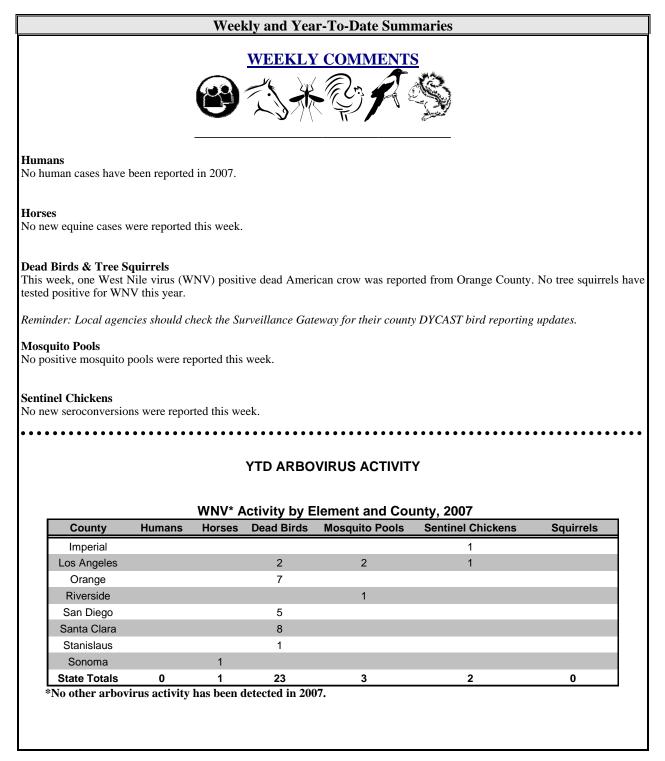
California Arbovirus Surveillance Bulletin #15

Week 22 Friday, June 1, 2007



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2007 & 2006 YTD West Nile Virus Comparisons						
	2007	2006				
# Hotline Calls	8,213	12,948				
Total # Dead Bird Reports	7,821	12,918				
# Website Visits	43,734	NA				
# Positive Counties	8	8				
# Positive Humans/ # Tested	0 / 366	0 / 465				
# Positive Horses/ # Tested	1 / 109	0 / 143				
# Positive Dead Birds/ # Tested	23 / 1,364	24 / 1,687				
# Positive Mosquito Pools/ # Tested	3 / 4,012	8 / 3,433				
# Positive Chicken Sera/ # Tested	2 / 7,540	1 / 8,234				
# Positive Squirrels/ # Tested	0/38	0 / 22				

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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>.

TEST SUMMARIES

Humans & Horses

	Ī		Number	WNV Positive		WEE Positive		SLE Positive		Other Positive	
		Tested	Imported	Local	Imported	Local	Imported	Local	Imported	Local	
	Humans Tested	Week	22	0	0	0	0	0	0	0	0
		YTD	366	0	0	0	0	0	0	0	0
Horses Tested	Horses Tested	Week	14	0	0	0	0	0	0	0	0
	YTD	109	0	1	0	0	0	0	0	0	

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead	Week	127	1
Birds	YTD	1364	23
Tree Squirrels	Week	1	0
	YTD	38	0

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	1150	0	0	0	0
	YTD	7540	2	0	0	0
Mosquito Pools:	Week	332	0	0	0	0
RT-PCR	YTD	3836	3	0	0	0
Mosquito Pools:	Week	32	0	N/A	N/A	N/A
RAMP	YTD	176	0	N/A	N/A	N/A

*Does not include those later confirmed as WNV or SLE

POSITIVES: 5/28/07-6/1/07

Dead Birds

County	City	Zip Code	Species	Date Collected	Date Tested	Test Type
Orange	Placentia	92870	American Crow	5/7/07	5/7/07	IHC

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NATIONAL COMMENTS

As of May 29, 2007, avian, animal or mosquito WNV infections have been detected in California, Florida, Illinois, Indiana, Mississippi, and Texas. A total of 3 human cases have been reported this year in Mississippi.

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 VRDL for further testing or confirmation by plaque reduction neutralization test (PRNT).

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 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 and squirrels 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.

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. Positive samples are confirmed by western-blot or PRNT.

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.

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.