

Pierce Transit Flood Analysis



Resources/References

Name: Kevin Tran
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Software Used: ArcMap 10.6.1
Projected Coordinate System: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet
Data References: Pierce County GIS Portal, Lab 2 Data

Map and Skills Details

These are Pierce County maps representing transit lines that are compromised based on flood severity. Transit data consisted of hundreds of polylines, some of which extend outside of Pierce County basemap. I clipped transit lines to the basemap. Then I dissolved clipped transit lines, using 'RouteDesign' as the common attribute. Next, the transit data intersects with the Pierce Flood Hazard data to then determine the percentage of compromise for each transit route. The new transit data was then dissolved, and the percentage of compromise for each route was calculated. I later joined that newly dissolved shapefile (with percentage of compromised routes) with the dissolved transit shapefile, and symbolized complete transit routes to represent levels of flood severity.

