

Data Description:

This option uses a portion of the “Multimodal Test Data Set.” Documentation and data is in this google drive folder. The documentation for the freeway data set is in the file Freeway_Data_Documentation.pdf. The data you will be using is the files: freeway_loopdata.csv, freeway_detectors.csv, freeway_stations.csv, highways.csv. Note that the documentation mentions other data files; these other files are not used for this project. The Freeway Data is provided for a section of I-205 NB for a 2-month test period.

Questions:

- 1) *Count high speeds*: Find the number of speeds > 100 in the data set.
- 2) *Volume*: Find the total volume for the station Foster NB for Sept 21, 2011.
- 3) *Single-Day Station Travel Times*: Find travel time for station Foster NB for 5-minute intervals for Sept 22, 2011. Report travel time in seconds.
- 4) *Peak Period Travel Times*: Find the average travel time for 7-9AM and 4-6PM on September 22, 2011 for station Foster NB. Report travel time in seconds.
- 5) *Peak Period Travel Times*: Find the average travel time for 7-9AM and 4-6PM on September 22, 2011 for the I-205 NB freeway. Report travel time in minutes.
- 6) *Route Finding*: Find a route from Johnson Creek to Columbia Blvd on I-205 NB using the upstream and downstream fields.