Lab 8: Dot Density

Dot Density Map

1. Name which variable you choose to do your map on and Discuss why you chose which dot value and size for your map. (5 points)

I chose to use cattle as my variable. Because this is such a prevalent resource in the united states, a large scale per dot was necessary. I chose to symbolize 10,000 cattle/calves per dot, and a dot size of 1.75 because it was large enough to be distinct visually but still small enough to show high densities without looking like a large blob or having to increase symbolization values.

1. Analyze and interpret the major patterns of spatial variation in density of whatever you mapped. (5 points)

As expected, large concentrations of cattle tend to appear in the Midwest and rural areas of the northwest and California. More unexpectedly, the northwest certainly has an intermediate dispersion of cattle throughout it. Finally, and rather unsurprisingly, most coastal land in the united states has little to no concentration of cattle.

1. Attach final PDF to lab. (10 points)

Proportional Symbol Map

1. Analyze and interpret the major geographic patterns revealed in your maps. (5 points)

This map reveals that the eastern portion of Texas has far more farms per county than the west. In addition, more northern, non-coastal regions tend to have more farms, which makes sense.

1. Attach final PDF to lab. (10 points)

Graduated Symbol Map

1. Analyze and interpret the major geographic patterns revealed in your map. (5 points)

This map shows the different patterns of movement and centers of strengths throughout the lives of hurricanes Emily and Katrina. It highlights how katrina hit land at almost full strength, one of the reasons it caused so much damage. It also highlights how quickly, once reaching land, hurricanes dissipate.

1. Attach final PDF to lab. (10 points)