

WNV Surveillance and Response Recommendations

Basic surveillance for increases in mosquito populations provides good evidence of increased human risk and helps target mosquito control efforts and risk messages. Unfortunately, budget cuts have eliminated the State arboviral testing program. However, education of the public should be a priority.

RECOMMENDATIONS

- DEAD BIRD SURVEILLANCE
 - Monitor and map dead bird calls (and educate people who call in).
 - BIRDS CAN NO LONGER BE TESTED by the State.

- MOSQUITO SURVEILLANCE
 - Mosquito testing can no longer be supported by the State.
 - Mosquito populations can still be monitored to determine if risk is increasing. Set mosquito traps where there have been human cases, where positive horse, birds, or mosquito pools have been found previously, where mosquito complaints occur, where at-risk populations live, or where public use areas are located; use map data to avoid clustering trap sites too closely.
 - For WNV, monitor mosquito populations to determine when the number of *Culex spp* are rising starting in April or May in North Georgia and as soon as evening temperatures are consistently above 50° in South Georgia. Gravid traps are recommended.
 - In EEE endemic areas, monitor *Culiseta melanura* populations starting as soon as temperatures begin to rise. Light traps, baited with dry ice or another source of CO₂, are recommended.
 - Begin determining the best locations for fixed trap sites - for control purposes, don't keep moving traps after a positive pool is found; changes in mosquito populations can only be determined where historic data are available.
 - GPS coordinates in decimal degree format should be recorded for ALL mosquito traps sites in order to make mapping easier.
 - Graph weekly *Culex spp* population data at each trap site and combine like sites to create larger surveillance/control areas. Action points for reducing vector-borne disease risk occur when mosquito populations are higher than average in a specified control area.
 - If you have no resources to do mosquito surveillance and see a need for some localized surveillance, please do not hesitate to call (404-408-1207). I will come out to do some surveillance as soon as possible.



- OTHER
 - Strengthening relationships with local veterinarians will provide better information on horse cases locally.
 - Map positive horse sites and provide education for horse owners.

RESPONSE TO SURVEILLANCE (actions)

- Larviciding should start as early in the year as is possible after water temperatures begin to rise; use a formulation appropriate to the scheduling of control. Check the Georgia Mosquito Control Association site (www.GAmosquito.org) for information on mosquito control industry representatives working in Georgia.
- NEED TO PERSONALIZE RISK - personal contact has been found to be more effective than media reports for getting the personal protection risk reduction messages to the public (National WNV conference 2004).
- Increasing numbers of *vector species* may be used to trigger a public health message and/or mosquito control efforts locally (Example: INCREASING NUMBERS OF *CULEX* SPP INDICATE THAT HUMAN RISK FOR WNV MAY BE RISING). Levels of risk can be used when talking to the public (see <http://www.cdc.gov/westnile/resources/pdfs/wnvGuidelines.pdf>, p. 39-40).
- Positive horses or other animals are an indication of high local human risk and should be acted upon ASAP.
- Education should occur whenever anyone talks to a member of the public, whether answering the phone, larviciding, or setting out mosquito traps. It is important to do as many of these activities simultaneously as is possible to use worker time more efficiently.

