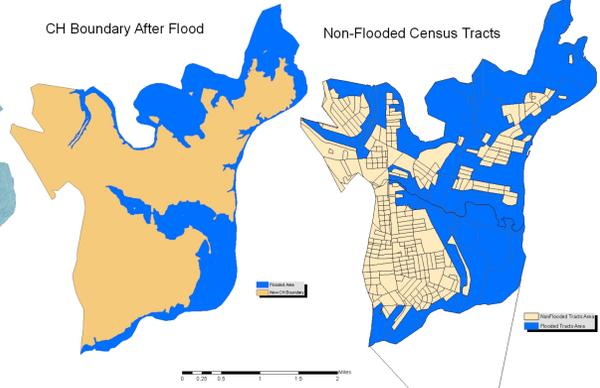
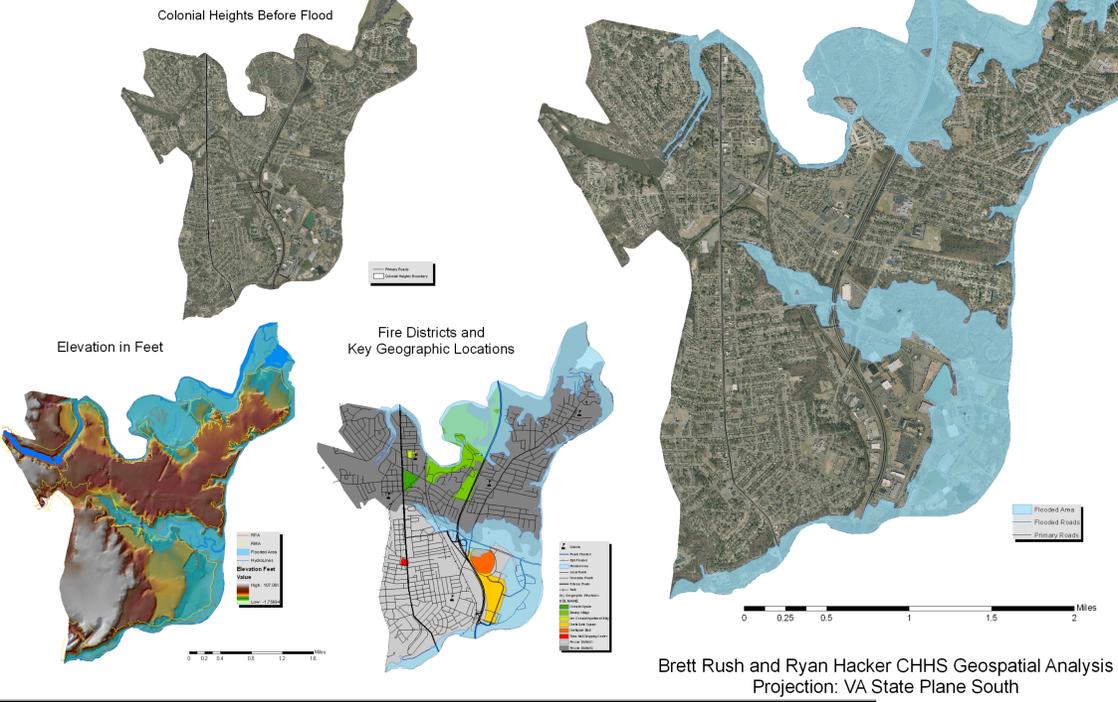


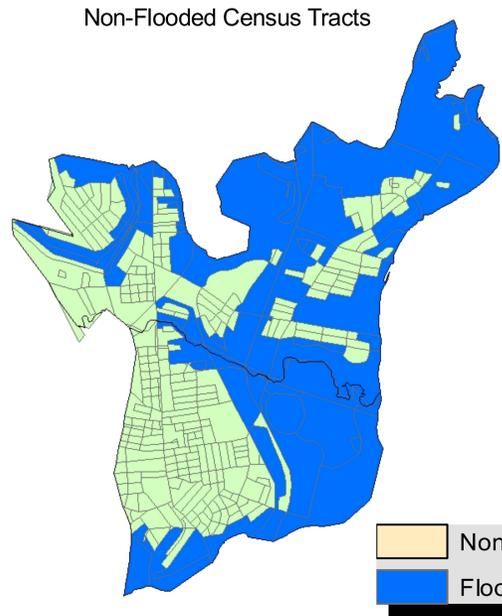
**Abstract**  
 Colonial Heights is shown to help determine where and how to react after the occurrence a natural disaster flood of 31 feet. The Census tracts are depicted to help calculate the population of each area. The flooded primary, local, and secondary roads, along with the railroads are shown as well. Going into detail with the rescue districts in Colonial Heights such as Fire Districts 1 & 2, the information is better broken up, and observed. Another portion shows the 5 schools, in which none are affected by this disaster. Key Structures are also shown and represented to better interpret the course of action if these areas are flooded. Also shown, is the percent of people that were not affected by the flood. These calculations will help the rescue teams to better execute a rescue and evacuation mission and will help evaluate where the most manpower is needed.

**Colonial Heights Flood: 31 Feet**

**Colonial Heights Aerial View After Flood**



**Conclusion**  
 Colonial Heights would be affected heavily by a flood of 31 feet. If this flood were to occur 24.3% of the total population would need evacuation. In District 1 only 8 percent of the population within that district would be evacuated, but, 46.6 percent of the population of fire district 2 would need evacuation. Rescue district 1 has 92% of its population still housed after the flood and would require much less attention. However, the Northern area of Colonial Heights, or rescue district 2, has only 53.4% of residents still housed. Resultantly, this area would require more man power to help evacuate this area due to higher overall population and more of an affect by the flood.

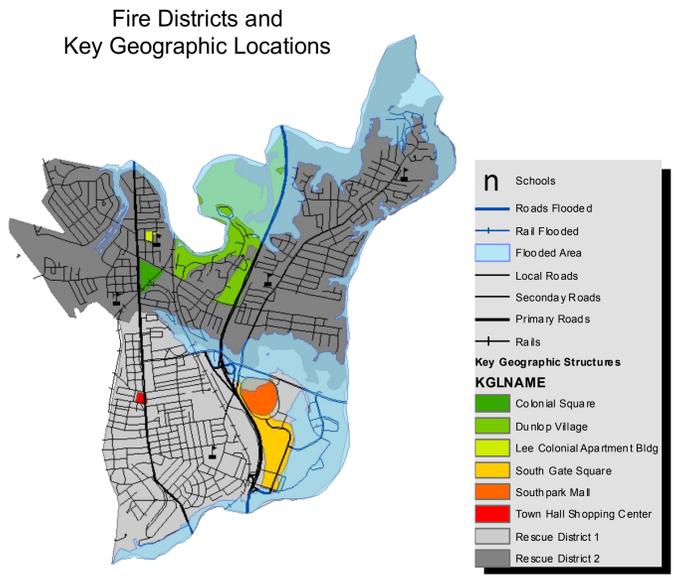
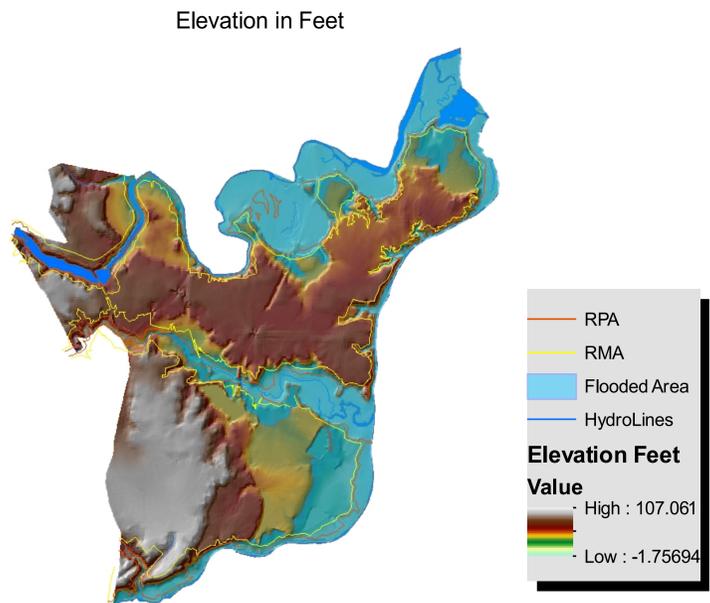
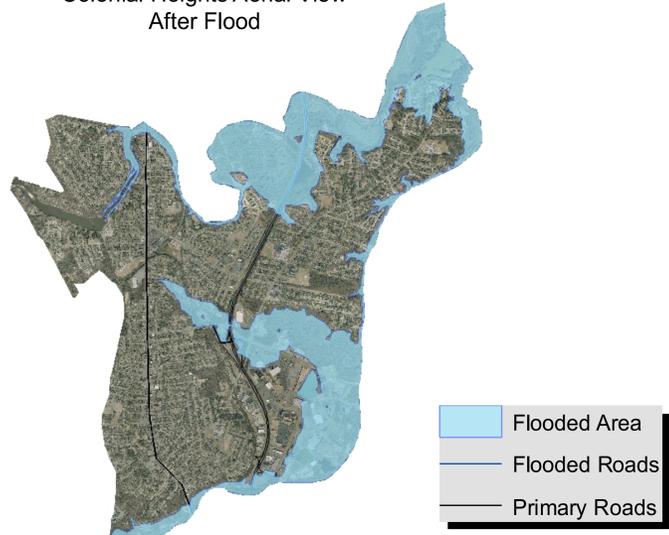


**CONCLUSION**

Colonial Heights would be affected heavily by a flood of 31 feet. If this flood were to occur 24.3% of the total population would need evacuation. In District 1 only 8 percent of the population within that district would be evacuated, but, 46.6 percent of the population of fire district 2 would need evacuation. Rescue district 1 has 92% of its population still housed after the flood and would require much less attention. However, the Northern area of Colonial Heights, or rescue district 2, has only 53.4% of residents still housed. Resultantly, this area would require more man power to help evacuate this area due to higher overall population and more of an affect by the flood.

**ABSTRACT**  
 Colonial Heights is shown to help determine where and how to react after the occurrence a natural disaster flood of 31 feet. The Census tracts are depicted to help calculate the population of each area. The flooded primary, local, and secondary roads, along with the railroads are shown as well. Going into detail with the rescue districts in Colonial Heights such as Fire Districts 1 & 2, the information is better broken up, and observed. Another portion shows the 5 schools, in which none are affected by this disaster. Key Structures are also shown and represented to better interpret the course of action if these areas are flooded. Also shown, is the percent of people that were not affected by the flood. These calculations will help the rescue teams to better execute a rescue and evacuation mission and will help evaluate where the most manpower is needed.

**Colonial Heights Aerial View After Flood**



Brett Rush  
 Colonial Heights High School  
 Geospatial Methods & Analysis