

## California Arbovirus Surveillance Bulletin #8

Week 15 Friday, April 12, 2014



### WEEKLY UPDATE

#### Humans

No human cases or asymptomatic infections have been reported in 2014.

#### Dead Birds

Two West Nile virus (WNV) positive dead birds were reported this week from Lake County. To date this year, twelve birds have tested positive for WNV from Lake (3), Los Angeles (2), San Joaquin (1), and Santa Clara (6) counties. At this time last year, one WNV dead positive bird had been detected in Los Angeles County.

#### Mosquito Pools

No positive mosquito pools have been reported in 2014.

#### Sentinel Chickens

No new seroconversions have been detected. To date this year, one WNV positive chicken has been reported from Los Angeles County. At this time last year, no seroconversions had been detected.

YTD Activity by Element and County, 2014				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Lake		3		
Los Angeles		2		1
San Joaquin		1		
Santa Clara		6		
<b>Totals</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>1</b>

2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	1,612	959
# Positive Counties	1	4
# Human Cases	0	0
# Positive Dead Birds / # Tested	1 / 260	12 / 85
# Positive Mosquito Pools / # Tested	0 / 350	0 / 177
# Seroconversions / # Tested	0 / 624	1 / 527

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### TESTING SUMMARIES

#### Humans

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

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	2	2
	YTD	85	12

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	159	0	0	0
	YTD	527	1	0	0
Mosquito Pools	Week	49	0	0	0
	YTD	177	0	0	0

### New Positives

#### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Lake	Lake Co VCD	Clearlake Oaks	95423	American Crow	3/31/14	WNV	RT-PCR
Lake	Lake Co VCD	Kelseyville	95451	Red-tailed Hawk	2/6/14	WNV	RT-PCR

Website Information: For updated information on WNV in California, please visit the California WNV website, [www.westmile.ca.gov](http://www.westmile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westmilemaps.usgs.gov](http://www.westmilemaps.usgs.gov)

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### Test Protocols

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**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.

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**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.

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**Dead Birds**

Oral swab samples from corvids are collected onto RNase cards and tested by the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus by the singleplex RT-PCR Taqman assay and confirmed with a second primer set.

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**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.

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**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.

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*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](mailto:tina.feiszli@cdph.ca.gov).*