

## California Arbovirus Surveillance Bulletin #5

Week 18 Friday, May 4, 2018



### Weekly Update

#### **Humans**

No human infections have been reported in 2018. At this time last year, 1 human case of West Nile virus (WNV) illness had been reported from Kings County.

#### **Dead Birds**

No positive dead birds were reported this week. In 2018, a total of 4 WNV positive dead birds have been reported from 2 counties. At this time last year, 3 WNV positive dead birds had been reported from 3 counties.

#### **Mosquito Pools**

No positive mosquito pools were reported this week. In 2018, 1 WNV positive mosquito pool has been reported from 1 county. At this time last year, 2 WNV positive mosquito pools had been reported from 2 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2018.

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YTD WNV Activity by Element and County, 2018				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
San Bernardino			1	
San Mateo		2		
Santa Clara		2		
<b>Totals</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>0</b>

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	1,167	902
# Positive Counties	6	3
# Human Cases	1	0
# Positive Dead Birds / # Tested	3 / 128	4 / 153
# Positive Mosquito Pools / # Tested	2 / 5,188	1 / 2,050
# Seroconversions / # Tested	0 / 683	0 / 850

### 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	11	0
	YTD	153	4

#### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	278	0	0	0
	YTD	850	0	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	0 / 225	0 / 225	0 / 225	0 / 0	0 / 0	0 / 0
	YTD	1 / 2,050	0 / 2,050	0 / 2,050	0 / 35	0 / 35	0 / 35

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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 with a plaque reduction neutralization test (PRNT).

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**Dead Birds**

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

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**Sentinel Chickens:**

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

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**Mosquito Pools:**

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

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