

Lab 5 – Geog 364

Aaron Marks – Section 2

1.) According to the metadata at what scales is the accuracy of this data adequate?

The metadata for the school districts provides us with some information on the Geographic Coordinate System and its resolution. The Datum used is from the North American Datum from 1983 and isn't accurate at anything larger than 1:100,000 thus should only be used for statistical analysis and census operations, rather than where detail is needed such as engineering or dealing with actual property lines. The data is accurate enough to not overlap and have accurate spacing of near topological features but is not an exact replica of the earth's surface.

2.) Are there segments with address ranges on only one side? Are there any segments that don't have an address range on EITHER side? If not, why not? Using your knowledge of State College, where are some of these segments?

There are some segments with address ranges on only one side, for example objects 851 and 852 only have TO and FR addresses on the Left side, with Os on the right. Additionally object 1600 is the opposite. There are segments without either as well, such as object 2971. This particular segment is located out towards the mall with an intersection at each end. There are probably no address ranges associated with this segment because there probably aren't any buildings or lots along these segments. Other ones are smaller and therefore probably also cannot function as a place for a building or its entrance.

3.) What would happen if you had chosen 'Reference Data Units' for the side offset?

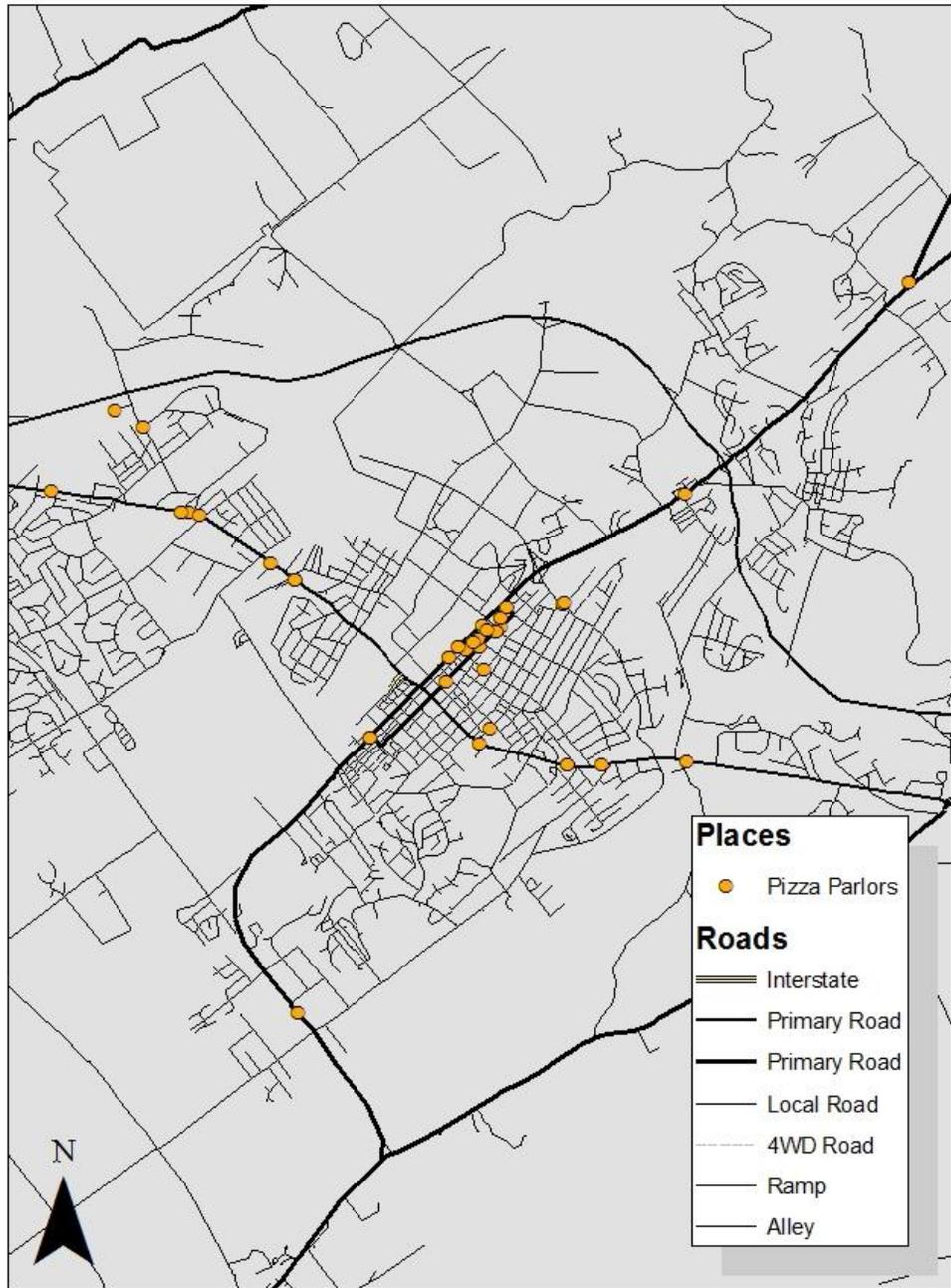
The wrong unit selection would have caused improper positioning, especially if we were unfamiliar with the area it may look ok on the map but it would not be the 5 meters that we thought we set. This may also use

4.) Why doesn't the Address for Brother's Pizza at Northland Center get matched? Is this a data processing problem? How do you think you could go about 'fixing' this?

The reason Brother's Pizza at Northland Center does not come up with any matches is probably due to the fact that Northland Center is not included on the shape file we have to work with, roads. This location is probably considered inside of the address of the Northland Center, which could be thought of as an area, rather than a point. The program is initially matching road names to road names, this road is not present or not names the same, and computers aren't that smart on this level of thinking. A way to fix this would be to change the address to wherever Northland Center is located both address and street name.

Part II – All records mapped :

State College Area Pizza Parlors



0 0.5 1 2 Miles

Aaron Marks - Geog363.Lab5.S02
Sources: US Census Bureau
State College Yellow Pages

1) What is the spatial pattern of the location of pizza places in State College?

The pizza places are represented with orange dots, these appear to be clustered around the downtown area with the outliers located near a primary road. As always these are not strict descriptions and some fall outside of both of these observations.

2) Based on your knowledge of State College, how would you explain this pattern?

Most of the population in state college can be found downtown due to all of the apartments that are multiple stories high and can house a lot of people within a small area. Being downtown allows for people to walk to the pizza place closest to them. As for the people who do not live downtown the others are located on main roads as previously mentioned this allows for ease of access for both people driving there to pick up their pizza and also the delivery drivers that are leaving the place will start out on a main road that connects to many other roads.

Part 3: Determine the positions of the high and low address numbers on the left and right side of each of these streets, Calder Way, Beaver, Pugh and Allen. Include labels of these numbers in their appropriate positions.

Downtown Address Ranges

