

California Arbovirus Surveillance Bulletin #8

Week 24 Friday, June 18, 2021



Weekly Update

Humans

No human infections have been reported in 2021.

Dead Birds

A total of 11 West Nile virus (WNV) positive dead birds were reported this week from 4 counties: Los Angeles (1), Sacramento (8), San Joaquin (1), and Tulare (1). In 2021, 22 WNV positive dead birds have been reported from 4 counties. At this time last year, eight WNV positive dead birds had been reported from four counties.

Mosquito Pools

A total of 11 WNV positive mosquito pools were reported this week from 6 counties: Fresno (1), Kern (1), Los Angeles (2), Sacramento (2), San Joaquin (3), Tulare (2). **This is the first detection of WNV activity in Fresno County, and first WNV positive mosquito pools reported from Los Angeles and San Joaquin counties this year.** In 2021, 29 WNV positive mosquito pools have been reported from 8 counties. At this time last year, 48 WNV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

No seroconversions have been reported in 2021.

2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	1,893	2,485
# Positive Counties	10	8
# Human Cases	0	0
# Positive Dead Birds / # Tested	8 / 414	22 / 669
# Positive Mosquito Pools / # Tested	48 / 8,862	29 / 8,764
# Seroconversions / # Tested	0 / 1,382	0 / 1,663

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.maps.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC websites: www.cdc.gov and www.cdc.gov/arnonet/maps/ADB_Diseases_Map/index.html

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YTD WNV Activity by Element and County, 2021

County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Fresno			1	
Kern			2	
Los Angeles		2	2	
Sacramento		15	8	
San Joaquin		2	3	
Stanislaus			1	
Tulare		3	11	
Yolo			1	
Totals	0	22	29	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	62	11
	YTD	669	22

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	331	0	0	0
	YTD	1,663	0	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	11 / 1,134	0 / 1,099	0 / 1,016	0 / 68	0 / 68	0 / 68
	YTD	29 / 8,764	0 / 8,048	0 / 7,649	0 / 73	0 / 73	0 / 73

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	San Gabriel Valley MVCD	Covina	91722	Unknown - Crow or Raven	6/13/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	6/10/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	6/9/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	6/9/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	6/9/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	6/9/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	6/10/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	6/14/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Crow	6/10/2021	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	6/14/2021	WNV
Tulare	Delta VCD	Visalia	93291	Unknown - Crow or Raven	6/10/2021	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1695	37	Cx. quinquefasciatus	Fresno	50	GRVD	6/8/21	WNV
Kern	KERN2015	91	Cx. quinquefasciatus	Bakersfield	39	GRVD	6/11/21	WNV
Los Angeles	SGVA1022	379	Cx. quinquefasciatus	Azusa	50	GRVD	6/15/21	WNV
Los Angeles	SGVA64	386	Cx. quinquefasciatus	West Covina	50	GRVD	6/15/21	WNV
Sacramento	SAYO205028	1039	Cx. pipiens	Orangevale	1	CO2	6/15/21	WNV
Sacramento	SAYO386249	991	Cx. tarsalis	South Sacramento	1	BGSENT	6/11/21	WNV
San Joaquin	SJCM2479	452	Cx. tarsalis	Stockton	26	CO2	6/17/21	WNV
San Joaquin	SJCM2504	435	Cx. tarsalis	Stockton	14	CO2	6/17/21	WNV
San Joaquin	SJCM8198	449	Cx. tarsalis	Stockton	50	CO2	6/17/21	WNV
Tulare	DLTA84341	336	Cx. tarsalis	Visalia	16	CO2	6/15/21	WNV
Tulare	DLTA9504	342	Cx. quinquefasciatus	Visalia	25	GRVD	6/15/21	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.

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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