

## California Arbovirus Surveillance Bulletin #10

Week 26 Friday, July 2, 2021



### Weekly Update

#### **Humans**

No human infections have been reported in 2021. At this time last year, one human case of West Nile virus (WNV) illness had been reported.

#### **Dead Birds**

A total of 9 WNV positive dead birds were reported this week from 4 counties: Los Angeles (2), Sacramento (4), Sonoma (1), and Tulare (2). **This is the first detection of WNV activity from Sonoma County this year.** In 2021, 35 WNV positive dead birds have been reported from 5 counties. At this time last year, 19 WNV positive dead birds had been reported from 7 counties.

#### **Mosquito Pools**

A total of 61 WNV positive mosquito pools were reported this week from 12 counties: Butte (3), Contra Costa (1), Fresno (15), Kern (1), Los Angeles (8), Madera (1), Placer (1), Sacramento (3), San Joaquin (16), Shasta (2), Stanislaus (2), and Tulare (8). **This is the first detection of WNV activity in Butte, Contra Costa, Madera, and Shasta counties this year.** In 2021, 115 WNV positive mosquito pools have been reported from 13 counties. At this time last year, 92 WNV positive mosquito pools had been reported from 10 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2021.

2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	2,208	2,826
# Positive Counties	11	14
# Human Cases	1	0
# Positive Dead Birds / # Tested	19 / 473	35 / 814
# Positive Mosquito Pools / # Tested	92 / 11,451	115 / 11,905
# Seroconversions / # Tested	0 / 1,906	0 / 2,154

*Website Information:* For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.maps.calsurv.org](http://www.maps.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC websites: [www.cdc.gov](http://www.cdc.gov) and [www.cdc.gov/arbovet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html)

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<b>YTD WNV Activity by Element and County, 2021</b>					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte				3	
Contra Costa				1	
Fresno		1		21	
Kern				7	
Los Angeles			5	16	
Madera				1	
Placer				2	
Sacramento			21	14	
San Joaquin			3	22	
Shasta				2	
Sonoma			1		
Stanislaus				3	
Tulare			5	22	
Yolo				1	
<b>Totals</b>	<b>0</b>	<b>1</b>	<b>35</b>	<b>115</b>	<b>0</b>

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### 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	76	9
	YTD	814	35

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	328	0	0	0
	YTD	2,154	0	0	0

#### Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	61 / 1,501	0 / 1,300	0 / 1,123	0 / 0	0 / 0	0 / 0
		YTD	115 / 11,905	0 / 10,847	0 / 10,163	0 / 90	0 / 90	0 / 90

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	San Gabriel Valley MVCD	Covina	91723	American Crow	6/30/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91722	American Crow	6/28/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	California Scrub-Jay	6/24/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	6/25/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	6/29/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	6/29/2021	WNV
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	6/29/2021	WNV
Tulare	Delta MVCD	Visalia	93292	Steller's Jay	6/24/2021	WNV
Tulare	Delta MVCD	Visalia	93277	Unknown Raven or Crow	7/1/2021	WNV

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### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO118	121	Cx. tarsalis	Chico	50	CO2	6/28/21	WNV
Butte	BUCO118	123	Cx. tarsalis	Chico	50	CO2	6/28/21	WNV
Butte	BUCO84	118	Cx. tarsalis	Nelson	50	CO2	6/28/21	WNV
Contra Costa	CNTR661	1026	Cx. tarsalis	Byron	50	CO2	6/29/21	WNV
Fresno	CNSL1585	123	Cx. quinquefasciatus	Fresno	23	GRVD	6/25/21	WNV
Fresno	CNSL2020	538	Cx. tarsalis	Clovis	50	CO2	6/23/21	WNV
Fresno	CNSL2159	539	Cx. tarsalis	Sanger	37	CO2	6/23/21	WNV
Fresno	CNSL2213	97	Cx. tarsalis	Sanger	14	CO2	6/24/21	WNV
Fresno	CNSL2246	535	Cx. tarsalis	Sanger	44	BGSENT	6/23/21	WNV
Fresno	CNSL2393	98	Cx. quinquefasciatus	Sanger	50	GRVD	6/24/21	WNV
Fresno	CNSL2503	540	Cx. quinquefasciatus	Sanger	12	GRVD	6/23/21	WNV
Fresno	CNSL2575	120	Cx. quinquefasciatus	Fresno	50	GRVD	6/25/21	WNV
Fresno	FRWS300028	112	Cx. tarsalis	Firebaugh	28	CO2	6/29/21	WNV
Fresno	FRWS3204	117	Cx. tarsalis	Firebaugh	50	CO2	6/29/21	WNV
Fresno	FRWS400027	102	Cx. tarsalis	Mendota	50	CO2	6/24/21	WNV
Fresno	FRWS4102	106	Cx. tarsalis	Kerman	50	CO2	6/29/21	WNV
Fresno	FRWS4110	104	Cx. tarsalis	Mendota	50	CO2	6/29/21	WNV
Fresno	FRWS5110	107	Cx. tarsalis	Tranquillity	50	CO2	6/29/21	WNV
Fresno	FRWS5110	108	Cx. tarsalis	Tranquillity	50	CO2	6/29/21	WNV
Kern	KERN2018	152	Cx. quinquefasciatus	Bakersfield	40	GRVD	6/25/21	WNV
Los Angeles	SGVA1077	479	Cx. quinquefasciatus	La Puente	50	GRVD	6/29/21	WNV
Los Angeles	SGVA1216	475	Cx. quinquefasciatus	Covina	50	GRVD	6/29/21	WNV
Los Angeles	SGVA1220	492	Cx. quinquefasciatus	Azusa	37	GRVD	6/29/21	WNV
Los Angeles	SGVA1221	523	Cx. quinquefasciatus	Covina	35	GRVD	6/30/21	WNV
Los Angeles	SGVA1224	484	Cx. quinquefasciatus	West Covina	50	GRVD	6/29/21	WNV
Los Angeles	SGVA62	478	Cx. quinquefasciatus	Covina	50	GRVD	6/29/21	WNV
Los Angeles	SGVA64	482	Cx. quinquefasciatus	West Covina	50	GRVD	6/29/21	WNV
Los Angeles	SGVA953	529	Cx. quinquefasciatus	Covina	50	GRVD	6/30/21	WNV
Madera	MADR1109	75	Cx. tarsalis	Madera	50	CO2	6/22/21	WNV
Placer	PLCR191218	552	Cx. pipiens	Roseville	10	CO2	6/29/21	WNV
Sacramento	SAYO204020	1642	Cx. pipiens	Sacramento	9	GRVD	6/29/21	WNV
Sacramento	SAYO204020	1643	Cx. tarsalis	Sacramento	7	GRVD	6/29/21	WNV
Sacramento	SAYO233116	1673	Cx. pipiens	Sacramento	24	CO2	6/29/21	WNV
San Joaquin	SJCM7011	667	Cx. pipiens	Stockton	14	GRVD	7/1/21	WNV
San Joaquin	SJCM8003	603	Cx. tarsalis	Tracy	30	CO2	6/29/21	WNV
San Joaquin	SJCM8003	604	Cx. pipiens	Tracy	25	CO2	6/29/21	WNV
San Joaquin	SJCM8011	607	Cx. pipiens	Ripon	14	CO2	6/29/21	WNV
San Joaquin	SJCM8018	546	Cx. tarsalis	Stockton	100	CO2	6/29/21	WNV
San Joaquin	SJCM8018	552	Cx. tarsalis	Stockton	100	CO2	6/29/21	WNV
San Joaquin	SJCM8076	645	Cx. tarsalis	Stockton	50	CO2	7/1/21	WNV
San Joaquin	SJCM8076	646	Cx. tarsalis	Stockton	50	CO2	7/1/21	WNV
San Joaquin	SJCM8076	647	Cx. tarsalis	Stockton	25	CO2	7/1/21	WNV
San Joaquin	SJCM8076	648	Cx. pipiens	Stockton	11	CO2	7/1/21	WNV
San Joaquin	SJCM8100	605	Cx. tarsalis	Tracy	43	CO2	6/29/21	WNV
San Joaquin	SJCM8143	601	Cx. tarsalis	Stockton	50	CO2	6/29/21	WNV
San Joaquin	SJCM8198	663	Cx. tarsalis	Stockton	50	CO2	7/1/21	WNV
San Joaquin	SJCM8224	649	Cx. tarsalis	Lodi	10	CO2	7/1/21	WNV
San Joaquin	SJCM8233	593	Cx. tarsalis	Stockton	50	CO2	6/29/21	WNV
San Joaquin	SJCM8300	628	Cx. tarsalis	Manteca	40	CO2	6/29/21	WNV
Shasta	SHAS10140	150	Cx. tarsalis	Anderson	20	CO2	6/29/21	WNV

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Shasta	SHAS289	177	Cx. tarsalis	Shingletown	50	CO2	7/1/21	WNV
Stanislaus	EAST1077	21115	Cx. pipiens	Modesto	43	GRVD	6/23/21	WNV
Stanislaus	EAST2023	21114	Cx. pipiens	Modesto	43	GRVD	6/23/21	WNV
Tulare	DLTA84194	437	Cx. quinquefasciatus	Visalia	18	GRVD	6/25/21	WNV
Tulare	DLTA84274	440	Cx. quinquefasciatus	Visalia	17	GRVD	6/25/21	WNV
Tulare	DLTA8533	401	Cx. quinquefasciatus	Visalia	12	GRVD	6/23/21	WNV
Tulare	DLTA8533	433	Cx. quinquefasciatus	Visalia	13	GRVD	6/25/21	WNV
Tulare	DLTA94042	438	Cx. quinquefasciatus	Visalia	39	CO2	6/25/21	WNV
Tulare	DLTA9411	412	Cx. quinquefasciatus	Visalia	13	GRVD	6/24/21	WNV
Tulare	DLTA9505	399	Cx. quinquefasciatus	Visalia	19	GRVD	6/23/21	WNV
Tulare	DLTA9505	431	Cx. quinquefasciatus	Visalia	13	GRVD	6/25/21	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).

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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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