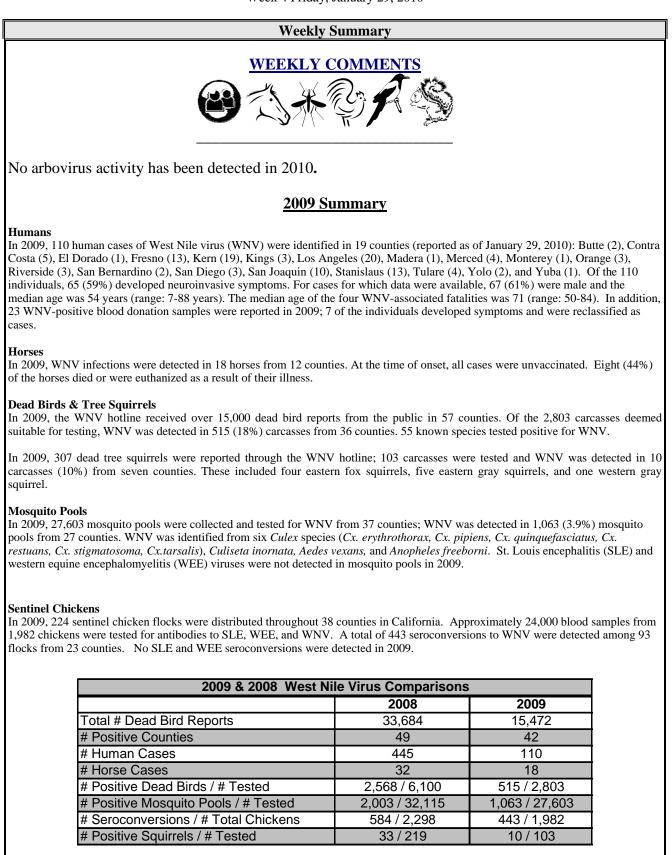
# California Arbovirus Surveillance Bulletin #1

Week 4 Friday, January 29, 2010



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YTD WNV Activity by Element and County, 2009									
County	Humans	Horses			Sentinel Chickens	Squirrels			
Alameda			10	1					
Amador			1						
Butte	2		13	5	36				
Colusa			2						
Contra Costa	5	1	45	17	13	2			
El Dorado	1		9						
Fresno	13	1	62	132	17	1			
Glenn			6		3				
Imperial				3	42				
Kern	19		28	138	104	1			
Kings	3		9	105					
Lake			2	2	1				
Los Angeles	20	1	82	99	41				
Madera	1		11	3	7				
Merced	4	3	9	11	14				
Modoc			1						
Mono				1					
Monterey	1		4						
Napa					3				
Orange	3		10	16					
Placer			4	40	11				
Riverside	3	1	2	27	37				
Sacramento		2	28	36	2	1			
San Bernardino	2		18	54	14	2			
San Diego	3		39	5	5				
San Francisco			1						
San Joaquin	10	3	24	83	10				
San Luis Obispo			1						
San Mateo			1						
Santa Barbara			1						
Santa Clara			14	14		2			
Santa Cruz			1						
Shasta		1	9	2					
Solano		1	3	2	13				
Stanislaus	13	2	28	94	25				
Sutter				25	11				
Tehama		1			2	1			
Tulare	4	1	25	131	28				
Tuolumne			2						
Ventura			3						
Yolo	2		7	16	4				
Yuba	1			1					
Total	110	18	515	1063	443	10			

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## **2010 TEST SUMMARIES**

## Human & Horse Cases

		Number Tested	WI		WI		SL			her
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	6	0	0	0	0	0	0	0	0
	YTD	47	0	0	0	0	0	0	0	0
Horses Tested	Week	0			0	0	0	0	0	0
	YTD	0			0	0	0	0	0	0

## Dead Birds & Tree Squirrels

		Number Tested	WNV Positive	
Dead	Week	14	0	
Birds	YTD	14	0	
Tree Squirrels	Week	0		
	YTD	0		

## Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	0		0	0
	YTD	0		0	0
Mosquito Pools:	Week	0		0	0
RT-PCR	YTD	11	0	0	0
Mosquito Pools:	Week	0		N/A	N/A
RAMP	YTD	0		N/A	N/A

## **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.

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#### **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>

**Website Information:** For updated information on WNV in California, please visit the California WNV website, <u>www.westnile.ca.gov</u>, or the California Vectorborne Disease Surveillance System website, <u>www.calsurv.org</u>. For national information on WNV and other arboviruses, please visit the CDC website, <u>www.cdc.gov</u>, and the USGS website, <u>www.westnilemaps.usgs.gov</u>.