

**Jefferson County Department of Health and Environment (JCDHE)**  
**West Nile Virus (WNV) and Zoonoses**  
**Newsletter # 10**  
**August 15, 2007**

**WNV NATIONAL**

Outside of Colorado, CDC and USGS posted 372 human cases of WNV: 7 from Alabama (1 death), 16 from Arizona, 3 from Arkansas, 86 from California (5 deaths), 2 from Connecticut, 3 from Georgia, 13 from Idaho, 8 from Illinois, 2 from Iowa, 5 from Kansas, 15 from Minnesota, 14 from Mississippi (1 death), 4 from Missouri, 6 from Montana, 16 from Nebraska, 2 from Nevada, 8 from New Mexico, 52 from North Dakota (1 death), 1 from Ohio, 2 from Oklahoma, 1 from Pennsylvania 62 from South Dakota (1 death), 7 from Texas, 2 from Utah, 1 from Virginia, 34 from Wyoming:

California's Governor Arnold Schwarzenegger announced last week that \$897,000 in funding to be released immediately to assist in mosquito control efforts and West Nile Virus surveillance throughout the state. This is in addition to the \$453,000 in emergency funding the Governor announced on August 9, 2007 to fight West Nile Virus. This emergency funding is authorized through the West Nile Virus emergency proclamation Governor Schwarzenegger signed last week.

For updates visit their websites at

<http://www.cdc.gov/ncidod/dybid/westnile/Mapsactivity/surv&control07Maps.htm>

[http://diseasemaps.usgs.gov/wnv\\_us\\_human.html](http://diseasemaps.usgs.gov/wnv_us_human.html)

**WNV COLORADO**

State health officials announced the first deaths in Colorado related to West Nile virus for 2007 on August 10th. The first death involved a 63-year-old patient who became ill around July 11 and died on August 2 from complications associated with West Nile virus encephalitis. On August 4, a 77-year-old patient died from meningoencephalitis after becoming ill on July 26. Both deaths were Denver County residents. Since the first death was recorded in 2003, 76 Coloradans have died from West Nile virus. Seven deaths were reported in 2006, with the first death occurring on August 25.

The CDPHE has reported a total of 93 human cases from: Adams (7), Boulder (23), Broomfield (3), Cheyenne (2), Denver (2), Douglas (1), El Paso (1), Fremont (2), Huerfano (1), Jefferson (4), Larimer (23), Logan (1), Mesa (1), Otero (1), Prowers (3), Pueblo (2), Washington (1), and Weld (15) counties: Eighty with fever, 9 with Meningitis, 4 with Encephalitis and 2 deaths.

From 4844 mosquito pools submitted there have been 319 positive mosquito pools from the counties of Adams (30), Alamosa (2), Arapahoe (5), Boulder (34), Broomfield (2), Delta (4), Denver (6), El Paso (6), Fremont (2), Garfield (1), Gunnison (2), Jefferson (2), Larimer (114), Las Animas (2), Logan (17), Mesa (4), Morgan (2), Otero (14), Prowers (9), Pueblo (11) and Weld (50).

To date the CDPHE laboratory has tested 87 dead birds with positive birds from Arapahoe (2), Boulder (2), Douglas (1), El Paso (6), Larimer (8), Pueblo (1), Teller (1), and Weld (10) counties. For WNV updates from CDPHE visit their website at

<http://www.cdphe.state.co.us/dc/Zoonosis/wnv/index.html>

**HUMAN CASES IN JEFFERSON COUNTY**

Colorado Electronic Disease Reporting System (CEDRS) is reporting two additional human cases of WNV in residents of Jefferson County bringing the total to 4. Note: Residence in Jefferson County does not mean acquired in Jefferson County. The location where a victim might have been bitten by a mosquito and acquired WNV is not necessarily the victim's residence.

**WNV JEFFERSON COUNTY**

Mosquito Surveillance: Mosquito trapping this past week yielded a total of 719 mosquitoes with 414 being Culex mosquitoes. Ottertail Environmental submitted 7 pools of Culex mosquitoes to the state lab for WNV testing during this past week bringing the total number submitted for the season to 71. The highest numbers of Culex were caught at Fossil Trace Golf Course in Golden (160) using the sum of three trap nights and Arvada/Blunn Reservoir in Arvada (79) using the sum of three trap nights. None of the mosquito pools submitted this past week tested positive for WNV.

Mosquito Control: Our integrated mosquito control contractor, Ottetail Environmental, identifies, monitors, and inspects "mosquito breeding sites" throughout the county. During the past week Ottetail conducted 571 larval habitat site inspections. Out of these inspections, 165 sites were treated for Culex larvae and 7 sites were found breeding non-Culex mosquitoes.

The state Department of Public Health and Environment has noted that, "Early in the 2007 season it looked like this could have been the most active year since the 2003 epidemic. While case totals will likely be the highest since 2003, it is apparent that Colorado will not report numbers near the 2003 level. The following factors have helped to reduce WNV cases in 2007. Mosquito populations and infections rates have not reached 2003 levels in southeastern Colorado or the Western Slope. Several Colorado communities have developed larval mosquito control programs and many communities in the northeast (where the historically the risk has been the highest) conducted emergency adult mosquito control in July while populations and infection rates were still rising and continued efforts to keep the public educated and informed of the WNV risk to practice the following prevention methods."

### **EVERYONE SHOULD CONTINUE TO:**

- **Always use repellent for ALL outdoor activities. Use DEET or one of the two new EPA approved repellents, Picaridin or Oil of Lemon Eucalyptus, (according to labeled instructions).**
- Wear long sleeves and pants when outdoors at dawn and dusk.
- Citizens should **DRAIN** and **EMPTY** all containers in their yard because you can be bitten by WNV carrying mosquitoes in your own yards.
- Check your home to make sure all windows and doors have screens and are in good condition. This will reduce the chance of mosquitoes and bats gaining entry into your home.
- For additional information on how to protect you and your family around home go to <http://health.jeffco.us> and go to the WNV page and click on prevention.

### **Mosquito Complaint Hotline:**

Ottetail Environmental operates a toll free telephone line for citizen reports and concerns, that number is 1-888-774-2161 and locally the local number is 303 273-2878.

### **RABIES IN JEFFERSON COUNTY**

JCDHE has tested a total of 55 animals for rabies with 24 of those being bats and all test results have been negative. At this time in 2006 JCDHE had submitted 85 animals for rabies testing with 52 being bats and 15 of those bats tested positive for rabies.

**For More Information** on WNV and other Zoonoses visit our web site at:

[http://www.jefferson.co.us/ext/dpt/health/home\\_ehs.htm](http://www.jefferson.co.us/ext/dpt/health/home_ehs.htm),  
call 303 239 7075 or contact [dvolkel@jeffco.us](mailto:dvolkel@jeffco.us) or [jdale@jeffco.us](mailto:jdale@jeffco.us)