**A suggested List of GIS layers to be made available to North Carolina counties when preparing for truck or aerial adulticiding against mosquitoes**

Communicable Disease Branch - 919-733-3419

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Suggested GIS Layers

Standard GIS files available from state, federal, or county sources:

* + - State boundaries
    - County boundaries
    - Municipal boundaries
    - State Park boundaries
    - Federally managed areas
    - USFWS endangered and threatened species boundaries
    - State environmentally sensitive land boundaries
    - Military bases
    - Streets (all primary and secondary for Truck ULV; only main thoroughfares for Aerial ULV)
    - Water bodies (all ponds, lakes)
    - Major and minor hydrography (rivers, streams - as adulticide must be shut off near some of them)
    - Schools
    - Ag Land (Reason: some chemicals adulticides cannot drift over particular food crops)
      * Sources: Department of Ag
    - Bee hives
      * Source: NC Department of Ag - Drift watch or Bee Watch database
    - Organic Farms

Custom created for Mosquito ULV spraying events

* + - Truck Spray routes (i.e., area that can be covered in 1 hour when truck is driving 10 miles an hour = 10 linear miles of street surface per route. These are created individually by County, City, or Town GIS staff, or their mosquito control contractors)
    - Aerial Spray blocks (these are created by aerial contractors or USAF, based on the geographic areas provided to them by County, State, Mosquito District, or CDC officials. In NC, likely County Health Directors or their assignees).
    - Mosquito surveillance locations (traps or landing rate counts)
      * Sources: Lat. and Long. data in the MosquitoNet database, accessible by State Public Health Entomologist or CDC staff.
    - Medically sensitive individuals
    - Spray exclusions areas due to the presence of endangered or threatened or critical habitat.
      * Source: FEMA EHP Point of Contact