

## California Arbovirus Surveillance Bulletin #15

Week 31 Friday, August 6, 2021



### Weekly Update

#### **Humans**

Four human case of West Nile virus (WNV) illness were reported this week from Butte (2), Los Angeles (1), and Stanislaus (1) counties. **These are the first human WNV cases reported from Butte, Los Angeles, and Stanislaus counties this year.** In 2021, a total of eight WNV human cases have been reported from seven counties. Of the eight cases, three (38%) had neuroinvasive illness and one (13%) was fatal. The median age of the cases was 54 years, and five (63%) were male. Dates of symptom onset ranged from May 9 to July 21. In addition to the eight cases, two asymptomatic WNV infections have been reported from Kern (1) and San Bernardino (1) counties. At this time last year, five WNV cases had been reported from three counties.

#### **Dead Birds**

A total of 15 WNV positive dead birds were reported this week from 4 counties: Los Angeles (3), Nevada (1), Sacramento (10) and San Joaquin (1). In 2021, 109 WNV positive dead birds have been reported from 10 counties. **This is the first detection of WNV activity in Nevada County this year.** At this time last year, 64 WNV positive dead birds had been reported from 12 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 207 WNV positive mosquito pools were reported this week from 17 counties: Butte (11), Fresno (14), Kern (13), Lake (1), Los Angeles (25), Madera (16), Merced (1), Orange (2), Placer (10), Riverside (13), Sacramento (5), San Joaquin (47), Shasta (3), Solano (2), Stanislaus (26), Tulare (16), and Yolo (2). **This is the first detection of WNV activity in Orange and Solano counties, and the first positive mosquito pools from Merced County this year.** In 2021, 770 WNV positive mosquito pools have been reported from 23 counties. At this time last year, 474 WNV positive mosquito pools had been reported from 21 counties.

##### St. Louis encephalitis virus

Six mosquito pools from Fresno (1) and Riverside (5) counties were reported positive for St. Louis encephalitis virus (SLEV) this week. **This is the first detection of SLEV in Fresno and Riverside counties this year.** In 2021, nine SLEV positive mosquito pools have been reported from Fresno (1), Imperial (3), and Riverside (5) counties. At this time last year, 143 SLEV positive mosquito pools had been reported from 4 counties.

#### **Sentinel Chickens**

No WNV positive chickens were reported this week. In 2021, 10 WNV positive chickens have been reported from 3 counties. At this time last year, 12 WNV positive chickens had been reported from 3 counties.

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*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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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	3,097	3,538
# Positive Counties	24	25
# Human Cases	5	8
# Positive Dead Birds / # Tested	64 / 793	109 / 1,069
# Positive Mosquito Pools / # Tested	474 / 19,940	770 / 19,719
# Seroconversions / # Tested	12 / 3,281	10 / 3,258

YTD WNV Activity by Element and County, 2021					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	2			52	8
Contra Costa				2	
Fresno	1	1		140	
Kern	1			41	
Kings				6	
Lake				2	
Los Angeles	1		19	85	
Madera				49	
Merced			1	1	1
Nevada			1		
Orange				2	
Placer			2	30	
Riverside				15	
Sacramento			66	31	
San Bernardino			1	2	
San Joaquin			12	146	
San Luis Obispo	1				
Shasta	1			15	1
Solano				2	
Sonoma			1	1	
Stanislaus	1		1	46	
Sutter				9	
Tulare			5	83	
Yolo				6	
Yuba				4	
<b>Totals</b>	<b>8</b>	<b>1</b>	<b>109</b>	<b>770</b>	<b>10</b>

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### TESTING SUMMARIES

#### Humans

		WNV	SLEV	WEEV
Human Cases	Week	4	0	0
	YTD	8	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	37	15
	YTD	1,069	109

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	165	0	0	0
	YTD	3,258	10	0	0

#### Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	207 / 1,648	6 / 1,430	0 / 1,301	0 / 19	0 / 19	0 / 19
		YTD	770 / 19,719	9 / 18,376	0 / 17,020	0 / 253	0 / 253	0 / 253

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	7/27/2021	WNV
Los Angeles	San Gabriel Valley MVCD	West Covina	91791	American Crow	7/28/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Pomona	91767	Unknown - Crow or Raven	8/4/2021	WNV
Nevada	Nevada Co Env Health - Nevada City	Penn Valley	95946	American Crow	7/24/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/27/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	7/28/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	7/29/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	California Scrub-Jay	7/29/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	California Scrub-Jay	7/30/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	American Crow	7/30/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	7/30/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Unknown	7/30/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	California Scrub-Jay	8/1/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	8/2/2021	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	7/28/2021	WNV

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### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO11	291	Cx. tarsalis	Durham	50	CO2	7/28/2021	WNV
Butte	BUCO11	292	Cx. tarsalis	Durham	50	CO2	7/28/2021	WNV
Butte	BUCO126	283	Cx. tarsalis	Chico	50	CO2	7/27/2021	WNV
Butte	BUCO22	276	Cx. tarsalis	Durham	50	CO2	7/28/2021	WNV
Butte	BUCO29	293	Cx. tarsalis	Durham	50	CO2	7/28/2021	WNV
Butte	BUCO29	296	Cx. tarsalis	Durham	50	CO2	7/28/2021	WNV
Butte	BUCO49	279	Cx. tarsalis	Biggs	50	CO2	7/29/2021	WNV
Butte	BUCO49	280	Cx. tarsalis	Biggs	50	CO2	7/29/2021	WNV
Butte	BUCO49	281	Cx. tarsalis	Biggs	50	CO2	7/29/2021	WNV
Butte	BUCO49	282	Cx. tarsalis	Biggs	50	CO2	7/29/2021	WNV
Butte	BUCO91	274	Cx. tarsalis	Biggs	50	CO2	7/28/2021	WNV
Fresno	CNSL1199	713	Cx. quinquefasciatus	Clovis	21	BGSENT	7/30/2021	WNV
Fresno	CNSL2187	298	Cx. quinquefasciatus	Del Rey	31	GRVD	7/28/2021	SLEV
Fresno	CNSL2266	296	Cx. quinquefasciatus	Sanger	50	GRVD	7/28/2021	WNV
Fresno	CNSL2307	294	Cx. quinquefasciatus	Sanger	46	GRVD	7/27/2021	WNV
Fresno	CNSL2307	295	Cx. stigmatosoma	Sanger	50	GRVD	7/27/2021	WNV
Fresno	CNSL2520	709	Cx. quinquefasciatus	Sanger	50	GRVD	7/29/2021	WNV
Fresno	CNSL3438	302	Cx. quinquefasciatus	Parlier	29	CO2	7/29/2021	WNV
Fresno	CNSL6157	301	Cx. tarsalis	Riverdale	50	CO2	7/28/2021	WNV
Fresno	FRNO257	397	Cx. quinquefasciatus	Fresno	50	GRVD	8/4/2021	WNV
Fresno	FRNO82	390	Cx. quinquefasciatus	Fresno	33	GRVD	8/4/2021	WNV
Fresno	FRWS100007	201	Cx. tarsalis	Dos Palos	50	CO2	8/3/2021	WNV
Fresno	FRWS100016	197	Cx. tarsalis	Firebaugh	50	CO2	7/29/2021	WNV
Fresno	FRWS400022	195	Cx. tarsalis	Firebaugh	12	CO2	7/29/2021	WNV
Fresno	FRWS4102	200	Cx. tarsalis	Tranquillity	46	CO2	8/3/2021	WNV
Fresno	FRWS4104	199	Cx. quinquefasciatus	Kerman	11	GRVD	8/3/2021	WNV
Kern	DLNO26	89	Cx. quinquefasciatus	Delano	29	CO2	7/29/2021	WNV
Kern	DLNO55	87	Cx. quinquefasciatus	McFarland	50	CO2	7/29/2021	WNV
Kern	KERN110	289	Cx. quinquefasciatus	Bakersfield	50	CO2	7/27/2021	WNV
Kern	KERN1137	298	Cx. quinquefasciatus	Rosedale	35	CO2	7/28/2021	WNV
Kern	KERN115	303	Cx. tarsalis	Shafter	47	CO2	7/29/2021	WNV
Kern	KERN2027	300	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/28/2021	WNV
Kern	KERN2040	281	Cx. quinquefasciatus	Arvin	33	GRVD	7/27/2021	WNV
Kern	KERN3004	309	Cx. quinquefasciatus	Bakersfield	50	CO2	7/30/2021	WNV
Kern	KERN3026	295	Cx. quinquefasciatus	Bakersfield	40	CO2	7/27/2021	WNV
Kern	KERN3027	291	Cx. tarsalis	Mettler	40	CO2	7/27/2021	WNV
Kern	KERN3041	301	Cx. tarsalis	Shafter	50	CO2	7/29/2021	WNV
Kern	KERN32	292	Cx. tarsalis	Bakersfield	21	CO2	7/27/2021	WNV
Kern	KERN36	284	Cx. tarsalis	Bakersfield	50	CO2	7/27/2021	WNV
Lake	LAKE294	189	Cx. tarsalis	Soda Bay	22	CO2	7/21/2021	WNV
Los Angeles	GRLA2955	433	Cx. quinquefasciatus	Cerritos	50	GRVD	7/27/2021	WNV
Los Angeles	GRLA3041	434	Cx. quinquefasciatus	Artesia	50	GRVD	7/27/2021	WNV
Los Angeles	GRLA3069	5492	Cx. quinquefasciatus	Los Angeles	50	GRVD	7/28/2021	WNV
Los Angeles	SGVA1000	723	Cx. quinquefasciatus	Azusa	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA1012	711	Cx. quinquefasciatus	South Pasadena	27	GRVD	8/3/2021	WNV
Los Angeles	SGVA1077	701	Cx. quinquefasciatus	West Valinda	50	GRVD	7/29/2021	WNV
Los Angeles	SGVA1106	740	Cx. quinquefasciatus	Walnut	50	GRVD	8/4/2021	WNV
Los Angeles	SGVA1117	702	Cx. quinquefasciatus	West Covina	50	GRVD	7/29/2021	WNV
Los Angeles	SGVA1193	721	Cx. quinquefasciatus	Irwindale	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA1216	707	Cx. quinquefasciatus	Covina	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA1217	708	Cx. quinquefasciatus	Covina	42	GRVD	8/3/2021	WNV
Los Angeles	SGVA15	719	Cx. quinquefasciatus	Glendora	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA25	703	Cx. quinquefasciatus	Baldwin Park	50	GRVD	7/29/2021	WNV
Los Angeles	SGVA286	744	Cx. quinquefasciatus	Baldwin Park	26	GRVD	8/4/2021	WNV

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Los Angeles	SGVA370	747	Cx. quinquefasciatus	South Pasadena	34	GRVD	8/4/2021	WNV
Los Angeles	SGVA458	709	Cx. quinquefasciatus	Charter Oak	13	BGSENT	8/3/2021	WNV
Los Angeles	SGVA477	741	Cx. quinquefasciatus	West Covina	37	GRVD	8/4/2021	WNV
Los Angeles	SGVA64	696	Cx. quinquefasciatus	West Covina	50	GRVD	7/29/2021	WNV
Los Angeles	SGVA64	736	Cx. quinquefasciatus	West Covina	26	GRVD	8/4/2021	WNV
Los Angeles	SGVA686	738	Cx. quinquefasciatus	West Covina	46	GRVD	8/4/2021	WNV
Los Angeles	SGVA688	750	Cx. quinquefasciatus	Alhambra	25	GRVD	8/4/2021	WNV
Los Angeles	SGVA7	712	Cx. quinquefasciatus	Claremont	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA860	699	Cx. quinquefasciatus	Baldwin Park	50	GRVD	7/29/2021	WNV
Los Angeles	SGVA952	715	Cx. quinquefasciatus	San Dimas	50	GRVD	8/3/2021	WNV
Los Angeles	SGVA953	724	Cx. quinquefasciatus	Covina	50	GRVD	8/3/2021	WNV
Madera	MADR1109	225	Cx. tarsalis	Parksdale	50	CO2	7/27/2021	WNV
Madera	MADR178	218	Cx. quinquefasciatus	Madera	50	CO2	7/27/2021	WNV
Madera	MADR189	232	Cx. tarsalis	Firebaugh	50	CO2	7/30/2021	WNV
Madera	MADR189	233	Cx. tarsalis	Firebaugh	50	CO2	7/30/2021	WNV
Madera	MADR227	216	Cx. tarsalis	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR227	217	Cx. quinquefasciatus	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR299	223	Cx. tarsalis	Chowchilla	50	CO2	7/27/2021	WNV
Madera	MADR309	207	Cx. tarsalis	Madera	50	CO2	7/22/2021	WNV
Madera	MADR3334	198	Cx. quinquefasciatus	Parkwood	50	CO2	7/20/2021	WNV
Madera	MADR3334	199	Cx. tarsalis	Parkwood	50	CO2	7/20/2021	WNV
Madera	MADR3334	226	Cx. quinquefasciatus	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR3334	227	Cx. tarsalis	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR3334	237	Cx. quinquefasciatus	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR3334	238	Cx. tarsalis	Parkwood	50	CO2	7/27/2021	WNV
Madera	MADR688	200	Cx. tarsalis	Madera	50	CO2	7/21/2021	WNV
Madera	MADR85	236	Cx. quinquefasciatus	Madera	11	CO2	7/29/2021	WNV
Merced	MERC201721	289	Cx. pipiens	Cressey	50	CO2	8/3/2021	WNV
Orange	ORCO1008	2585	Cx. quinquefasciatus	Fullerton	27	GRVD	8/3/2021	WNV
Orange	ORCO342	2629	Cx. quinquefasciatus	Fullerton	23	GRVD	8/3/2021	WNV
Placer	PLCR1113	1129	Cx. tarsalis	Roseville	50	CO2	8/3/2021	WNV
Placer	PLCR1113	1130	Cx. tarsalis	Roseville	37	CO2	8/3/2021	WNV
Placer	PLCR1114	1174	Cx. tarsalis	Sheridan	50	CO2	8/4/2021	WNV
Placer	PLCR1114	1176	Cx. tarsalis	Sheridan	50	CO2	8/4/2021	WNV
Placer	PLCR191218	1158	Cx. tarsalis	Roseville	50	CO2	8/4/2021	WNV
Placer	PLCR197802	1116	Cx. tarsalis	Roseville	50	CO2	8/3/2021	WNV
Placer	PLCR197802	1117	Cx. tarsalis	Roseville	50	CO2	8/3/2021	WNV
Placer	PLCR197802	1119	Cx. tarsalis	Roseville	50	CO2	8/3/2021	WNV
Placer	PLCR25	1151	Cx. tarsalis	Sheridan	50	CO2	8/3/2021	WNV
Placer	PLCR993822	1202	Cx. tarsalis	Roseville	39	CO2	8/5/2021	WNV
Riverside	COAV121	2790	Cx. tarsalis	Mecca	50	CO2	7/28/2021	WNV
Riverside	COAV122	2808	Cx. tarsalis	Mecca	26	CO2	7/28/2021	SLEV
Riverside	COAV123	2788	Cx. tarsalis	Mecca	50	CO2	7/28/2021	SLEV
Riverside	COAV123	2788	Cx. tarsalis	Mecca	50	CO2	7/28/2021	WNV
Riverside	COAV131	2890	Cx. tarsalis	Oasis	5	CO2	8/3/2021	WNV
Riverside	COAV33	2915	Cx. tarsalis	Oasis	24	CO2	8/3/2021	WNV
Riverside	COAV35	2913	Cx. tarsalis	Oasis	50	CO2	8/3/2021	WNV
Riverside	COAV35	2914	Cx. tarsalis	Oasis	50	CO2	8/3/2021	WNV
Riverside	COAV420	2795	Cx. quinquefasciatus	La Quinta	7	GRVD	7/28/2021	WNV
Riverside	COAV45	2792	Cx. tarsalis	Mecca	50	CO2	7/28/2021	SLEV
Riverside	COAV45	2793	Cx. tarsalis	Mecca	35	CO2	7/28/2021	WNV
Riverside	COAV46	2805	Cx. tarsalis	Mecca	34	CO2	7/28/2021	SLEV
Riverside	COAV55	2804	Cx. tarsalis	Mecca	12	CO2	7/28/2021	SLEV
Riverside	COAV55	2804	Cx. tarsalis	Mecca	12	CO2	7/28/2021	WNV
Riverside	COAV57	2802	Cx. tarsalis	North Shore	28	CO2	7/28/2021	WNV
Riverside	COAV611	2815	Cx. tarsalis	Oasis	50	CO2	7/28/2021	WNV
Riverside	COAV611	2816	Cx. tarsalis	Oasis	50	CO2	7/28/2021	WNV
Riverside	NWST165	79	Cx. quinquefasciatus	Riverside	47	BGSENT	7/28/2021	WNV
Sacramento	SAYO204020	3095	Cx. tarsalis	Foothill Farms	24	CO2	8/3/2021	WNV

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Sacramento	SAYO212033	3118	Cx. tarsalis	Sacramento	41	CO2	8/3/2021	WNV
Sacramento	SAYO214011	2945	Cx. tarsalis	Fair Oaks	6	CO2	7/30/2021	WNV
Sacramento	SAYO214056	2842	Cx. pipiens	Carmichael	29	GRVD	7/29/2021	WNV
Sacramento	SAYO243026	2960	Cx. pipiens	Elk Grove	37	CO2	7/30/2021	WNV
San Joaquin	SJCM2472	1303	Cx. tarsalis	Stockton	12	CO2	8/5/2021	WNV
San Joaquin	SJCM2526	1302	Cx. tarsalis	Stockton	5	CO2	8/5/2021	WNV
San Joaquin	SJCM8000	1271	Cx. pipiens	Manteca	37	CO2	8/3/2021	WNV
San Joaquin	SJCM8008	1243	Cx. tarsalis		50	CO2	8/3/2021	WNV
San Joaquin	SJCM8008	1245	Cx. pipiens		20	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1208	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1209	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1210	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1211	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1212	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1213	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1214	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1215	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1216	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8018	1217	Cx. tarsalis	Stockton	100	CO2	8/3/2021	WNV
San Joaquin	SJCM8027	1253	Cx. tarsalis	Stockton	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8029	1317	Cx. pipiens	Farmington	31	CO2	8/5/2021	WNV
San Joaquin	SJCM8111	1272	Cx. tarsalis	Stockton	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8111	1273	Cx. pipiens	Stockton	46	CO2	8/3/2021	WNV
San Joaquin	SJCM8111	1274	Cx. pipiens	Stockton	14	CO2	8/3/2021	WNV
San Joaquin	SJCM8199	1295	Cx. tarsalis	Manteca	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8199	1296	Cx. tarsalis	Manteca	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8199	1297	Cx. tarsalis	Manteca	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8199	1298	Cx. tarsalis	Manteca	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8199	1300	Cx. pipiens	Manteca	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8202	1250	Cx. pipiens	Tracy	7	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1226	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1227	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1228	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1229	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1230	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1231	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1232	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1233	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1234	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1235	Cx. tarsalis	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1236	Cx. tarsalis	Lodi	46	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1237	Cx. pipiens	Lodi	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8206	1238	Cx. pipiens	Lodi	21	CO2	8/3/2021	WNV
San Joaquin	SJCM8208	1318	Cx. tarsalis	Lockeford	50	CO2	8/5/2021	WNV
San Joaquin	SJCM8208	1319	Cx. tarsalis	Lockeford	50	CO2	8/5/2021	WNV
San Joaquin	SJCM8208	1320	Cx. tarsalis	Lockeford	50	CO2	8/5/2021	WNV
San Joaquin	SJCM8209	1313	Cx. pipiens	Lockeford	37	CO2	8/5/2021	WNV
San Joaquin	SJCM8219	1246	Cx. tarsalis	Stockton	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8228	1289	Cx. tarsalis	Escalon	11	CO2	8/3/2021	WNV
San Joaquin	SJCM8228	1290	Cx. tarsalis	Escalon	50	CO2	8/3/2021	WNV
San Joaquin	SJCM8235	1269	Cx. pipiens	Escalon	38	CO2	8/3/2021	WNV
Shasta	SHAS110	406	Cx. tarsalis	Redding	22	CO2	7/29/2021	WNV
Shasta	SHAS242	407	Cx. tarsalis	Cottonwood	15	CO2	7/29/2021	WNV
Shasta	SHAS346	417	Cx. tarsalis	Anderson	18	CO2	8/4/2021	WNV
Solano	SOLA100004	163	Cx. tarsalis	UC Davis	50	CO2	7/30/2021	WNV
Solano	SOLA100004	164	Cx. tarsalis	UC Davis	50	CO2	7/30/2021	WNV
Stanislaus	EAST1007	21190	Cx. tarsalis		50	CO2	7/27/2021	WNV
Stanislaus	EAST1009	21189	Cx. tarsalis	Ripon	14	CO2	7/27/2021	WNV
Stanislaus	EAST1046	21195	Cx. pipiens	Modesto	20	GRVD	7/28/2021	WNV

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Stanislaus	EAST2014	21188	Cx. pipiens	Modesto	13	CO2	7/27/2021	WNV
Stanislaus	EAST2023	21194	Cx. pipiens	Modesto	32	CO2	7/28/2021	WNV
Stanislaus	TRLK1310	560	Cx. pipiens	Hughson	10	CO2	8/3/2021	WNV
Stanislaus	TRLK17131	565	Cx. pipiens	Turlock	29	CO2	8/3/2021	WNV
Stanislaus	TRLK17152	542	Cx. pipiens	Denair	50	CO2	7/29/2021	WNV
Stanislaus	TRLK17152	544	Cx. pipiens	Denair	50	CO2	7/29/2021	WNV
Stanislaus	TRLK17152	588	Cx. pipiens	Denair	50	CO2	8/3/2021	WNV
Stanislaus	TRLK17152	590	Cx. pipiens	Denair	50	CO2	8/3/2021	WNV
Stanislaus	TRLK18181	599	Cx. pipiens	Hickman	15	CO2	8/3/2021	WNV
Stanislaus	TRLK1835	600	Cx. pipiens	Hickman	45	CO2	8/3/2021	WNV
Stanislaus	TRLK1904	566	Cx. pipiens	Turlock	19	CO2	8/3/2021	WNV
Stanislaus	TRLK1906	602	Cx. pipiens	Waterford	50	CO2	8/3/2021	WNV
Stanislaus	TRLK19164	549	Cx. pipiens	Denair	50	CO2	7/29/2021	WNV
Stanislaus	TRLK19164	550	Cx. pipiens	Denair	50	CO2	7/29/2021	WNV
Stanislaus	TRLK19164	551	Cx. pipiens	Denair	50	CO2	7/29/2021	WNV
Stanislaus	TRLK21135	533	Cx. pipiens	Turlock	50	CO2	7/29/2021	WNV
Stanislaus	TRLK432	570	Cx. pipiens	Turlock	50	CO2	8/3/2021	WNV
Stanislaus	TRLK432	572	Cx. pipiens	Turlock	50	CO2	8/3/2021	WNV
Stanislaus	TRLK432	573	Cx. tarsalis	Turlock	50	CO2	8/3/2021	WNV
Stanislaus	TRLK526	576	Cx. pipiens	Denair	50	CO2	8/3/2021	WNV
Stanislaus	TRLK526	579	Cx. pipiens	Denair	50	CO2	8/3/2021	WNV
Stanislaus	TRLK526	584	Cx. tarsalis	Denair	50	CO2	8/3/2021	WNV
Stanislaus	TRLK526	586	Cx. tarsalis	Denair	30	CO2	8/3/2021	WNV
Tulare	DLNO145	91	Cx. tarsalis	Earlimart	50	CO2	7/29/2021	WNV
Tulare	DLNO71	90	Cx. quinquefasciatus	Delano	50	CO2	7/29/2021	WNV
Tulare	DLNO96	86	Cx. quinquefasciatus	Earlimart	50	CO2	7/29/2021	WNV
Tulare	DLTA740813	1089	Cx. tarsalis	London	50	CO2	8/5/2021	WNV
Tulare	DLTA741443	1078	Cx. tarsalis	Monson	33	CO2	8/5/2021	WNV
Tulare	DLTA8413	1065	Cx. quinquefasciatus	Visalia	32	BGSENT	8/4/2021	WNV
Tulare	TLRE192412	157	Cx. quinquefasciatus	Visalia	22	GRVD	7/30/2021	WNV
Tulare	TLRE192434	126	Cx. quinquefasciatus	Tulare	32	GRVD	7/27/2021	WNV
Tulare	TLRE192435	127	Cx. quinquefasciatus	Tulare	50	GRVD	7/27/2021	WNV
Tulare	TLRE202401	139	Cx. quinquefasciatus	Tulare	22	GRVD	7/28/2021	WNV
Tulare	TLRE202409	137	Cx. quinquefasciatus	Tulare	50	GRVD	7/28/2021	WNV
Tulare	TLRE202410	136	Cx. quinquefasciatus	Tulare	50	GRVD	7/28/2021	WNV
Tulare	TLRE212531	149	Cx. quinquefasciatus	Tipton	50	GRVD	7/30/2021	WNV
Tulare	TLRE212531	150	Cx. quinquefasciatus	Tipton	50	GRVD	7/30/2021	WNV
Tulare	TLRE212634	147	Cx. quinquefasciatus	Poplar-Cotton Center	50	GRVD	7/30/2021	WNV
Tulare	TLRE222532	153	Cx. quinquefasciatus	Pixley	50	GRVD	7/30/2021	WNV
Yolo	SAYO115008	3076	Cx. tarsalis	Yolo	50	CO2	8/3/2021	WNV
Yolo	SAYO115008	3077	Cx. tarsalis	Yolo	50	CO2	8/3/2021	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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*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](mailto:Tina.Feiszli@cdph.ca.gov).*