

RESEARCH QUESTION

What are the performance differences of bicyclists by gender, season, and grade?

BACKGROUND

The schema *bicycle* contains two tables: performance and location. The table performance contains data were extracted from video data collected at two intersections in Portland, OR by Dr. Figliozzi and his students. The table location defines the location of the data collection efforts:

- Madison/NE Grand (Flat Grade) Winter Collection Date and Time: 12/4/08, 7:30-10:30 AM; Summer Collection Dates and Time: 7/3/08-7/17/08, 7:30-9:30 AM
- Vancouver/Wiedler (Grade) Winter Collection Date and Time: 12/5/08, 3:00-6:30 PM and Summer Collection Dates and Time: 7/3/08-7/21/08, 3:00-7:00 PM

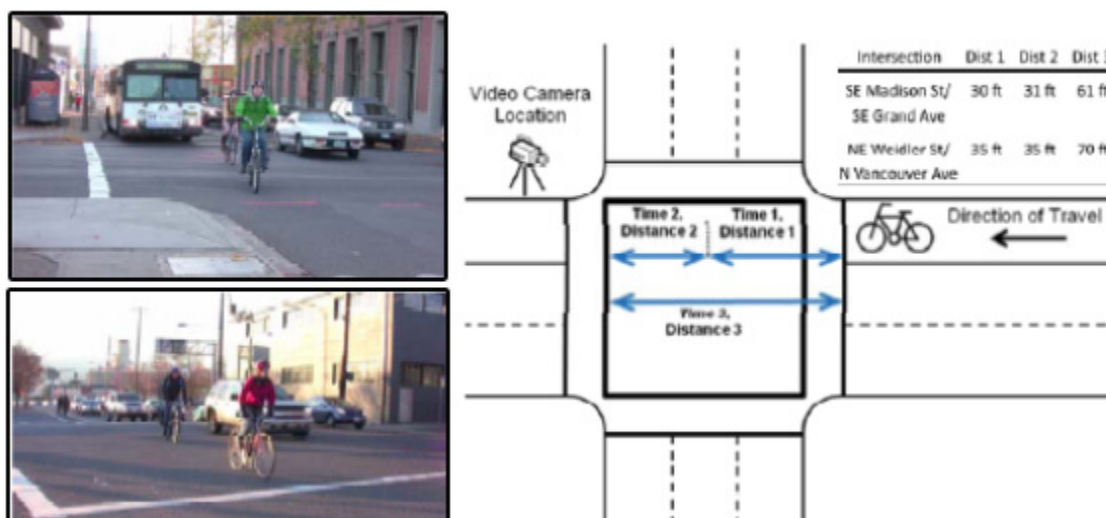


Figure 72

Estimate the descriptive statistics of delay, both numerically and graphically. Statistically quantify these results.

What are the performance differences of bicyclists by gender, season, and grade? Consider a regression model or at the very minimum, an ANOVA analysis of these data. It is not sufficient to just replicate some of the in-class activities.

REFERENCES