Geography 361—Cartography
Penn State Department of Geography

Cindy Brewer, Fall 2010

Lab 4: Choropleth Maps in Series (8%)

Data Sources: *Atlas of Cancer Mortality,*
National Institutes of Health and National
Cancer Institute

Section:	Tues	Wed	Thurs
	Oct.	Oct.	Oct.
Assigned:	14	15	16
Progress check:	21	22	23
Due:	28	29	30

Assisted by Jim Thatcher

The goal of this laboratory assignment is to compare different choropleth classification methods that can be used to display statistical data in series.

Cartographic concepts:
- Choropleth mapping
- Data classification for individual data set and series
- Sequential color use
- Map layout for series of data frames

New tools and skills:
- Classification of Quantities
- Clipping/exporting data subset for new layer
- Managing table joins/relates

Map requirements and grading criteria:

- include **4 data frames** for each of **2 series** of choropleth maps
- **clip (or define) data frames** to suitable area of interest for both series
- **related data** used in series
- logical and suitable **color schemes**
- **clear title** for each whole page
- appropriate **subtitles** for each frame
- detailed **legend wording** for each frame (do not label Legend with the word "Legend")
- each **page layout** is labeled with information about the **classification** used
- balanced map layout with four maps (for each series) on 8.5x11-inch page with at least **one-half inch of totally empty margin** on all sides

- **histograms** (screen captures of ArcMap Classification window) document classifications and are **labeled** to indicate which histogram is associated with which map
- **paragraph(s) explains logic** of two approaches to classing the map series and the reasoning is sound

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Deliverables (stapled in this order):
1. Explanation of the logic of the two approaches you used in classing the map series.
2. series one maps (classes not matched)
3. series one histograms
4. series two maps (classes matched).
5. series two histograms