

## California Arbovirus Surveillance Bulletin #8

Week 21 Friday, May 25, 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**

Two WNV positive dead bird were reported this week from Alameda and Sacramento counties. **This is the first detection of WNV in Alameda and Sacramento counties this year.** In 2018, a total of 7 WNV positive dead birds have been reported from 5 counties. At this time last year, 8 WNV positive dead birds had been reported from 5 counties.

#### **Mosquito Pools**

One positive mosquito pool was reported this week from Alameda County. **This is the first detection of WNV in Alameda County this year.** In 2018, 2 WNV positive mosquito pools have been reported from 2 counties. At this time last year, 12 WNV positive mosquito pools had been reported from 5 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2018.

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	1,921	1,522
# Positive Counties	9	6
# Human Cases	1	0
# Positive Dead Birds / # Tested	8 / 360	7 / 304
# Positive Mosquito Pools / # Tested	12 / 8,582	2 / 5,046
# Seroconversions / # Tested	0 / 1,961	0 / 1,756

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://www.cdc.gov/arbonet/maps/ADB\\_Diseases\\_Map/index.html](https://www.cdc.gov/arbonet/maps/ADB_Diseases_Map/index.html)

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YTD WNV Activity by Element and County, 2018				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1	1	
El Dorado		1		
Sacramento		1		
San Bernardino			1	
San Mateo		2		
Santa Clara		2		
<b>Totals</b>	<b>0</b>	<b>7</b>	<b>2</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	62	2
	YTD	304	7

#### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	365	0	0	0
	YTD	1,756	0	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	1 / 1,356	0 / 574	0 / 506	0 / 2	0 / 0	0 / 2
	YTD	2 / 5,046	0 / 4,251	0 / 4,066	0 / 91	0 / 89	0 / 91

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### New Positives

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Union City	94587	American Crow	5/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	American Crow	5/18/2018	WNV

#### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO113	19541	Cx. pipiens	Hayward	1	CO2	5/22/2018	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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