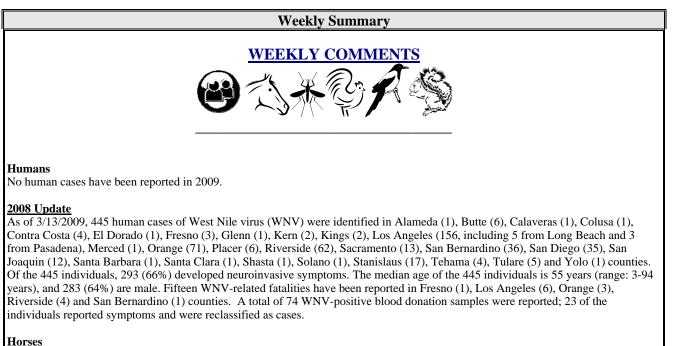
California Arbovirus Surveillance Bulletin # 5

Week 10 Friday, March 13, 2009



No equine cases have been reported in 2009.

Dead Birds & Tree Squirrels

One WNV positive dead bird from Orange County was reported last week. In 2009, two birds from Orange (1) and San Diego (1) counties have tested positive for WNV.

Statewide testing of dead birds and squirrels will resume on March 16, 2009.

Mosquito Pools

No positive mosquito pools have been reported in 2009.

Sentinel Chickens

One new WNV seroconversion was reported this week from Los Angeles County. In 2009, three chickens from Los Angeles County have tested positive for WNV.

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>.

2008 & 2009 YTD West Nile Virus Comparisons						
	2008	2009				
Total # Dead Bird Reports	1,576	1,143				
# Positive Counties	1	3				
#Human Cases/ # Tested	0 / 59	0 / 160				
#Horse Cases/ #Tested	0/0	0/0				
# Positive Dead Birds/ # Tested	0 / 89	2/64				
# Positive Mosquito Pools/ # Tested	0/116	0/379				
# Positive Chicken Sera/ # Tested	2 / 108	3/61				
# Positive Squirrels/ # Tested	0/1	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	26	0	0	0	0	0	0	0	0
	YTD	160	0	0	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
	YTD	0	0	0	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested*	WNV Positive
Dead Birds	Week	10	1
	YTD	64	2
Tree Squirrels	Week	0	0
	YTD	0	0

*Statewide testing will resume on March 16, 2009

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	1	1	0	0
	YTD	61	3	0	0
Mosquito Pools:	Week	204	0	0	0
RT-PCR	YTD	379	0	0	0
Mosquito Pools:	Week	0	0	N/A	N/A
RAMP	YTD	0	0	N/A	N/A

Positives

Dead Birds

County	Agency	City	Zip Code	Species	Reported	Tested	Result
Orange	Orange Co. VCD	Irvine	92612	American Crow	2/24/09	3/2/09	WNV

Sentinel Chickens

Sentimer emenends								
County	Site Code	City	Date Bled	Result	Band 01			
Los Angeles	LACW1007	Baldwin Hills	3/2/2009	WNV	1164			

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NATIONAL COMMENTS

2008 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). At this time last year, 3,598 human cases had been reported nationwide.

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:

State testing of dead birds is currently suspended until March 16, 2009. 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 Laboratory 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 couby phone (510) 412-6298, FAX (510) 412-6263, or email: <u>tina.feiszli@cdph.ca.gov</u>