# California Arbovirus Surveillance Bulletin #9

Week 22 Friday, June 1, 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 Sacramento County. In 2018, a total of 9 WNV positive dead birds have been reported from 5 counties. At this time last year, 11 WNV positive dead birds had been reported from 6 counties.

# **Mosquito Pools**

One WNV positive mosquito pool was reported this week from Sacramento County. **This is the first WNV positive mosquito pool detected in Sacramento County this year.** In 2018, 3 mosquito pools have tested positive for WNV from 3 counties. At this time last year, 29 WNV positive mosquito pools had been reported from 7 counties.

# **Sentinel Chickens**

No seroconversions have been reported in 2018.

2017 & 2018 YTD West Nile Virus Comparisons							
	2017	2018					
Total # Dead Bird Reports	2,205	1,762					
# Positive Counties	11	6					
# Human Cases	1	0					
# Positive Dead Birds / # Tested	11 / 432	9 / 338					
# Positive Mosquito Pools / # Tested	29 / 9,776	3 / 6,150					
# Seroconversions / # Tested	0 / 2,427	0 / 2,172					

Website Information: For updated information on WNV in California, please visit the California WNV website, <u>www.westnile.ca.gov</u>, or the California Vectorborne Disease Surveillance System website, <u>www.calsurv.org</u>. For national information on WNV and other arboviruses, please visit the CDC websites: <u>www.cdc.gov</u> and <u>https://wwwn.cdc.gov/arbonet/maps/ADB\_Diseases\_Map/index.html</u>

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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		3	1					
San Bernardino			1					
San Mateo		2						
Santa Clara		2						
Totals	0	9	3	0				

# **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	35	2
	YTD	338	9

### Chickens

			Number Tested	WNV Positive	SLEV Positive	WEEV Positive
	Chicken Sera	Week	416	0	0	0
		YTD	2,172	0	0	0

### Mosquitoes

		Positive / Total Tested						
		WNV	SLEV	WEEV	СНІК	DENV	ZIKA	
Mosquito Pools	Week	1 / 1,104	0 / 1,104	0 / 1,006	0/0	0/0	0/0	
	YTD	3 / 6,150	0 / 5,355	0 / 5,072	0/89	0 / 89	0 / 89	

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# **New Positives**

### **Dead Birds**

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	California Scrub-Jay	5/28/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	5/29/2018	WNV

### **Mosquitoes**

County	Site Code	Pool #	Species	City	# in Pool	Тгар Туре	Collected	Virus
Sacramento	SAYO234013	754	Cx. tarsalis	Elk Grove	50	CO2	5/30/2018	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).

#### **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.

#### 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.

#### **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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