

## California Arbovirus Surveillance Bulletin #12

Week 25 Friday, June 24, 2022



### Weekly Update

#### Humans

No human infections have been reported in 2022.

#### Dead Birds

A total of 2 West Nile virus (WNV) positive dead birds were reported this week from Sacramento County. To date this year, 12 WNV positive dead birds have been reported from 5 counties. At this time last year, 26 WNV positive dead birds had been reported from 4 counties.

#### Mosquito Pools

A total of 31 WNV positive mosquito pools were reported this week from Fresno (15), Kern (7), Placer (2), San Joaquin (6), and Sutter (1) counties. **This is the first detection of WNV activity in Placer, San Joaquin, and Sutter counties this year.** In 2022, 87 WNV positive mosquito pools have been reported from 11 counties. At this time last year, 54 WNV positive mosquito pools from 9 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	2,646	2,260
No. Positive Counties	9	11
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	26 / 737	12 / 532
No. Positive Mosquito Pools / No. Tested	54 / 10,404	87 / 10,162
No. Seroconversions / No. Tested	0 / 1,826	0 / 1,423

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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				35	
Kern				24	
Los Angeles			5	3	
Merced				1	
Nevada			1		
Orange				2	
Placer				2	
Riverside				4	
Sacramento			4	1	
San Joaquin				6	
Sutter				1	
Yolo			1		
Tulare				8	
<b>Total</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>87</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	44	2
	YTD	532	12

### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	234	0	0	0
	YTD	1,423	0	0	0

### Mosquito Pools

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	31 / 1,228	0 / 1,228	0 / 1,227	0 / 62	0 / 62	0 / 62
	YTD	87 / 10,162	0 / 10,057	0 / 10,053	0 / 212	0 / 212	0 / 212

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### POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	Yellow-billed Magpie	6/14/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	6/15/2022	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL 1295	50	Culex quinquefasciatus	Fresno	50	GRVD	6/16/2022	WNV
Fresno	CNSL 1526	533	Culex quinquefasciatus	Fresno	50	GRVD	6/14/2022	WNV
Fresno	CNSL 1645	55	Culex quinquefasciatus	Fresno	34	GRVD	6/17/2022	WNV
Fresno	FRNO 19	386	Culex quinquefasciatus	Fresno	16	GRVD	6/22/2022	WNV
Fresno	FRNO 269	355	Culex tarsalis	Fresno	44	BGSENT	6/16/2022	WNV
Fresno	FRNO 269	356	Culex quinquefasciatus	Fresno	37	BGSENT	6/16/2022	WNV
Fresno	FRNO 270	387	Culex quinquefasciatus	Fresno	50	GRVD	6/22/2022	WNV
Fresno	FRNO 270	388	Culex quinquefasciatus	Fresno	50	GRVD	6/22/2022	WNV
Fresno	FRNO 270	389	Culex quinquefasciatus	Fresno	36	GRVD	6/22/2022	WNV
Fresno	FRNO 279	381	Culex quinquefasciatus	Fresno	9	GRVD	6/22/2022	WNV
Fresno	FRNO 280	373	Culex quinquefasciatus	Fresno	33	BGSENT	6/21/2022	WNV
Fresno	FRNO 8005	344	Culex quinquefasciatus	Fresno	6	GRVD	6/16/2022	WNV
Fresno	FRNO 8007	359	Culex tarsalis	Fresno	16	CO2	6/16/2022	WNV
Fresno	FRNO 82	391	Culex quinquefasciatus	Fresno	50	BGSENT	6/22/2022	WNV
Fresno	FRWS 5116	116	Culex quinquefasciatus	Tranquillity	30	CO2	6/21/2022	WNV
Kern	KERN 135	302	Culex quinquefasciatus	Bakersfield	34	BGSENT	6/17/2022	WNV
Kern	KERN 2014	286	Culex quinquefasciatus	Bakersfield	25	GRVD	6/15/2022	WNV
Kern	KERN 2020	285	Culex quinquefasciatus	Bakersfield	20	GRVD	6/15/2022	WNV
Kern	KERN 68	296	Culex quinquefasciatus	Bakersfield	38	BGSENT	6/16/2022	WNV
Kern	KERN 70	294	Culex quinquefasciatus	Bakersfield	50	BGSENT	6/16/2022	WNV
Kern	KERN 71	293	Culex quinquefasciatus	Bakersfield	47	BGSENT	6/16/2022	WNV
Kern	KERN 77	295	Culex quinquefasciatus	Bakersfield	44	BGSENT	6/16/2022	WNV
Placer	PLCR 191218	468	Culex tarsalis	Roseville	50	CO2	6/21/2022	WNV
Placer	PLCR 191218	471	Culex tarsalis	Roseville	44	CO2	6/21/2022	WNV
San Joaquin	SJCM 8018	515	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
San Joaquin	SJCM 8018	519	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
San Joaquin	SJCM 8018	520	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
San Joaquin	SJCM 8018	521	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
San Joaquin	SJCM 8018	522	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
San Joaquin	SJCM 8198	579	Culex tarsalis	Stockton	50	CO2	6/22/2022	WNV
Sutter	SUYA 27	114	Culex tarsalis	Tierra Buena	33	CO2	6/22/2022	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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