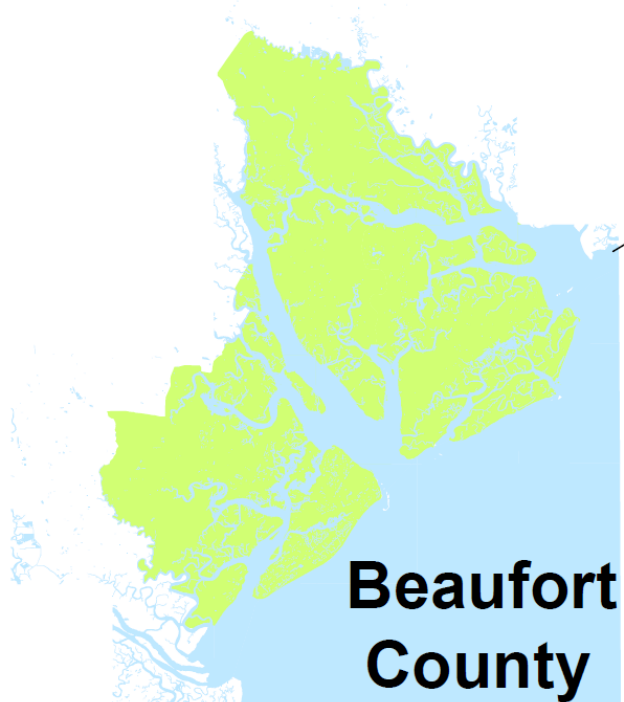




# Beaufort Co. Mosquito Control





- **587 sq. mi. land**  
**(13% agriculture)**
- **336 sq. mi. water**
- **4 cities/towns**
- **180,000 residents**

# Zika Virus Response Plan

- 1) Surveillance
- 2) Community Outreach
- 3) Abatement Strategies
- 4) Post Outbreak Assessment

# 1) Surveillance

- ▶ 57 mosquito species
- ▶ *Aedes taeniorhynchus* – No. 1 pest
- ▶ *Culex* – West Nile Virus
- ▶ *Aedes*, *Coquillettidia*, *Culiseta* – Eastern Equine Encephalitis (EEE) Virus
- ▶ *Aedes albopictus* – Zika Virus



# 2) Community Outreach



**The  
County  
Channel**

# CDC Notifications

## GOING TO THE AMERICAN TROPICS?

**MOSQUITOES** spread **DENGUE, CHIKUNGUNYA, ZIKA,** and other diseases



Mosquitoes bite day and night. Prevent mosquito bites:

- Use insect repellent
- Use air conditioning or window/door screens
- Wear long-sleeved shirts and long pants



**DON'T LET MOSQUITOES RUIN YOUR TRIP**

For more information, visit [www.cdc.gov/travel](http://www.cdc.gov/travel)



U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

## RECENTLY IN THE AMERICAN TROPICS?

**MOSQUITOES** spread **DENGUE, CHIKUNGUNYA, ZIKA,** and other diseases



2 WEEKS						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4



Watch for fever with joint, muscle, or eye pain, or a rash in the next 2 weeks.



If you get sick, see a doctor. Tell the doctor where you traveled.



For more information, visit [www.cdc.gov/travel](http://www.cdc.gov/travel).



U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

# Protection Against Mosquitoes

- ▶ Avoid peak mosquito bites (morning / afternoon)
- ▶ Wear protective clothing
- ▶ Apply insect repellents
- ▶ Drain or replace standing water
- ▶ Install or repair window and door screens



# Beaufort County HOUSEHOLD HAZARDOUS MATERIALS ROUNDUP & Medicine Cabinet Clean-Out

SATURDAY, MARCH 7, 2015  
9 a.m. to 3 p.m.

**TWO LOCATIONS!**  
PUBLIC WORKS NORTH  
140 Shanklin Rd., Beaufort  
PUBLIC WORKS SOUTH  
9 Benton Field Rd., Bluffton

## ACCEPTED ITEMS:

- ✓ Antifreeze
- ✓ Automotive and Boat Products
- ✓ Batteries
- ✓ Cleaning Products
- ✓ Fire Extinguishers
- ✓ Fluorescent Bulbs
- ✓ Gasoline
- ✓ Hobby Chemicals
- ✓ Insecticides
- ✓ Oil
- ✓ Paint
- ✓ Photography Chemicals
- ✓ Poisons
- ✓ Propane Tanks
- ✓ Stains and Varnishes
- ✓ Tires
- ✓ Turpentine
- ✓ Other Items (with labels that have words like WARNING, DANGER or CAUTION)
- ✓ Unwanted Medicine\* (including prescription and over-the-counter drugs, vitamins and herbal supplements)

\* This effort is part of an amnesty event to remove potentially dangerous medications from circulation. It is sponsored by the Beaufort County Sheriff's Office and partnering agencies.



## PREPARING YOUR ITEMS:

- Tighten caps and lids.
- Leave materials in original containers.
- Pack containers in a box.
- Place the box in the trunk or the back of your vehicle.

## ITEMS NOT ACCEPTED:

- ✗ Ammunition
- ✗ Fireworks
- ✗ Medical Waste
- ✗ Smoke Detectors
- ✗ Syringes

This event is for Beaufort County **RESIDENTS ONLY**. **NO BUSINESS OR COMMERCIAL CONTRACTORS!** Businesses and commercial contractors with hazardous products should call **843-255-2736** for more information.

For more information about this event, call **843-255-2736** or visit [www.bcgov.net/recycle](http://www.bcgov.net/recycle).

This message is provided in part with funds and/or services from the S.C. Department of Health and Environmental Control.

CR-011280 2/14



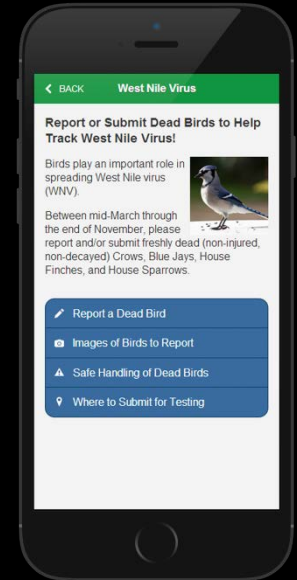
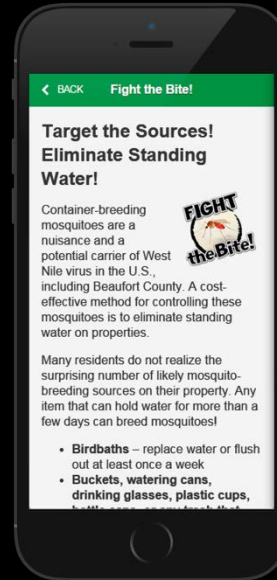
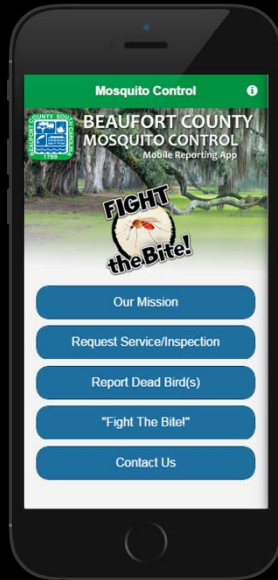
## MEDICINE CABINET CLEAN-OUT SPONSORS:

- Beaufort County Solid Waste & Recycling
- Beaufort County Sheriff's Office, Drug Investigations Section, Alcohol & Drug Abuse
- S.C. Department of Health and Environmental Control





# Mobile Reporting App



Robert Gecy  
Beaufort Co. IT

# 3) Abatement Strategies

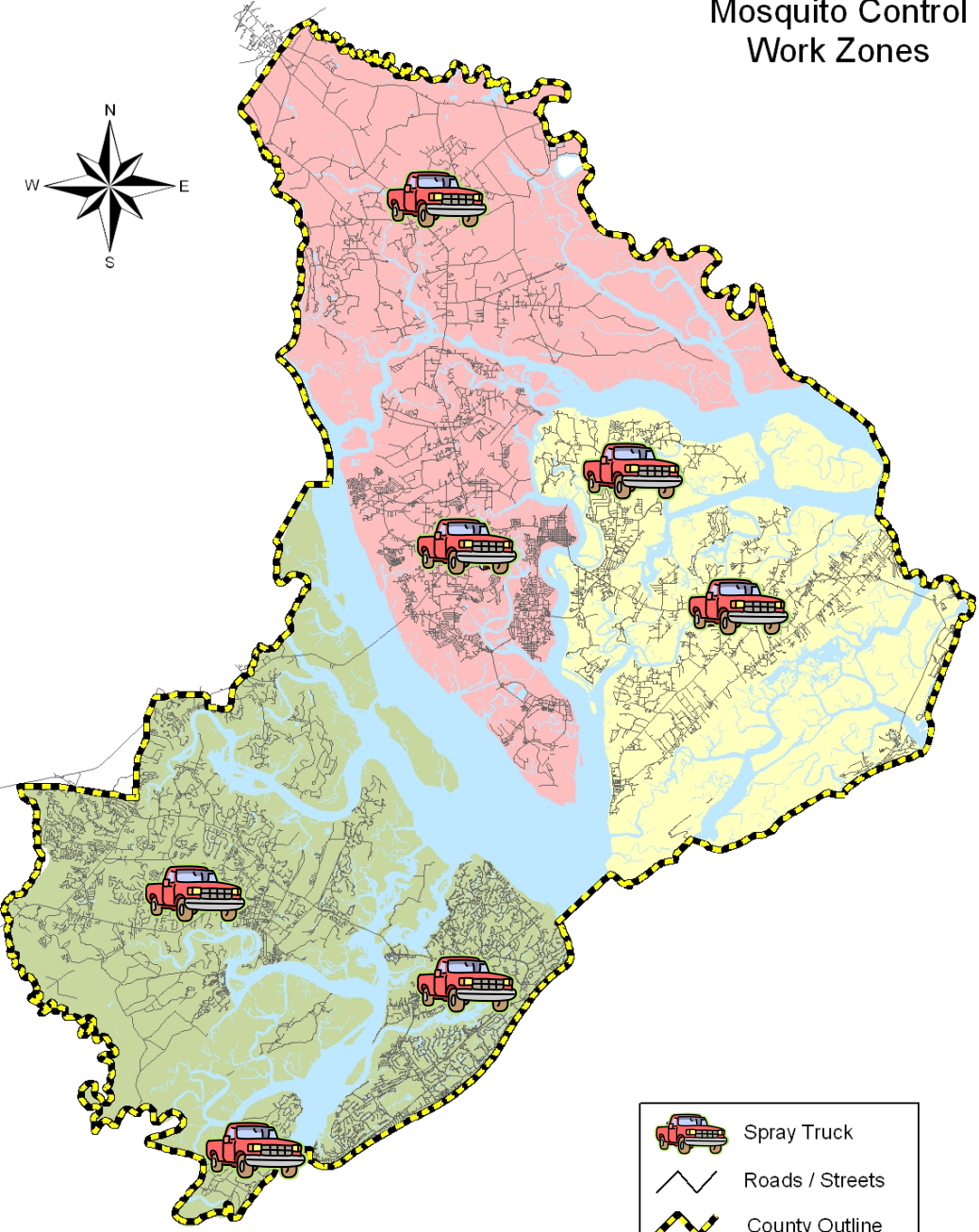
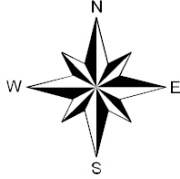
- ▶ Source reduction
- ▶ Immature mosquitoes
- ▶ Adult mosquitoes



# Control of Adult Mosquitoes



# Mosquito Control Work Zones



-  Spray Truck
-  Roads / Streets
-  County Outline

# Control of Adult Mosquitoes

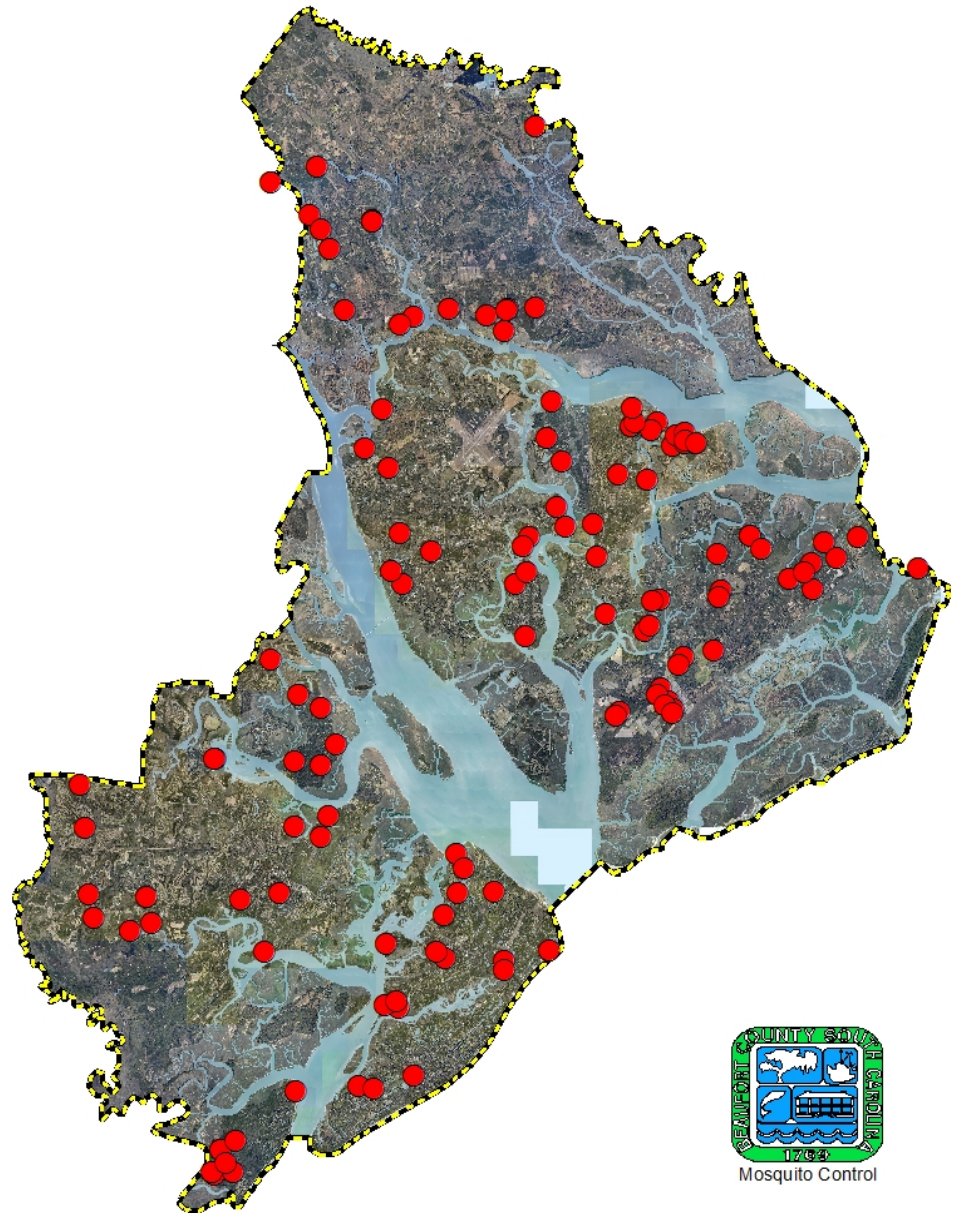




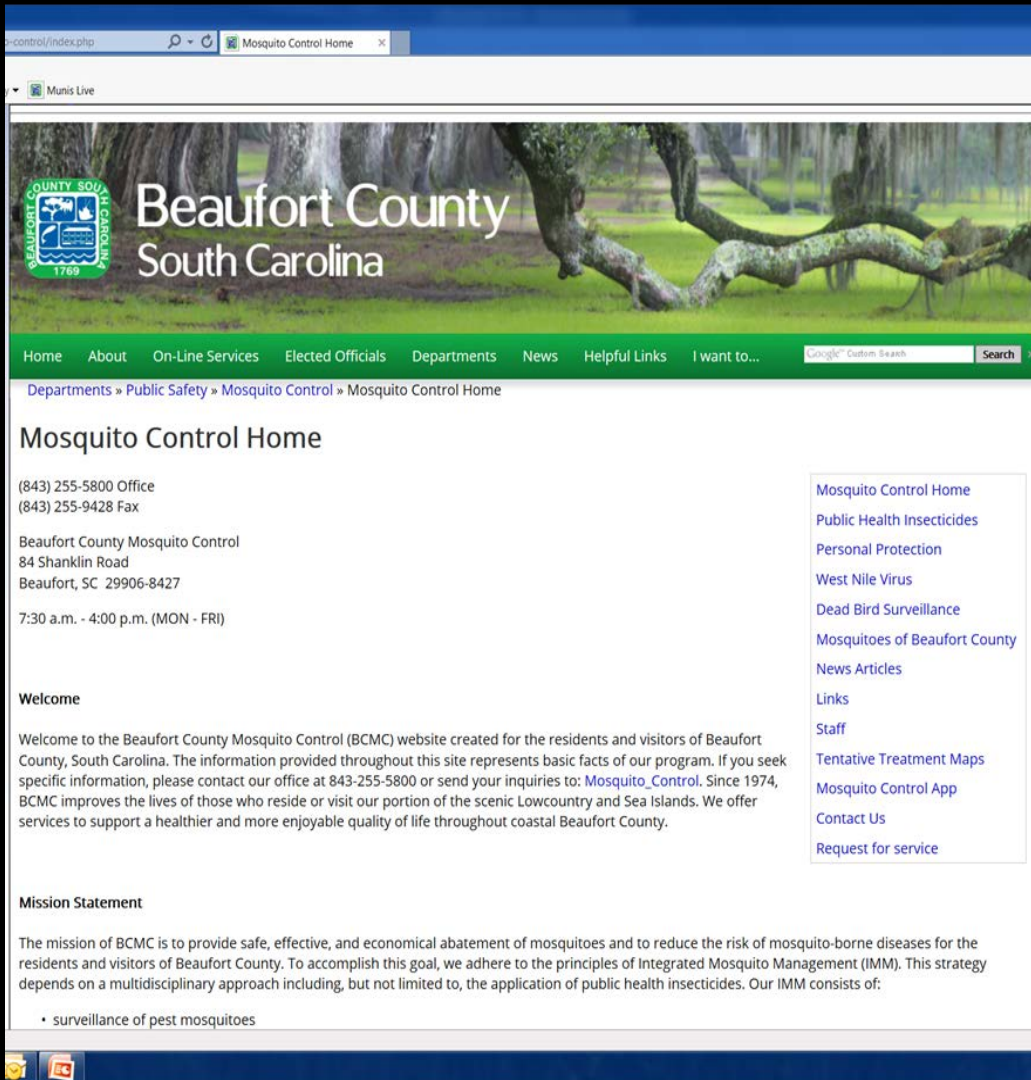
# “No Spray” Sites

- ▶ Bee hives
- ▶ Aqua cultures
- ▶ Organic farms
- ▶ Medical conditions
- ▶ Environmentalists

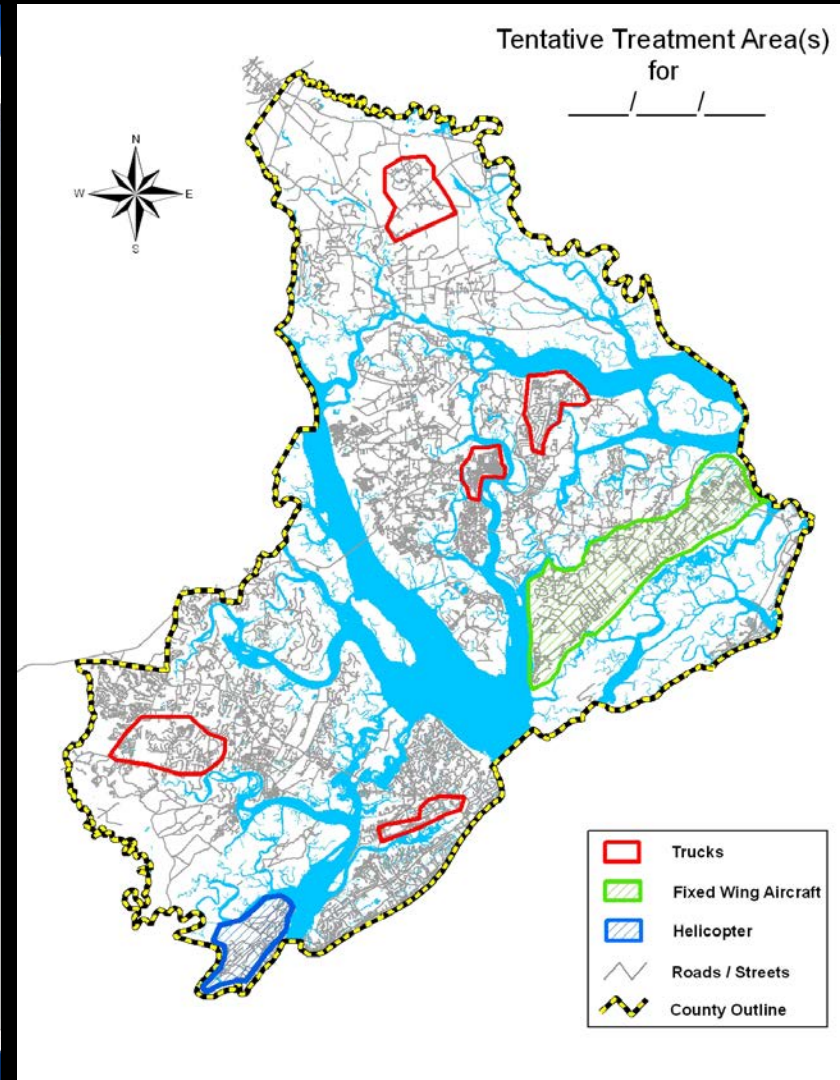
Reverse 911  
Messages



# Mosquito Control Website



The screenshot shows the homepage of the Beaufort County Mosquito Control website. The browser address bar displays "control/index.php" and the page title is "Mosquito Control Home". The website header features the Beaufort County logo and the text "Beaufort County South Carolina". A navigation menu includes links for Home, About, On-Line Services, Elected Officials, Departments, News, Helpful Links, and I want to... A search bar is also present. The main content area is titled "Mosquito Control Home" and provides contact information: (843) 255-5800 Office, (843) 255-9428 Fax, Beaufort County Mosquito Control, 84 Shanklin Road, Beaufort, SC 29906-8427, and 7:30 a.m. - 4:00 p.m. (MON - FRI). A "Welcome" section and a "Mission Statement" are also visible. A sidebar on the right contains a list of links: Mosquito Control Home, Public Health Insecticides, Personal Protection, West Nile Virus, Dead Bird Surveillance, Mosquitoes of Beaufort County, News Articles, Links, Staff, Tentative Treatment Maps, Mosquito Control App, Contact Us, and Request for service.



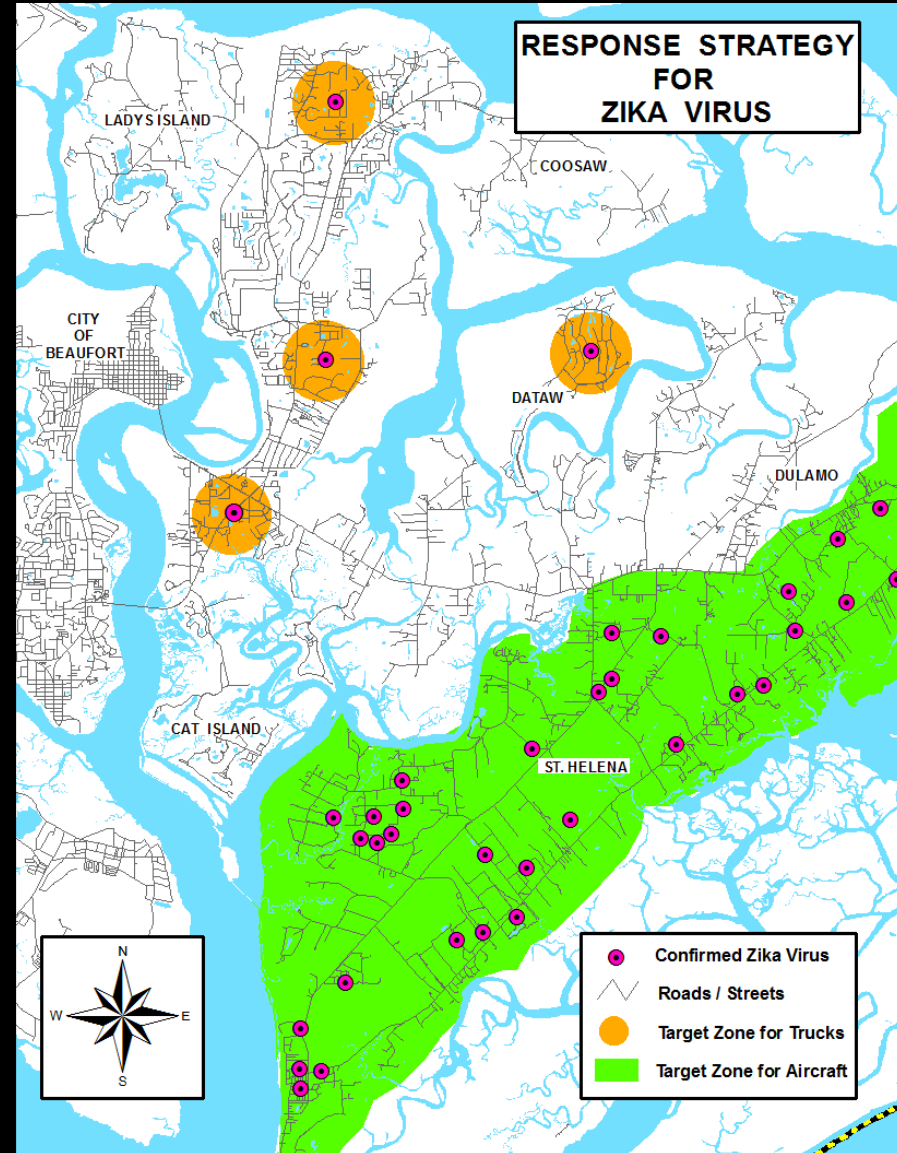


# Pro-Active Approach

- 1) Monitor distribution / abundance of vector mosquitoes
- 2) Endorse public education / community outreach activities

# Response Approach

- 1) Establish up to a ½-mile-radius target zone around each location using ground ULV or thermal fogging
- 2) For multiple cases, use aerial treatments during the day



# Response Approach (Cont.)

- 3) Coordinate info: SCDHEC, SCEMD  
BC Mosquito Control  
BC Communications (PIO)  
BC Emergency Management
  - Call Center (up to 4 phones)
  - MC homepage, County Facebook, and The County Channel
- 4) Invite the media to promote an awareness

# Response Approach (Cont.)

- 5) Encourage beekeepers to cover their bee hives
- 6) Maintain aggressive abatement efforts until SCDHEC declares the public health threat has subsided

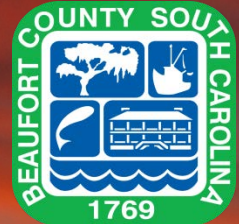
# 4) Post Outbreak Assessment

- ▶ Successes?
- ▶ Failures?
- ▶ Concerns for next year?
- ▶ MOUs?
- ▶ Funding options?

# Challenges

- ▶ Lack of sufficient funding
- ▶ Public apathy for sanitation
- ▶ Angry beekeepers
- ▶ Confrontational environmentalists
- ▶ Prolonged abatement efforts
- ▶ Coexisting mosquito-borne diseases

# Final Thoughts . . . .



- ▶ Organize resources (personnel, equipment, and funding)
- ▶ Initiate and/or maintain surveillance
- ▶ Conduct professional mosquito control
- ▶ Prepare for flexibility

