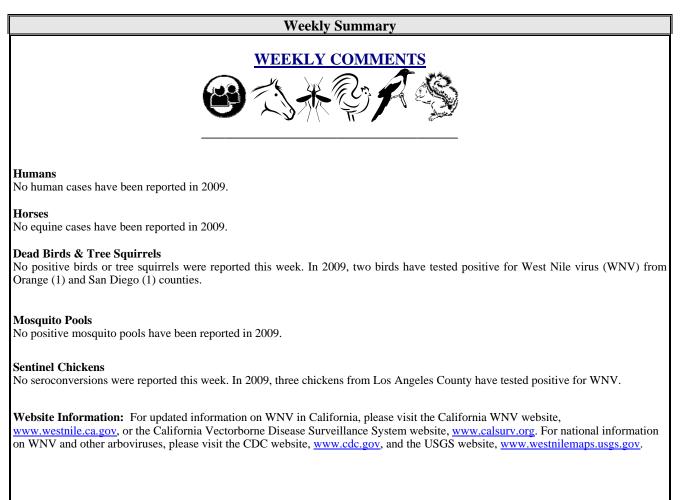
# California Arbovirus Surveillance Bulletin #7

Week 12 Friday, March 27, 2009



2008 & 2009 YTD West Nile Virus Comparisons					
	2008	2009			
Total # Dead Bird Reports	2,064	1,656			
# Positive Counties	3	3			
# Human Cases/ # Tested	0 / 89	0 / 206			
# Horse Cases/ # Tested	0/0	0/0			
# Positive Dead Birds/ # Tested	8 / 227	2/126			
# Positive Mosquito Pools/ # Tested	0 / 182	0/655			
# Positive Chicken Sera/ # Tested	2 / 182	3/121			
# Positive Squirrels/ # Tested	0/5	0/0			

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## **2009 TEST SUMMARIES**

### Human & Horse Cases

		Number	WNV		WEE		SLE		Other	
		Tested	Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	20	0	0	0	0	0	0	0	0
riumans resteu	YTD	206	0	0	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
noises resteu	YTD	0	0	0	0	0	0	0	0	0

#### Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	50	0
	YTD	126	2
Tree Squirrels	Week	0	0
	YTD	0	0

### Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	0	0	0	0
	YTD	121	3	0	0
Mosquito Pools: RT-PCR	Week	243	0	0	0
	YTD	655	0	0	0
Mosquito Pools: RAMP	Week	0	0	N/A	N/A
	YTD	0	0	N/A	N/A

# **NATIONAL COMMENTS**

No new update. As of February 13, 2009, 1,338 human cases had been reported nationwide in 2008 in the following 43 states: Alabama (21), Arizona (114), Arkansas (9), California (440), Colorado (71), Connecticut (8), Delaware (1), Florida (2), Georgia (8), Idaho (37), Illinois (19), Indiana (4), Iowa (6), Kansas (31), Kentucky (3), Louisiana (49), Maryland (14), Michigan (17), Minnesota (10), Mississippi (63), Missouri (15), Montana (5), Nebraska (49), Nevada (16), New Jersey (10), New Mexico (8), New York (46), North Dakota (37), Ohio (15), Oklahoma (9), Oregon (16), Pennsylvania (14), Rhode Island (1), South Carolina (1), South Dakota (39), Tennessee (19), Texas (64), Utah (26), Virginia (1), Washington (3), West Virginia (1), Wisconsin (8), and Wyoming (8). Of the 1,338 individuals, 674 (50%) had neuroinvasive illness. As of February 13, 43 fatalities had been reported in Arizona (7), California (15), Colorado (1), Idaho (1), Iowa (1), Illinois (1), Louisiana (1), Mississippi (2), Missouri (1), New Jersey (2), New York (6), Ohio (1), Pennsylvania (1), Tennessee (1), Texas (1), and Wisconsin (1).

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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:**

Dead birds and tree 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 West Nile virus 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 the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, 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 or email: <u>tina.feiszli@cdph.ca.gov</u>