

Project 1: American Community Survey

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Introduction

- Statistics draws together diverse backgrounds
- Some projects require several different summaries from a single dataset
 - ACS is a large *sandbox* to play in
- Given four group members it is natural that there would be four different areas of interest

Questions of Interest

- 1 Is there a difference in travel time between Portland and Los Angeles?
 - Applications in urban sprawl, traffic circulation, etc...
- 2 Is there a spatial relationship in predominant energy type usage accross states? Is there a relationship between median bill cost for various energy types?
 - Applications in solar energy (sustainable energy alternatives)
- 3 How do proportions of self-sufficient veterans differ from state to state?
 - Applications in veteran health care

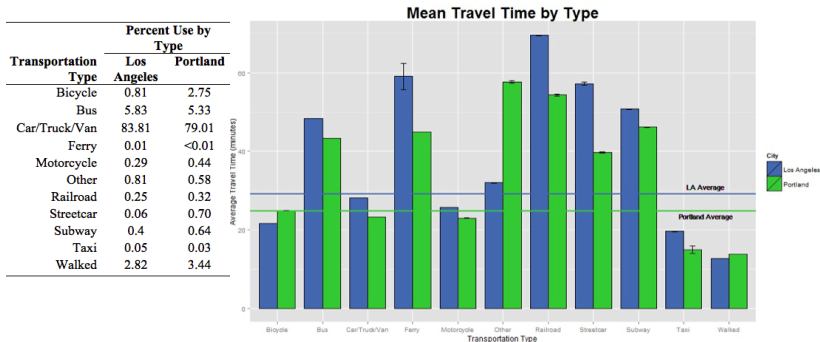
Findings

Topics

- 1 Transportation Type
- 2 Energy Type
- 3 Veteran Disability and Benefits
- 4 Immigration

Transportation Type

Transportation Type



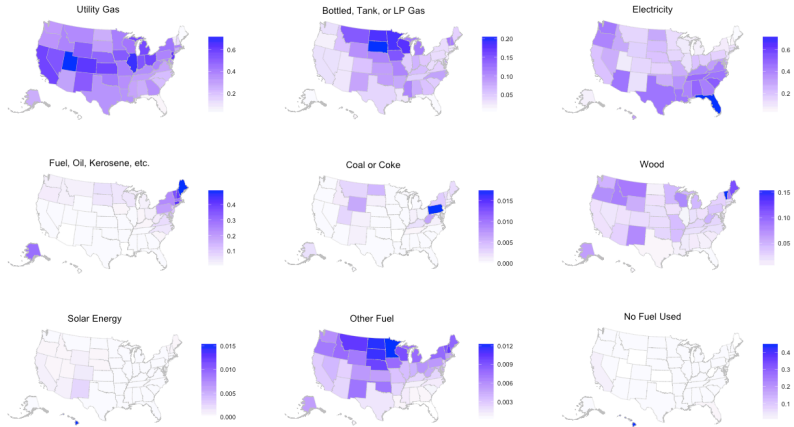
Transportation Type: Take Home Message

- Motor vehicles still the most predominant form for commuting
- Cycling and walking = longer commutes in Portland?
 - Higher proportions using these forms
 - Indicative of sprawl - Los Angelians won't walk/cycle unless they are close
- Longer commute times are not necessarily bad!
 - Higher proportion of use = more contribution to mean
 - Interesting discovery - Portlanders love their sustainable forms!
 - Walking, Cycling, Subway
- Perhaps most interesting: only one person commutes by ferry in Portland!



Energy Type

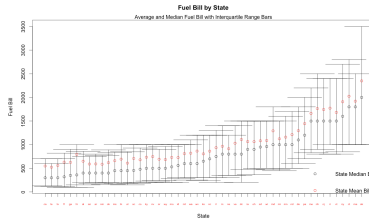
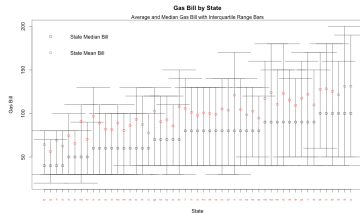
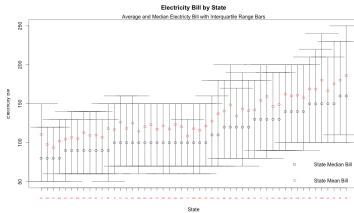
Energy Type





Energy Type

Energy Type



Energy Type

Energy Type:Take Home Message

Veteran Disability and Benefits



Veteran Disability and Benefits: Take Home Message

- Observed spatial patterns with some outliers
 - Highest incidence rate in the Deep South
 - Lowest incidence rate in the northernmost South
 - Texas doesn't follow the Deep South pattern - the problem may not be in enlistment rates/political leaning!
- Minor shifts in disability rating
 - MS: Higher incidence of 10%, 50%-100%, and electing out
 - ND: Higher incidence of 20%-40%

Immigration

Immigration

Immigration

Immigration :Take Home Message

Obstacles and Solutions

Universal:

- NA's in dataset
- Communication: Online tools (Google Groups and Google Drive)
- Continuity of project
- General github problems

Obstacles and Solutions

Individual:

- Transportation: Coding of light rail and determining scope of areas to compare
- Energy: Coding of data
- Veterans: "NA" vs "Elected Not To Answer"
- Immigrants: Technology and graphical display

Future Questions

- Incorporate sample weights and post-stratification
- Assess missing information
- Public policy applications