

California Arbovirus Surveillance Bulletin #7

Week 23 Friday, June 11, 2021



Weekly Update

Humans

No human infections have been reported in 2021.

Dead Birds

A total of five West Nile virus (WNV) positive dead birds were reported this week from Sacramento (3) and Tulare (2) counties. **These are the first WNV positive dead birds from Tulare County this year.** In 2021, 11 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 15 WNV positive mosquito pools were reported this week from Sacramento (4), Stanislaus (1), Tulare (9), and Yolo (1) counties. **This is the first detection of WNV activity in Stanislaus, Tulare, and Yolo counties this year.** In 2021, 18 WNV positive mosquito pools have been reported from 5 counties. At this time last year, 29 WNV positive mosquito pools had been reported from 7 counties.

Sentinel Chickens

No seroconversions have been reported in 2021.

YTD WNV Activity by Element and County, 2021				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Kern			1	
Los Angeles		1		
Sacramento		7	6	
San Joaquin		1		
Stanislaus			1	
Tulare		2	9	
Yolo			1	
Totals	0	11	18	0

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/arbonet/maps/ADB_Diseases_Map/index.html

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	1,699	2,319
# Positive Counties	10	7
# Human Cases	0	0
# Positive Dead Birds / # Tested	8 / 366	11 / 607
# Positive Mosquito Pools / # Tested	29 / 7,269	18 / 7,630
# Seroconversions / # Tested	0 / 969	0 / 1,332

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	47	5
	YTD	607	11

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	207	0	0	0
	YTD	1,332	0	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	15 / 1,077	0 / 1,077	0 / 983	0 / 1	0 / 1	0 / 1
	YTD	18 / 7,630	0 / 6,949	0 / 6,633	0 / 5	0 / 5	0 / 5

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	6/7/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	6/8/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	6/8/2021	WNV
Tulare	Delta VCD	Visalia	93277	California Scrub-Jay	6/5/2021	WNV
Tulare	Delta VCD	Visalia	93277	California Scrub-Jay	6/9/2021	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Sacramento	SAYO44351	694	Cx. pipiens	Sacramento	1	CO2	6/4/21	WNV
Sacramento	SAYO44351	730	Cx. pipiens	Galt	18	CO2	6/4/21	WNV
Sacramento	SAYO44351	732	Cx. pipiens	Galt	4	GRVD	6/4/21	WNV
Sacramento	SAYO44351	777	Cx. pipiens	Galt	10	CO2	6/4/21	WNV
Stanislaus	EAST44349	21044	Cx. pipiens	Modesto	50	GRVD	6/2/21	WNV
Tulare	DLTA44349	254	Cx. quinquefasciatus	Visalia	27	GRVD	6/2/21	WNV
Tulare	DLTA44349	257	Cx. quinquefasciatus	Visalia	11	GRVD	6/2/21	WNV
Tulare	DLTA44350	268	Cx. quinquefasciatus	Visalia	12	GRVD	6/3/21	WNV
Tulare	DLTA44351	288	Cx. quinquefasciatus	Visalia	34	GRVD	6/4/21	WNV
Tulare	DLTA44351	290	Cx. quinquefasciatus	Visalia	17	GRVD	6/4/21	WNV
Tulare	DLTA44351	291	Cx. quinquefasciatus	Visalia	19	GRVD	6/4/21	WNV
Tulare	DLTA44351	293	Cx. quinquefasciatus	Visalia	15	GRVD	6/4/21	WNV
Tulare	DLTA44355	306	Cx. quinquefasciatus	Visalia	15	GRVD	6/8/21	WNV
Tulare	DLTA44356	310	Cx. quinquefasciatus	Visalia	17	GRVD	6/9/21	WNV
Yolo	SAYO44355	864	Cx. tarsalis	Knights Landing	2	CO2	6/8/21	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.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli: Tina.Feiszli@cdph.ca.gov.