

Topic: Homeless Needs

### PA 540

## Final Project Assignment

(75 points or ~25% of final grade)

Map data

Data/numbers

**Purpose:** The purpose of this project is to gain experience conducting research supported by the use of GIS. You must identify a research topic, identify data sources, conduct simple mapping and data analyses, and draw conclusions based upon your findings. The final product will be a research paper with a strong mapping component, as well as a brief 2-3 minute PowerPoint presentation to the class in Week 16 (can be draft material).

Write a conclusion watching the data.

**Paper Format:** The paper should be approximately 10-12 pages single spaced (including text, figures, and tables) and should incorporate the following sections:

1. Statement of research topic and hypothesis to be tested. (5 points)
2. Literature review – Summarize previous literature on this topic. You will need to go to the library/google scholar to find **journal articles** or books on your topic. Find at least five sources about your topic. Cite sources in a bibliography. (10 points)
3. Study Area and Methods – Include a map showing where your study area is located within the region. Describe data sources, including the year of the data and where you got it. Describe mapping techniques (i.e. classification methods if using graduated color, spatial or attribute joins, etc.). (25 points)
4. Data Analysis / Mapping – Develop a series of unique maps (7-8) that serve to test your hypothesis. Draw conclusions from the maps and from summary statistics you generate. Include at least one unique data source created by you – and one map based on that data. Include at least one table in your report with some kind of quantitative summary to illustrate your findings. Your tables do not have to be in your layouts. (25 points)
5. Summary and Conclusions (5 points)

San Diego

Homeless needs in San Diego: low income areas - Government Assistance

**Project Presentation:** The presentation should be no longer than 3 minutes and should demonstrate at least 3-4 maps you plan on using for your final project – these maps should be in proper layout form (not screencaps). Use PowerPoint for your presentation. Do not put a lot of text in your presentation. Reduce your main points to bulleted lists. (5 points)