

California Arbovirus Surveillance Bulletin #9

Week 25 Friday, June 25, 2021



Weekly Update

Humans

No human infections have been reported in 2021.

Dead Birds

A total of 4 West Nile virus (WNV) positive dead birds were reported this week from 3 counties: Los Angeles (1), Sacramento (2), and San Joaquin (1). In 2021, 26 WNV positive dead birds have been reported from 4 counties. At this time last year, 10 WNV positive dead birds had been reported from 6 counties.

Mosquito Pools

A total of 25 WNV positive mosquito pools were reported this week from 7 counties: Fresno (5), Kern (4), Los Angeles (6), Placer (1), Sacramento (3), San Joaquin (3), and Tulare (3). **This is the first detection of WNV activity in Placer County this year.** In 2021, 54 WNV positive mosquito pools have been reported from 9 counties. At this time last year, 65 WNV positive mosquito pools had been reported from 9 counties.

Sentinel Chickens

No seroconversions have been reported in 2021.

2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	2,055	2,646
# Positive Counties	10	9
# Human Cases	0	0
# Positive Dead Birds / # Tested	10 / 442	26 / 737
# Positive Mosquito Pools / # Tested	65 / 10,137	54 / 10,404
# Seroconversions / # Tested	0 / 1,596	0 / 1,826

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/arbovet/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			6	
Kern			6	
Los Angeles		3	8	
Placer			1	
Sacramento		17	11	
San Joaquin		3	6	
Stanislaus			1	
Tulare		3	14	
Yolo			1	
Totals	0	26	54	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	68	4
	YTD	737	26

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	163	0	0	0
	YTD	1,826	0	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	25 / 1,640	0 / 1,499	0 / 1,391	0 / 17	0 / 17	0 / 17
		YTD	54 / 10,404	0 / 9,547	0 / 9,040	0 / 90	0 / 90	0 / 90

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	San Gabriel Valley MVCD	Covina	91723	American Crow	6/23/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	6/17/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Crow	6/21/2021	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	American Crow	6/18/2021	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL2079	73	Cx. quinquefasciatus	Clovis	32	GRVD	6/17/21	WNV
Fresno	FRWS300026	87	Cx. quinquefasciatus	Firebaugh	31	CO2	6/22/21	WNV
Fresno	FRWS300031	81	Cx. tarsalis	Firebaugh	50	CO2	6/22/21	WNV
Fresno	FRWS300031	82	Cx. tarsalis	Firebaugh	50	CO2	6/22/21	WNV
Fresno	FRWS4110	98	Cx. tarsalis	Mendota	50	CO2	6/22/21	WNV
Kern	KERN1114	97	Cx. tarsalis	Bakersfield	23	CO2	6/15/21	WNV
Kern	KERN2010	107	Cx. quinquefasciatus	Bakersfield	20	GRVD	6/16/21	WNV
Kern	KERN2015	125	Cx. quinquefasciatus	Bakersfield	25	GRVD	6/18/21	WNV
Kern	KERN2051	123	Cx. quinquefasciatus	Bakersfield	48	GRVD	6/18/21	WNV
Los Angeles	SGVA1216	421	Cx. quinquefasciatus	Covina	50	GRVD	6/17/21	WNV
Los Angeles	SGVA1217	422	Cx. quinquefasciatus	Covina	50	GRVD	6/17/21	WNV
Los Angeles	SGVA1217	466	Cx. quinquefasciatus	Covina	50	GRVD	6/22/21	WNV
Los Angeles	SGVA1220	472	Cx. quinquefasciatus	Azusa	50	GRVD	6/23/21	WNV
Los Angeles	SGVA62	428	Cx. quinquefasciatus	Covina	50	GRVD	6/22/21	WNV
Los Angeles	SGVA953	431	Cx. quinquefasciatus	Covina	50	GRVD	6/22/21	WNV
Placer	PLCR993822	418	Cx. tarsalis	Roseville	50	CO2	6/22/21	WNV
Sacramento	SAYO254009	1114	Cx. pipiens	Galt	21	CO2	6/18/21	WNV
Sacramento	SAYO388559	1093	Cx. tarsalis	Galt	3	CO2	6/18/21	WNV
Sacramento	SAYO388559	1097	Cx. pipiens	Galt	4	GRVD	6/18/21	WNV
San Joaquin	SJCM2478	520	Cx. tarsalis	Stockton	50	CO2	6/24/21	WNV
San Joaquin	SJCM2478	521	Cx. pipiens	Stockton	39	CO2	6/24/21	WNV
San Joaquin	SJCM8223	537	Cx. tarsalis	Stockton	48	CO2	6/24/21	WNV
Tulare	DLTA84344	383	Cx. quinquefasciatus	Visalia	18	BGSENT	6/18/21	WNV
Tulare	DLTA9505	356	Cx. quinquefasciatus	Visalia	19	GRVD	6/16/21	WNV
Tulare	DLTA9505	389	Cx. quinquefasciatus	Visalia	12	GRVD	6/18/21	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.

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