

## **Assignment #4**

Instructor: Ross Maciejewski

### **1 Assignment 4 Guidelines**

You will create a choropleth map showing marriage rates in Arizona for the year 2010.

- 1) You will create a single choropleth map using 7 colors for the total marriages per county in 2010. Your classification scheme will be equal interval classification. You must normalize the data by county population.
- 2) You will repeat problem 1 except you will use a quantile classification scheme.
- 3) Using 7 colors and your classification scheme of choice, you will create a series of small multiples showing marriages per month. In this question, I want you to think about how best to classify the data given the temporal nature and explain your chosen solution.

You will need to turn in:

- 1) Your dataset, including the population per county that you used to normalize the data.
- 2) An image from problem 1 and 2 with the appropriate legend, etc.
- 3) A small multiple image and an explanation of how you classified the data.

Data for this project can be found:

- 1) <http://www.azdhs.gov/plan/menu/for/2010/pdf/5g3.pdf>

Suggested products to use include GeoCommons or R.

### **2 Deadline**

- **February 20th (3PM)**

### **3 Grading**

Grading will look at graphics, spelling, grammar and overall content of the summaries.

- No late homework will be accepted
- All homework should be submitted through blackboard