

# California Arbovirus Surveillance Bulletin # 6

Week 12 Friday, March 30, 2007

## Weekly and Year-To-Date Summary

### COMMENTS



#### **Humans**

No human cases have been reported in 2007.

#### **Horses**

No new equine cases were reported this week.

YTD Summary: One horse from Sonoma County has tested positive for West Nile virus (WNV).

#### **Dead Birds**

Four WNV positive dead birds were reported from Orange (1), San Diego (1), and Santa Clara (2) counties.

YTD Summary: Ten dead birds have tested positive for WNV from four counties: Los Angeles (2), Orange (3), San Diego (2), and Santa Clara (3).

The California Department of Health Services has received a total of 6,002 dead bird reports (hotline and website) this year.

#### **Mosquito Pools**

No positive mosquito pools were reported this week.

YTD Summary: Two WNV positive mosquito pools have been detected from Los Angeles (1) and Riverside (1) counties.

#### **Sentinel Chickens**

No new seroconversions were reported this week.

YTD Summary: Two WNV seroconversions have been confirmed in chickens from Imperial (1) and Los Angeles (1) counties.

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### Summary of WNV Activity by Element and County, 2007

County	Human Cases	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Imperial					1	
Los Angeles			2	1	1	
Orange			3			
Riverside				1		
San Diego			2			
Santa Clara			3			
Sonoma		1				

#### **Website Information**

For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov).

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## TEST SUMMARIES

### Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	37	0	0	0	0	0	0	0	0
	YTD	222	0	0	0	0	0	0	0	0
Horses Tested	Week	4	0	0	0	0	0	0	0	0
	YTD	59	0	1	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	131	4
YTD	679	10

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	1342	2	0	0	0
Mosquito pools	Week	221	0	0	0	0
	YTD	610	2	0	0	0

\*Does not include those later confirmed as WNV or SLE

### Mosquito Pools Tested by Local Agencies

		Number Tested	WNV Positive
		RAMP Tested	Week
	YTD	10	0

## POSITIVES: 3/19/07-3/30/07

### Dead Birds

County	City	ZIP	Species	Collected	Tested	Test Method
Orange	Cypress	90630	American Crow	03/14/07	03/14/07	IHC
San Diego	Escondido	92027	American Crow	03/20/07	03/20/07	VecTest
Santa Clara	Cupertino	95014	American Crow	03/04/07	03/04/07	VecTest
Santa Clara	Palo Alto	94303	American Crow	03/11/07	03/11/07	VecTest

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## TEST PROTOCOLS

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### **Dead Birds and Tree Squirrels:**

All bird and tree squirrel species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, once WNV has been detected within a county, doves, pigeons, and chickens will no longer be accepted for testing from that county. Corvids that test positive via RAMP or VecTest are no longer confirmed. Dead birds and squirrels are necropsied at the California Animal Health and Food Safety (CAHFS) laboratory at UC Davis. Oral swabs from American Crows and kidney tissue from all other dead birds are forwarded to the UC Davis Center for Vector borne Diseases (CVEC) for WNV testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6254.

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### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) 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. VRDL performs additional testing, including western-blot and plaque reduction neutralization, on specimens from geographic areas where WNV is detected for the first time.

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### **Mosquito Pools:**

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.

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*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 Tina Feiszli by phone (510) 412-6298, FAX (510) 412-6263, or email [tfeiszli@dhs.ca.gov].*