

## California Arbovirus Surveillance Bulletin #2

Week 10 Friday, March 13, 2015



### Weekly Update

#### **Humans**

No human infections have been reported in 2015.

#### **Dead Birds**

One West Nile virus (WNV) positive dead bird was reported from Alameda County this week. This is the first detection of WNV activity in California in 2015. At this time last year, 5 WNV positive dead birds had been reported from 2 counties (Los Angeles and Santa Clara).

#### **Mosquito Pools**

No positive mosquito pools have been reported in 2015.

#### **Sentinel Chickens**

No seroconversions have been reported in 2015.

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	628	1,270
# Positive Counties	2	1
# Human Cases	0	0
# Positive Dead Birds / # Tested	5 / 57	1 / 128
# Positive Mosquito Pools / # Tested	0 / 104	0 / 258
# Seroconversions / # Tested	1 / 143	0 / 98

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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### TESTING SUMMARIES

#### Humans

		WNV	SLE	WEE
Human Cases	Week	0	0	0
	YTD	0	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	32	1
	YTD	128	1

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	0	0	0	0
	YTD	98	0	0	0
Mosquito Pools	Week	29	0	0	0
	YTD	258	0	0	0

### New Positives

#### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus
Alameda	Alameda MAD	Fremont	94536	American Crow	2/2/15	WNV

### 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.

#### Dead Birds

Oral swab samples from corvids are collected onto RNA preservation 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. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

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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, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

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### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory 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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