



# Post Disaster FEMA Reporting Overview

Jeff Brown

Brunswick County Mosquito Control





# Overview

- Request For Proposals (RFP)
- Surveillance
- Ground Based
- Aerial Response



# BRUNSWICK COUNTY, NORTH CAROLINA REQUEST FOR PROPOSALS



- Brunswick County, North Carolina is located in the southernmost region of the state along the NC/SC border. The county is bordered on the west by South Carolina, the north by Columbus County, the east by New Hanover County, and the south by the Atlantic Ocean. The county is one of the largest counties in the state with a land area of approximately 856 square miles. The county has 19 municipalities. The last known fulltime population of Brunswick County is 130,897; however, during the summer this number swells to approximately 250,000. The safety of residents during and after a disaster is a top priority for Brunswick County government. Part of ensuring the safety of citizens in the aftermath of a disaster is dependent upon timely mosquito suppression applications.
- For the purpose of this Request for Proposals, “the county” will imply Brunswick County Government.
- In the past, Brunswick County has been hit by several tropical storms and hurricanes. Each of these resulted in minor damages, while some resulted in major damages to the county and its infrastructure. The aftermath of the storms, and the mosquito populations associated with them has overwhelmed the county in the past.
- Dependent upon the storm and it’s impacts, the county Health Director may consider mosquitoes a threat to emergency workers, thereby significantly hampering response and recovery efforts. The threat may be caused by a significant increase in the mosquito population and/or the change in biting species.
- Additionally, the county Health Director considers the potential for disease transmission and human exposure to disease carrying mosquitoes based on the detection of arboviral diseases in sentinel organisms in the impacted area prior to the storm event. This coupled with post storm verification from medical facilities within the affected area that an increase in the general public’s exposure to mosquitoes has directly resulted in secondary infections, especially among those with weakened immune systems such as the elderly, the very young or the sick.
- Because of the above considerations, Brunswick County is seeking to contract with a firm to perform aerial mosquito adulticide applications, in the aftermath of a disaster.



# Scope of Work

- The scope of work for this contract consists of aeriually treating approximately 323,000 acres of populated area in Brunswick County for mosquitoes. The actual treatment area may fluctuate based on the immediate emergency response needs of the county.



# Project Specifications

1. The adulticide product to be used is Dibrom concentrate (87.4% A.I.) containing 13.2 pounds of Naled per gallon at a rate of 0.66 ounces per acre.
2. All aerial applications will adhere to the Dibrom concentrate product label requirements.
3. Planes must be certified to fly in congested air space and meet all FAA requirements.
4. Aircraft must have a flight guidance system with offset technologies. Aircraft must be equipped with spray optimization and guidance software that includes real-time meteorological data at the release height to optimize the treatment
5. Pilots should be equipped with at least military grade ANVIS-6 night vision goggles for use on all night time spray missions.
6. Contractor must have a North Carolina Aerial Applicators license.
7. All North Carolina Department of Agriculture's (NCDA) aerial calibration and certification requirements must be met.
8. Missions will be conducted in the evenings only between dusk and no later than 10:30PM and be coordinated through the county's mosquito control representative.
9. A detailed set of maps showing spray time will be provided after each day's application.
10. Time to complete mission: The services should be completed within a maximum of four (4) days should there be no adverse weather conditions.
11. The county will conduct all pre and post trapping data analysis for the aerial applications.



# Services

- The **CONTRACTOR** shall provide operators to conduct aerial mosquito adulticide application, pesticides and all necessary equipment to conduct aerial mosquito adulticide applications in Brunswick County. The work done under this contract shall consist only of that work that is directed by the county.



# Surveillance Needs

## PRE

- Disease Transmission
- Did Mosquito Populations increase?
- CDC Light Traps
- New Jersey Light Traps
- Landing Counts
- Collect Data ASAP
- Larval Dipping
- Time of year
- ID work?
- Documentation
- Citizens Needs

## POST

- Landing Counts
- CDC Light Traps
- Larval Dipping
- Documentation **EVERYTHING!**
- Citizens Needs
- Verification from health facility
- Know the people and the agencies to work with



# Ground Based Response

## Pre-hurricane

- Equipment ready
- 3 years data
- Set stations
- Manpower
- Chemical on hand

## Post-hurricane

- Hold the line until the plane arrived
- **BOMBS OVER BRUNSWICK!**



# Aerial Response

- Program Resources
- Documenting the need
- Contracting
- Heath Director Needs
- FEMA REPORTING
- Identify Cost and make sure everyone is well informed
- USFWL must review the polygons
- Proper Exemptions?