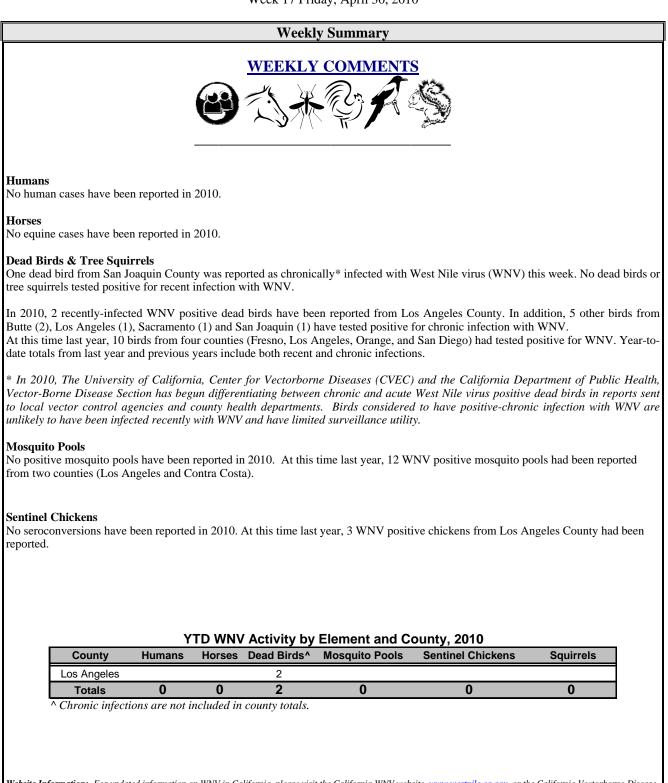
California Arbovirus Surveillance Bulletin # 10

Week 17 Friday, April 30, 2010



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.calsurv.org</u>, and the USGS website, <u>www.westnilemaps.usgs.gov</u>.

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2009 & 2010 YTD West Nile Virus Comparisons						
	2009	2010				
Total # Dead Bird Reports	3,174	1,567				
# Positive Counties	5	1				
# Human Cases	0	0				
# Horse Cases	0	0				
# Positive Dead Birds / # Tested	10 / 418	2 / 226				
# Positive Mosquito Pools / # Tested	12 / 2,030	0 / 2,080				
# Seroconversions / # Tested	3 / 2,614	0 / 2,250				
# Positive Squirrels / # Tested	0 / 11	0 / 8				

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV Imported Local		WEE Imported Local		SLE Imported Local		Other	
Humans Tested*	Week	19	0	0	0	0	0	0	0	0
Humans Tested"	YTD	234	0	0	0	0	0	0	0	0
Horses Tested	Week	11	0	0	0	0	0	0	0	0
	YTD	45	0	0	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	19	0
	YTD	226	2
Tree Squirrels	Week	1	0
	YTD	8	0

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	640	0	0	0
oniekchiocra	YTD	2,250	0	0	0
Mosquito Pools: RT-PCR	Week	407	0	0	0
	YTD	2,021	0	0	0
Mosquito Pools: RAMP	Week	10	0	N/A	N/A
	YTD	59	0	N/A	N/A

ALL POSITIVES

Agency	County	City	Zip	Species	Reported	Type of Infection	Test Method
San Joaquin MVCD	San Joaquin	Lathrop	95330	Barn Owl	4/19/10	Chronic	RT-PCR

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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) 412-6253 or email: <u>tina.feiszli@cdph.ca.gov</u>