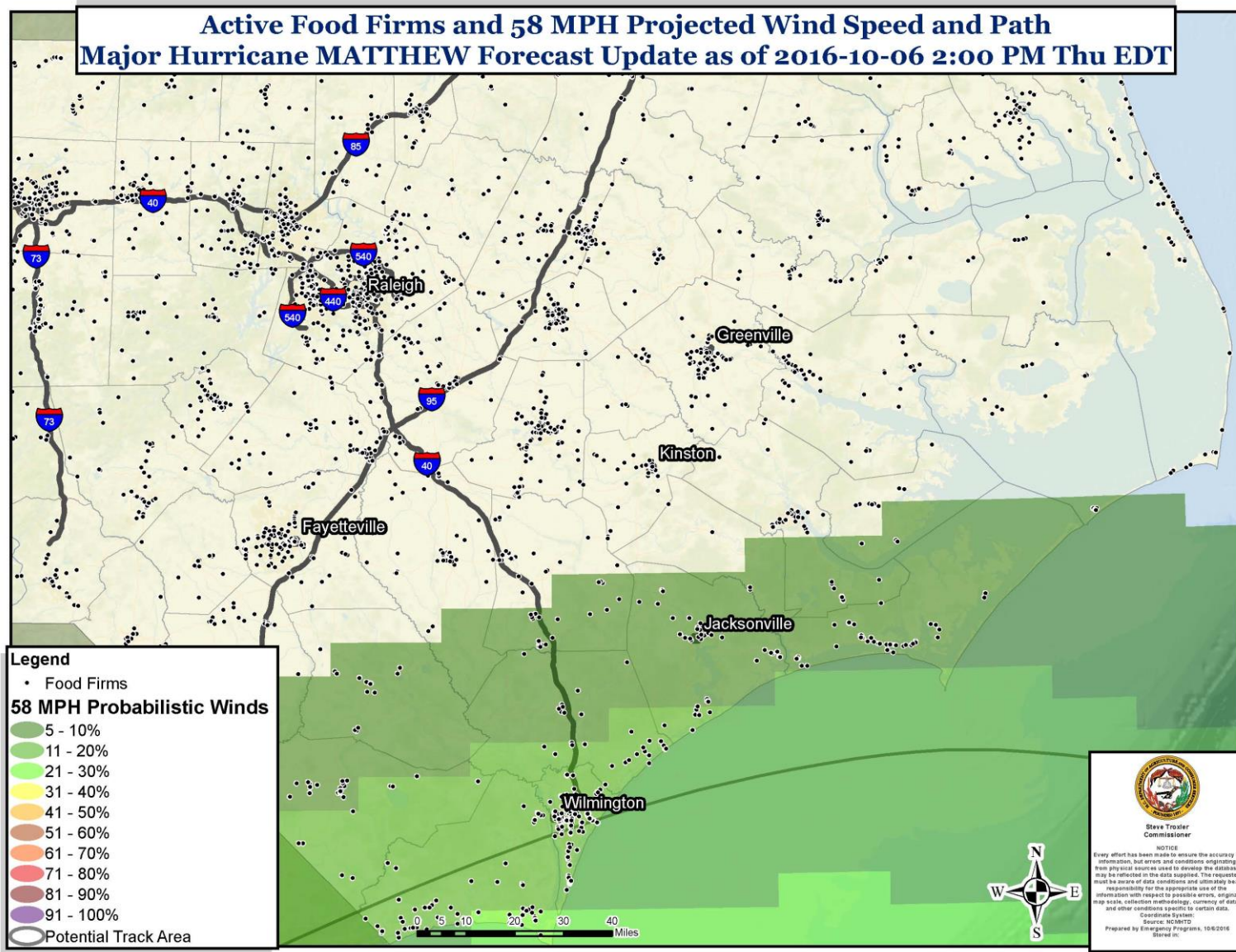


# NCDA&CS Response To Hurricane Matthew The GIS Prospective



# Calm Before The Storm – 58 MPH Wind Speed Probability Thursday, Oct. 5 (~Three Days Out)

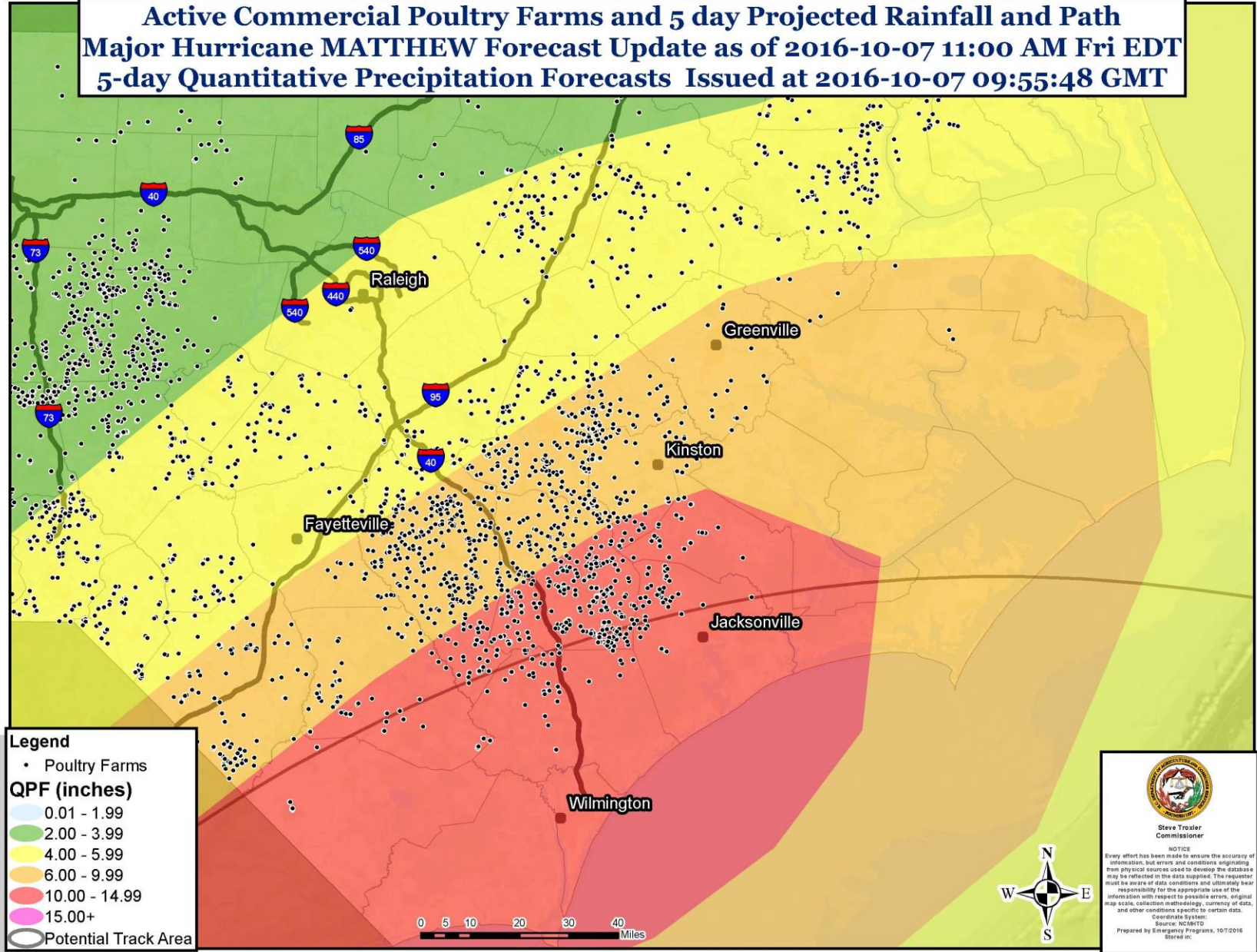


Food,  
Feed,  
Grade A,  
OEMS,  
Poultry,  
Swine,  
Animal  
Welfare



# Calm Before The Storm - Friday Oct. 7, Five Day QPF (Rainfall)

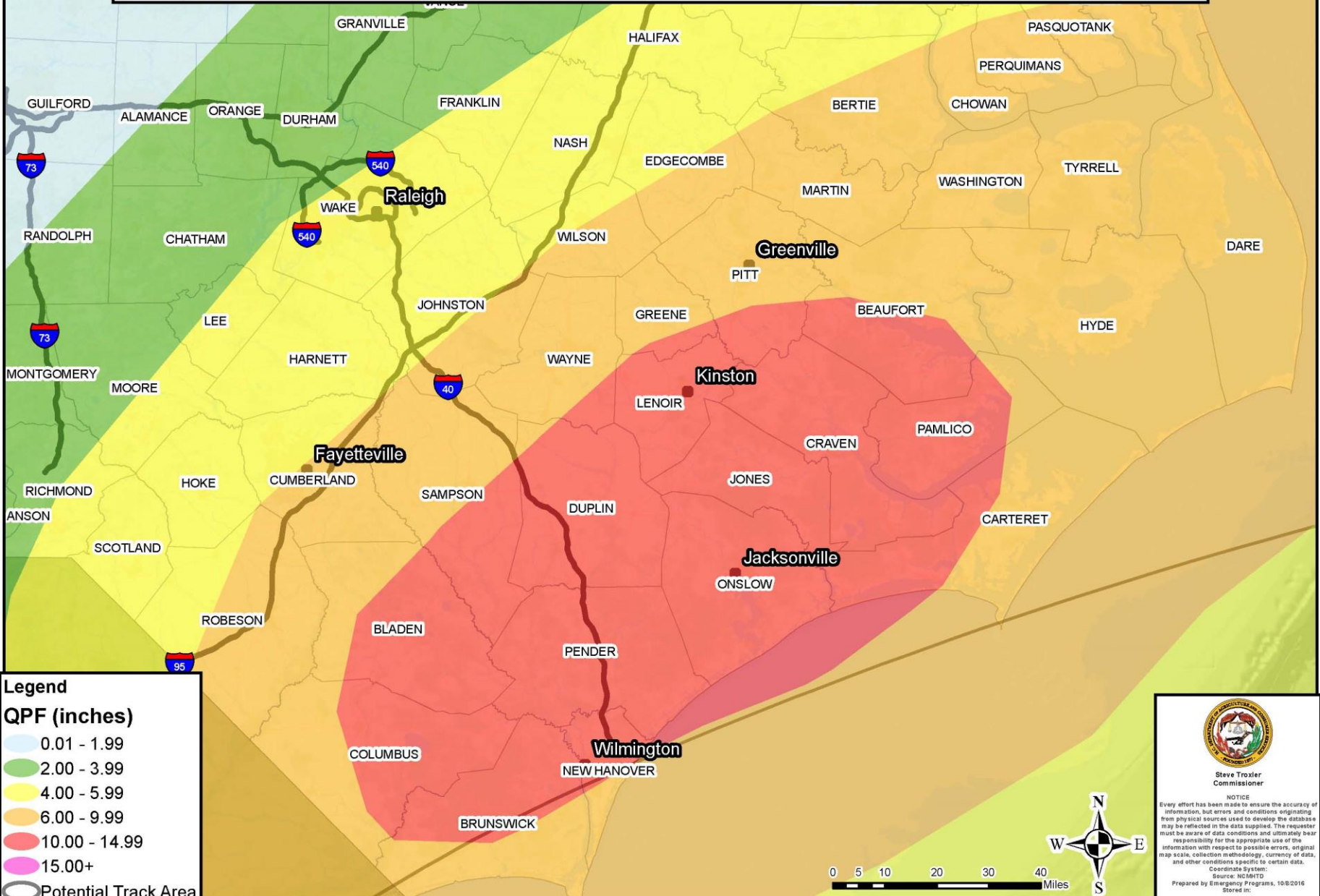
**Active Commercial Poultry Farms and 5 day Projected Rainfall and Path  
Major Hurricane MATTHEW Forecast Update as of 2016-10-07 11:00 AM Fri EDT  
5-day Quantitative Precipitation Forecasts Issued at 2016-10-07 09:55:48 GMT**



# 5 day Projected Rainfall and Path

## Hurricane Matthew Forecast Update as of 2016-10-08 11:00 AM Sat EDT


### 5-day Quantitative Precipitation Forecasts Issued 2016-10-08 09:56:18 GMT



**Legend**

**QPF (inches)**

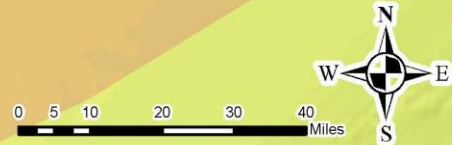
- 0.01 - 1.99
- 2.00 - 3.99
- 4.00 - 5.99
- 6.00 - 9.99
- 10.00 - 14.99
- 15.00+
- Potential Track Area



**Steve Troxler**  
Commissioner

NOTICE: Every effort has been made to ensure the accuracy of information, but errors and conditions originating from physical sources used to develop the database may be reflected in the data supplied. The requester must be aware of data conditions and ultimately bear responsibility for the appropriate use of the information with respect to possible errors, original map scale, collection methodology, currency of data, and other conditions specific to certain data.

Coordinate System:  
Source: NCEM/EMD  
Prepared by Emergency Programs, 10/8/2016  
Stored in:





# 72 Hour Precipitation (QPE)

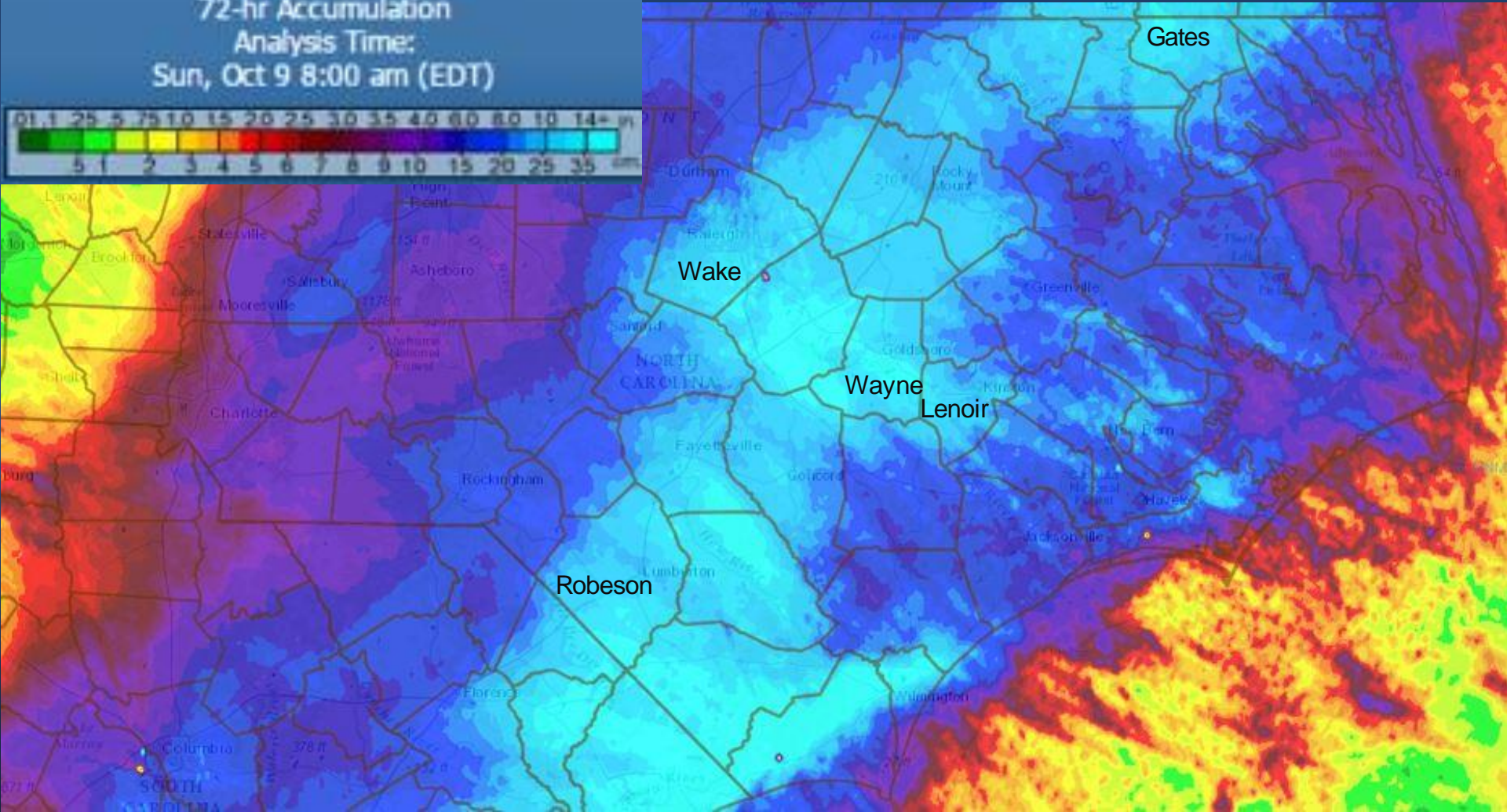
## Ending Oct 9

▼ MRMS Precipitation Analysis

72-hr Accumulation

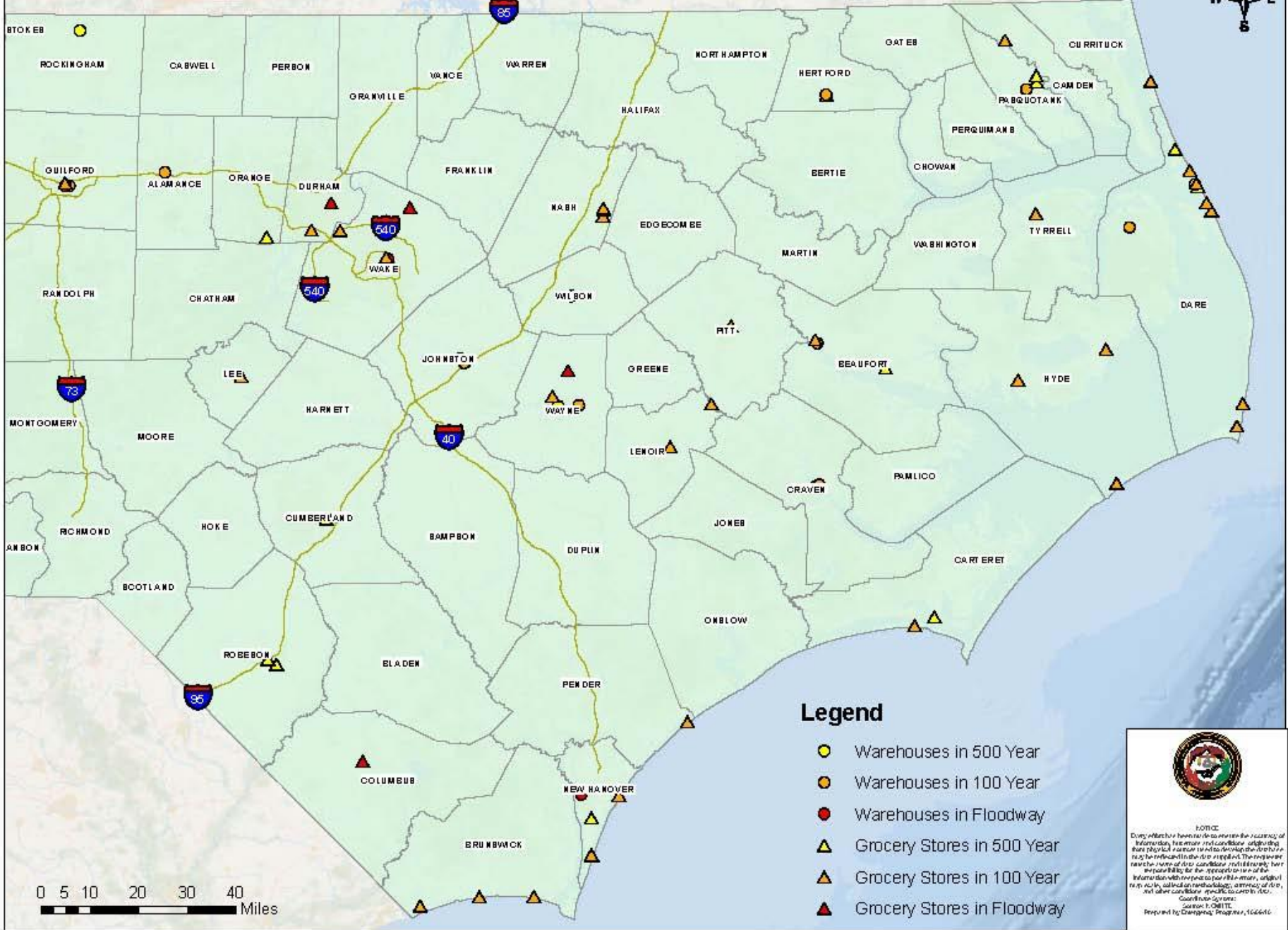
Analysis Time:

Sun, Oct 9 8:00 am (EDT)





# Food Firms Within Floodplain



## Legend

- Warehouses in 500 Year Floodway
- Warehouses in 100 Year Floodway
- Warehouses in Floodway
- ▲ Grocery Stores in 500 Year Floodway
- ▲ Grocery Stores in 100 Year Floodway
- ▲ Grocery Stores in Floodway



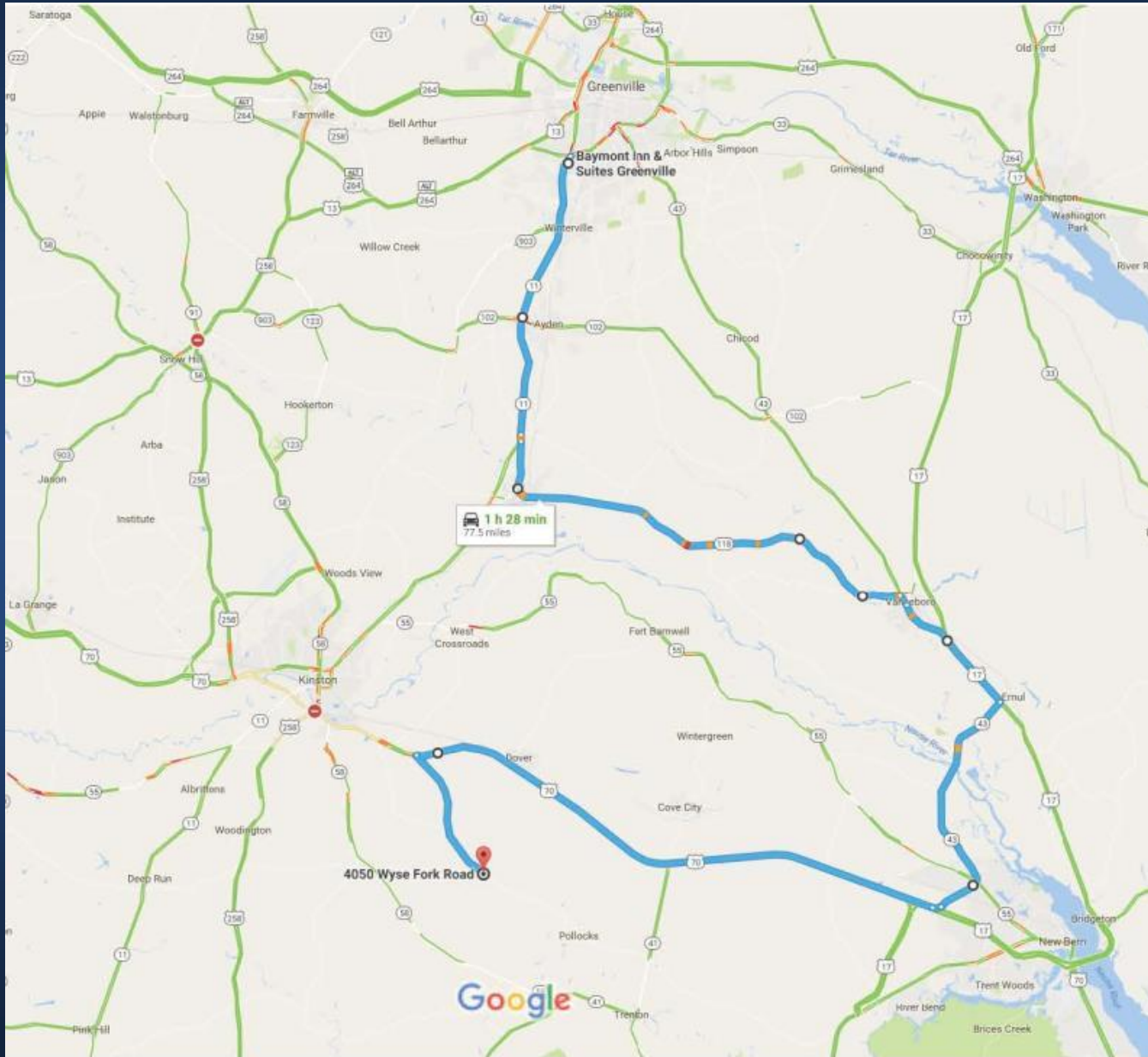
**NOTICE:**  
 Every effort has been made to ensure the accuracy of this product. However, this product is not a guarantee. The user assumes all liability for the application of the information provided herein. The user is not responsible for any loss or damage resulting from the use of this product. The user is not responsible for any loss or damage resulting from the use of this product. The user is not responsible for any loss or damage resulting from the use of this product.  
 Date: 1/20/11  
 Prepared by: Planning Program, 1/20/11



# NCDA&CS Response To Hurricane Matthew

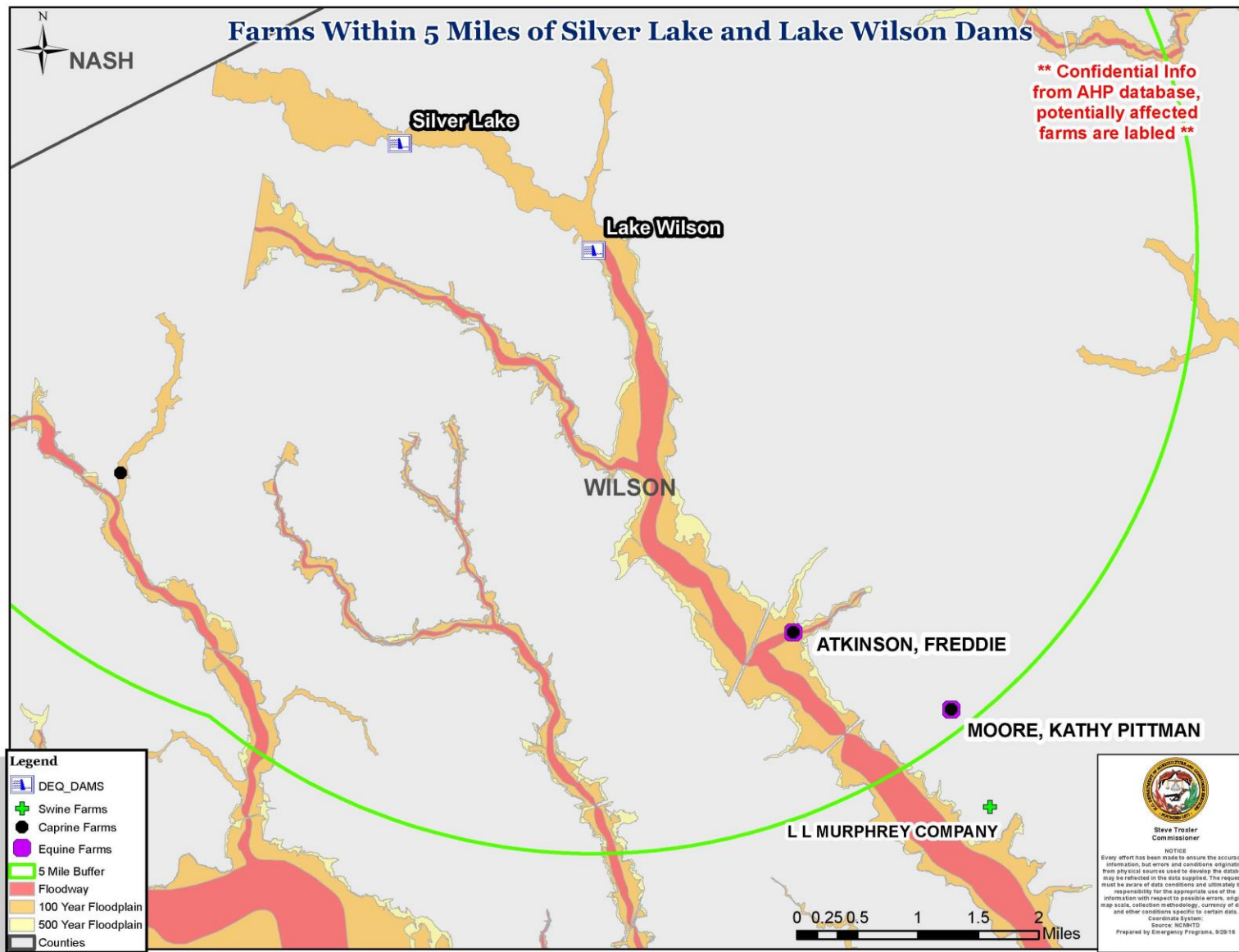


# Routing -- DOT TIMS and Google Maps



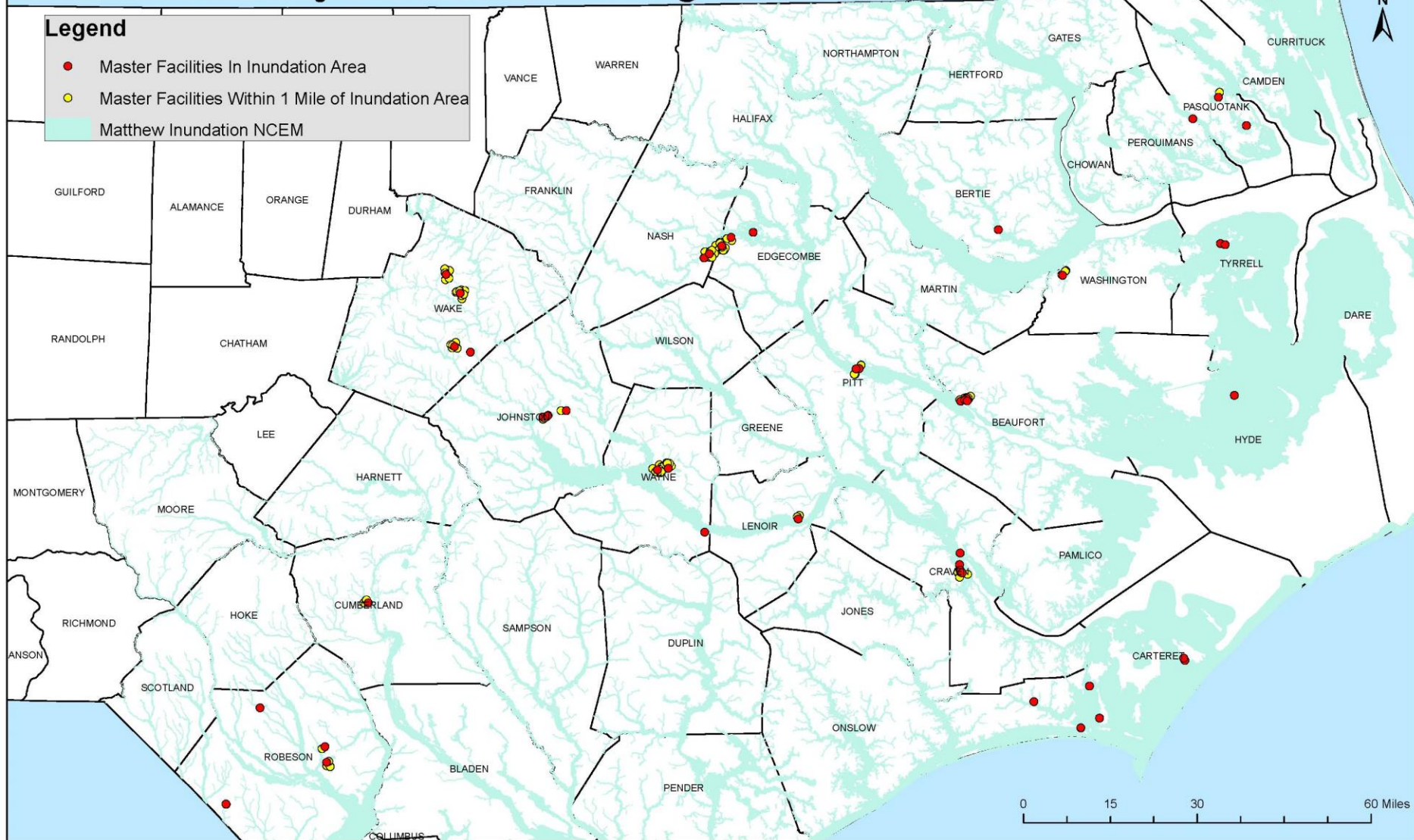


# Dam Breaches and Flood Plain



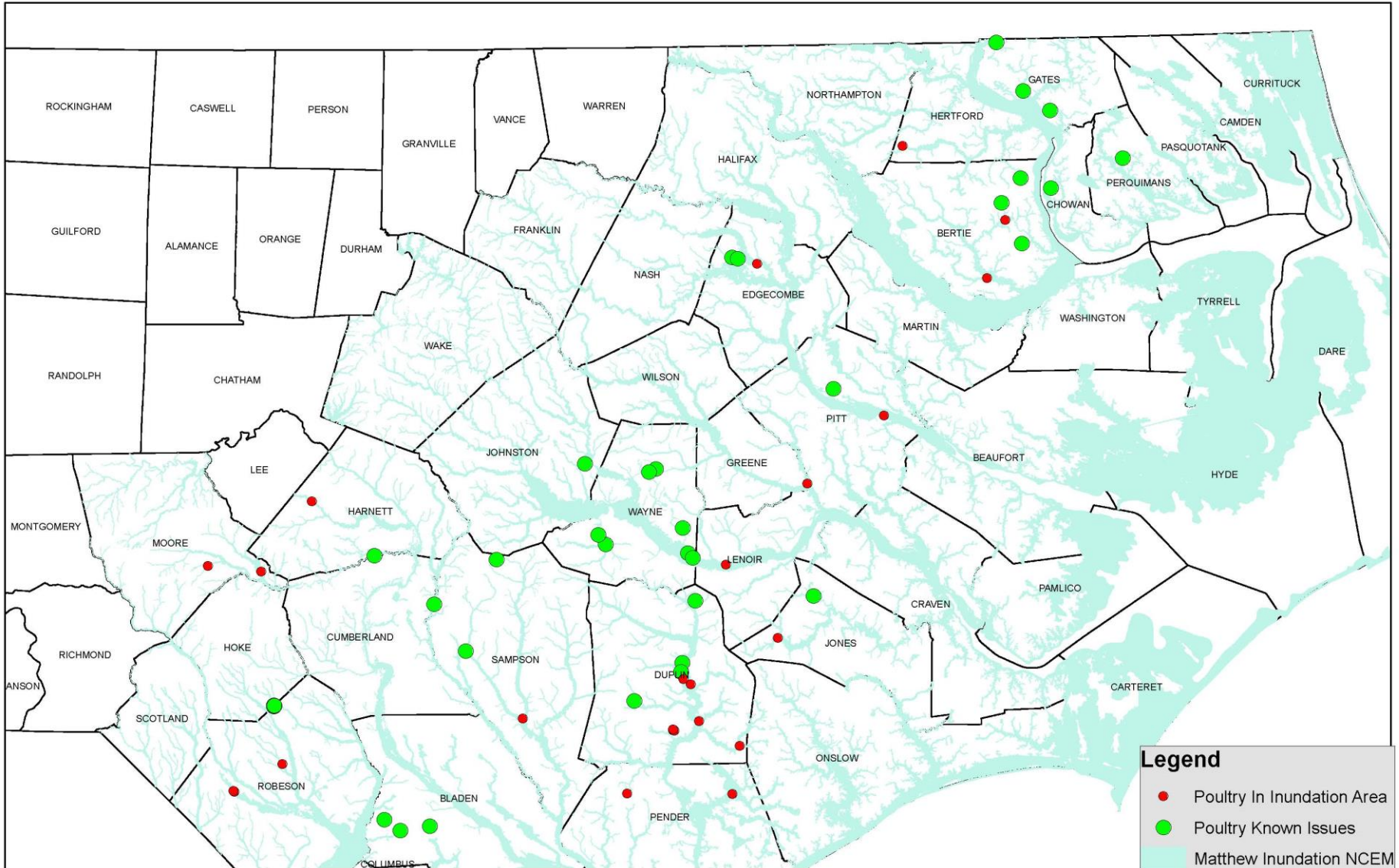
# Master Facilities and Inundation

## Master Facilities Compared with NCEM Flooding Inundation Area





# Modeled vs Actual



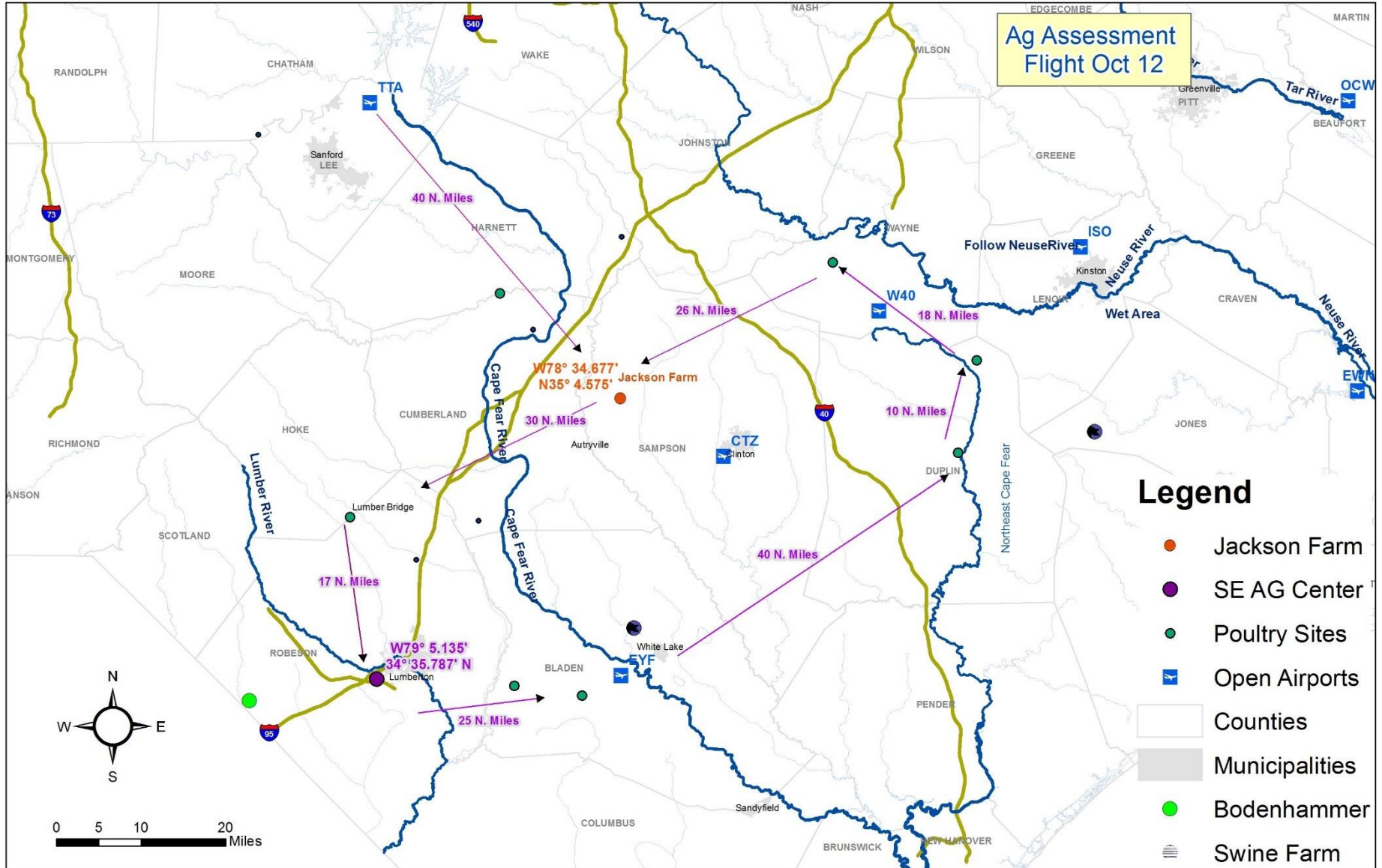


# Southeastern AG Center Lumberton, NC





# Your New Top Priority Is...

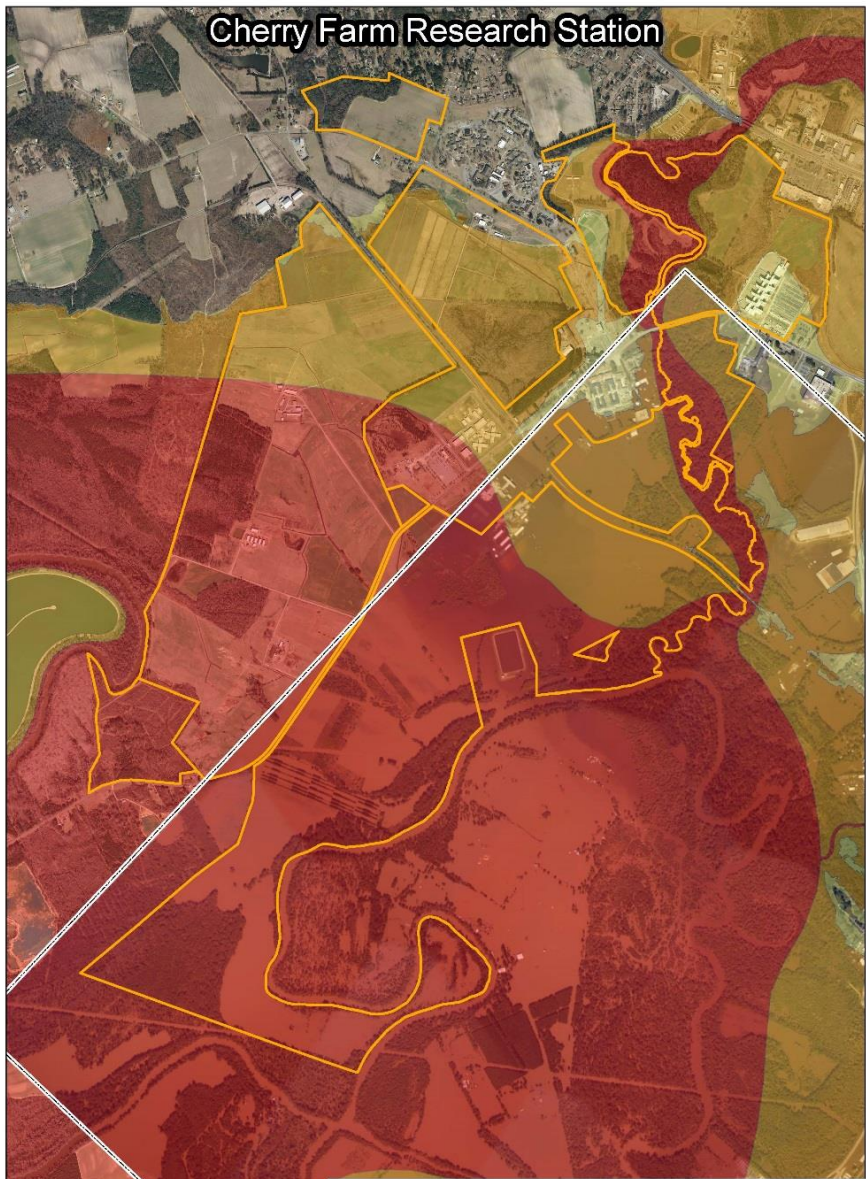


# Recovery





# Cherry Farm Research Station



## Legend

- Cherry Farm Research Station Parcels
- FEMA Imagery 10/13/2016

2013 Orthoimagery (Background)

## NC Floodplains TYPE

- Floodway
- 100 Year
- 500 Year
- Open Water

# Cherry Farm Research Station



## Legend

- Cherry Farm Research Station Parcels
- FEMA Imagery 10/13/2016

2013 Orthoimagery (Background)




# High Dollar Food





# Western Wildfires



**BOTELER "SHOOTING CREEK" FIRE (USFS—CLAY)**  
**HORTON FIRE (NCFS – BLOWING ROCK, WATAUGA)**  
**CLEAR (SHOOTING) CREEK FIRE (NCFS / USFS – MARION, MCDOWELL )**  
**MAPLE SPRINGS FIRE (USFS—LAKE SANTEELAH , GRAHAM)**  
**NANTAHALA FIRES (USFS – 20+ in MACON, JACKSON, SWAIN)**  
**PARTY ROCK FIRE (NCFS—LAKE LURE, RUTHERFORD, BUNCOMBE, HENDERSON)**  
**CHESTNUT KNOB FIRE (NCFS—S. MOUNTAINS STATE PARK, BURKE )**  
**PINNACLE MOUNTAIN FIRE (SCFS/USFS/NCFS – PICKENS AND TRANSYLVANIA)**  
**ROCK MOUNTAIN FIRE (USFS –NANTAHALA, N. GEORGIA AND CLAY AND MACON)**

More than \$50 million has been spent on fighting wildfires burning in NC this FY. The state has incurred a cost of more than \$22.5 million.