### California Arbovirus Surveillance Bulletin # 15

Week 21 Friday, May 27, 2005

### **Weekly Summary**

# Comments:

#### **Humans:**

No human cases of WNV have been reported this year.

#### Horses:

The California Department of Food & Agriculture has reported no WNV positive equine cases.

#### Dead Birds:

This week the hotline received 1,627 dead bird reports, for an YTD total of 15,354 reports. Zero out of 137 dead birds tested positive for WNV via RT-PCR performed by UC Davis Center for Vectorborne Diseases (CVEC). Five out of 23 dead birds tested positive for WNV via immunohistochemistry. The five positive dead birds were American crows collected from Orange County. See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 70 of 2,344 (3.0%) dead birds have tested positive for WNV.

#### **Mosquito Pools:**

CVEC reported no positive mosquito pools in two runs; however, additional test run results will be reported next week.

### **Sentinel Chickens:**

VRDL reported a chicken from a flock in Lancaster (Los Angeles County) tested flavivirus positive. The lab will use PRNT to confirm and differentiate SLE or WNV and report the result in a forthcoming bulletin.

#### **Website Information:**

For updated information on WNV, please visit the California WNV website, <a href="www.westnile.ca.gov">www.westnile.ca.gov</a>, the CDC website, <a href="www.westnilemaps.usgs.gov">www.westnilemaps.usgs.gov</a>. Please go to the Vector website at <a href="http://vector.ucdavis.edu/arbo.html">http://vector.ucdavis.edu/arbo.html</a> for flock location and more information on WNV and other vector-borne diseases.

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### **TEST SUMMARIES**

### **Humans and Horses**

		Number	WNV Positive WEE Positive		SLE Positive		Other Positive			
Tested		Imported	Local	Imported	Local	Imported	Local	Imported	Local	
Humans Tested	Week	31	0	0	0	0	0	0	0	0
	YTD	429	0	0	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
	YTD	139	0	0	0	0	0	0	0	0

### **Dead Birds**

	Number Tested	WNV Positive
Week	160	5
YTD	2344	70

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1149*	0	0	0	0
Chicken Sera	YTD	9040	1	0	0	0
Mosquito pools	Week	n/a	0	0	0	0
oquito poolo	YTD	4257	1	0	0	0

<sup>\*</sup>Total has been adjusted to include local agency submission

**Chicken Seroconversions Reported by DHS:** 

Virus	County	State	Acode	City	Location
Flav. +	Los Angeles	CA	ANTV3217	Lancaster	CA Fairgrounds
Band: 8	3826				Probable Seroconversion Date: 11-May-05

### WNV POSITIVE DEAD BIRDS

WNV Positive Dead Birds Reported May 21- May 27, 2005

Species	County	City	Zip	<b>Date Collected</b>	Date Tested		
American Crow <sup>1</sup>	Orange	Westminster	92683	5/08/05	5/08/05		
American Crow <sup>1</sup>	Orange	Seal Beach	90740	5/10/05	5/10/05		
American Crow <sup>1</sup>	Orange	Seal Beach	90741	5/10/05	5/10/05		
American Crow <sup>1</sup>	Orange	Villa Park	92861	5/11/05	5/11/05		
American Crow <sup>1</sup>	Orange	Westminster	92683	5/12/05	5/12/05		

<sup>&</sup>lt;sup>1</sup>Indicates immunohistochemistry

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#### **TEST PROTOCOLS**

#### **Dead Birds:**

All bird species, except chickens, doves, and pigeons, from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Positive Vec-Tests from oral swabs from crows are no longer confirmed. Other bird species are tested by singleplex RT-PCR and confirmed with a second primer set.

Dead birds are necropsied at the California Animal Health and Food Safety (CAHFS) Laboratories and kidney tissue from the dead birds are forward to the UC Davis Center for Vectorborne Diseases (CVEC) for WNV using the PCR Taqman assay. Organ pools from PCR positive carcasses are tested using cell culture for virus isolation. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6254.

#### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) and are tested for the presence of antibodies to West Nile virus (WNV), western equine encephalomyelitis (WEE), and St. Louis encephalitis (SLE) viruses by EIA and IFA. The VRDL performs additional testing, including plaque reduction neutralization (PRNT), on specimens from sentinel chickens from geographic areas where WNV is detected for the first time. The VRDL also forwards selected serum to CVEC for additional testing for WNV, WEE, and SLE antibodies as needed.

**Mosquito Pools:** 

All mosquito pools are screened for WEE, SLE, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch) and the Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Al Hom by phone (510) 412-6252, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].