

# California Arbovirus Surveillance Bulletin #10

Week 23 Friday, June 10, 2022



## Weekly Update

### Humans

No human infections have been reported in 2022.

### Dead Birds

A total of 3 West Nile virus (WNV) positive dead birds were reported this week from Los Angeles (1), Nevada (1), and Orange (1) counties. **This is the first detection of WNV activity in Nevada County and the first WNV positive dead bird in Orange County this year.** To date this year, eight WNV positive dead birds have been reported from five counties. At this time last year, 11 WNV positive dead birds had been reported from 4 counties.

### Mosquito Pools

A total of 9 WNV positive mosquito pools were reported this week from Fresno (4), Kern (3), Los Angeles (1), and Riverside (1) counties. In 2022, 25 WNV positive mosquito pools have been reported from 6 counties. At this time last year, 18 WNV positive mosquito pools from 5 counties had been reported.

### Sentinel Chickens

No seroconversions have been reported in 2022.

2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	2,319	1,964
No. Positive Counties	7	9
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	11 / 607	8 / 434
No. Positive Mosquito Pools / No. Tested	18 / 7,630	25 / 7,590
No. Seroconversions / No. Tested	0 / 1,332	0 / 994

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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				12	
Kern				7	
Los Angeles			4	1	
Nevada			1		
Orange			1	2	
Riverside				2	
Sacramento				1	
Yolo			1		
Total	0	0	8	25	0

## 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	74	3
	YTD	434	8

### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	295	0	0	0
	YTD	994	0	0	0

### Mosquito Pools

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	9 / 1,273	0 / 1,273	0 / 1,272	0 / 0	0 / 0	0 / 0
	YTD	25 / 7,590	0 / 7,485	0 / 7,483	0 / 140	0 / 140	0 / 140

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### POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Los Angeles Co West VCD	Los Angeles	90045	Common Raven	6/5/2022	WNV
Nevada	Nevada Co Env Health - Nevada City	Nevada City	95959	Crow or Raven	5/26/2022	WNV
Orange	Orange Co VCD	Irvine	92602	Great Horned Owl	5/29/2022	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL 8187	37	Culex quinquefasciatus	Fresno	36	GRVD	6/8/2022	WNV
Fresno	CNSL 8188	512	Culex quinquefasciatus	Fresno	40	GRVD	6/8/2022	WNV
Fresno	FRNO 172	259	Culex quinquefasciatus	Fresno	39	GRVD	6/9/2022	WNV
Fresno	FRNO 269	264	Culex quinquefasciatus	Fresno	46	BGSENT	6/9/2022	WNV
Kern	KERN 73	218	Culex quinquefasciatus	Bakersfield	35	BGSENT	6/8/2022	WNV
Kern	KERN 78	219	Culex quinquefasciatus	Bakersfield	40	BGSENT	6/8/2022	WNV
Kern	KERN 71	220	Culex quinquefasciatus	Bakersfield	50	BGSENT	6/8/2022	WNV
Los Angeles	GRLA 3046	331	Culex quinquefasciatus	Bellflower	50	GRVD	6/8/2022	WNV
Riverside	COAV 27	2715	Culex tarsalis	Thermal	45	CO2	6/8/2022	WNV

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### 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 Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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