# Documenting and Quantifying Feral Hog Damage in Louisiana's Southern Marshes

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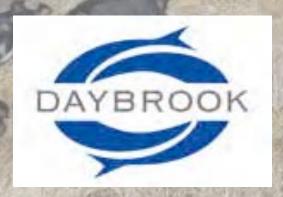
# Acknowledgements















- **Ground nesting birds**
- Invertebrate assemblages
- Water quality degradation
- Spread of disease to wildlife, domestic stock, or humans
- Alligator nest depredation

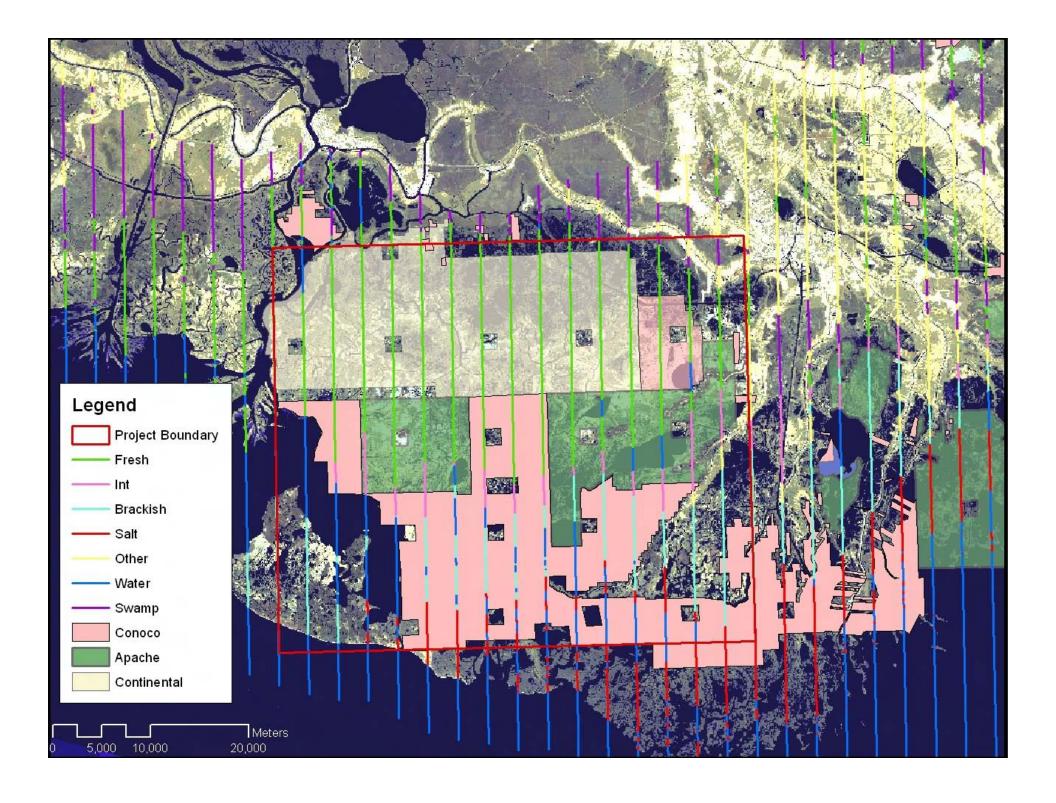
# Aims and Objectives

- Document and quantify feral hog damage
- Determine drivers of habitat selection and patterns of hog damage
- Inform landowners and public
- Form program or legislation to help control feral hogs

# Project Description

- 500K acres project area in Terrebonne Parish
- 17 North-South transects
- All four marsh types present within project boundary
- Aerial surveillance by helicopter





### Materials and Methods

- In early spring, seventeen transects flown by helicopter 1.77 mi. apart
- Polygons drawn in real time with Arcmap GIS software and damage percentages estimated
- Subcategories of damage (mild, moderate, severe, bare ground)
- Vegetation data gathered
- Transect, marsh type, acreage, and aerial photo of damage site recorded



# Damage Synopsis

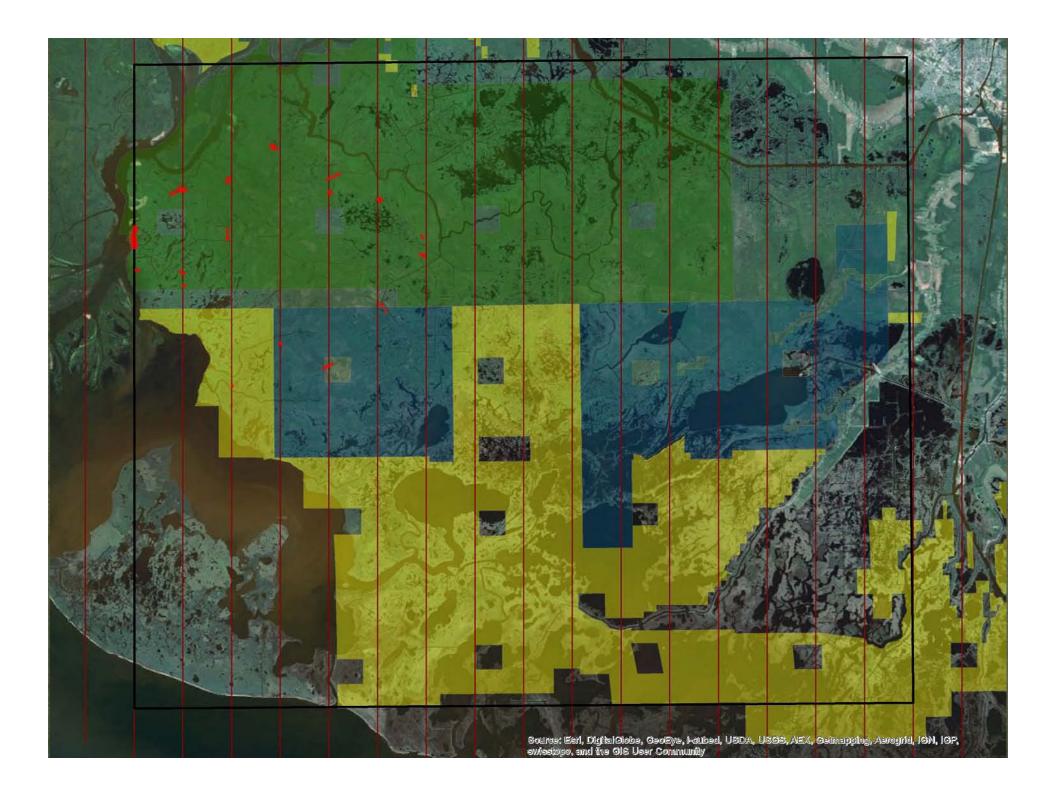
- 17 total damage sites
- Damage sites were concentrated in the northwestern quadrant of the study area and usually followed waterways
- Constrained to freshwater marsh only
- Calculations and extrapolation to estimate total damage

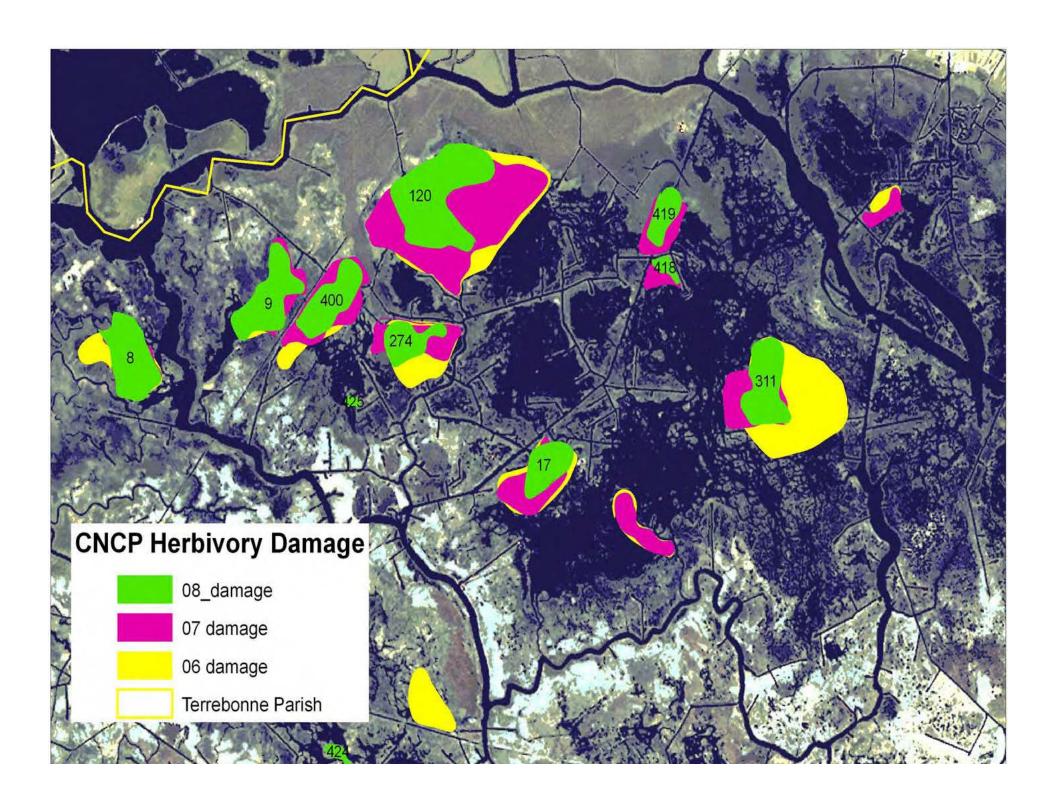
### Results

17 damage sites ranging from 2.7 – 72.6 acres

227.5 total acres damaged

 Assuming equal distribution and occupancy, 796.4 acres currently damaged within freshwater marsh of study area





## Long Term Goals and Management

- Use data collected to form a program and/or legislation
- Use CNCP as blueprint to obtain CWPPRA funding
- Inform public and companies from data
- Maximize control efforts to reduce marsh degradation

