

## California Arbovirus Surveillance Bulletin #10

Week 25 Friday, June 19, 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 Fresno (1), and Stanislaus (1) counties. **These are the first positive dead birds from Fresno and Stanislaus counties this year.** In 2020, a total of ten WNV positive dead birds have been reported from six counties. At this time last year, five WNV positive dead bird had been reported from three counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 17 WNV positive mosquito pools were reported this week from 5 counties: Fresno (5), Los Angeles (1), San Joaquin (1), Stanislaus (6), and Tulare (4). **This is the first WNV positive mosquito pool reported from San Joaquin County this year.** In 2020, a total of 65 WNV positive pools have been reported from 9 counties. At this time last year, 220 WNV positive mosquito pools had been reported from 7 counties.

##### St. Louis encephalitis virus

A total of 6 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 3 counties: Fresno (1), Imperial (4), and Kern (1). **This is the first detection of SLEV activity in Imperial and Kern counties this year.** In 2020, a total of 38 SLEV positive mosquito pools have been reported from Fresno (2), Imperial (4), Kern (1), and Riverside (31) counties. At this time last year, eight SLEV positive mosquito pools had been reported from three counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2020.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	2,289	2,055
# Positive Counties	8	10
# Human Cases	0	0
# Positive Dead Birds / # Tested	5 / 633	10 / 442
# Positive Mosquito Pools / # Tested	220 / 11,423	65 / 10,137
# Seroconversions / # Tested	0 / 2,716	0 / 1,596

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### YTD WNV Activity by Element and County, 2020

County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Fresno		1	6	
Los Angeles			2	
Napa		1		
Riverside			17	
Sacramento		1	1	
San Diego			1	
San Joaquin		1	1	
Santa Clara		5	6	
Stanislaus		1	25	
Tulare			6	
<b>Totals</b>	<b>0</b>	<b>10</b>	<b>65</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	28	2
	YTD	442	10

#### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	214	0	0	0
	YTD	1,596	0	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	17 / 1,275	6 / 1,275	0 / 1,097	0 / 14	0 / 14	0 / 14
	YTD	65 / 10,137	38 / 10,053	0 / 9,618	0 / 84	0 / 84	0 / 84

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## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Fresno	Fresno MAD	Fresno	93711	American Crow	6/7/2020	WNV
Stanislaus	Turlock MAD	Turlock	95380	House Finch	6/4/2020	WNV

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1070	581	Cx. quinquefasciatus	Fresno	50	GRVD	6/12/20	WNV
Fresno	CNSL1698	553	Cx. quinquefasciatus	Fresno	41	GRVD	6/9/20	SLEV
Fresno	CNSL1852	579	Cx. quinquefasciatus	Clovis	26	GRVD	6/9/20	WNV
Fresno	FRNO116	147	Cx. quinquefasciatus	Fresno	50	GRVD	6/4/20	WNV
Fresno	FRNO172	161	Cx. quinquefasciatus	Fresno	15	GRVD	6/10/20	WNV
Fresno	FRNO40	162	Cx. quinquefasciatus	Fresno	10	GRVD	6/10/20	WNV
Imperial	IMPR40	13	Cx. tarsalis	Imperial	14	BGSENT	6/8/20	SLEV
Imperial	IMPR78	22	Cx. tarsalis	El Centro	50	CO2	6/12/20	SLEV
Imperial	IMPR80	26	Cx. tarsalis	El Centro	50	CO2	6/12/20	SLEV
Imperial	IMPR93	25	Cx. tarsalis	Calexico	24	CO2	6/12/20	SLEV
Kern	KERN2051	207	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/12/20	SLEV
Los Angeles	GRLA2574	5263	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	6/11/20	WNV
San Joaquin	SJCM8041	413	Cx. tarsalis	Lodi	9	CO2	6/16/20	WNV
Stanislaus	EAST1088	20137	Cx. pipiens	Modesto	50	CO2	6/12/20	WNV
Stanislaus	EAST2002	20131	Cx. pipiens	Modesto	48	GRVD	6/11/20	WNV
Stanislaus	EAST2022	20130	Cx. pipiens	Modesto	16	GRVD	6/11/20	WNV
Stanislaus	EAST2022	20140	Cx. pipiens	Modesto	37	CO2	6/12/20	WNV
Stanislaus	TRLK20156	195	Cx. pipiens	Turlock	21	CO2	6/16/20	WNV
Stanislaus	TRLK9768	187	Cx. tarsalis	Modesto	23	CO2	6/16/20	WNV
Tulare	TLRE202409	47	Cx. quinquefasciatus	Tulare	50	GRVD	6/4/20	WNV
Tulare	TLRE202410	46	Cx. quinquefasciatus	Tulare	50	GRVD	6/4/20	WNV
Tulare	TLRE202413	12	Cx. quinquefasciatus	Tulare	50	GRVD	6/3/20	WNV
Tulare	TLRE202518	40	Cx. quinquefasciatus	Tulare	50	GRVD	6/4/20	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.

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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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*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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