

California Arbovirus Surveillance Bulletin #11

Week 24 Friday, June 17, 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), and Sacramento (2) counties. To date this year, 10 WNV positive dead birds have been reported from 5 counties. At this time last year, 22 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 (8), Kern (10), Los Angeles (2), Merced (1), Riverside (2), and Tulare (8) counties. **This is the first detection of WNV activity in Tulare and Merced counties this year.** In 2022, 56 WNV positive mosquito pools have been reported from 8 counties. At this time last year, 29 WNV positive mosquito pools from 8 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	2,485	2,131
No. Positive Counties	8	11
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	22 / 669	10 / 488
No. Positive Mosquito Pools / No. Tested	29 / 8,764	56 / 8,934
No. Seroconversions / No. Tested	0 / 1,663	0 / 1,189

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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				20	
Kern				17	
Los Angeles			5	3	
Merced				1	
Nevada			1		
Orange				2	
Riverside				4	
Sacramento			2	1	
Yolo			1		
Tulare				8	
Total	0	0	10	56	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	54	3
	YTD	488	10

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	195	0	0	0
	YTD	1,189	0	0	0

Mosquito Pools

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	31 / 1,344	0 / 1,344	0 / 1,343	0 / 10	0 / 10	0 / 10
	YTD	56 / 8,934	0 / 8,829	0 / 8,826	0 / 150	0 / 150	0 / 150

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POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - Sylmar	La Crescenta	91214	California Scrub-Jay	6/7/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	6/8/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	6/2/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL 9236	45	Culex quinquefasciatus	Fresno	50	GRVD	6/10/2022	WNV
Fresno	FRNO 112	305	Culex quinquefasciatus	Fresno	50	GRVD	6/7/2022	WNV
Fresno	FRNO 165	335	Culex quinquefasciatus	Fresno	35	GRVD	6/15/2022	WNV
Fresno	FRNO 19	290	Culex quinquefasciatus	Fresno	50	GRVD	6/7/2022	WNV
Fresno	FRNO 19	291	Culex quinquefasciatus	Fresno	50	GRVD	6/7/2022	WNV
Fresno	FRNO 28	317	Culex tarsalis	Fresno	12	BGSENT	6/7/2022	WNV
Fresno	FRNO 64	293	Culex quinquefasciatus	Fresno	50	GRVD	6/7/2022	WNV
Fresno	FRNO 81	338	Culex quinquefasciatus	Fresno	50	GRVD	6/15/2022	WNV
Kern	KERN 1002	265	Culex quinquefasciatus	Bakersfield	50	GRVD	6/10/2022	WNV
Kern	KERN 136	270	Culex quinquefasciatus	Bakersfield	35	BGSENT	6/10/2022	WNV
Kern	KERN 139	253	Culex quinquefasciatus	Bakersfield	50	GRVD	6/9/2022	WNV
Kern	KERN 157	263	Culex quinquefasciatus	Bakersfield	38	GRVD	6/10/2022	WNV
Kern	KERN 2005	267	Culex quinquefasciatus	Bakersfield	29	GRVD	6/10/2022	WNV
Kern	KERN 2006	243	Culex quinquefasciatus	Bakersfield	50	GRVD	6/8/2022	WNV
Kern	KERN 2007	241	Culex quinquefasciatus	Bakersfield	50	GRVD	6/8/2022	WNV
Kern	KERN 2039	250	Culex quinquefasciatus	Bakersfield	40	GRVD	6/9/2022	WNV
Kern	KERN 75	272	Culex quinquefasciatus	Bakersfield	30	BGSENT	6/10/2022	WNV
Kern	KERN 76	271	Culex quinquefasciatus	Bakersfield	33	BGSENT	6/10/2022	WNV
Los Angeles	ANTV 273437	11	Culex tarsalis	Lancaster	50	CO2	6/7/2022	WNV
Los Angeles	SGVA 396	567	Culex quinquefasciatus	Pasadena	50	GRVD	6/15/2022	WNV
Merced	MERC 848353	19	Culex pipiens	Merced	8	BGSENT	6/9/2022	WNV
Riverside	COAV 27	2991	Culex tarsalis	Thermal	50	CO2	6/14/2022	WNV
Riverside	COAV 27	2992	Culex tarsalis	Thermal	50	CO2	6/14/2022	WNV
Tulare	DLTA 8413	849	Culex quinquefasciatus	Visalia	50	BGSENT	6/14/2022	WNV
Tulare	DLTA 85302	891	Culex quinquefasciatus	Visalia	12	BGSENT	6/15/2022	WNV
Tulare	DLTA 8531	759	Culex quinquefasciatus	Visalia	44	GRVD	6/9/2022	WNV
Tulare	DLTA 8531	760	Culex quinquefasciatus	Visalia	10	GRVD	6/9/2022	WNV
Tulare	DLTA 94021	690	Culex quinquefasciatus	Visalia	50	GRVD	6/7/2022	WNV
Tulare	DLTA 9505	907	Culex quinquefasciatus	Visalia	11	BGSENT	6/16/2022	WNV
Tulare	DLTA 95063	758	Culex quinquefasciatus	Visalia	21	GRVD	6/9/2022	WNV
Tulare	DLTA 95064	802	Culex quinquefasciatus	Visalia	12	BGSENT	6/10/2022	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).

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.

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.

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.

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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