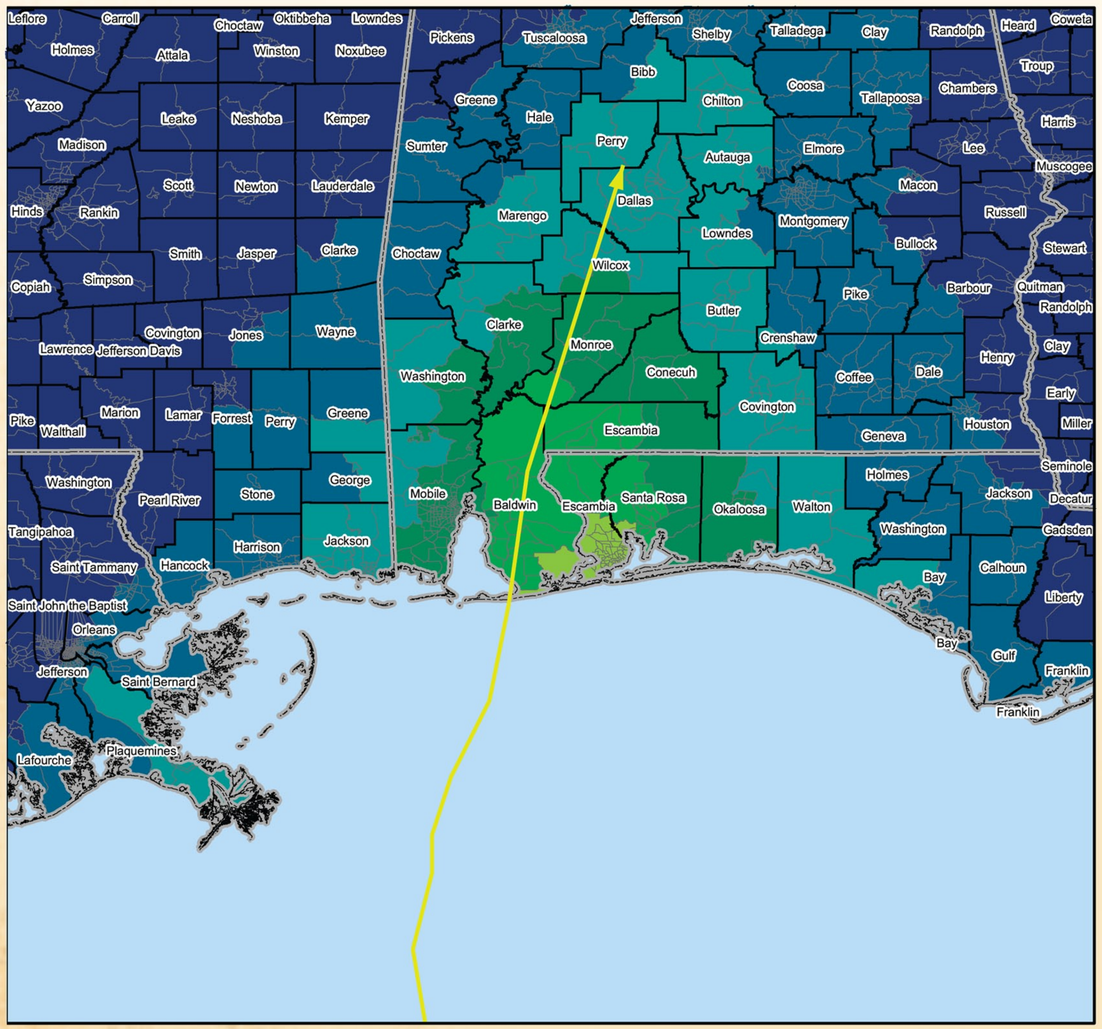
**HAZUS-MH APPLICATION:** HURRICANE WIND

# Estimated Peak Wind Gusts in Hurricane Ivan




**Final Windfield**
**9-17-04 11:00 EST**

- Current Hurricane Track
- Previous Advisory Tracks
- County Boundary
- State Boundary

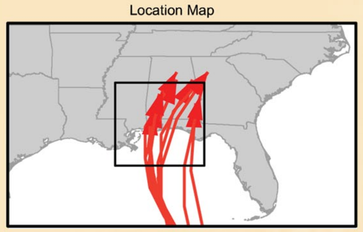
**Peak Gust Wind Speeds (mph)**

- < 50
- 51 - 65
- 66 - 80
- 81 - 95
- 96 - 110
- 111 - 125
- 126 - 140
- 141 - 155
- 156 - 170
- 171 - 185
- 185 - 200
- > 200

N

0 20 40 80 Miles

Location Map



## DATA AND ANALYSIS DISPLAYED:

- Peak Gust Wind Speeds (mph) – Final Windfield Hurricane Ivan track
- Includes anemometer data recorded during landfall, as well as surface roughness factors based on GIS layers of tree coverage and land use.

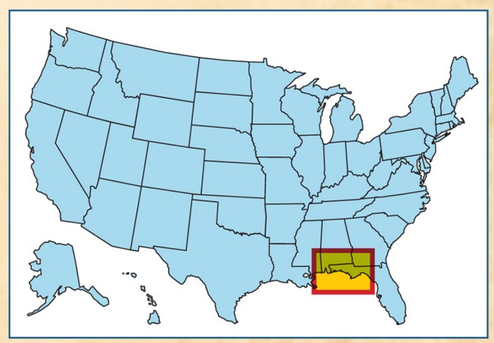
## POTENTIAL USES

### Pre-Disaster:

- Scenario development for hurricane preparedness, training, and exercises.

### Post-Disaster:

- Comparison of actual 3 sec peak gust windspeeds to building code design windspeeds.
- Post-landfall analyses of counties, population, essential facilities and infrastructure that have been impacted by hurricane wind.
- Incorporation of demographic data to identify the population most at risk from hurricane winds, including low-income, elderly, and other special needs groups.
- Rapid needs assessment.
- Response and recovery planning, including identification and analysis of areas most impacted by hurricane winds.



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