

## California Arbovirus Surveillance Bulletin #8

Week 21 Friday, May 27, 2022



### Weekly Update

#### **Humans**

No human infections have been reported in 2022.

#### **Dead Birds**

No new positives were reported this week. To date this year, one West Nile virus (WNV) positive dead bird has been reported from one county. At this time last year, four WNV positive dead birds had been reported from two counties.

#### **Mosquito Pools**

Two WNV positive mosquito pools were reported this week from Fresno (1) and Kern (1) counties. **This is the first detection of WNV activity in Kern County this year.** In 2022, five WNV positive mosquito pools have been reported from four counties. At this time last year, no positive mosquito pools had been reported.

#### **Sentinel Chickens**

No seroconversions have been reported in 2022.

2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total # Dead Bird Reports	1,966	1,582
# Positive Counties	2	5
# Human Cases	0	0
# Positive Dead Birds / # Tested	4 / 475	1 / 307
# Positive Mosquito Pools / # Tested	0 / 5,526	5 / 5,432
# Seroconversions / # Tested	0 / 844	0 / 567

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YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Contra Costa			1		
Fresno				2	
Kern				1	
Orange				1	
Riverside				1	
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>0</b>

### TESTING SUMMARIES

#### Humans

		WNV	SLEV	WEEV
Human Cases	Week	0	0	0
	YTD	0	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	43	0
	YTD	307	1

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	253	0	0	0
	YTD	567	0	0	0

#### Mosquito Pools

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	2 / 989	0 / 989	0 / 989	0 / 0	0 / 0	0 / 0
	YTD	5 / 5,432	0 / 5,375	0 / 5,375	0 / 0	0 / 0	0 / 0

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### POSITIVES

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	FRNO0089	196	Cx. tarsalis	Fresno	11	GRVD	5/24/22	WNV
Kern	KERN2039	108	Cx. quinquefasciatus	Bakersfield	42	GRVD	5/19/2022	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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*Website Information:* For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vectorborne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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