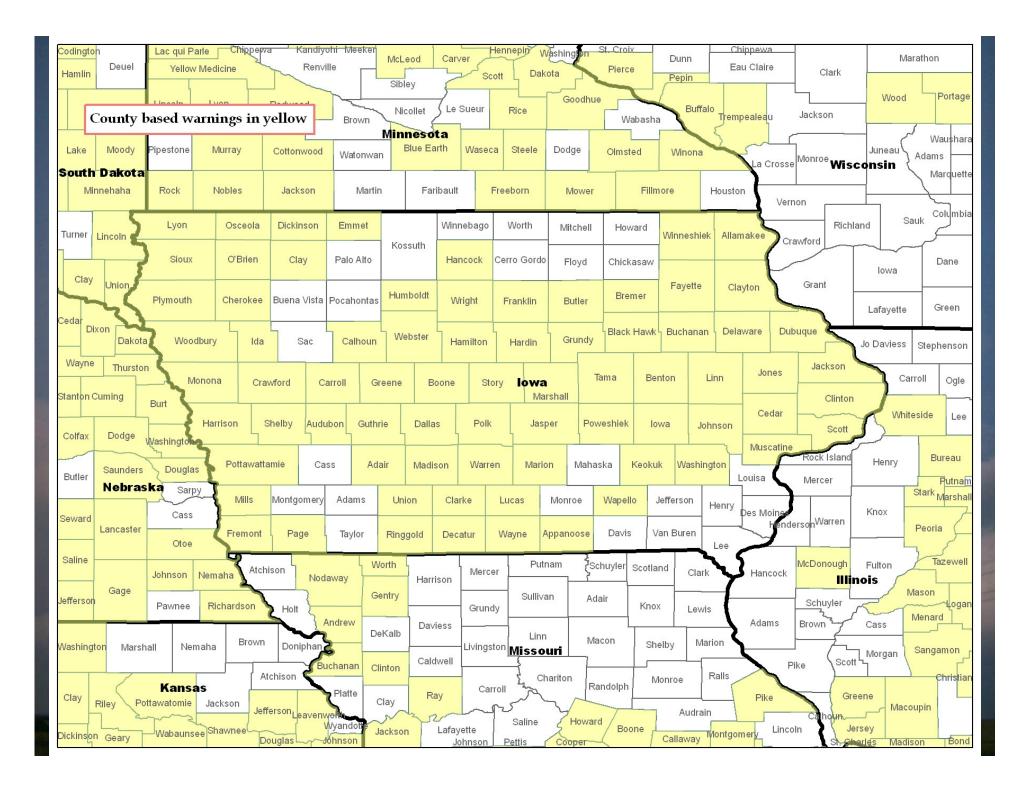
An Analysis of National Weather Service Warning Tendencies

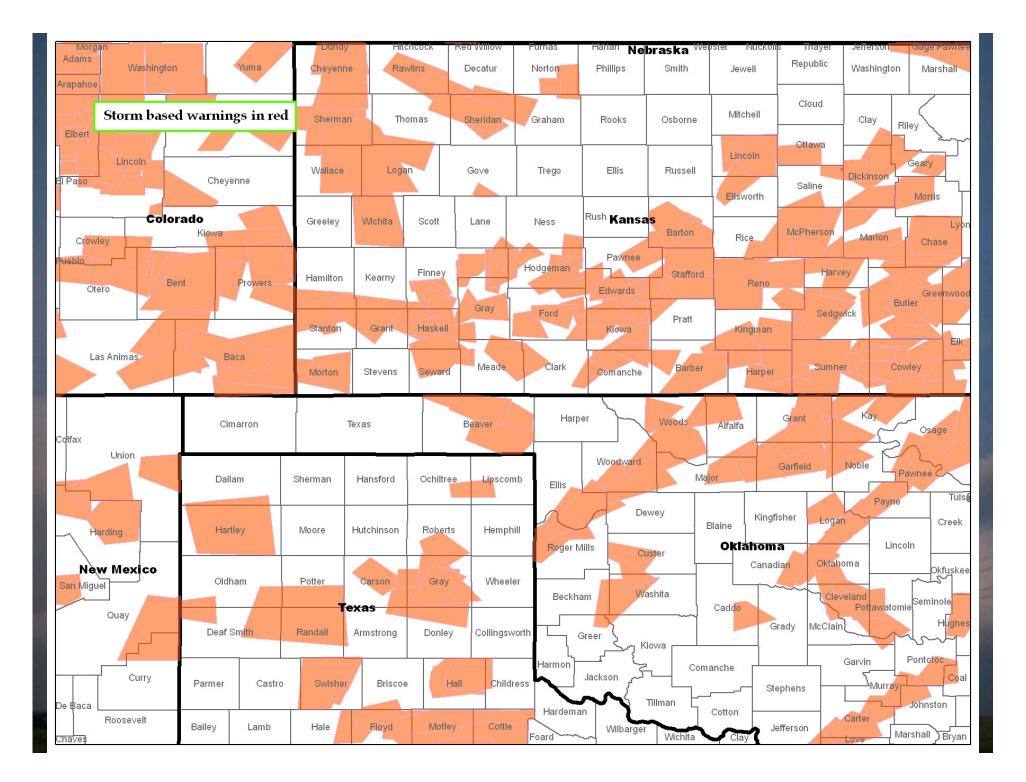
Jeff Duda CRP 551

Background

- National Weather Service
 - Responsible for issuing severe weather warnings
 - Tornado
 - Severe Thunderstorm
 - Issues warnings by county or by "polygon"
 - Storm based warnings
 - 116 weather forecast offices (WFO) in the lower 48
 - Each WFO oversees a county warning area (CWA)
 - Responsible for issuing warnings for counties within CWA

National Weather Service County Warning areas and Weather Forecast Offices LKN SLC FGZ ABQ OUN LUB EPZ





Objective

- Analyze warning issuing tendencies of WFOs
 - Size of warning polygons
 - Number of warnings
- Analyze severe weather climatology by county
 - Warning frequency
- Focused on 2000 2009 or a subset
 - -2002 2009
 - 1 Oct 2007 end of 2009

GIS

- Geoprocessing tools used
 - Select by attributes → export as shapefile
 - Spatial join
 - Merging
 - Buffering
 - Editing of polygon shapefiles
 - Computation of area

