



Modeling Micro-Economic Resilience and Restoration after a Large Scale Catastrophe: An Analysis of the Gulf Coast after Katrina

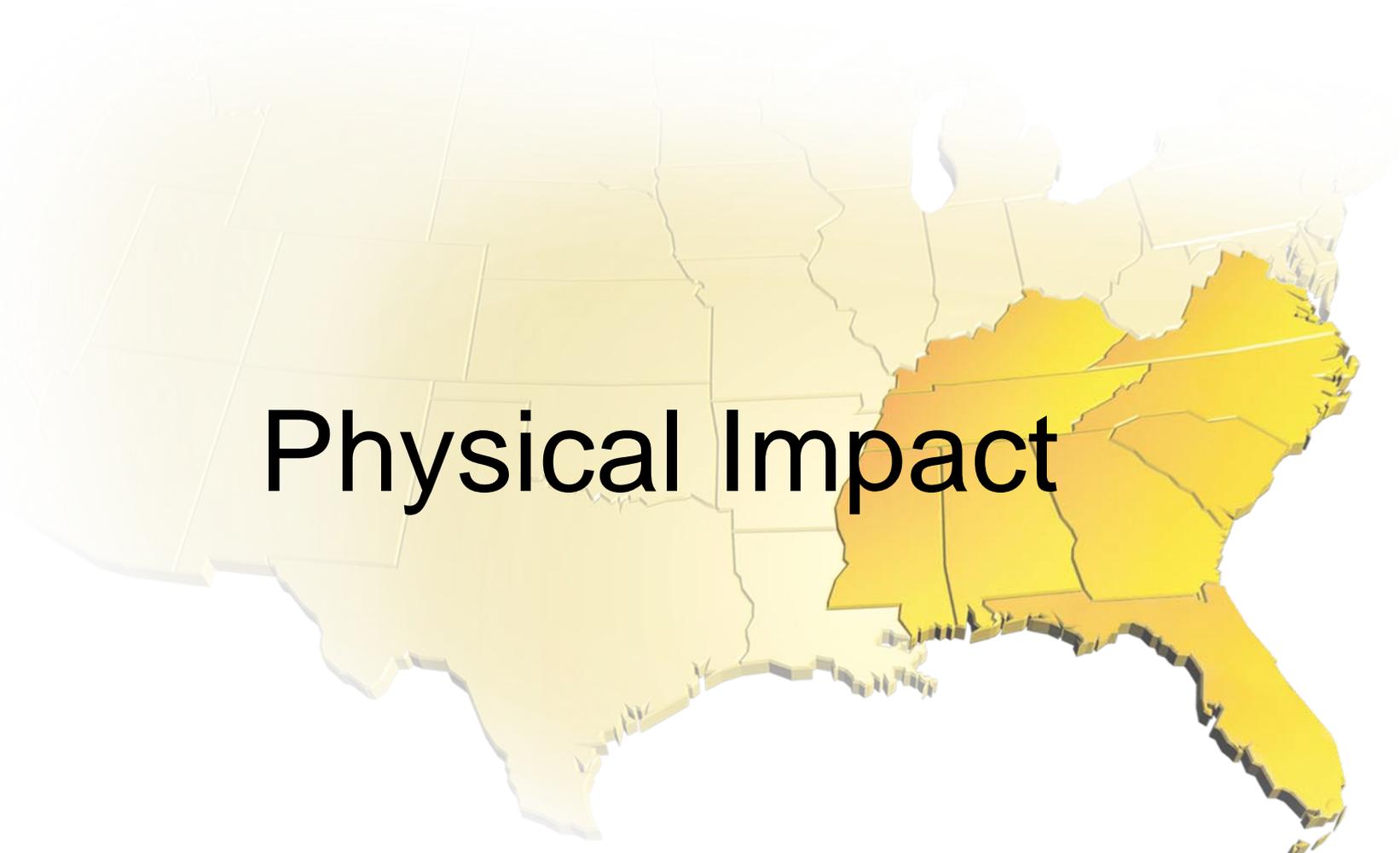
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Ph.D., The University of Southern
Mississippi

Project Duration June 2009-May 2011

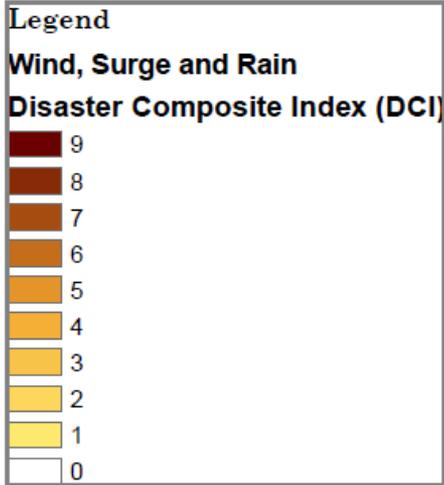


Project Abstract

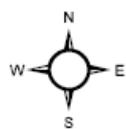
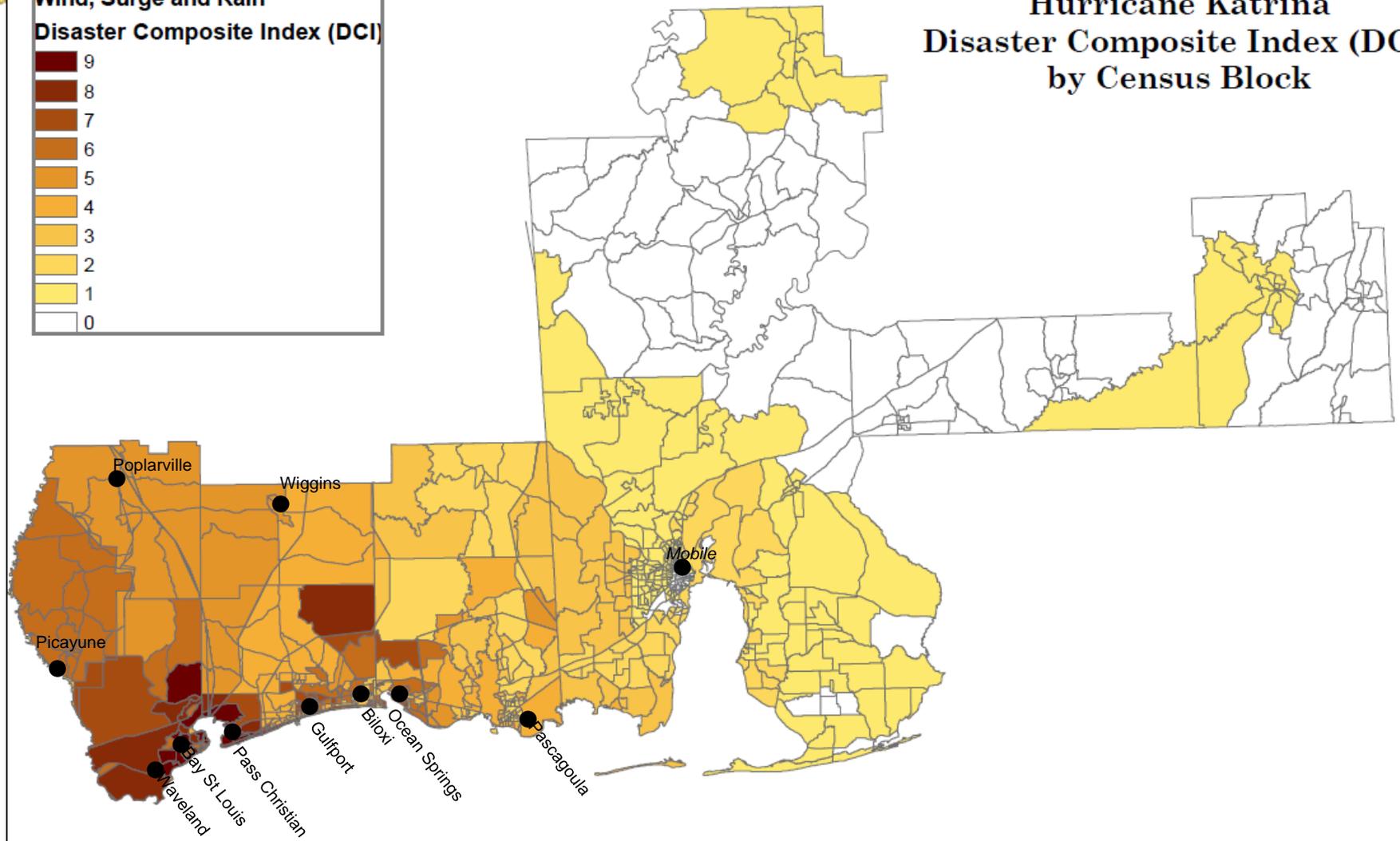
- The researchers will estimate how communities and specific populations within those communities respond to a disaster, providing critical knowledge about potential efficacy of timely and targeted assistance to ensure rapid and effectively rebuilding of local economies.



Physical Impact



Alabama and Mississippi Hurricane Katrina Disaster Composite Index (DCI) by Census Block



Map Projection:
NAD 1983 StatePlane Mississippi West FIPS 2302

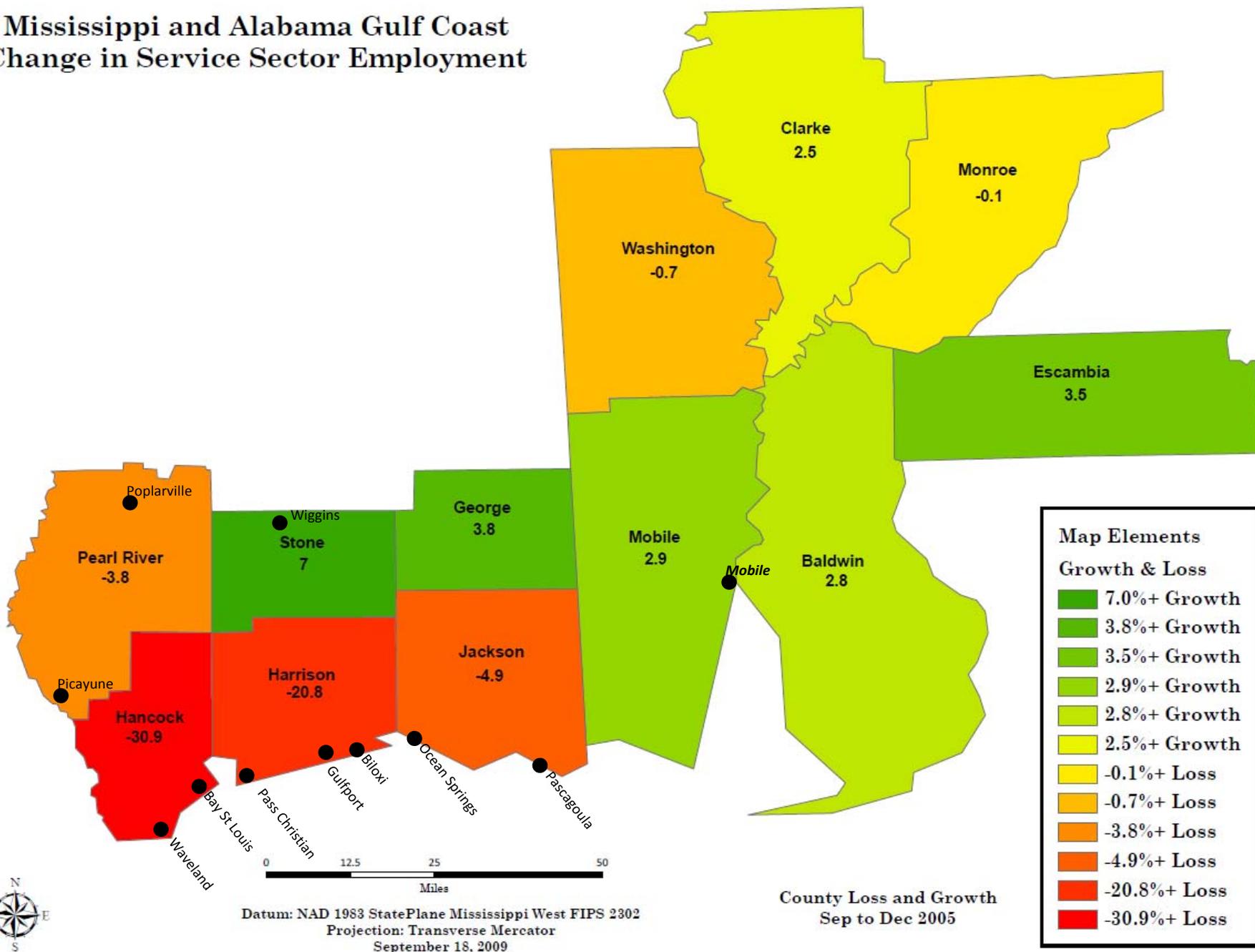


Speed of Economic Recovery

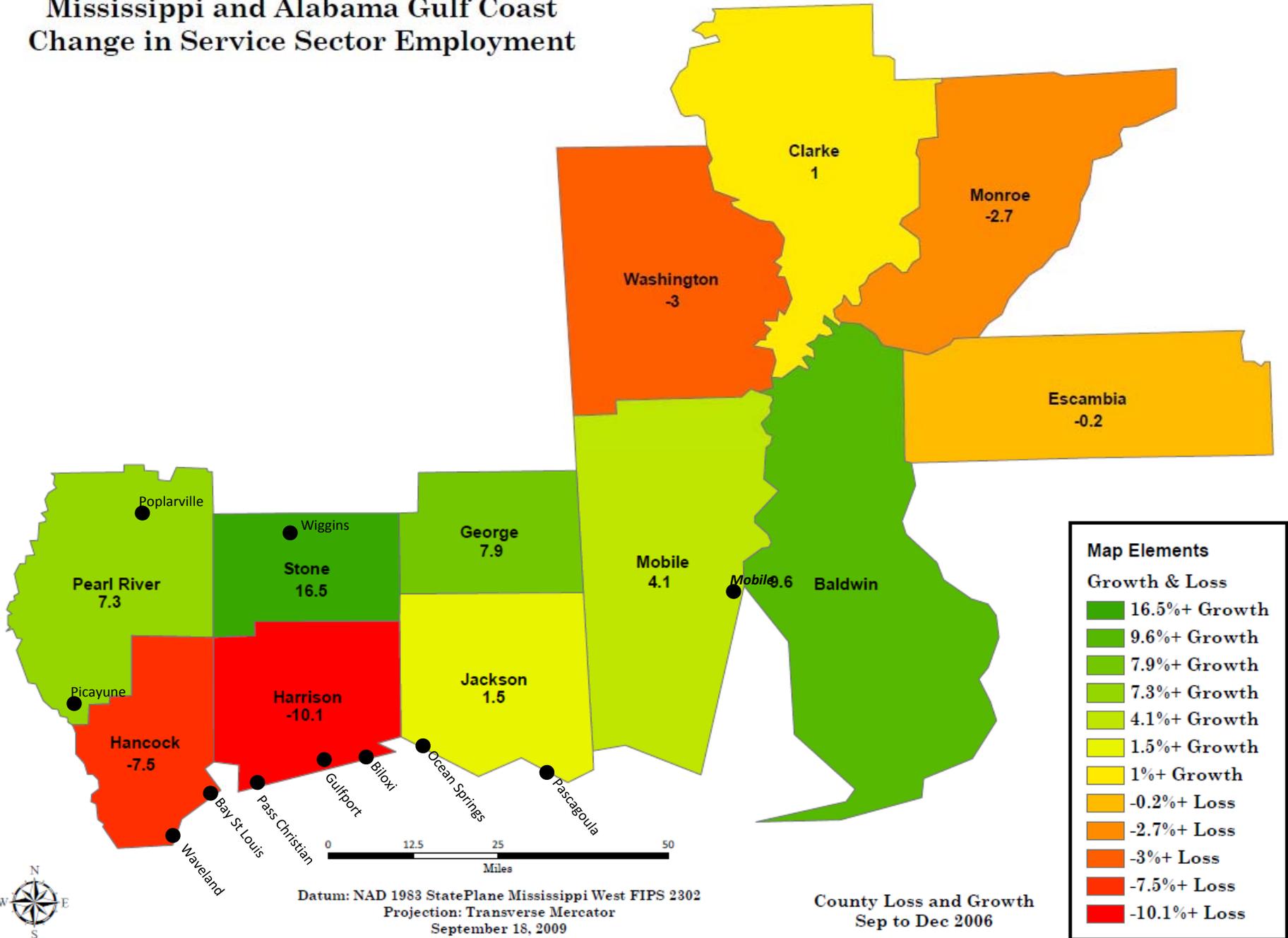




Mississippi and Alabama Gulf Coast Change in Service Sector Employment

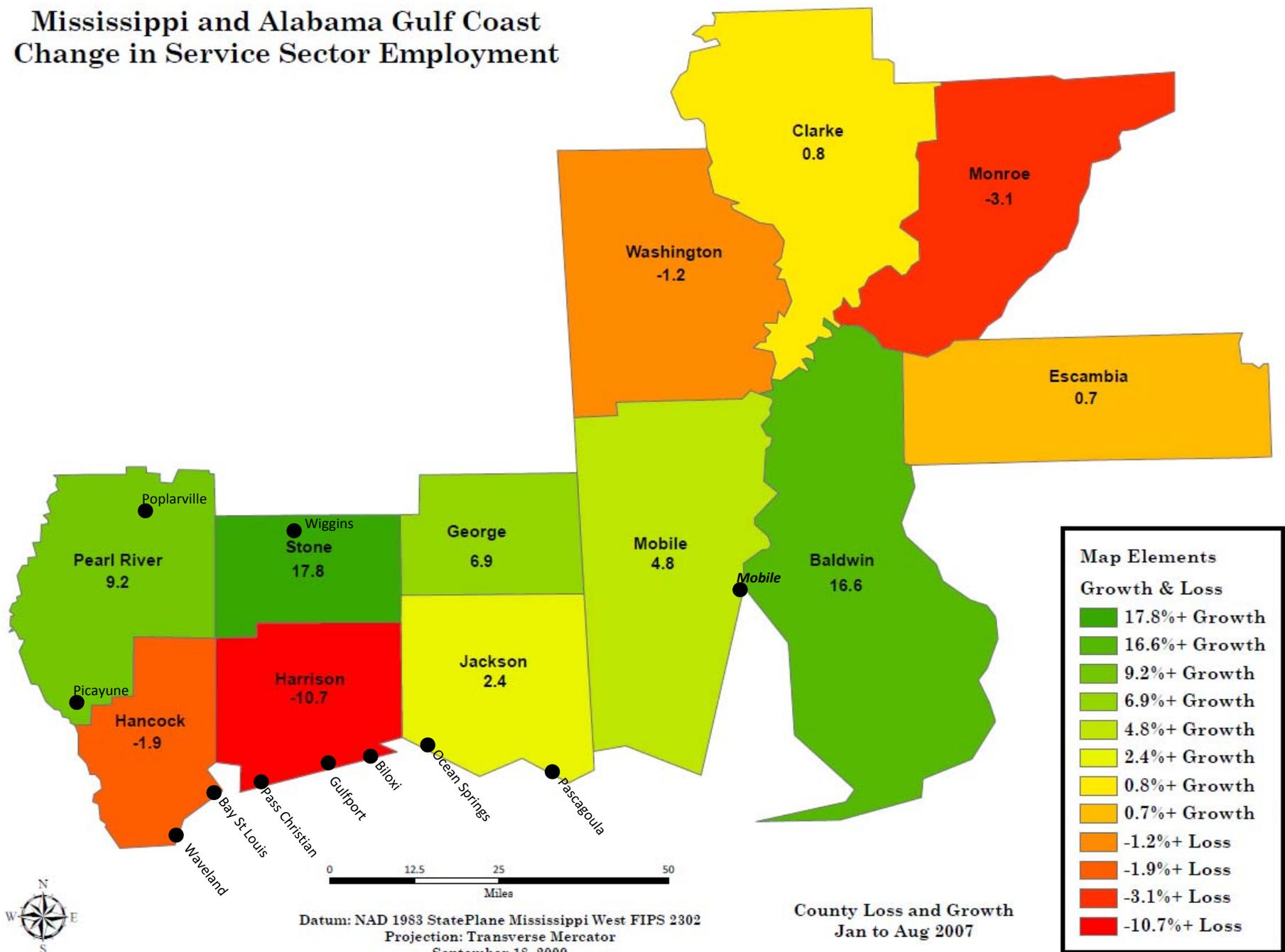


Mississippi and Alabama Gulf Coast Change in Service Sector Employment

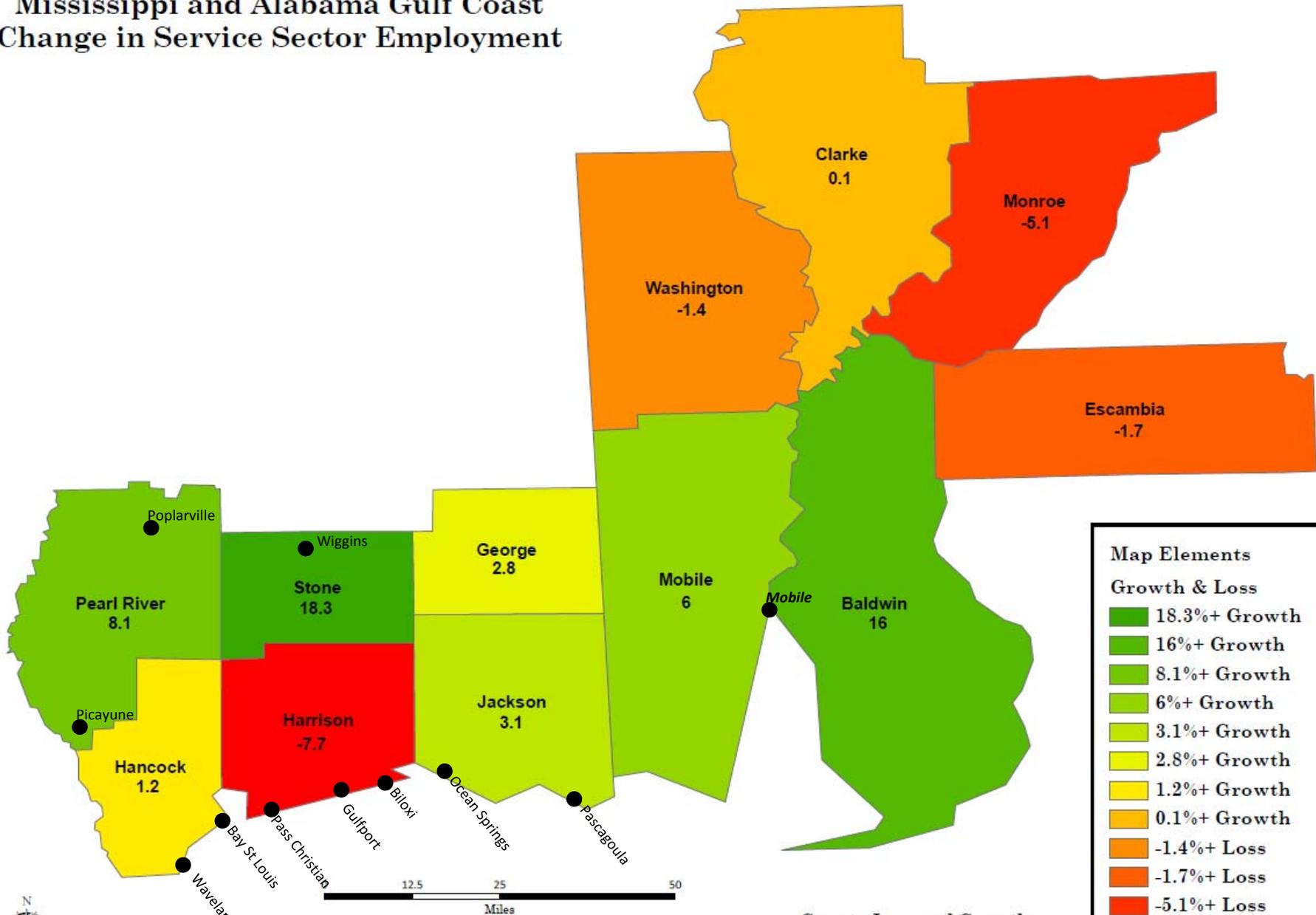




Mississippi and Alabama Gulf Coast Change in Service Sector Employment



Mississippi and Alabama Gulf Coast Change in Service Sector Employment



Map Elements

Growth & Loss

- 18.3%+ Growth
- 16%+ Growth
- 8.1%+ Growth
- 6%+ Growth
- 3.1%+ Growth
- 2.8%+ Growth
- 1.2%+ Growth
- 0.1%+ Growth
- 1.4%+ Loss
- 1.7%+ Loss
- 5.1%+ Loss
- 7.7%+ Loss

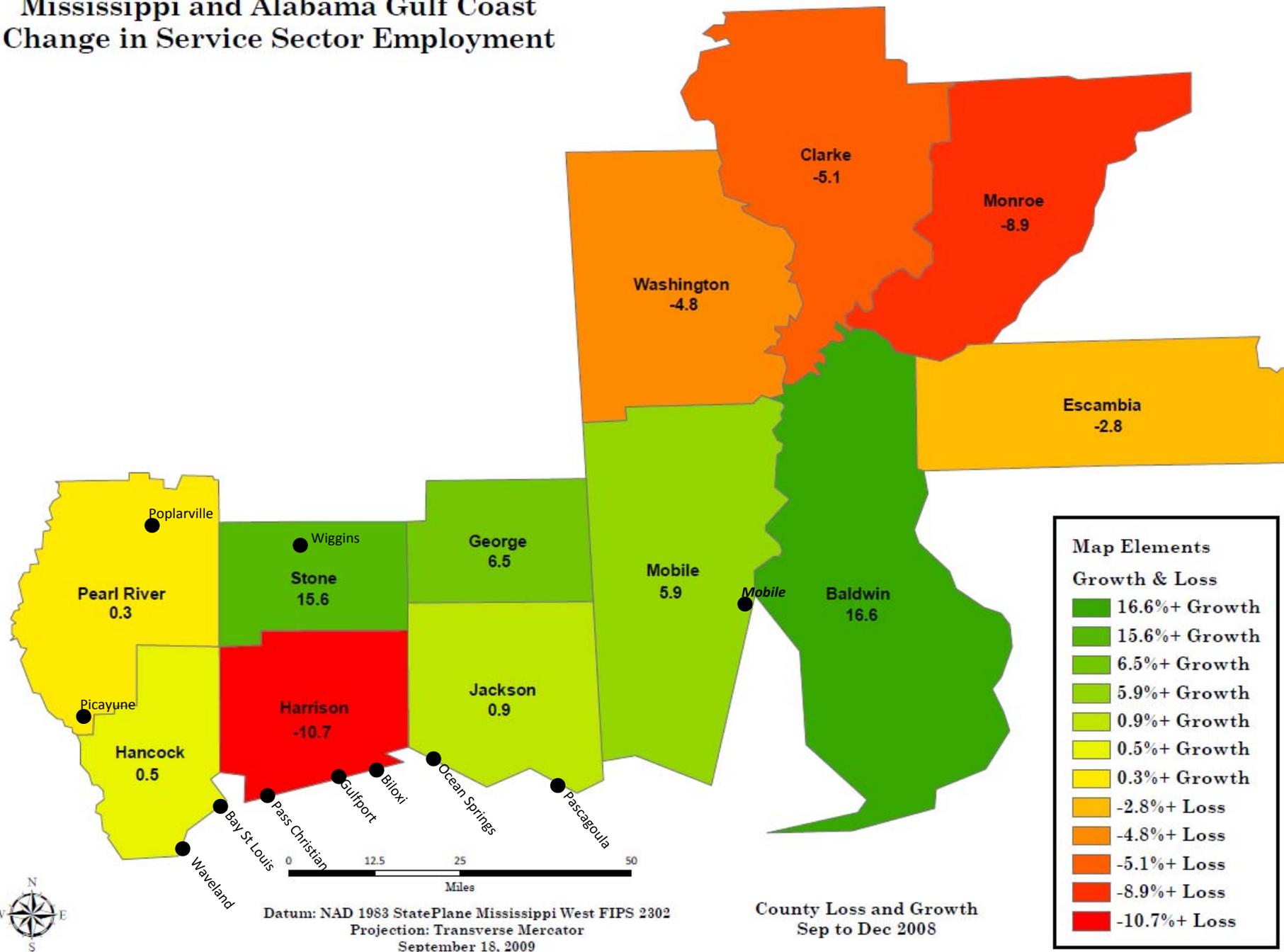


Datum: NAD 1983 StatePlane Mississippi West FIPS 2302
 Projection: Transverse Mercator
 September 18, 2009

County Loss and Growth
 Sep to Dec 2007



Mississippi and Alabama Gulf Coast Change in Service Sector Employment

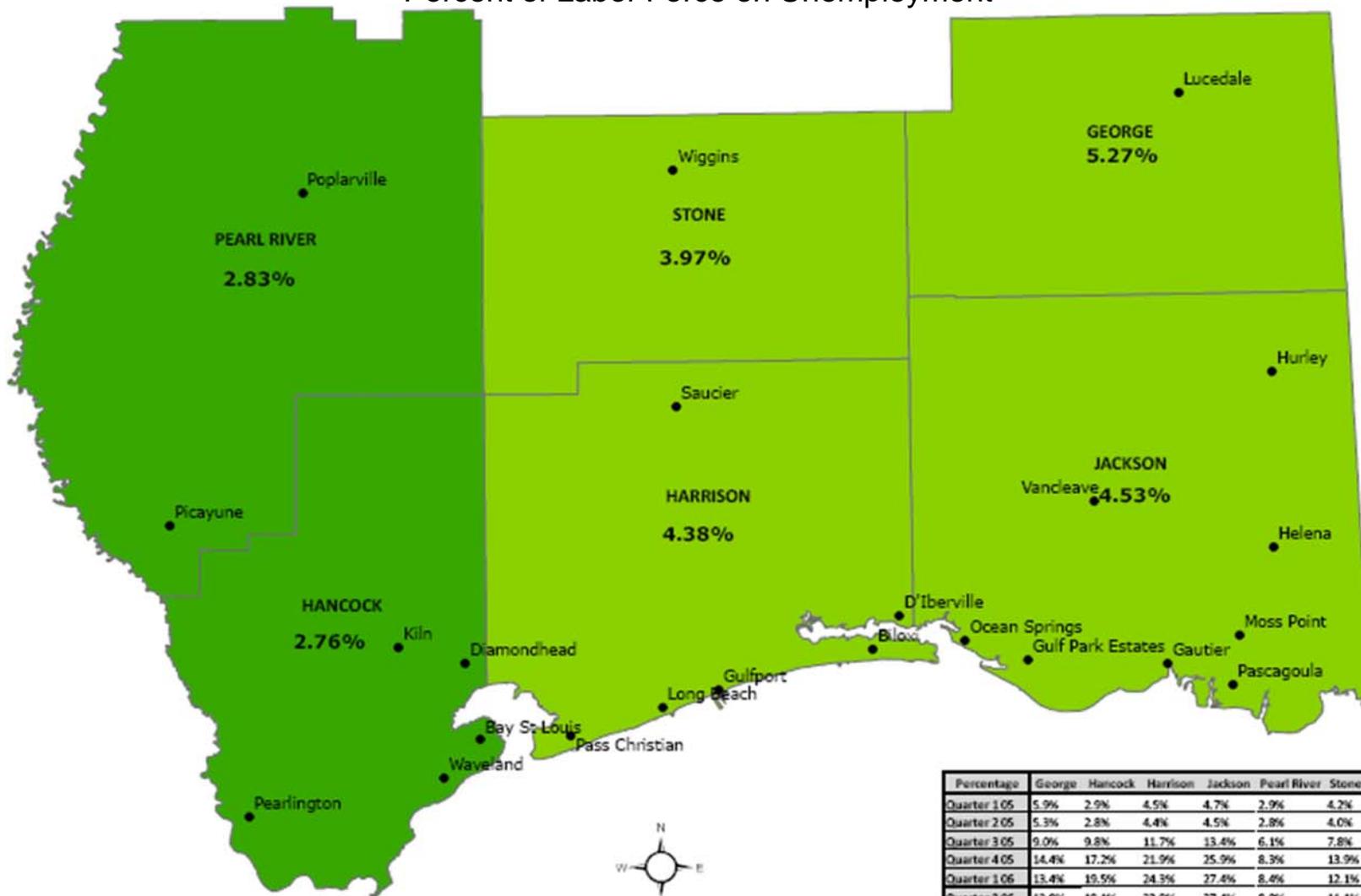


A map of the United States is shown in the background, with the Southeastern region highlighted in a gradient of yellow and orange. The highlighted area includes Florida, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Kentucky, Tennessee, Mississippi, Alabama, and Louisiana. The rest of the United States is shown in a light beige color.

Unemployment Insurance

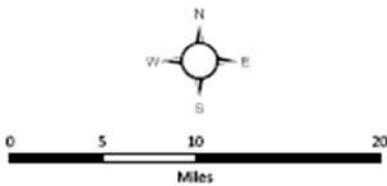
Mississippi Labor Force 2nd Quarter 2005

Percent of Labor Force on Unemployment



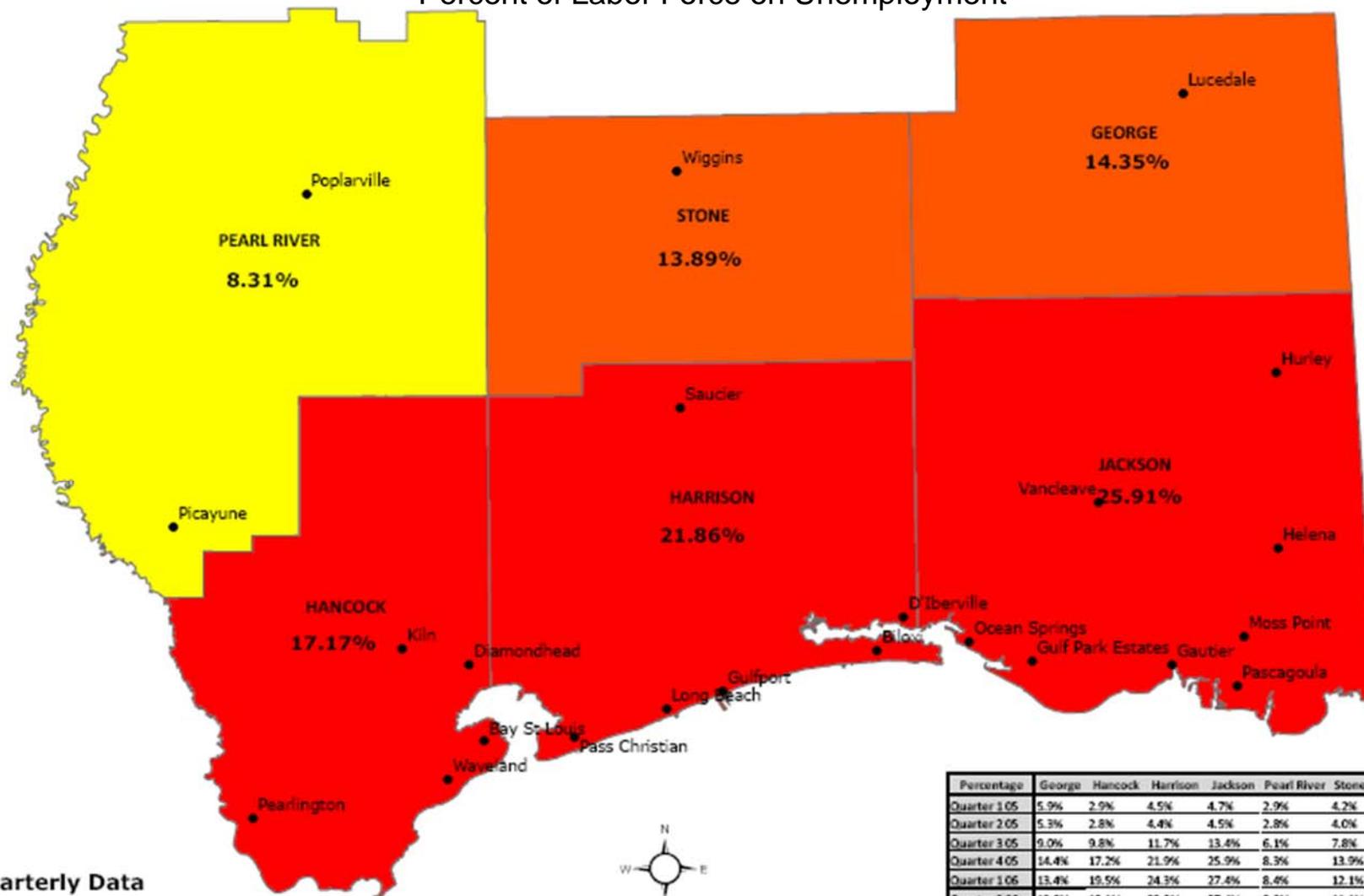
Percentage	George	Hancock	Harrison	Jackson	Pearl River	Stone
Quarter 1 05	5.9%	2.9%	4.5%	4.7%	2.9%	4.2%
Quarter 2 05	5.3%	2.8%	4.4%	4.5%	2.8%	4.0%
Quarter 3 05	9.0%	9.8%	11.7%	13.4%	6.1%	7.8%
Quarter 4 05	14.4%	17.2%	21.9%	25.9%	8.3%	13.9%
Quarter 1 06	13.4%	19.5%	24.3%	27.4%	8.4%	12.1%
Quarter 2 06	12.9%	19.1%	23.9%	27.4%	8.0%	11.1%
Quarter 3 06	9.4%	13.4%	16.7%	19.8%	6.2%	7.3%
Quarter 4 06	4.4%	2.6%	4.1%	4.3%	2.8%	2.3%
Quarter 1 07	5.6%	2.2%	3.8%	5.7%	2.7%	2.6%
Quarter 2 07	8.2%	2.2%	4.1%	8.9%	2.7%	2.9%
Quarter 3 07	7.9%	2.6%	4.4%	8.7%	2.9%	3.2%
Quarter 4 07	7.5%	2.8%	4.5%	8.2%	3.1%	3.3%

UI Quarterly Data
 2nd Quarter LF 2005
 3.0% - 5.9%
 0% - 2.9%



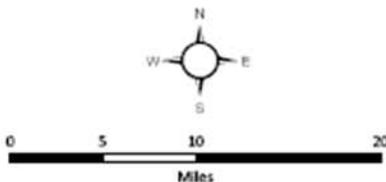
Mississippi Labor Force 4th Quarter 2005

Percent of Labor Force on Unemployment



UI Quarterly Data
4th Quarter LF 2005

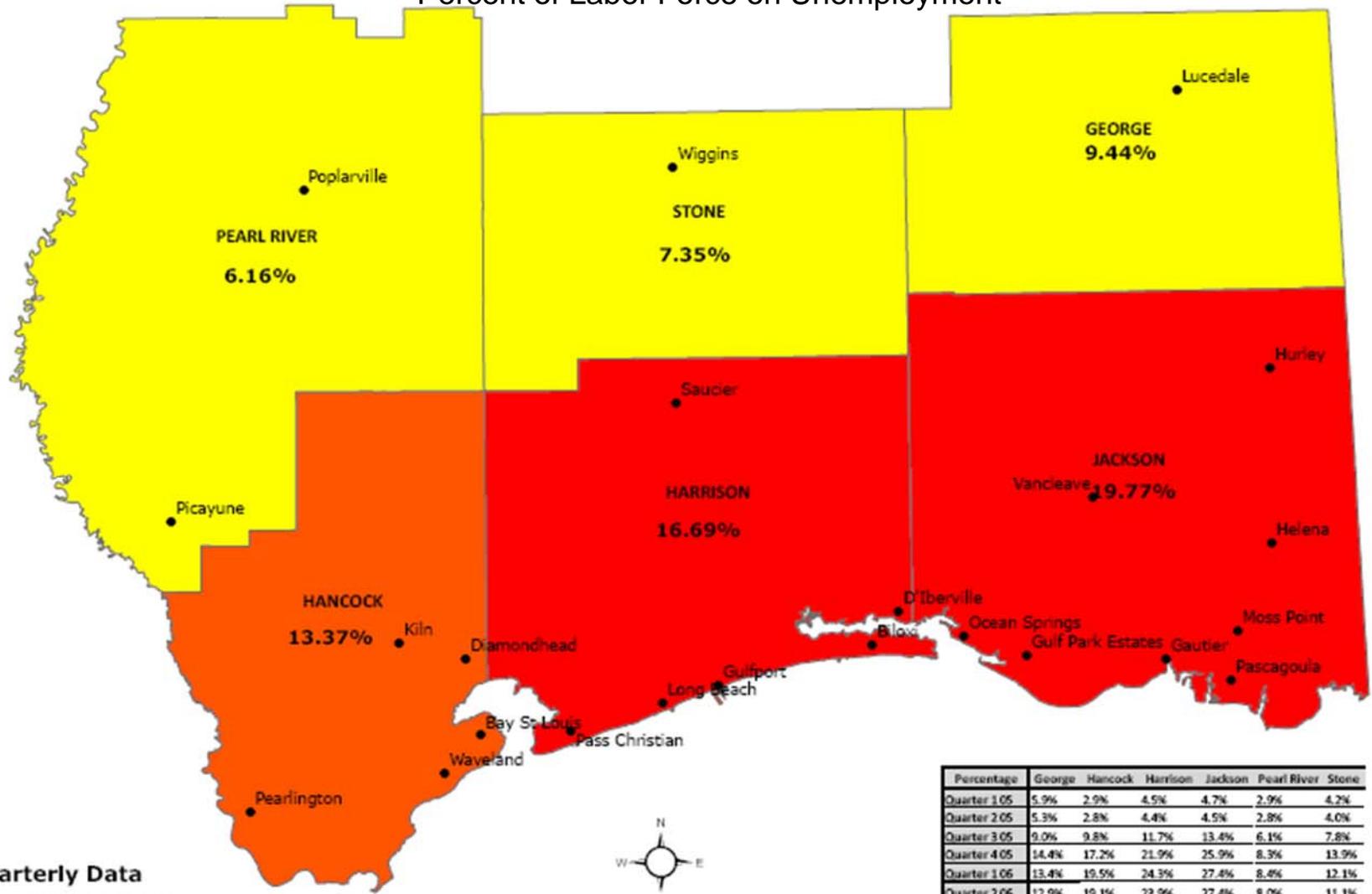
- 15.0%+
- 10.0% - 14.9%
- 8.31%



Percentage	George	Hancock	Harrison	Jackson	Pearl River	Stone
Quarter 1 05	5.9%	2.9%	4.5%	4.7%	2.9%	4.2%
Quarter 2 05	5.3%	2.8%	4.4%	4.5%	2.8%	4.0%
Quarter 3 05	9.0%	9.8%	11.7%	13.4%	6.1%	7.8%
Quarter 4 05	14.4%	17.2%	21.9%	25.9%	8.3%	13.9%
Quarter 1 06	13.4%	19.5%	24.3%	27.4%	8.4%	12.1%
Quarter 2 06	12.9%	19.1%	23.9%	27.4%	8.0%	11.1%
Quarter 3 06	9.4%	13.4%	16.7%	19.8%	6.2%	7.3%
Quarter 4 06	4.4%	2.6%	4.1%	4.3%	2.8%	2.3%
Quarter 1 07	5.6%	2.2%	3.8%	5.7%	2.7%	2.6%
Quarter 2 07	8.2%	2.2%	4.1%	8.9%	2.7%	2.9%
Quarter 3 07	7.9%	2.6%	4.4%	8.7%	2.9%	3.2%
Quarter 4 07	7.5%	2.8%	4.5%	8.2%	3.1%	3.3%

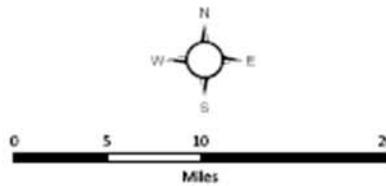
Mississippi Labor Force 3rd Quarter 2006

Percent of Labor Force on Unemployment



UI Quarterly Data
3rd Quarter LF 2006

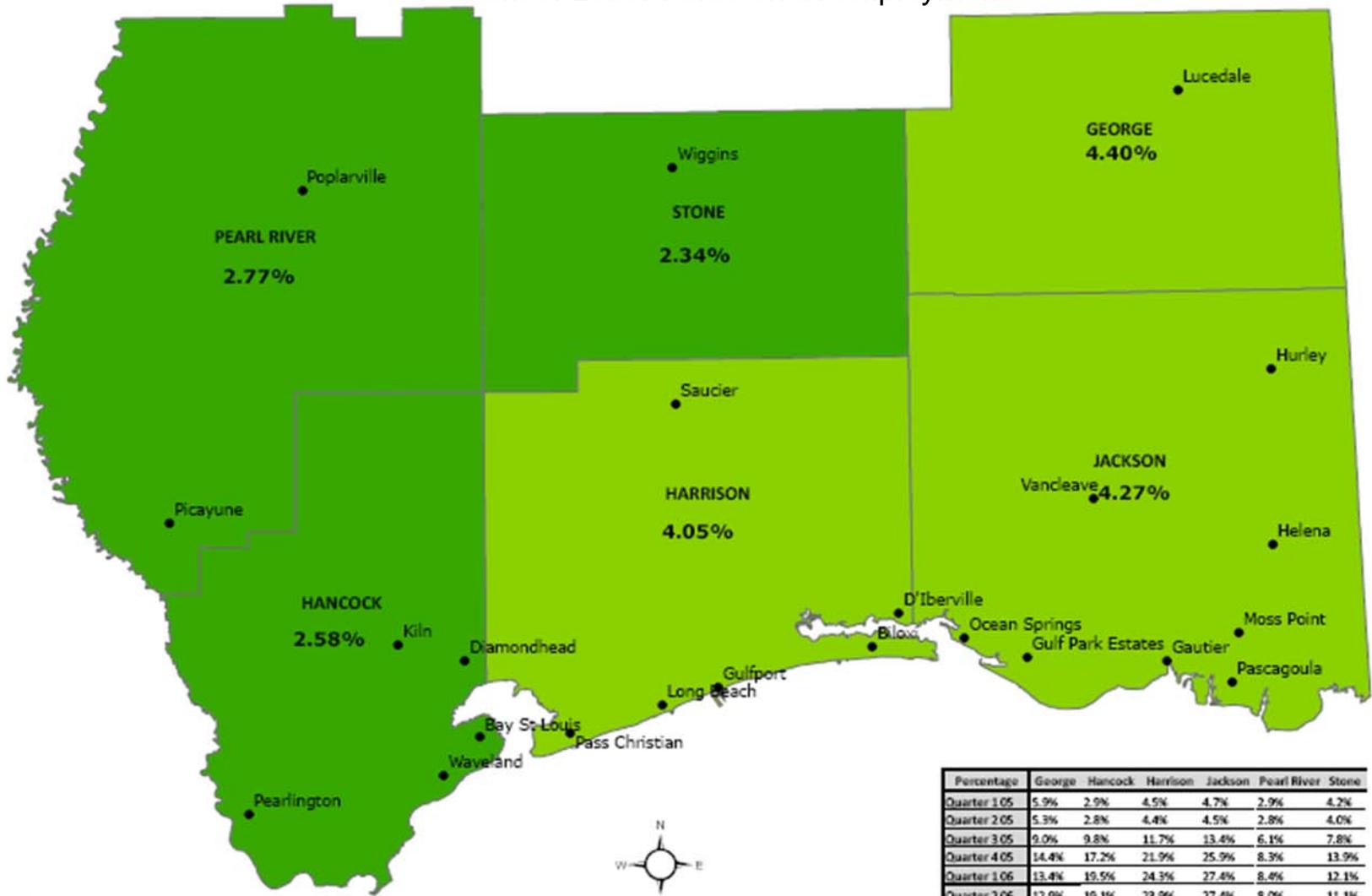
- 15.0%+
- 10.0% to 14.9%
- 6.0% to 9.9%



Percentage	George	Hancock	Harrison	Jackson	Pearl River	Stone
Quarter 1 05	5.9%	2.9%	4.5%	4.7%	2.9%	4.2%
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Quarter 4 06	4.4%	2.6%	4.1%	4.3%	2.8%	2.3%
Quarter 1 07	5.6%	2.2%	3.8%	5.7%	2.7%	2.6%
Quarter 2 07	8.2%	2.2%	4.1%	8.9%	2.7%	2.9%
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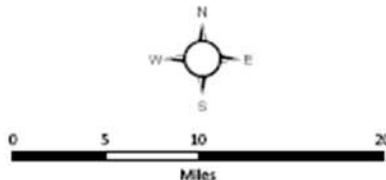
Mississippi Labor Force 4th Quarter 2006

Percent of Labor Force on Unemployment



UI Quarterly Data
4th Quarter LF 2006

- 3.0% to 5.9%
- 0% to 2.90%



Map Projection:
NAD 1983 StatePlane Mississippi West FIPS 2302

Percentage	George	Hancock	Harrison	Jackson	Pearl River	Stone
Quarter 1 05	5.9%	2.9%	4.5%	4.7%	2.9%	4.2%
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Quarter 3 07	7.9%	2.6%	4.4%	8.7%	2.9%	3.2%
Quarter 4 07	7.5%	2.8%	4.5%	8.2%	3.1%	3.3%



Thank You.

Questions?