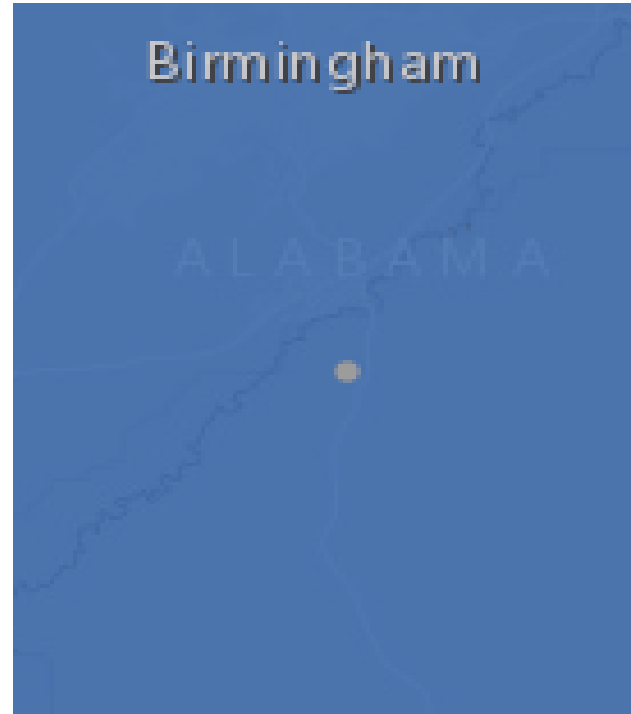


In the above diagram you can see the 18 different ice rinks in the Buffalo Metro Area.

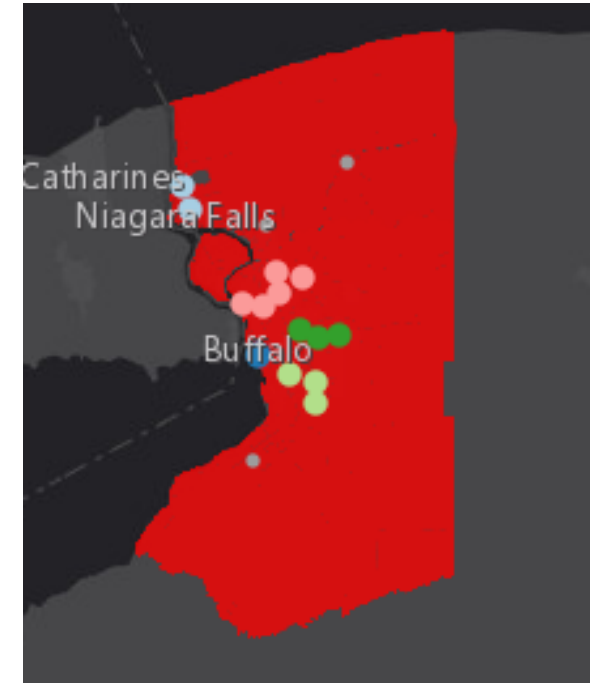


In the above diagram you can see the single ice rink in the entirety of the Birmingham Metro Area.

# Results Continued

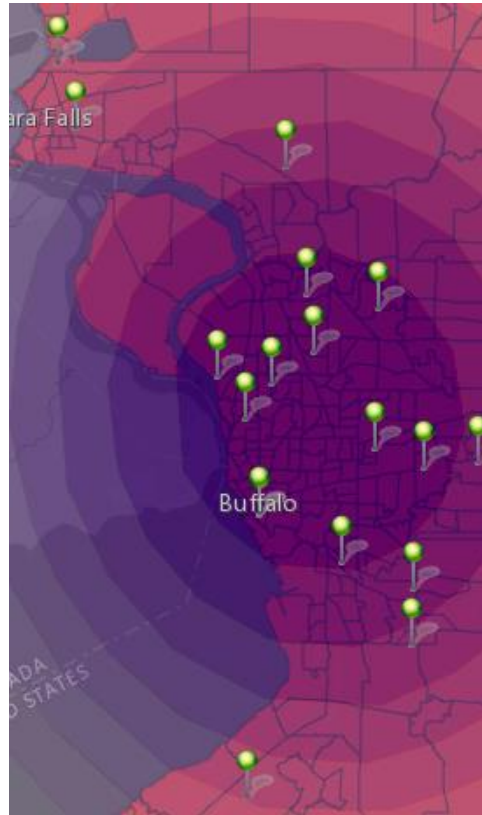


This diagram is also showing clusters but since there is only one point in the area no clusters can be formed.

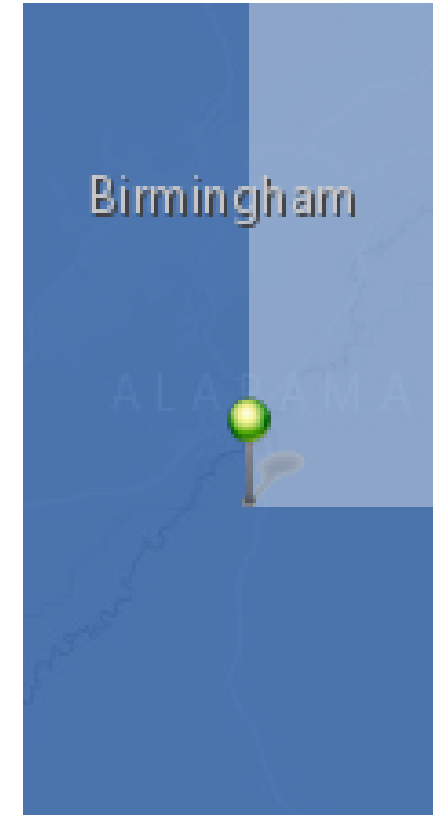


The above diagram shows the clusters of different ice rinks; a different color represents a different cluster of rinks.

## Results Continued



This diagram shows the density of ice rinks in the Buffalo area; as you can see the rinks are more dense in the darker shaded areas



This diagram shows the density of ice rinks in the Birmingham area. Since there is only one point the density shade is very light.

# Career Plans

- Who I am:
  - I like and am good at hockey and baseball.
  - School Subjects I like are Math & ELA.
  - School Subjects I'm good at are Math and Science.
  - My interest areas are investigative, conventional and enterprising.
- Where I'm Headed:
  - I researched law careers, and they defend or prosecute people in court.
  - The amount of training a lawyer needs is a JD.
  - What I like about what a lawyer does is the competitive aspect of going against another person in court.



# Career Plans Continued

- How can I get there:
  - This summer I will finish this GIS camp and look up colleges that may be a good fit for me.
  - This year I will concentrate on doing well in school so I can get in the best college for me.
  - My teachers, parents and hockey coach can help me on my career path.
  - GIS can help me as a lawyer by allowing me to see where crime is more affluent to help me know where a client could've been.

# References

- [https://www.google.com/search?rlz=1C1GCEV\\_enUS857US857&q=ice+rinks+in+buffalo+ny&npsic=o&rflfq=1&rlha=o&rllag=42900057,-78842459,6289&tbm=lcl&ved=2ahUKEwjAg\\_y1xcjjAhUSqlkKHaEXBUMQjGp6BAgKEDo&tbs=lrf:!2m1!1e2!2m1!1e3!3s!AE,lf:1,lf\\_ui:2&rldoc=1#rifi=hd:;si:;mv:!1m2!1d43.999631725586504!2d-75.26195548266105!2m2!1d41.94202568105933!2d-80.45848868578605!4m2!1d42.97943493654708!2d-77.86022208422355!5i8](https://www.google.com/search?rlz=1C1GCEV_enUS857US857&q=ice+rinks+in+buffalo+ny&npsic=o&rflfq=1&rlha=o&rllag=42900057,-78842459,6289&tbm=lcl&ved=2ahUKEwjAg_y1xcjjAhUSqlkKHaEXBUMQjGp6BAgKEDo&tbs=lrf:!2m1!1e2!2m1!1e3!3s!AE,lf:1,lf_ui:2&rldoc=1#rifi=hd:;si:;mv:!1m2!1d43.999631725586504!2d-75.26195548266105!2m2!1d41.94202568105933!2d-80.45848868578605!4m2!1d42.97943493654708!2d-77.86022208422355!5i8)
- [https://www.google.com/search?rlz=1C1GCEV\\_enUS857US857&q=ice+rinks+in+birmingham+al&npsic=o&rflfq=1&rlha=o&rllag=33472132,-86700853,17844&tbm=lcl&ved=2ahUKEwj2kYq71sjjAhVRuVkkHe2MBEYQtgN6BAgKEAQ&tbs=lrf:!2m1!1e2!2m1!1e3!3s!AE,lf:1,lf\\_ui:2&rldoc=1#rifi=hd:;si:;mv:!1m2!1d34.34538607292009!2d-83.02567427499486!2m2!1d31.99144492319651!2d-88.22220747811986!4m2!1d33.176318334731924!2d-85.62394087655736!5i8](https://www.google.com/search?rlz=1C1GCEV_enUS857US857&q=ice+rinks+in+birmingham+al&npsic=o&rflfq=1&rlha=o&rllag=33472132,-86700853,17844&tbm=lcl&ved=2ahUKEwj2kYq71sjjAhVRuVkkHe2MBEYQtgN6BAgKEAQ&tbs=lrf:!2m1!1e2!2m1!1e3!3s!AE,lf:1,lf_ui:2&rldoc=1#rifi=hd:;si:;mv:!1m2!1d34.34538607292009!2d-83.02567427499486!2m2!1d31.99144492319651!2d-88.22220747811986!4m2!1d33.176318334731924!2d-85.62394087655736!5i8)