Alachua County Women and Children Community Centers

Jordan Brothers Yana Sobora Travis Eisentraut Kira Taylor-Hoar

Introduction

As part of our assignment, we constructed a GIS based project using the program ArcGIS. The purpose of the project was to ascertain the ideal location for three Community Centers targeted directly towards underprivileged children and domestically abused women.

The obvious necessity for these community centers was made apparent to us both through the statistics we received, and through the testimony of Courtney M. Allen who spoke to us regarding the McKinney-Vento laws. Among these reasons are the facts that in Alachua County alone there are over 50,000 people in poverty, and at least 8% of which are children. In addition to this, on average there are over 2,000 reported cases of domestic abuse, as well as untold numbers of unreported cases. We also learned from Courtney Allen that she is the only person in Alachua County who is assigned to work on cases that involve the McKinney-Vento laws, which helps to show how overextended those few dedicated individuals who are available to these families have become.

The study area we used for this project was limited to Alachua County. It was important to limit the scope of our project to Alachua County not only because of the above stated facts, but also because otherwise it would not have been feasible to select only three sites with the greatest need for these community centers. If we had needed to spread the centers out over a greater area we feel that they would have been able to do less good overall, and in all likelihood would have done relatively little to alleviate the stress that is currently placed on the existing community centers due to their over crowdedness.

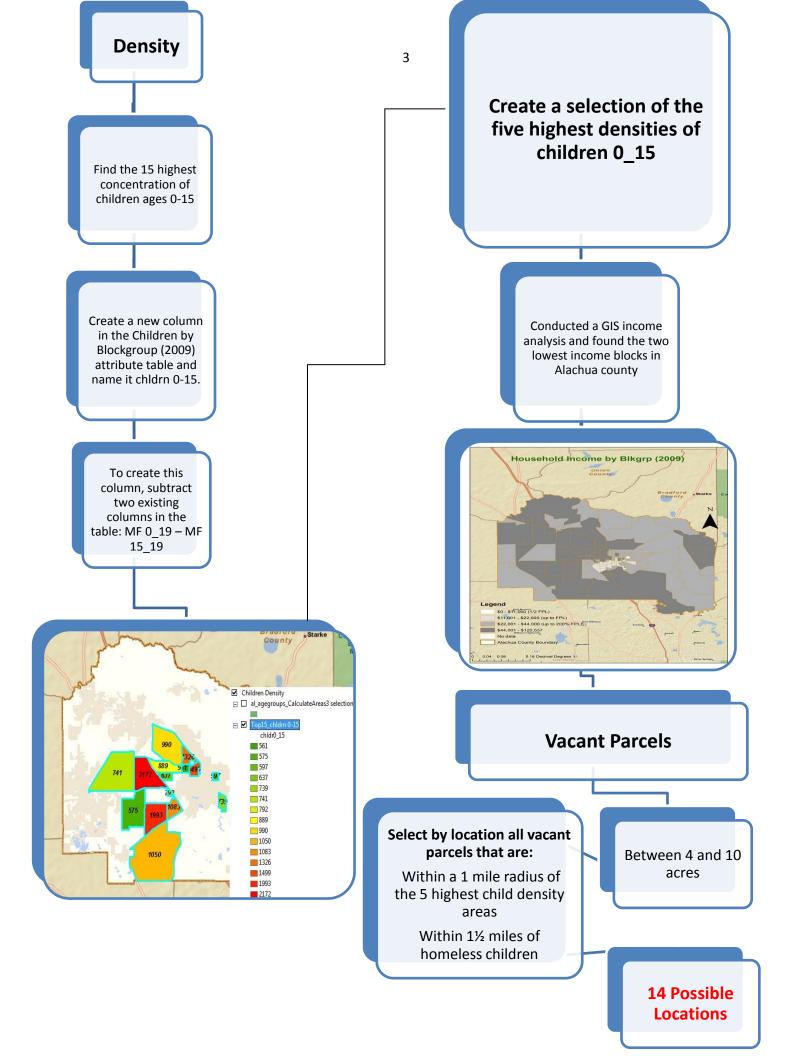
Objectives

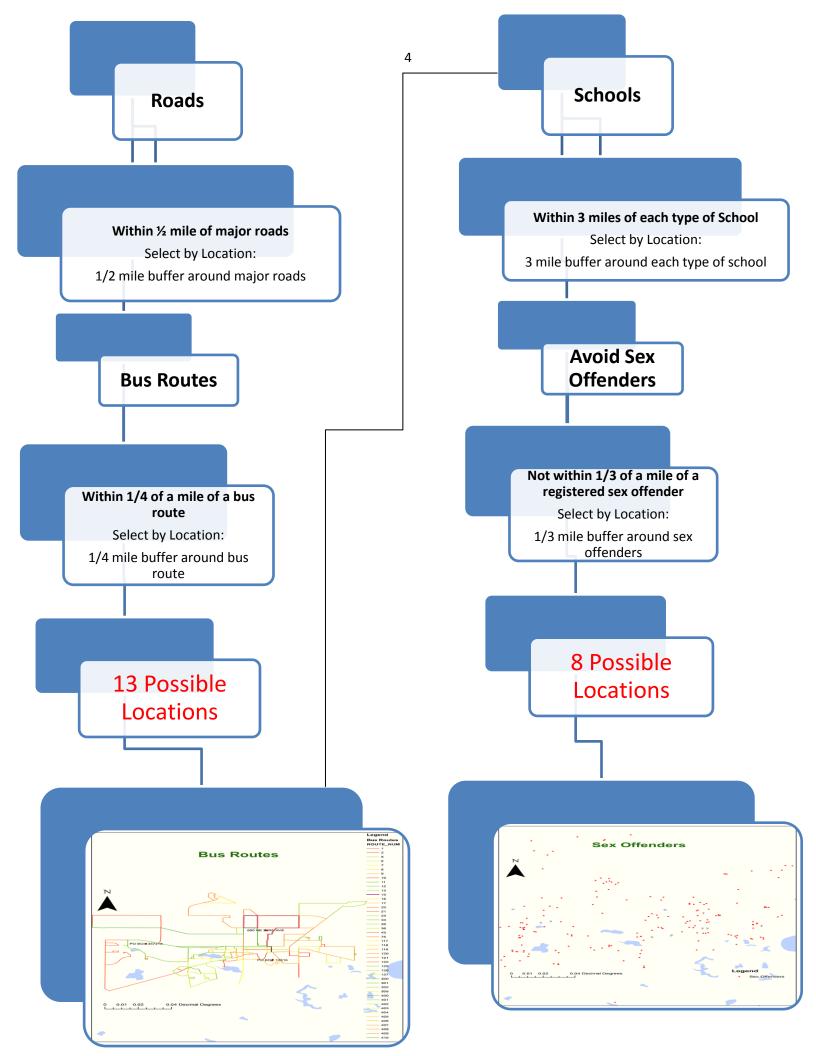
For this project, our objective was to create a GIS map that would display the locations of the parcels that we selected for as the optimal places for the three community centers. Before creating this map however, we wanted to use the ArcGIS program in order to ascertain the best locations to build our community centers. We wanted to do this by utilizing the data provided, and the various selection options provided to us by ArcGIS, in order to fully justify our decisions as to where it would be best to construct each Community Center.

The criteria we used to search for the ideal location for our three Community Centers were:

- 1. Must be in one of the 15 highest concentrations of children ages 0-15
- 2. Shall be in an area with annual income below \$25,000
- 3. Vacant parcels between 4 and 10 acres (in order to eliminate nature conservations, wetlands, and rivers)
- 4. Vacant parcels that are within a 1 mile radius of the 5 highest child density areas as well as within 1½ miles of homeless children
- 5. Within ½ mile of major roads
- 6. Within ¼ of a mile of a bus route
- 7. Within 3 miles of a Elementary, Middle, and High School
- 8. At least $\frac{1}{3}$ of a mile from the nearest registered sex offender
- 9. The parcels had to be affiliated with Florida owner
- 10. Within a 1 mile radius of a domestic violence incident
- 11. Must be in a zone with greater than 13% uninsured

Methodology



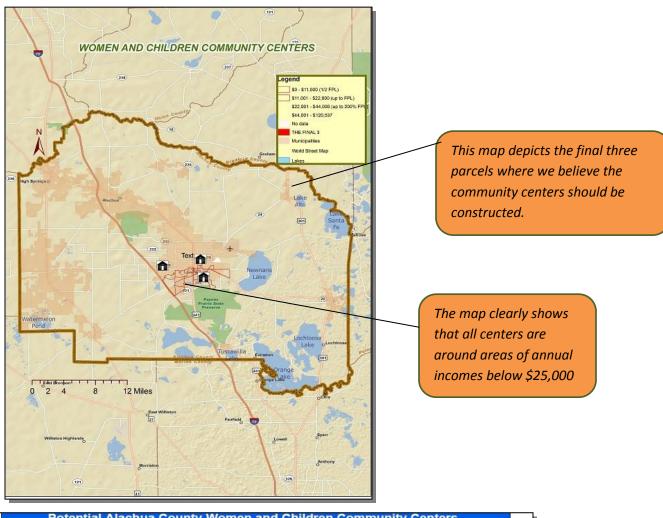


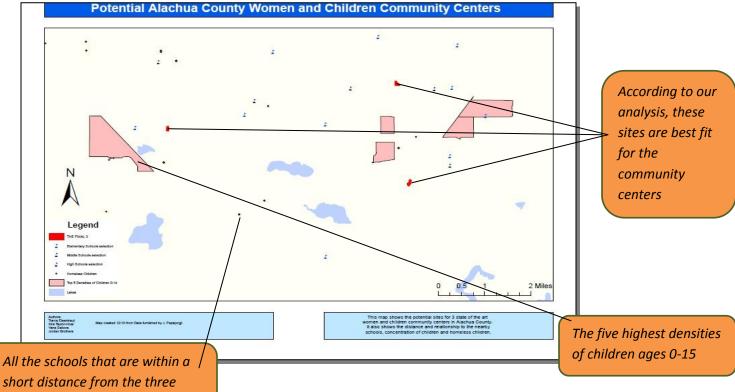
5 Out of State **Parcels** Select by attributes all of the parcels where 'name'="FL" This only left parcels in FL **6** Possible **Locations** Domestic Violence Within 1 mile of a domestic violence incedent Select by Location: 1 mile buffer around each domestic violence incedent **Percent Uninsured** We selected by attributes, in order to determine the sites with greater than 13% uninsured

This Left Our Final 3 Parcels

Discussion

community centers





Conclusion

We found that this project was surprisingly difficult, due to the fact that many of the criteria we were initially planning on using showed quite a bit of overlap. We discovered that it was difficult to narrow down our results for a variety of reasons. One of the earliest difficulties to arise was the fact that there were so many vacant parcels to pick from. The next problem we ran into was that many of the criteria we were using to attempt to narrow down the possibilities occurred in approximately the same areas, which made eliminating possible plots extremely difficult. This being said, it also helped to reinforce the idea that these were areas that needed these community centers most. By the end of the project we believe that we were able to use a variety of different factors in order to best asses where these community centers should be located for maximum impact on the community.