

2007 Jefferson County Health Department Temporary Adult Mosquito Control Protocol

Due to budgetary constraints it will be impossible to do routine adult mosquito control efforts. The following emergency control protocol is developed in an effort to maintain the very basic adherence to CDC's recommendations for response to West Nile Virus and other mosquito-borne disease activity with the Jefferson County area. This protocol is limited to the capabilities of the Jefferson County Health Department.

Surveillance

Prior to onset of West Nile Virus or other mosquito-borne disease the Jefferson County Health Department will conduct routine surveillance of mosquito populations within the county. Mosquitoes will be collected by gravid trap, sorted, identified to species, sexed and pooled per the surveillance contract maintained with the Missouri Department of Health and Senior Services. Mosquitoes will be submitted for testing to the South East Missouri State University for testing. Positive results from this testing will be utilized for activating adult mosquito control.

Persons reporting dead birds will be encouraged to bring them in for identification if they are in good condition. If a bird upon examination is determined to be of the proper specimen (bird of prey, crow, blue jay, robin, sparrow, grackle, black bird, cardinal, wood thrush and any Corvid), and it is in good condition, the bird will be swabbed aseptically and the swab will be submitted for testing to the University of Missouri Veterinary Lab in Columbia, MO. Positive results from this testing will be utilized for activating adult mosquito control. When ever a positive bird is identified in a zip code area of Jefferson County, bird surveillance will be suspended for that zip code. No more than 21 birds are to be tested.

Passive Human Surveillance will be conducted for West Nile Virus or other mosquito-borne diseases. Upon report of a human mosquito-borne disease infection, adult mosquito control will be activated.

Any surveillance measure outlined will be utilized when ever a human, bird infection or an infected mosquito pool is identified to educate the public regarding self protection techniques including but not limited to manner of dress, application of insect repellants, elimination of standing water, and reduced activity out doors when ever mosquitoes are most active.

Control

Larval mosquito control will be conducted on sites within the county that have been identified in the past. These sites will be treated until such time as the existing

larvacide supply has been depleted. New larvacide will only be purchased and utilized if the resources of the Health Department allow.

Adult mosquito control will only be conducted in response to an identified mosquito-borne infection in the following prioritization:

- 1. Areas within a half mile radius of identified West Nile or other mosquito-borne human disease cases will receive absolute control priority so long as the resources of the Jefferson County Health Department are capable.**
- 2. Areas within a half mile radius of identified West Nile or other mosquito-borne disease infected mosquito pools will receive secondary control priority.**
- 3. Areas within a half mile radius of identified West Nile infected birds will receive tertiary control priority.**
- 4. Areas that involve high public activity where potential for human exposure will be considered for application of barriers and adult mosquito control on a case by case basis and where possible adult control will be conducted within the scope of this protocol**
- 5. The Jefferson County Health Department maintains agreements with public entities that provide reimbursement for mosquito control activities within their respective jurisdictions. These control activities will be conducted within the scope of these agreements and within the scope of this protocol.**

At any time should the resources of the Jefferson County Health Department be incapable of maintaining mosquito control and surveillance activities within Jefferson County the activities will be suspended.