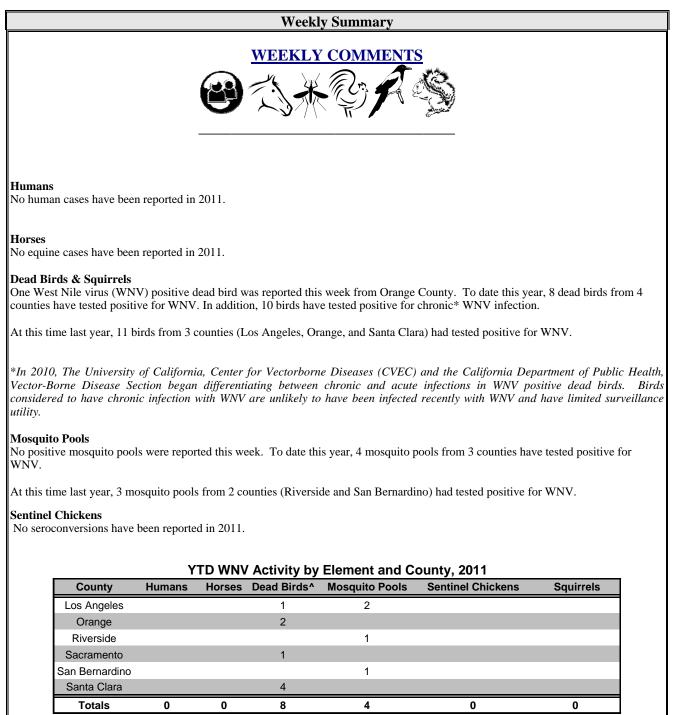
California Arbovirus Surveillance Bulletin # 16

Week 22 Friday, June 3, 2011



^ Chronic infections are not included in county totals

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2010 & 2011 YTD West Nile Virus Comparisons					
	2010	2011			
Total # Dead Bird Reports	3,219	2,622			
# Positive Counties	5	6			
# Human Cases	0	0			
# Horse Cases	0	0			
# Positive Dead Birds / # Tested	11 / 562	8 / 584			
# Positive Mosquito Pools / # Tested	3 / 4,324	4 / 4,632			
# Seroconversions / # Tested	0 / 6,435	0 / 4,574			
# Positive Squirrels / # Tested	0 / 24	0 / 28			

TEST SUMMARIES

Human & Horse Cases

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	0	0	0	0	0	0
Human Cases	YTD	0	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
TIOISE Cases	YTD	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive (recent only)
Dead	Week	83	1
Birds	YTD	584	8
Tree	Week	4	0
Squirrels	YTD	28	0

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	626	0	0	0
	YTD	4,574	0	0	0
Mosquito Pools:	Week	384	0	0	0
RT-PCR	YTD	4,631	4	0	0
Mosquito Pools:	Week	0	0	N/A	N/A
RAMP	YTD	1	0	N/A	N/A

POSITIVES

Dead Birds

	County	Agency	City	Zip	Species	Collected	Virus	Type of Infection	Method
ſ	Orange	Orange Co. VCD	Anaheim	92804	American Crow	5/20/2011	WNV	Recent	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).

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.

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 (WEEV), and St. Louis encephalitis (SLEV) 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 WEEV, SLEV, 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: tina.feiszli@cdph.ca.gov

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