

Regional Traffic Analysis in the D.C. Metro Area

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Team Number: DC20080

Dataset: Regional Traffic Count

Focus Areas

- General Traffic Trends
- Road Damage Analysis
- Bus Route Usage/Suggestions
- Per-Capita Income versus Bus Route Analysis

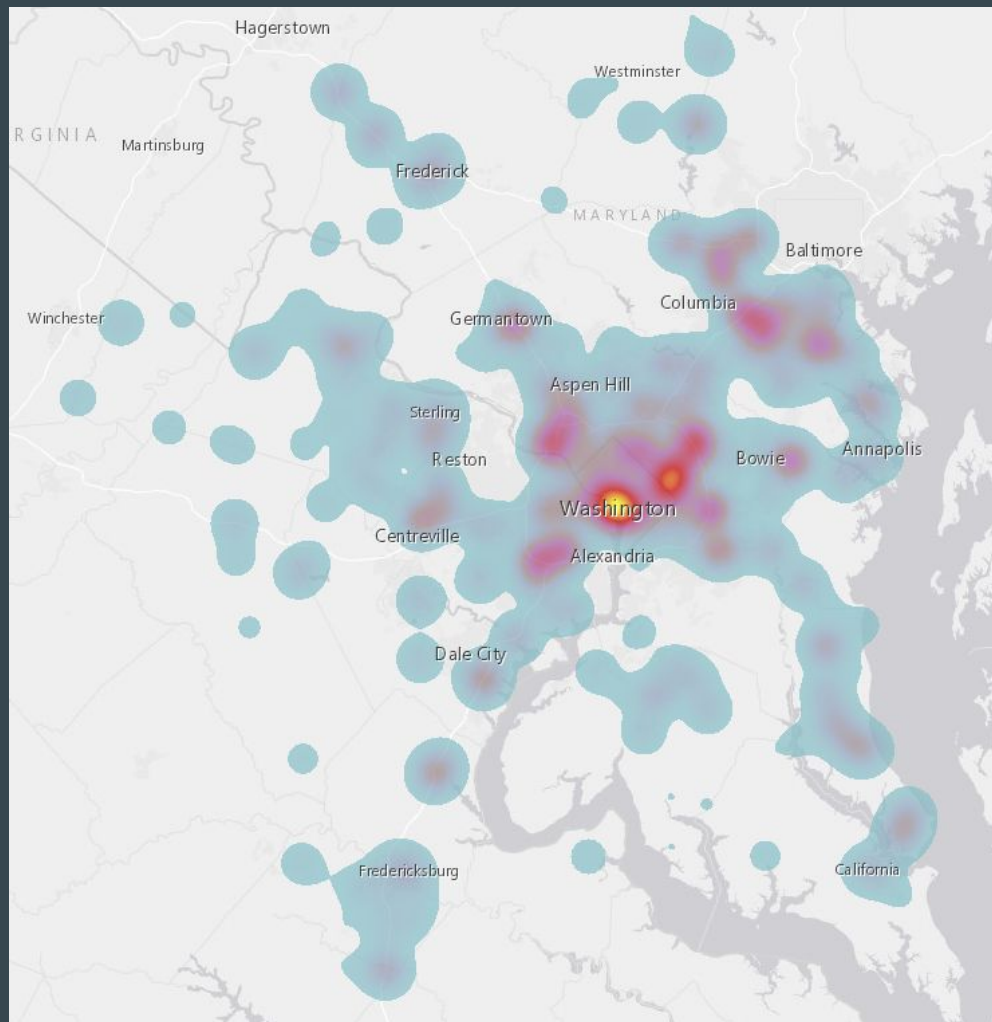
Questions of Interest

Data Limitations

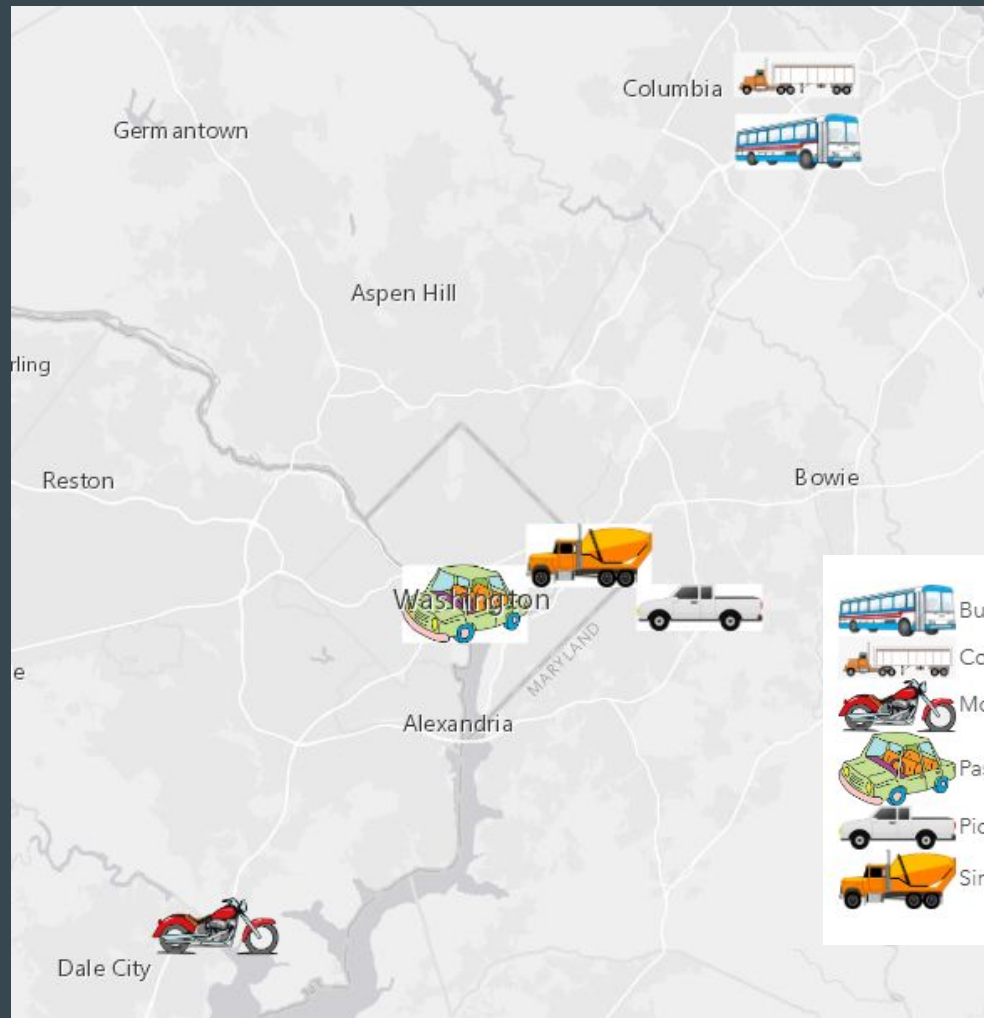
- Only volumetric data
- Limited Time Scale
- Inability to track individual vehicles between sites



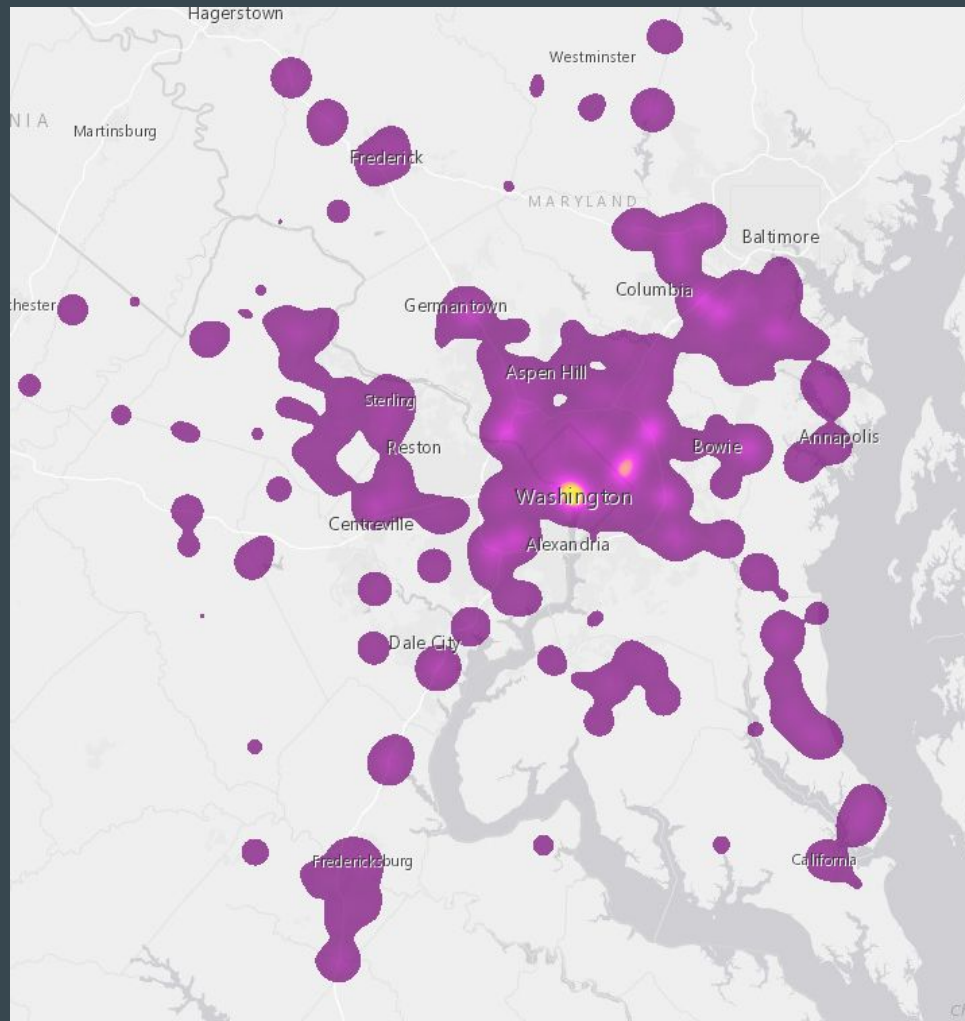
Traffic Volume

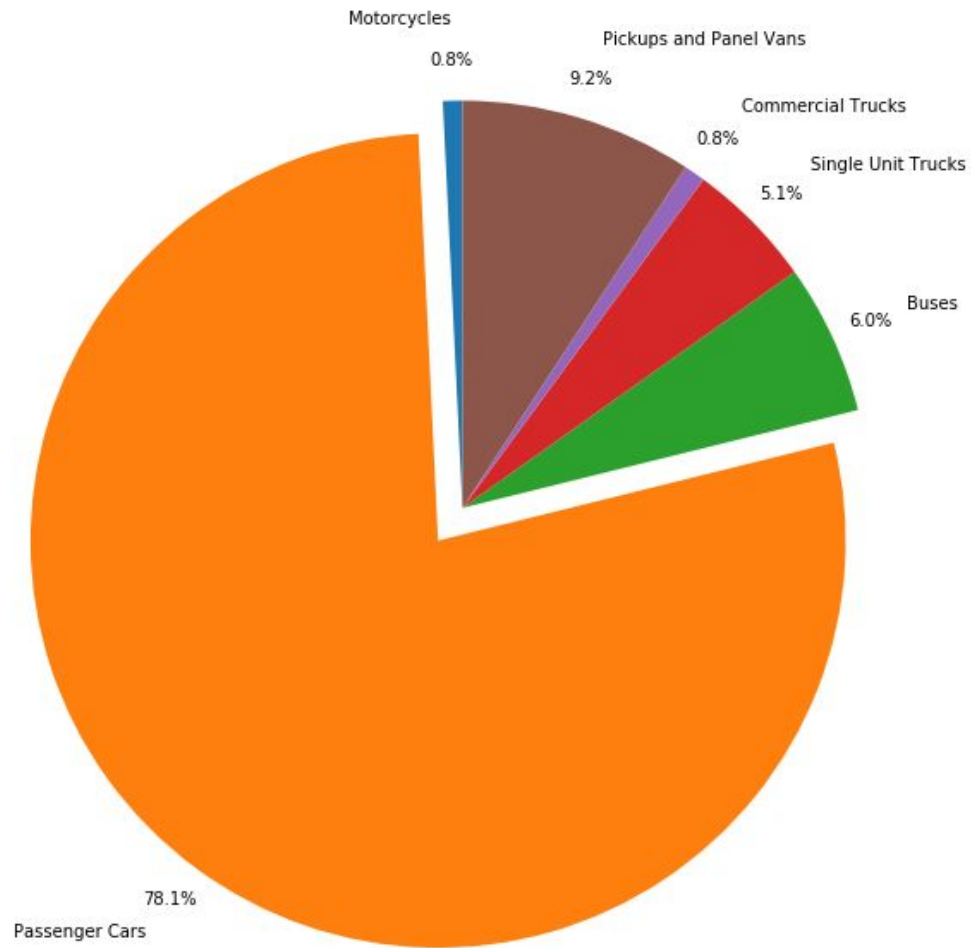


Location of Highest number of each Vehicle Type



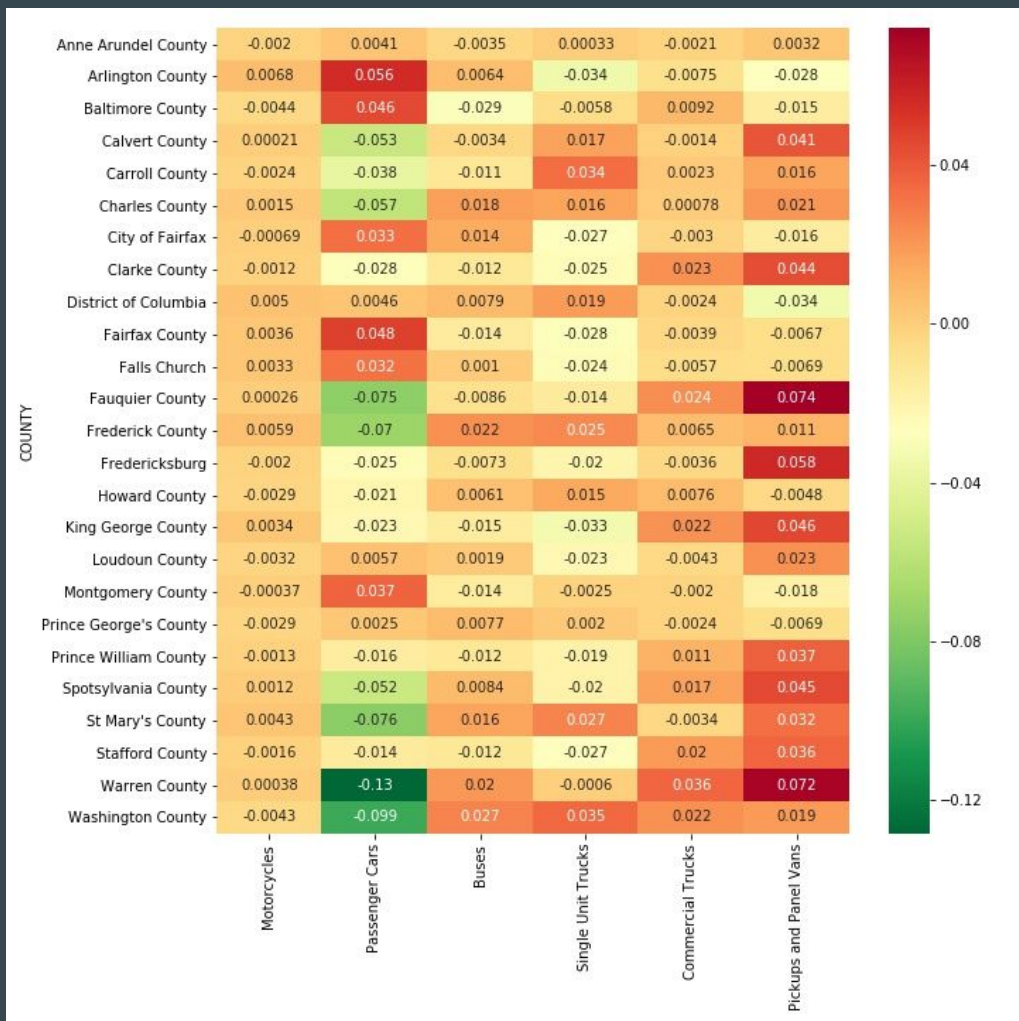
Emissions
Heat Map
--feel free to
delete if you
want. wanted
a transition
to emissions
turned out
sub par
*shrug

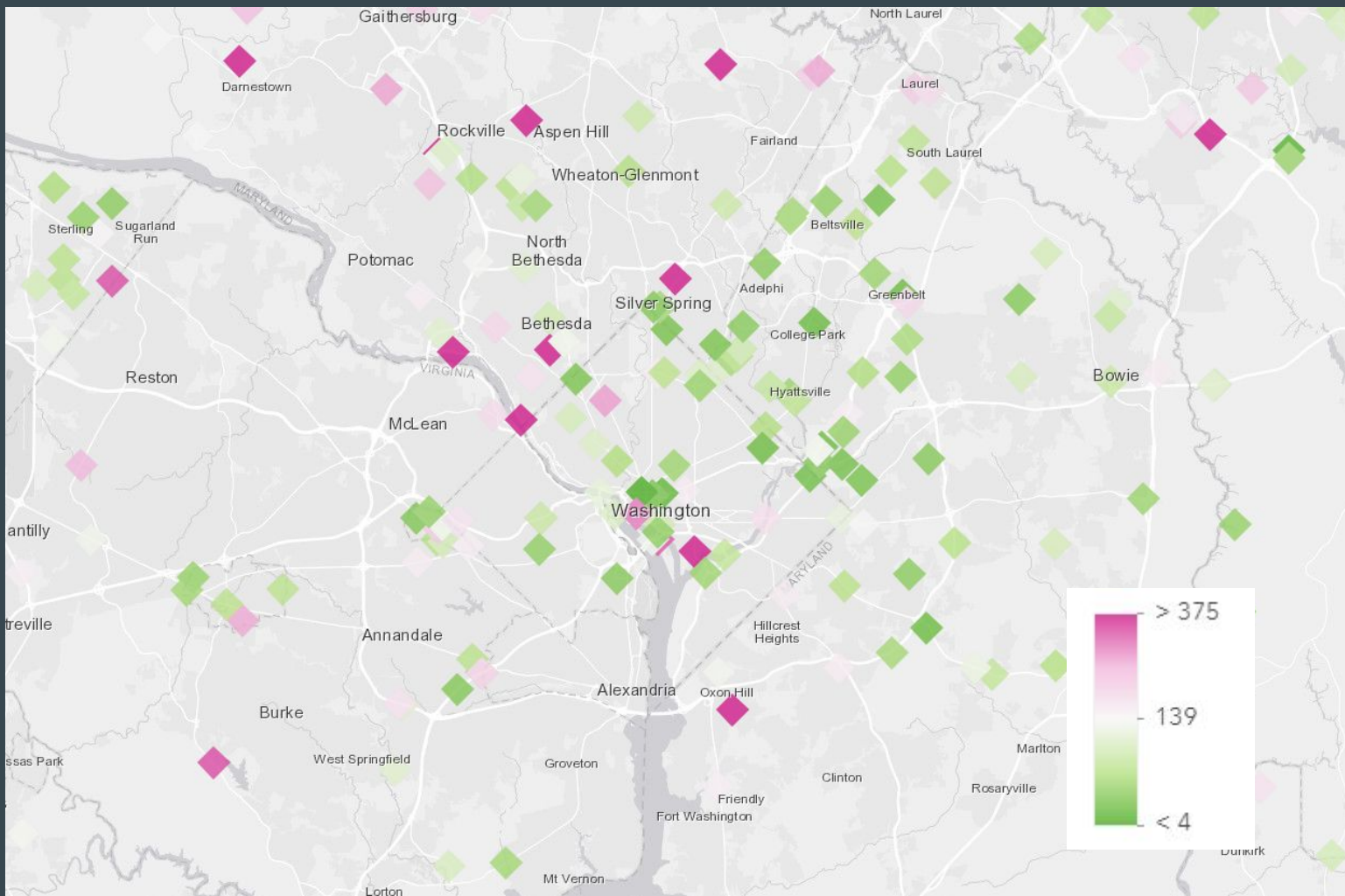




Attribution of Emissions per Vehicle Type

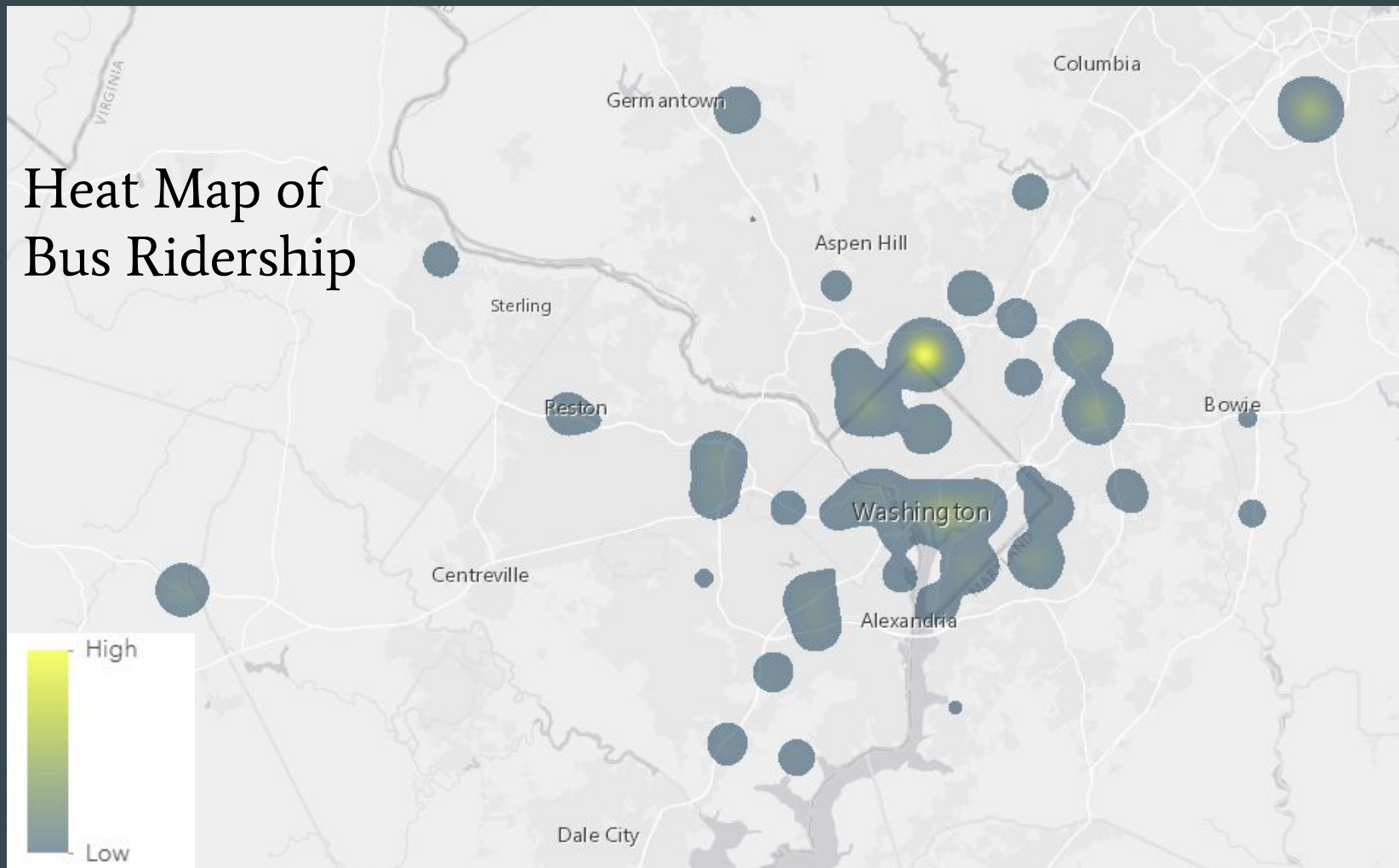
Difference in Emission Attribution per Vehicle Type

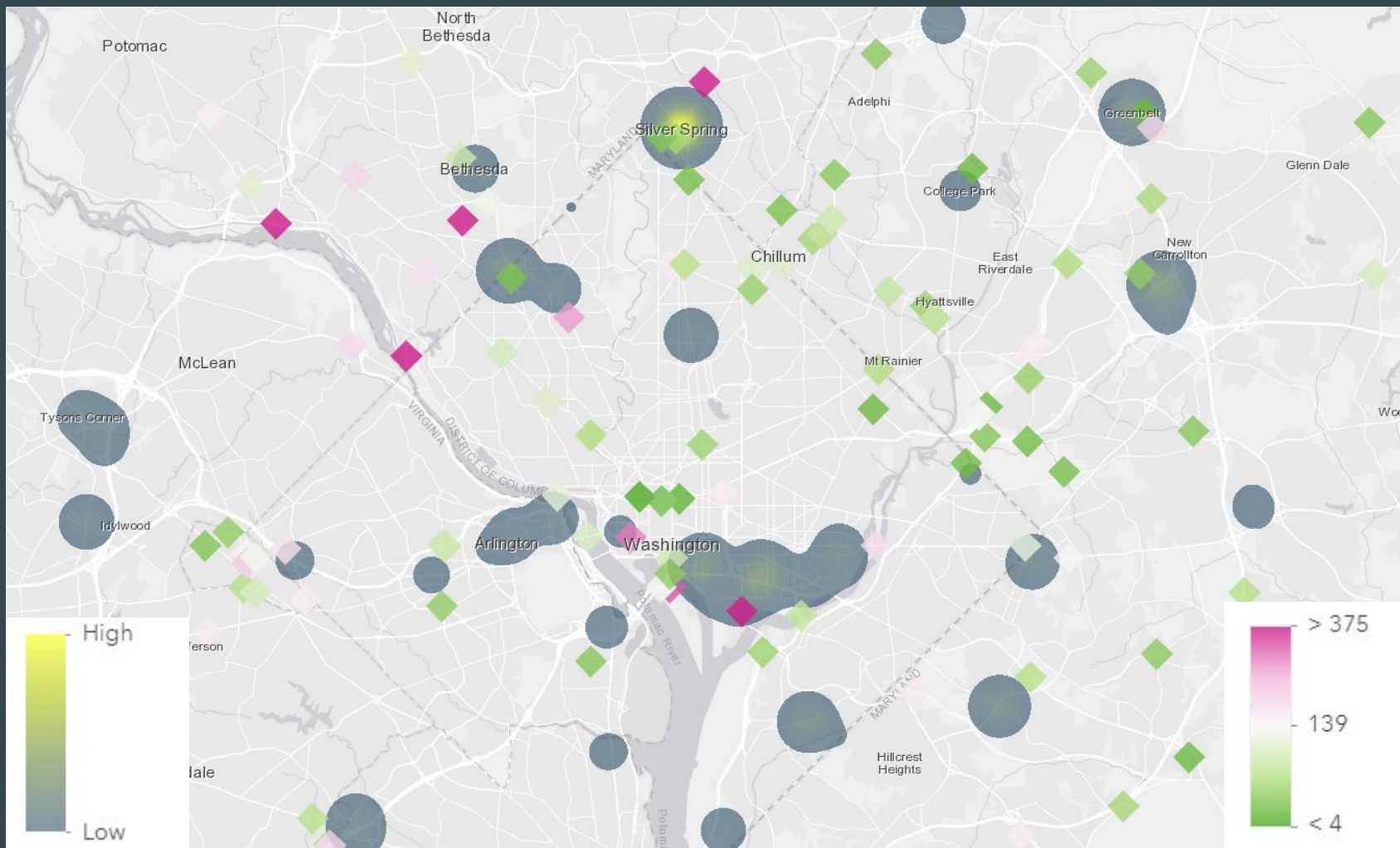




Ratio of
Passenger
Vehicles to
Buses

Heat Map of Bus Ridership





Population

Metro Lines and Stations

Metro - Rail Stations



Traffic Counts

2017 Vehicle Classification -
Weekday

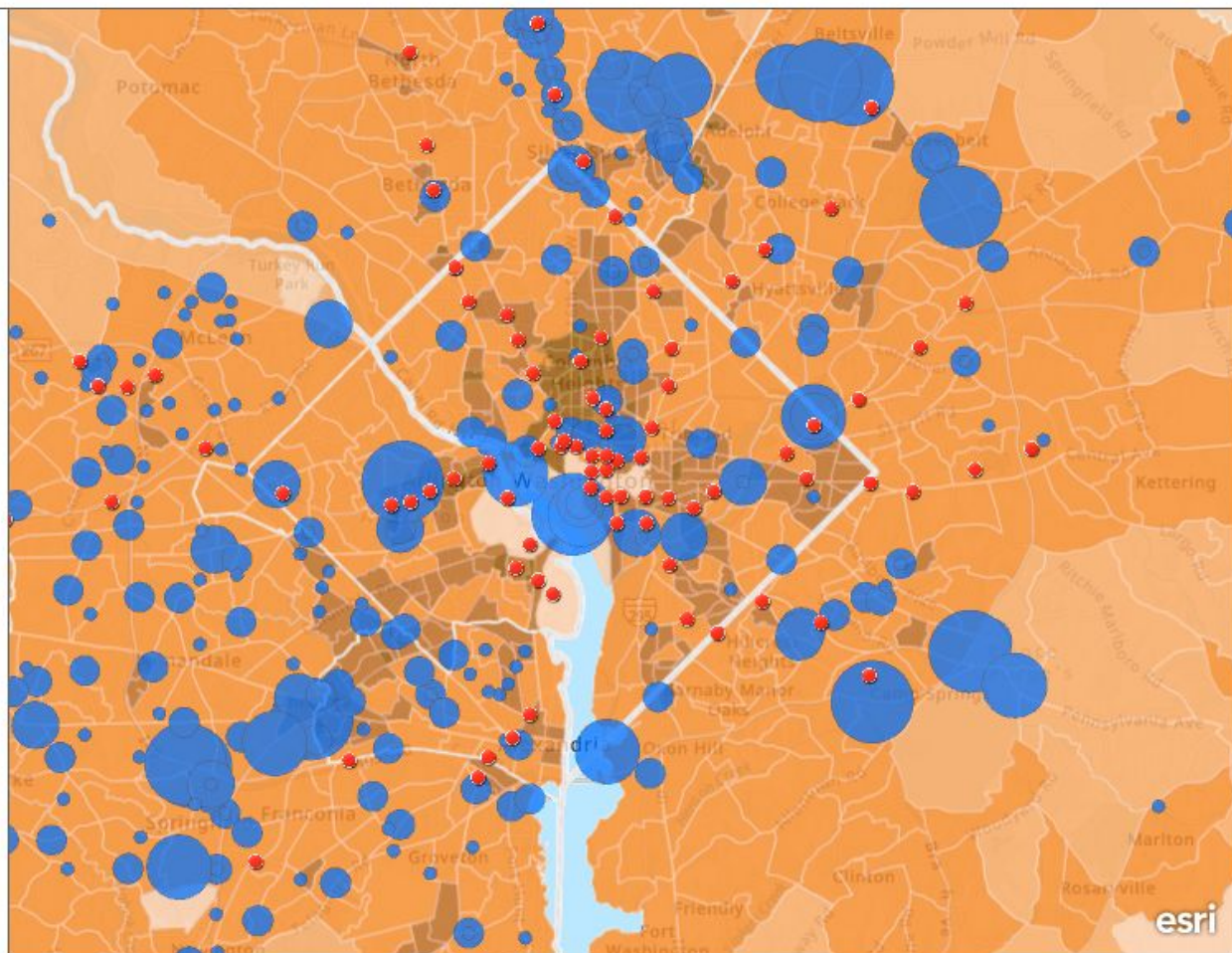
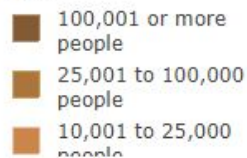
AM (6:00 AM- 8:59 AM)



2012 USA Population Density (Mature Support)

Persons per square mile

Tracts



esri