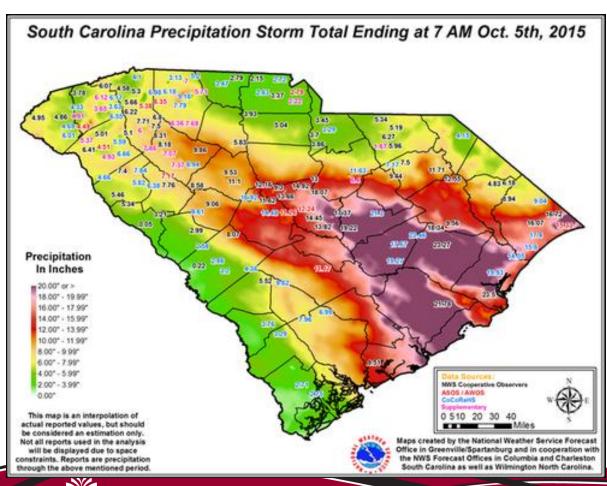


Do extreme events always lead to extreme consequences?



Function of.....

- Spatial variability
- Social vulnerability
- Temporal variation
- Cascading failures



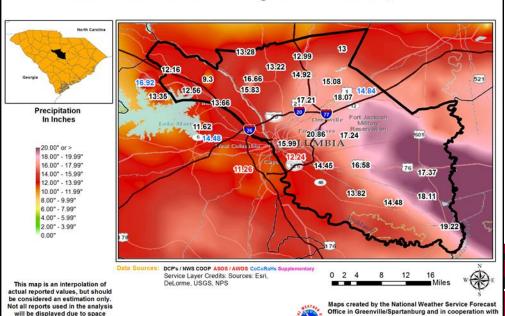
Spatial variability (land cover/land use, proximity, topography)

the NWS Forecast Offices in Columbia and Charleston

South Carolina as well as Wilmington North Carolina.



South Carolina Precipitation Storm Total Rainfall Ending at 7 AM Oct. 5th, 2015



will be displayed due to space

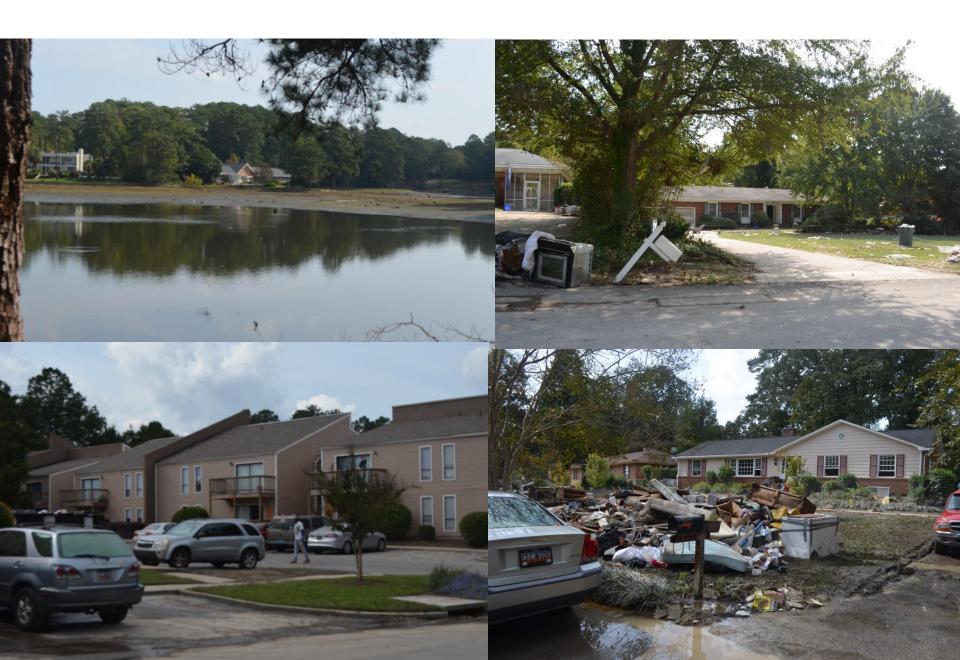
constraints. Reports are precipitation

thru the above mentioned period.

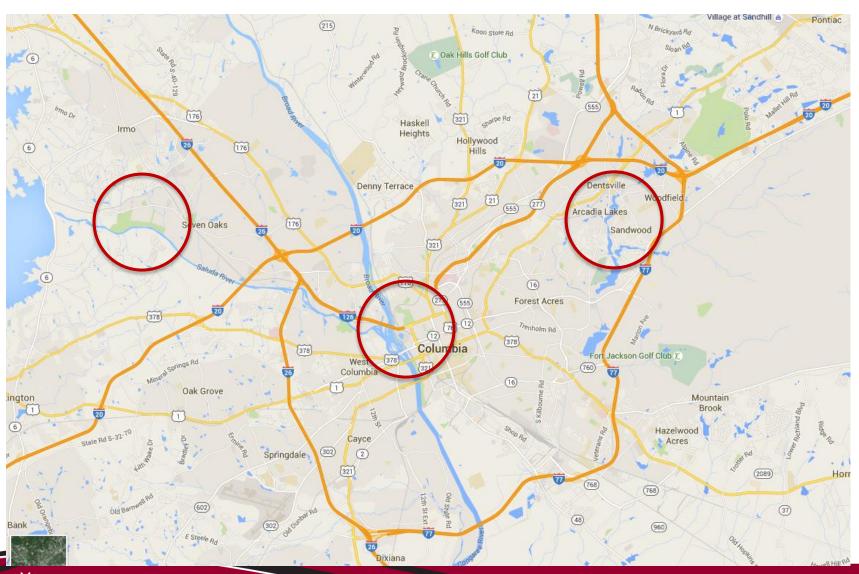




Social vulnerability

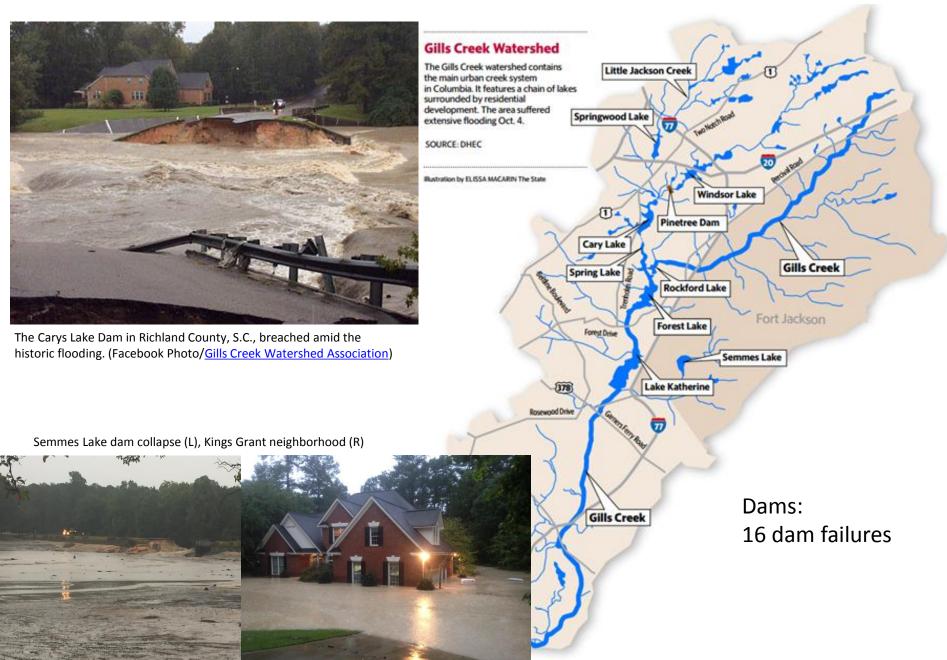


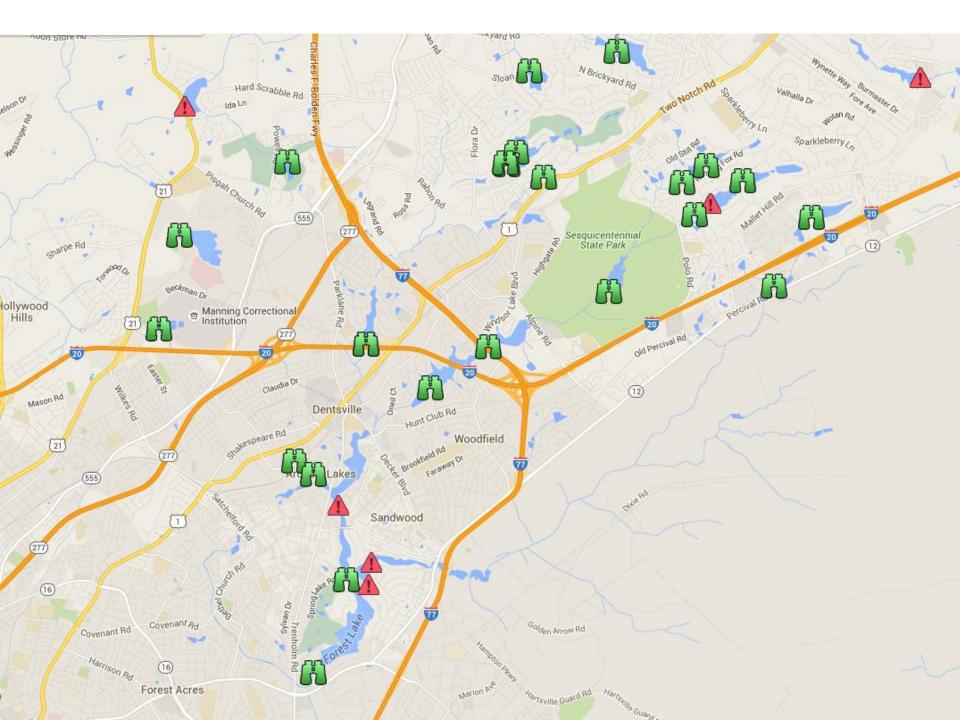


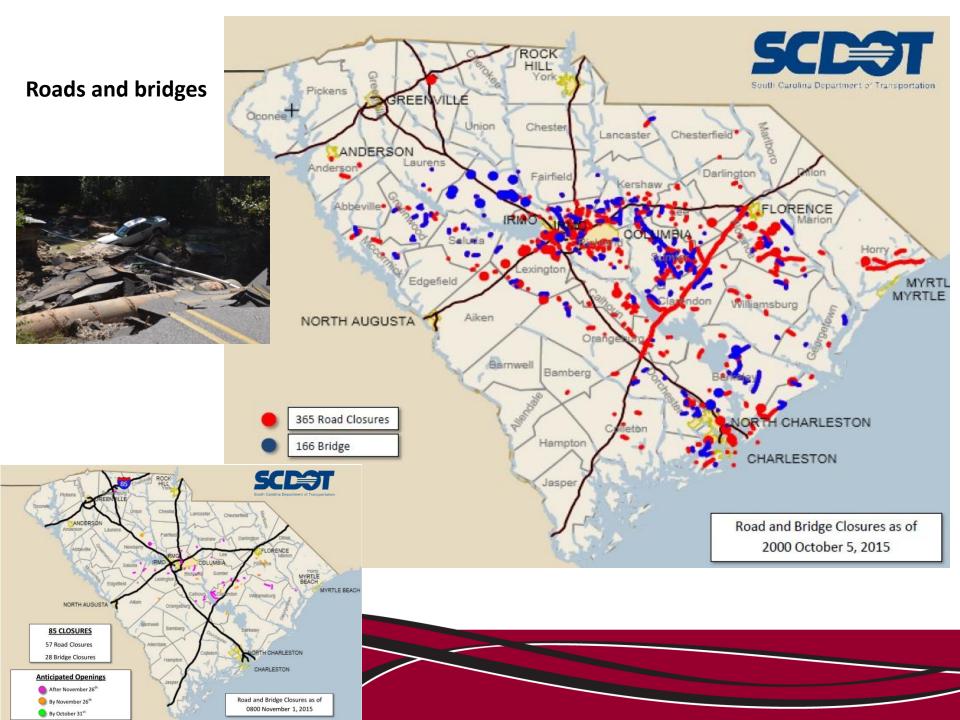




Cascading impacts of infrastructure failures







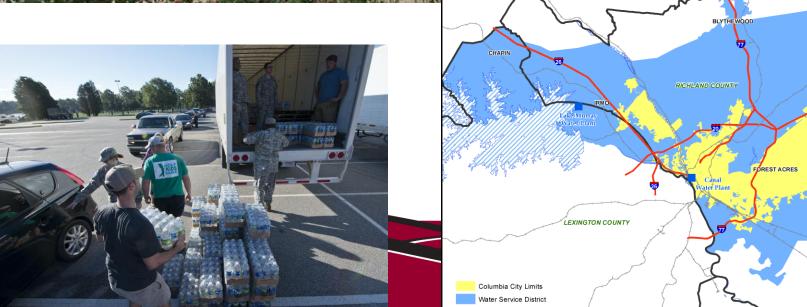


Public water supply system

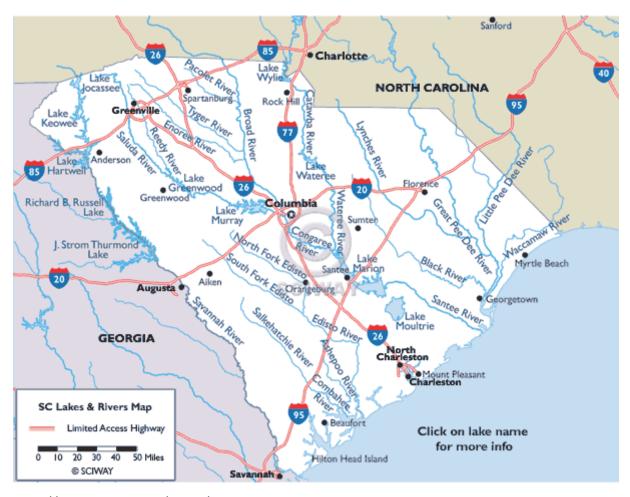
375,000 customers without water Boil water emergency 7-10 days

FORT JACKSON

FAIRFIELD COUNTY



Downstream and down state



http://www.sciway.net/maps/south-carolina-lakes-rivers.html



Recovery

- Strong social capital and helping behavior
- Houses gutted; many ongoing repairs
- Many not waiting for FEMA
- Fast road/bridge repair
- And now the lawsuits begin



For more information

http://artsandsciences.sc.edu/geog/hvri/





