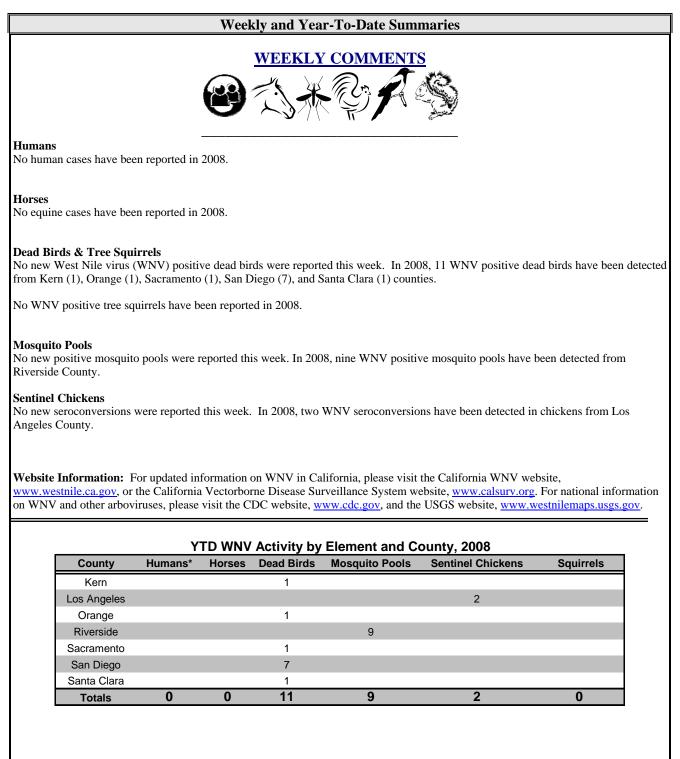
# California Arbovirus Surveillance Bulletin # 11

Week 18 Friday, May 3, 2008



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2008 & 2007 YTD West Nile Virus Comparisons		
	2008	2007
Total # Dead Bird Reports	4,287	5,303
# Positive Counties	7	9
# Human Cases/ # Tested	0 / 200	0 / 305
# Horse Cases/ # Tested	0 / 0	1 / 81
# Positive Dead Birds/ # Tested	11 / 614	18 / 990
# Positive Mosquito Pools/ # Tested	9 / 1,683	2 / 2,157
# Positive Chicken Sera/ # Tested	2 / 3,753	2 / 3,922
# Positive Squirrels/ # Tested	0 / 25	0 / 18

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## 2008 TEST SUMMARIES

### Human & Horse Cases

		Number	WNV		WEE		SLE		Other	
		Tested	Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	29	0	0	0	0	0	0	0	0
	YTD	200	0	0	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
norses resteu	YTD	0	0	0	0	0	0	0	0	0

### Dead Birds & Tree Squirrels

		Number Tested	WNV Positive	
Dead	Week	62	0	
Birds	YTD	614	11	
Tree Squirrels	Week	1	0	
	YTD	25	0	

### Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	1,044	0	0	0
	YTD	3,753	2	0	0
Mosquito Pools:	Week	308	0	0	0
RT-PCR	YTD	1,667	9	0	0
Mosquito Pools: RAMP	Week	2	0	N/A	N/A
	YTD	16	0	N/A	N/A

## **NATIONAL COMMENTS**

*No new update.* Arizona, Mississippi, and Tennessee have each reported their first human case this year. None of the cases have resulted in fatalities. In addition, California and Alabama have reported non-human WNV activity.

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### **TEST PROTOCOLS**

#### Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation by plaque reduction neutralization test (PRNT).

\*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

#### Horses:

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

#### **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 CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne 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, Erin Parker, can be reached directly at (510) 412-6254.

#### Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to VBDS and 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. Positive samples are confirmed by western-blot or PRNT.

### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and 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), California Department of Public Health, 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: <u>tina.feiszli@cdph.ca.gov</u>