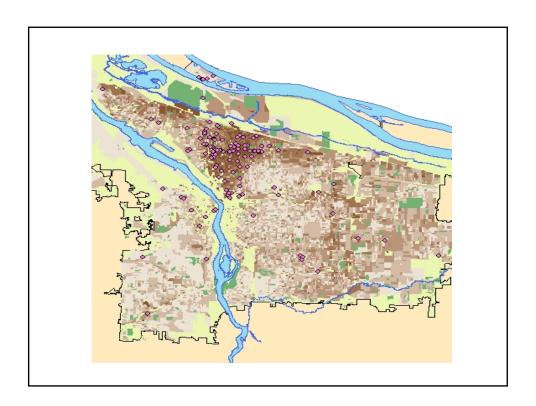
Route, Mean and Frequency Visualization

Wayne Coffey Geography 592

Problem: Present point data for 210 routes over a two week period in a concise and comprehensive format.

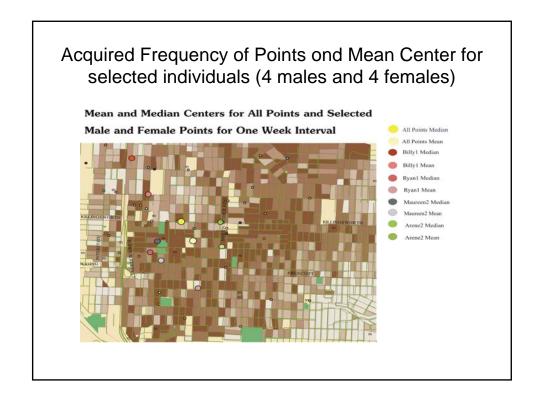
Data source: Sports Sociology Project

- 15 adolescents record daily stops in two separate week long intervals.
- Result 1150 data points across Portland and greater NW region.



Challenges

- Large number of unmatched address during geocoding.
- Sorting out individual points to study.
- Identifing a particular question for data.



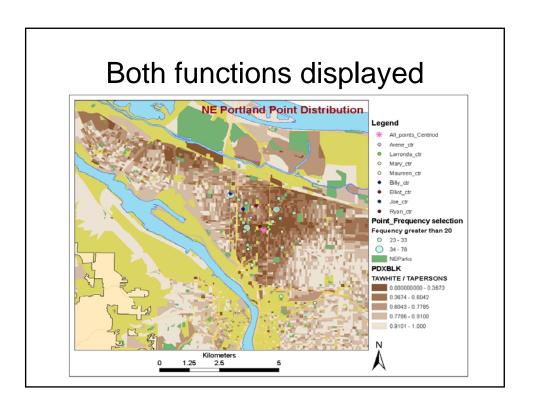
Operations

- Spatial Statistics
 - Measuring geographic distributions
 - Mean Center

Analysis Tools

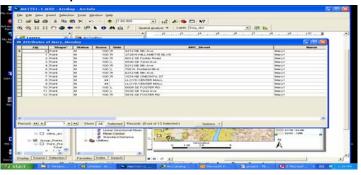
-Statistics

>Frequency



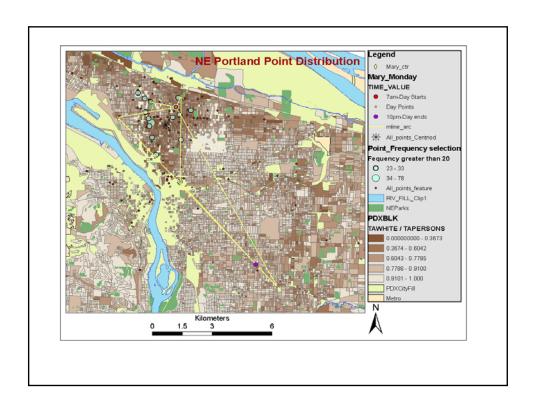
How to show direction and routing?

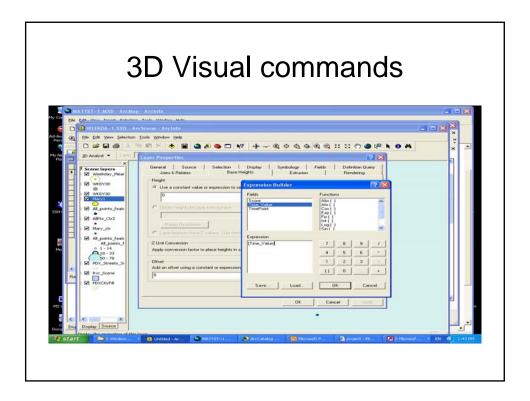
- Data has a time frame recorded
- Data has location to location points



Route direction through time and space

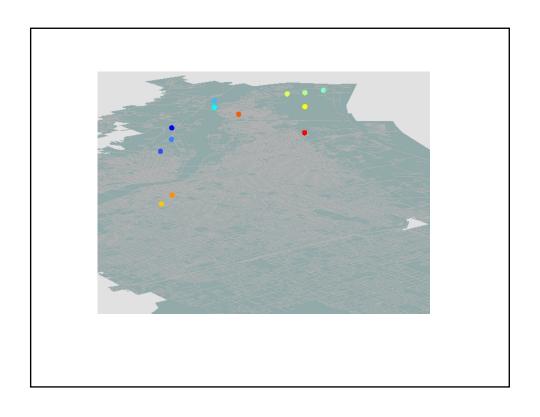
- Open Arc Scene- Add data
- Select properties
 - base level
 - -calculate
 - -select attribute for z

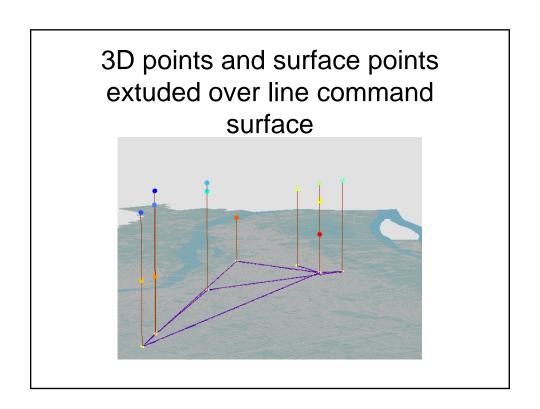




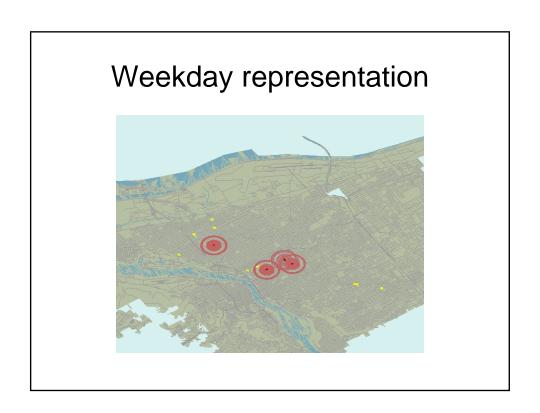
Route line challenges

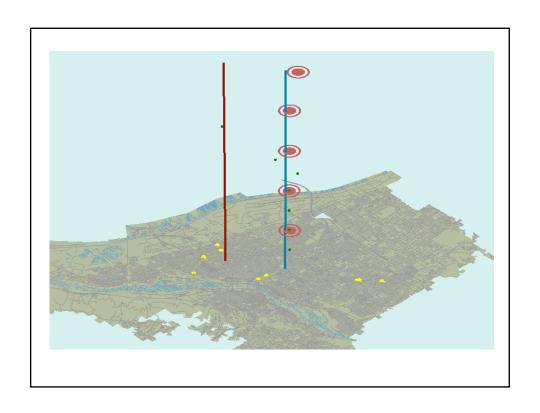
- Requires script to tell which points to connect
- Arc info reads only in 2.5D
- Lines present on 2D surface below 3D points.

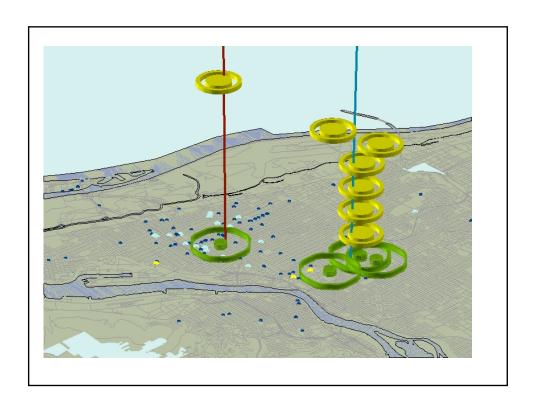


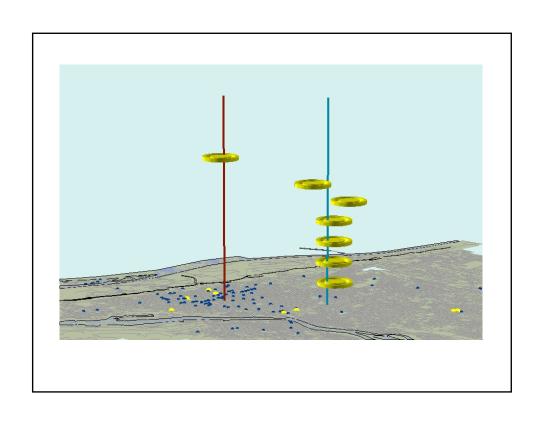


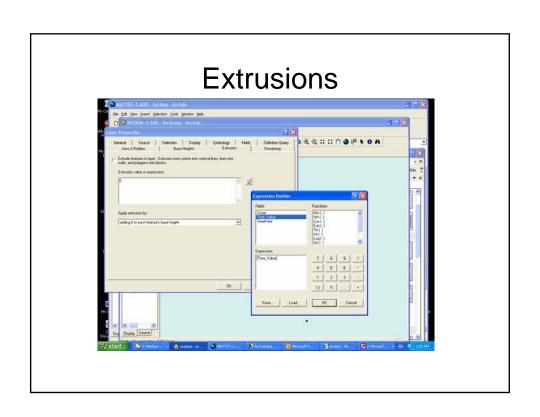
Drawn in Corell











Conclusions

- Limits of 3D functions for displaying adequate route direction.
- 3D arc scene more intuitive visual display than 2D
- Multiple routes cleaner than 2D but still messy