

# California Arbovirus Surveillance Bulletin #10

Week 18 Friday, May 8, 2015



## Weekly Update

### **Humans**

No human infections have been reported in 2015.

### **Dead Birds**

No West Nile virus (WNV) positive dead birds were reported this week. To date this year, nine birds have tested positive for WNV from four counties. At this time last year, thirteen WNV positive birds had been detected in five counties.

### **Mosquito Pools**

One WNV positive mosquito pool was reported this week from Riverside County. To date this year, six WNV positive mosquito pools have been reported from four counties. At this time last year, five WNV positive mosquito pools had been detected from one county (San Bernardino).

### **Sentinel Chickens**

No seroconversions have been reported in 2015.

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	1,365	2,311
# Positive Counties	6	8
# Human Cases	0	0
# Positive Dead Birds / # Tested	13 / 145	9 / 332
# Positive Mosquito Pools / # Tested	5 / 1,336	6 / 2,765
# Seroconversions / # Tested	1 / 1,218	0 / 1,235

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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<b>YTD Activity by Element and County, 2015</b>				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Los Angeles			1	
Riverside			3	
San Diego		4		
San Mateo		1		
Santa Barbara			1	
Santa Clara		3		
Tulare			1	
<b>Totals</b>	<b>0</b>	<b>9</b>	<b>6</b>	<b>0</b>

### 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	84	0
	YTD	332	9

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	356	0	0	0
	YTD	1,235	0	0	0
Mosquito Pools	Week	97	1	0	0
	YTD	2,765	6	0	0

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### NEW POSITIVES

#### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Riverside	COAV0311	1066	Cx. quinquefasciatus	Indio	27	CO2	4/30/2015	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.

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#### **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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