

## California Arbovirus Surveillance Bulletin #7

Week 20 Friday, May 18, 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**

One WNV positive dead bird was reported this week from El Dorado County. **This is the first detection of WNV in El Dorado County this year.** In 2018, a total of 5 WNV positive dead birds have been reported from 3 counties. At this time last year, 4 WNV positive dead birds had been reported from 4 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, 8 WNV positive mosquito pools had been reported from 4 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2018.

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	1,598	1,291
# Positive Counties	9	4
# Human Cases	1	0
# Positive Dead Birds / # Tested	4 / 285	5 / 241
# Positive Mosquito Pools / # Tested	8 / 7,012	1 / 3,690
# Seroconversions / # Tested	0 / 1,590	0 / 1,391

*Website Information:* For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.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 websites: [www.cdc.gov](http://www.cdc.gov) and [https://wwwn.cdc.gov/arbonet/maps/ADB\\_Diseases\\_Map/index.html](https://wwwn.cdc.gov/arbonet/maps/ADB_Diseases_Map/index.html)

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<b>YTD WNV Activity by Element and County, 2018</b>				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
El Dorado		1		
San Bernardino			1	
San Mateo		2		
Santa Clara		2		
<b>Totals</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>0</b>

### TESTING SUMMARIES

#### Humans

		WNV	SLE	WEE
<b>Human Cases</b>	Week	0	0	0
	YTD	0	0	0

#### Dead Birds

		Number Tested	WNV Positive
<b>Dead Birds</b>	Week	47	1
	YTD	241	5

#### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
<b>Chicken Sera</b>	Week	339	0	0	0
	YTD	1,391	0	0	0

#### Mosquitoes

		Positive / Total Tested						
<b>Mosquito Pools</b>	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
			0 / 998	0 / 985	0 / 942	0 / 46	0 / 46	0 / 46
		YTD	1 / 3,690	0 / 3,677	0 / 3,560	0 / 89	0 / 89	0 / 89

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### New Positives

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
El Dorado	El Dorado Co Vector Control	South Lake Tahoe	96150	Steller's Jay	5/7/2018	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 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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