

## California Arbovirus Surveillance Bulletin #4

Week 19 Friday, May 8, 2020



### Weekly Update

#### **Humans**

No human infections have been reported in 2020.

#### **Dead Birds**

A total of two West Nile virus (WNV) positive dead birds were reported this week from Napa (1) and Santa Clara (1) counties. **This is the first detection of WNV activity in Napa County in 2020.** To date this year, five WNV positive dead birds have been reported from two counties. At this time last year, one WNV positive dead bird had been reported from one county (San Diego).

#### **Mosquito Pools**

No positive mosquito pools have been reported in 2020. At this time last year, four WNV positive mosquito pools had been reported from two counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2020.

YTD WNV Activity by Element and County, 2020				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Napa		1		
Santa Clara		4		
<b>Totals</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>

*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.maps.calsurv.org](http://www.maps.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC websites: [www.cdc.gov](http://www.cdc.gov) and [www.cdc.gov/arbovet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html)

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2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	1,232	1,006
# Positive Counties	3	2
# Human Cases	0	0
# Positive Dead Birds / # Tested	1 / 293	5 / 190
# Positive Mosquito Pools / # Tested	4 / 3,920	0 / 2,891
# Seroconversions / # Tested	0 / 850	0 / 220

### 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	42	2
	YTD	190	5

#### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	84	0	0	0
	YTD	220	0	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	0 / 1,106	0 / 1,106	0 / 1,062	0 / 0	0 / 0	0 / 0
	YTD	0 / 2,891	0 / 2,866	0 / 2,822	0 / 1	0 / 1	0 / 1

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Napa	Napa Co MAD	Yountville	94599	White-crowned Sparrow	4/21/2020	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	4/30/2020	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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