

## California Arbovirus Surveillance Bulletin #20

Week 36 Friday, September 10, 2021



### Weekly Update

#### **Humans**

A total of 3 human cases of West Nile virus (WNV) illness were reported this week from 2 counties: Kings (1) and Los Angeles (2). **This is the first human WNV case reported from Kings County this year.** In 2021, a total of 35 WNV human cases have been reported from 15 counties. Of the 35 cases, 19 (54%) had neuroinvasive illness and 2 (5.7%) were fatal. The median age of the cases was 57 years, and 21 (60%) were male. Dates of symptom onset ranged from March 31 to August 17. In addition to the 35 cases, 11 asymptomatic WNV infections have been reported from Butte (1), Fresno (1), Kern (1), Kings (2), Los Angeles (2), Madera (1), Merced (1), San Bernardino (1), and San Joaquin (1) counties. At this time last year, 45 WNV cases had been reported from 11 counties.

#### **Dead Birds**

A total of 13 WNV positive dead birds were reported this week from 4 counties: Los Angeles (3), Sacramento (7), and Santa Clara (1), and Yolo (2). **This is the first positive dead bird reported from Santa Clara County this year.** In 2021, 173 WNV positive dead birds have been reported from 17 counties. At this time last year, 171 WNV positive dead birds had been reported from 17 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 231 WNV positive mosquito pools were reported this week from 17 counties: Butte (2), Contra Costa (2), Fresno (8), Kern (14), Los Angeles (10), Madera (12), Orange (8), Placer (7), Riverside (16), Sacramento (21), San Bernardino (1), San Joaquin (35), Santa Clara (2), Stanislaus (20), Sutter (1), Tulare (59), and Yolo (13). In 2021, 1,877 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,717 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 7 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 5 counties: Fresno (3), Madera (1), Riverside (1), Stanislaus (1), and Tulare (1). **This is the first detection of SLEV activity in Madera, Stanislaus, and Tulare counties this year.** In 2021, 26 SLEV positive mosquito pools have been reported from 6 counties: Fresno (4), Imperial (3), Madera (1), Riverside (16), Stanislaus (1), and Tulare (1). At this time last year, 300 SLEV positive mosquito pools had been reported from 8 counties.

#### **Sentinel Chickens**

A total of 18 WNV positive chickens were reported this week from 5 counties: Butte (5), Lake (1), Merced (5), Sutter (5), and Tehama (2). In 2021, 63 WNV positive chickens have been reported from 9 counties. At this time last year, 56 WNV positive chickens had been reported from 7 counties.

##### St. Louis encephalitis virus

**Two SLEV positive chickens were reported this week from Merced County; this is the first detection of SLEV activity in Merced County this year.** In 2021, 2 SLEV positive chickens have been reported from 1 county. At this time last year, no SLEV positive chickens had been reported.

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<b>YTD WNV Activity by Element and County, 2021</b>					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	10		2	79	24
Contra Costa			1	7	
Fresno	3	2		202	
Glenn	2				
Kern	2			95	
Kings	1	1		26	
Lake				2	3
Los Angeles	3		35	168	
Madera	1			123	
Merced	2	1	1	5	19
Nevada			1		
Orange				30	
Placer			3	62	
Riverside				97	
Sacramento		2	93	94	
San Bernardino			1	8	
San Joaquin	2	1	16	330	
San Luis Obispo	2				
Santa Clara			1	4	
Shasta	1			28	1
Solano	1		2	12	
Sonoma			1	1	
Stanislaus	3		2	133	
Sutter			1	18	8
Tehama					3
Tulare	1		7	301	3
Ventura			1		
Yolo	1		5	41	1
Yuba				11	1
<b>Totals</b>	<b>35</b>	<b>7</b>	<b>173</b>	<b>1,877</b>	<b>63</b>

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	4,024	4,146
# Positive Counties	30	29
# Human Cases	45	35
# Positive Dead Birds / # Tested	171 / 1,093	173 / 1,313
# Positive Mosquito Pools / # Tested	1,717 / 28, 880	1,877 / 28,002
# Seroconversions / # Tested	56 / 4,550	63 / 4,351

### TESTING SUMMARIES

#### Humans

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	3	0	0
	YTD	35	0	0

#### Dead Birds

		Number Tested	WNV Positive
<b>Dead Birds</b>	Week	43	13
	YTD	1,313	173

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
<b>Chicken Sera</b>	Week	247	18	2	0
	YTD	4,351	63	2	0

#### Mosquitoes

		Positive / Total Tested					
<b>Mosquito Pools</b>	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		231 / 2,039	7 / 2,039	0 / 1,858	0 / 74	0 / 74	0 / 74
		YTD	1,877 / 28,002	26 / 26,175	0 / 24,070	0 / 513	0 / 513

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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	9/8/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Glendora	91741	House Finch	9/1/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Sierra Madre	91024	Unknown - Crow or Raven	9/8/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Bluebird	9/1/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	9/7/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Mourning Dove	9/3/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95811	American Crow	8/31/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/2/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/2/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	9/3/2021	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	8/24/2021	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/2/2021	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Unknown - songbird	9/6/2021	WNV

#### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO123	370	Cx. tarsalis	Oroville	50	CO2	8/31/2021	WNV
Butte	BUCO38	364	Cx. tarsalis	Oroville	50	CO2	8/30/2021	WNV
Contra Costa	CNTR8152	1612	Cx. tarsalis	Knightsen	50	CO2	9/8/2021	WNV
Contra Costa	CNTR8302	1596	Cx. tarsalis	Knightsen	50	CO2	9/8/2021	WNV
Fresno	CNSL5125	723	Cx. quinquefasciatus	Laton	13	GRVD	8/31/2021	WNV
Fresno	CNSL6170	313	Cx. quinquefasciatus	Laton	50	GRVD	9/2/2021	WNV
Fresno	CNSL9128	314	Cx. quinquefasciatus	Clovis	49	GRVD	9/2/2021	WNV
Fresno	FRWS300031	300	Cx. tarsalis	Firebaugh	50	CO2	9/8/2021	WNV
Fresno	FRWS300031	301	Cx. tarsalis	Firebaugh	50	CO2	9/8/2021	WNV
Fresno	FRWS400017	296	Cx. tarsalis	Mendota	50	CO2	9/8/2021	WNV
Fresno	FRWS4102	294	Cx. tarsalis	Kerman	50	CO2	9/8/2021	WNV
Fresno	FRWS5101	283	Cx. tarsalis	Mendota	50	CO2	9/8/2021	SLEV
Fresno	FRWS5101	284	Cx. tarsalis	Mendota	50	CO2	9/8/2021	SLEV
Fresno	FRWS5302	282	Cx. tarsalis	Helm	32	CO2	9/8/2021	SLEV
Fresno	FRWS5302	282	Cx. tarsalis	Helm	32	CO2	9/8/2021	WNV
Kern	DLNO105	121	Cx. quinquefasciatus	Delano	50	GRVD	8/24/2021	WNV
Kern	DLNO111	129	Cx. quinquefasciatus	Delano	19	GRVD	8/27/2021	WNV
Kern	DLNO114	125	Cx. quinquefasciatus	Delano	50	BGSENT	8/25/2021	WNV
Kern	DLNO115	138	Cx. quinquefasciatus	Delano	35	GRVD	8/31/2021	WNV
Kern	DLNO118	120	Cx. quinquefasciatus	Delano	50	GRVD	8/24/2021	WNV
Kern	DLNO135	132	Cx. quinquefasciatus	Delano	25	GRVD	8/27/2021	WNV
Kern	DLNO141	135	Cx. quinquefasciatus	McFarland	37	GRVD	8/27/2021	WNV
Kern	DLNO158	131	Cx. quinquefasciatus	McFarland	18	GRVD	8/27/2021	WNV
Kern	KERN12	411	Cx. quinquefasciatus	Bakersfield	40	GRVD	9/2/2021	WNV
Kern	KERN121	410	Cx. quinquefasciatus	Bakersfield	38	GRVD	9/1/2021	WNV
Kern	KERN2023	402	Cx. quinquefasciatus	Bakersfield	19	CO2	8/31/2021	WNV
Kern	KERN3029	408	Cx. tarsalis	Buttonwillow	45	CO2	8/31/2021	WNV

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Kern	KERN3030	403	Cx. quinquefasciatus	Shafter	30	CO2	8/31/2021	WNV
Kern	KERN3030	404	Cx. tarsalis	Shafter	30	CO2	8/31/2021	WNV
Los Angeles	GRLA3042	589	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	9/2/2021	WNV
Los Angeles	GRLA3086	5642	Cx. quinquefasciatus	Highland Park	50	GRVD	9/2/2021	WNV
Los Angeles	GRLA3089	5645	Cx. quinquefasciatus	Glendale, CA	50	GRVD	9/2/2021	WNV
Los Angeles	SGVA1066	895	Cx. quinquefasciatus	Pomona	50	GRVD	9/8/2021	WNV
Los Angeles	SGVA1069	898	Cx. quinquefasciatus	La Puente	50	GRVD	9/8/2021	WNV
Los Angeles	SGVA313	906	Cx. quinquefasciatus	Pasadena	43	GRVD	9/8/2021	WNV
Los Angeles	SGVA34	910	Cx. quinquefasciatus	Arcadia	46	GRVD	9/8/2021	WNV
Los Angeles	SGVA451	892	Cx. quinquefasciatus	Glendora	21	GRVD	9/8/2021	WNV
Los Angeles	SGVA64	896	Cx. quinquefasciatus	West Covina	50	GRVD	9/8/2021	WNV
Los Angeles	SGVA956	901	Cx. quinquefasciatus	Walnut	50	GRVD	9/8/2021	WNV
Madera	MADR189	413	Cx. tarsalis	Madera	50	CO2	9/1/2021	SLEV
Madera	MADR195	410	Cx. quinquefasciatus	Madera	50	CO2	8/31/2021	WNV
Madera	MADR195	411	Cx. tarsalis	Madera	50	CO2	8/31/2021	WNV
Madera	MADR198	400	Cx. tarsalis	Madera	39	CO2	8/31/2021	WNV
Madera	MADR208	428	Cx. quinquefasciatus	Madera	50	CO2	9/2/2021	WNV
Madera	MADR299	404	Cx. quinquefasciatus	Chowchilla	50	CO2	8/31/2021	WNV
Madera	MADR300	406	Cx. quinquefasciatus	Chowchilla	50	CO2	8/31/2021	WNV
Madera	MADR3334	422	Cx. tarsalis	Madera	50	CO2	9/2/2021	WNV
Madera	MADR3334	424	Cx. quinquefasciatus	Madera	29	CO2	9/2/2021	WNV
Madera	MADR3334	425	Cx. tarsalis	Madera	44	CO2	9/2/2021	WNV
Madera	MADR688	431	Cx. tarsalis	Madera	18	CO2	9/3/2021	WNV
Madera	MADR692	434	Cx. quinquefasciatus	Madera	16	CO2	9/3/2021	WNV
Madera	MADR692	435	Cx. tarsalis	Madera	22	CO2	9/3/2021	WNV
Orange	ORCO1008	3590	Cx. quinquefasciatus	Fullerton	45	GRVD	9/8/2021	WNV
Orange	ORCO1008	3662	Cx. quinquefasciatus	Fullerton	35	GRVD	9/8/2021	WNV
Orange	ORCO1008	3663	Cx. quinquefasciatus	Fullerton	39	GRVD	9/8/2021	WNV
Orange	ORCO1008	3667	Cx. quinquefasciatus	Fullerton	37	GRVD	9/8/2021	WNV
Orange	ORCO321	3622	Cx. quinquefasciatus	Anaheim	47	GRVD	9/8/2021	WNV
Orange	ORCO323	3675	Cx. quinquefasciatus	Buena Park	50	GRVD	9/8/2021	WNV
Orange	ORCO324	3671	Cx. quinquefasciatus	Los Alamitos	26	GRVD	9/8/2021	WNV
Orange	ORCO6	3713	Cx. quinquefasciatus	Irvine	14	GRVD	9/8/2021	WNV
Placer	PLCR1114	1648	Cx. tarsalis	Lincoln	50	CO2	9/8/2021	WNV
Placer	PLCR191218	1630	Cx. tarsalis	Roseville	50	CO2	9/8/2021	WNV
Placer	PLCR191218	1632	Cx. tarsalis	Roseville	24	CO2	9/8/2021	WNV
Placer	PLCR191998	1654	Cx. tarsalis	Lincoln	36	CO2	9/8/2021	WNV
Placer	PLCR197802	1659	Cx. tarsalis	Elverta	21	CO2	9/8/2021	WNV
Placer	PLCR30	1635	Cx. pipiens	Lincoln	50	CO2	9/8/2021	WNV
Placer	PLCR88	1591	Cx. stigmatosoma	Lincoln	2	CO2	9/2/2021	WNV
Riverside	COAV121	3695	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV121	3796	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV122	3711	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV122	3712	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV122	3713	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV122	3714	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV122	3790	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV123	3832	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV123	3835	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV45	3798	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV45	3802	Cx. tarsalis	Mecca	50	CO2	9/8/2021	SLEV
Riverside	COAV48	3705	Cx. tarsalis	Mecca	50	CO2	9/3/2021	WNV
Riverside	COAV48	3825	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Riverside	COAV5	3753	Cx. tarsalis	Oasis	50	CO2	9/8/2021	WNV

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Riverside	COAV51	3818	Cx. tarsalis	North Shore	18	CO2	9/8/2021	WNV
Riverside	COAV54	3787	Cx. tarsalis	North Shore	16	CO2	9/8/2021	WNV
Riverside	COAV540	3812	Cx. tarsalis	Mecca	50	CO2	9/8/2021	WNV
Sacramento	SAYO202006	5291	Cx. tarsalis	Sacramento	25	GRVD	9/8/2021	WNV
Sacramento	SAYO204009	4391	Cx. pipiens	Citrus Heights	4	GRVD	8/27/2021	WNV
Sacramento	SAYO213010	4424	Cx. pipiens	Sacramento	6	CO2	8/27/2021	WNV
Sacramento	SAYO222065	5143	Cx. tarsalis	Sacramento	7	GRVD	9/8/2021	WNV
Sacramento	SAYO223006	5181	Cx. tarsalis	South Watt Avenue	22	CO2	9/8/2021	WNV
Sacramento	SAYO232012	2985	Cx. pipiens	Elk Grove	11	CO2	8/3/2021	WNV
Sacramento	SAYO233001	3001	Cx. pipiens	Elk Grove	7	CO2	8/3/2021	WNV
Sacramento	SAYO233009	5170	Cx. pipiens	Elk Grove	28	CO2	9/8/2021	WNV
Sacramento	SAYO234013	5156	Cx. tarsalis	Elk Grove	5	CO2	9/8/2021	WNV
Sacramento	SAYO242003	5104	Cx. tarsalis	Elk Grove	21	CO2	9/3/2021	WNV
Sacramento	SAYO245002	4980	Cx. pipiens	Wilton	1	GRVD	9/3/2021	WNV
Sacramento	SAYO254008	4917	Cx. pipiens	Galt	50	CO2	9/3/2021	WNV
Sacramento	SAYO254020	5108	Cx. tarsalis	Galt	10	CO2	9/3/2021	WNV
Sacramento	SAYO254022	4468	Cx. pipiens	Galt	50	CO2	8/27/2021	WNV
Sacramento	SAYO254022	4470	Cx. tarsalis	Galt	33	CO2	8/27/2021	WNV
Sacramento	SAYO254022	4986	Cx. pipiens	Galt	50	CO2	9/3/2021	WNV
Sacramento	SAYO254029	4956	Cx. pipiens	Galt	26	CO2	9/3/2021	WNV
Sacramento	SAYO255007	4417	Cx. pipiens	Herald	50	CO2	8/27/2021	WNV
Sacramento	SAYO255007	4419	Cx. tarsalis	Herald	50	CO2	8/27/2021	WNV
Sacramento	SAYO255007	4420	Cx. tarsalis	Herald	38	CO2	8/27/2021	WNV
Sacramento	SAYO391046	4890	Cx. pipiens	Rancho Cordova	40	BGSENT	9/2/2021	WNV
San Bernardino	WVAL5005	1252	Cx. quinquefasciatus	Rancho Cucamonga	15	GRVD	9/8/2021	WNV
San Joaquin	SJCM8004	1830	Cx. tarsalis	Lodi	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8004	1831	Cx. tarsalis	Lodi	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8004	1833	Cx. pipiens	Lodi	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8027	1843	Cx. tarsalis	Stockton	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8027	1845	Cx. tarsalis	Stockton	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8027	1847	Cx. pipiens	Stockton	34	CO2	9/8/2021	WNV
San Joaquin	SJCM8029	1969	Cx. tarsalis	Farmington	5	CO2	9/10/2021	WNV
San Joaquin	SJCM8029	1970	Cx. pipiens	Farmington	5	CO2	9/10/2021	WNV
San Joaquin	SJCM8039	1837	Cx. tarsalis	Lodi	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8039	1839	Cx. pipiens	Lodi	28	CO2	9/8/2021	WNV
San Joaquin	SJCM8106	1964	Cx. pipiens	Escalon	16	CO2	9/10/2021	WNV
San Joaquin	SJCM8160	1840	Cx. tarsalis	Lodi	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8160	1841	Cx. tarsalis	Lodi	43	CO2	9/8/2021	WNV
San Joaquin	SJCM8199	1931	Cx. tarsalis	Manteca	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8199	1936	Cx. pipiens	Manteca	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8200	1953	Cx. tarsalis	Lodi	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8200	1954	Cx. tarsalis	Lodi	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8200	1955	Cx. tarsalis	Lodi	23	CO2	9/10/2021	WNV
San Joaquin	SJCM8200	1956	Cx. pipiens	Lodi	5	CO2	9/10/2021	WNV
San Joaquin	SJCM8208	1959	Cx. tarsalis	Lodi	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8208	1960	Cx. tarsalis	Lodi	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8208	1961	Cx. tarsalis	Lodi	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8208	1962	Cx. tarsalis	Lodi	52	CO2	9/10/2021	WNV
San Joaquin	SJCM8208	1963	Cx. pipiens	Lodi	31	CO2	9/10/2021	WNV
San Joaquin	SJCM8209	1957	Cx. tarsalis	Lodi	22	CO2	9/10/2021	WNV
San Joaquin	SJCM8209	1958	Cx. pipiens	Lodi	46	CO2	9/10/2021	WNV
San Joaquin	SJCM8210	1974	Cx. pipiens	Escalon	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8219	1910	Cx. tarsalis	Stockton	50	CO2	9/8/2021	WNV
San Joaquin	SJCM8228	1981	Cx. tarsalis	Escalon	50	CO2	9/10/2021	WNV



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San Joaquin	SJCM8228	1982	Cx. tarsalis	Escalon	49	CO2	9/10/2021	WNV
San Joaquin	SJCM8228	1983	Cx. pipiens	Escalon	15	CO2	9/10/2021	WNV
San Joaquin	SJCM8235	1965	Cx. tarsalis	Escalon	27	CO2	9/10/2021	WNV
San Joaquin	SJCM8235	1966	Cx. pipiens	Escalon	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8235	1967	Cx. pipiens	Escalon	50	CO2	9/10/2021	WNV
San Joaquin	SJCM8235	1968	Cx. pipiens	Escalon	26	CO2	9/10/2021	WNV
Santa Clara	STCL31726	3991	Cx. tarsalis	Sunnyvale	2	CO2	8/25/2021	WNV
Santa Clara	STCL32124	3967	Cx. tarsalis	Palo Alto	1	GRVD	8/18/2021	WNV
Stanislaus	EAST2014	21279	Cx. pipiens	Modesto	7	CO2	8/31/2021	WNV
Stanislaus	EAST2014	21280	Cx. tarsalis	Modesto	2	CO2	8/31/2021	WNV
Stanislaus	EAST2014	21281	Cx. pipiens	Modesto	24	GRVD	8/31/2021	WNV
Stanislaus	EAST2014	21282	Cx. pipiens	Modesto	11	GRVD	8/31/2021	WNV
Stanislaus	EAST2014	21283	Cx. pipiens	Modesto	50	GRVD	8/31/2021	WNV
Stanislaus	EAST2016	21301	Cx. pipiens	Oakdale	47	GRVD	9/2/2021	WNV
Stanislaus	EAST2021	21292	Cx. pipiens	Modesto	45	GRVD	8/31/2021	WNV
Stanislaus	EAST2022	21303	Cx. pipiens	Modesto	15	GRVD	9/2/2021	WNV
Stanislaus	EAST2027	21298	Cx. tarsalis	Modesto	1	GRVD	9/2/2021	WNV
Stanislaus	TRLK1615	873	Cx. tarsalis	Modesto	50	CO2	9/8/2021	WNV
Stanislaus	TRLK1616	869	Cx. pipiens	Modesto	50	CO2	9/8/2021	WNV
Stanislaus	TRLK1673	877	Cx. tarsalis	Patterson	50	CO2	9/8/2021	WNV
Stanislaus	TRLK19109	927	Cx. pipiens	Modesto	50	CO2	9/8/2021	WNV
Stanislaus	TRLK2	919	Cx. tarsalis	Vernalis	15	CO2	9/8/2021	WNV
Stanislaus	TRLK21212	846	Cx. pipiens	Turlock	50	CO2	9/2/2021	SLEV
Stanislaus	TRLK2194	930	Cx. pipiens	Ceres	50	CO2	9/8/2021	WNV
Stanislaus	TRLK2194	937	Cx. tarsalis	Ceres	50	CO2	9/8/2021	WNV
Stanislaus	TRLK312	901	Cx. tarsalis	Newman	50	CO2	9/8/2021	WNV
Stanislaus	TRLK312	902	Cx. pipiens	Newman	11	CO2	9/8/2021	WNV
Stanislaus	TRLK319	887	Cx. tarsalis	Newman	50	CO2	9/8/2021	WNV
Stanislaus	TRLK806	865	Cx. pipiens	Grayson	47	CO2	9/8/2021	WNV
Sutter	SUYA14	380	Cx. tarsalis	Sutter	38	REST	9/7/2021	WNV
Tulare	DLNO10	139	Cx. quinquefasciatus	Earlimart	15	GRVD	8/31/2021	WNV
Tulare	DLNO92	122	Cx. quinquefasciatus	Earlimart	32	GRVD	8/24/2021	WNV
Tulare	DLTA6407	1871	Cx. quinquefasciatus	Dinuba	19	GRVD	9/8/2021	WNV
Tulare	DLTA6408	1645	Cx. quinquefasciatus	Dinuba	11	GRVD	9/1/2021	WNV
Tulare	DLTA6420	1686	Cx. quinquefasciatus	Dinuba	18	BGSENT	9/3/2021	WNV
Tulare	DLTA751732	1776	Cx. quinquefasciatus	Tulare	50	CO2	9/8/2021	WNV
Tulare	DLTA751941	1745	Cx. quinquefasciatus	Tulare	50	CO2	9/8/2021	WNV
Tulare	DLTA752032	1878	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/8/2021	WNV
Tulare	DLTA752032	1896	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/8/2021	SLEV
Tulare	DLTA752032	1920	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/8/2021	WNV
Tulare	DLTA752032	1922	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/8/2021	WNV
Tulare	DLTA752842	1833	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/8/2021	WNV
Tulare	DLTA752842	1841	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/8/2021	WNV
Tulare	DLTA841423	1985	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841423	1986	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841423	1988	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841423	1996	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841543	1943	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841543	1950	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841543	1960	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841543	1964	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1969	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1973	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1974	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV

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Tulare	DLTA841642	1975	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1976	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1979	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1980	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA841642	1982	Cx. tarsalis	Visalia	43	CO2	9/9/2021	WNV
Tulare	DLTA94031	1692	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1702	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1703	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1707	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1712	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1716	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1723	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1725	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1727	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1728	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1729	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2021	WNV
Tulare	DLTA94031	1862	Cx. quinquefasciatus	Visalia	50	BGSENT	9/8/2021	WNV
Tulare	DLTA94031	1863	Cx. quinquefasciatus	Visalia	50	BGSENT	9/8/2021	WNV
Tulare	DLTA94031	1866	Cx. tarsalis	Visalia	10	BGSENT	9/8/2021	WNV
Tulare	DLTA94031	2014	Cx. quinquefasciatus	Visalia	50	BGSENT	9/9/2021	WNV
Tulare	DLTA961233	1664	Cx. quinquefasciatus	Exeter	50	CO2	9/2/2021	WNV
Tulare	DLTA961233	1666	Cx. quinquefasciatus	Exeter	50	CO2	9/2/2021	WNV
Tulare	DLTA961314	1661	Cx. quinquefasciatus	Exeter	48	CO2	9/2/2021	WNV
Tulare	TLRE192436	242	Cx. quinquefasciatus	Tulare	50	GRVD	8/24/2021	WNV
Tulare	TLRE192436	272	Cx. quinquefasciatus	Tulare	50	GRVD	9/1/2021	WNV
Tulare	TLRE192507	266	Cx. quinquefasciatus	Visalia	50	GRVD	8/31/2021	WNV
Tulare	TLRE192508	268	Cx. quinquefasciatus	Visalia	50	GRVD	8/31/2021	WNV
Tulare	TLRE192517	264	Cx. quinquefasciatus	Trulare	50	GRVD	8/31/2021	WNV
Tulare	TLRE202401	275	Cx. quinquefasciatus	Tulare	50	GRVD	9/2/2021	WNV
Tulare	TLRE202402	245	Cx. quinquefasciatus	Tulare	47	GRVD	8/24/2021	WNV
Tulare	TLRE202402	246	Cx. quinquefasciatus	Tulare	50	GRVD	8/24/2021	WNV
Tulare	TLRE202415	277	Cx. quinquefasciatus	Tulare	50	GRVD	9/2/2021	WNV
Tulare	TLRE202518	258	Cx. quinquefasciatus	Tulare	50	GRVD	8/26/2021	WNV
Tulare	TLRE212634	250	Cx. quinquefasciatus	Poplar	50	GRVD	8/25/2021	WNV
Tulare	TLRE222532	255	Cx. quinquefasciatus	Pixley	50	GRVD	8/25/2021	WNV
Tulare	TLRE232333	256	Cx. quinquefasciatus	Alpaugh	50	GRVD	8/25/2021	WNV
Yolo	SAYO103007	3014	Cx. tarsalis	Dunnigan	50	CO2	8/3/2021	WNV
Yolo	SAYO114002	5233	Cx. tarsalis	Zamora	50	CO2	9/8/2021	WNV
Yolo	SAYO114006	5283	Cx. tarsalis	Zamora	50	CO2	9/8/2021	WNV
Yolo	SAYO115008	5330	Cx. tarsalis	Woodland	50	CO2	9/8/2021	WNV
Yolo	SAYO115008	5332	Cx. tarsalis	Woodland	50	CO2	9/8/2021	WNV
Yolo	SAYO115008	5333	Cx. tarsalis	Woodland	50	CO2	9/8/2021	WNV
Yolo	SAYO116002	5257	Cx. tarsalis	Knights Landing	50	CO2	9/8/2021	WNV
Yolo	SAYO135006	4477	Cx. tarsalis	Woodland	37	CO2	8/27/2021	WNV
Yolo	SAYO135016	5065	Cx. tarsalis	Woodland	24	CO2	9/3/2021	WNV
Yolo	SAYO145005	5213	Cx. tarsalis	Davis	50	CO2	9/8/2021	WNV
Yolo	SAYO145005	5218	Cx. pipiens	Davis	1	GRVD	9/8/2021	WNV
Yolo	SAYO145016	5189	Cx. pipiens	Davis	14	CO2	9/8/2021	WNV
Yolo	SAYO146002	5239	Cx. tarsalis	Davis	50	CO2	9/8/2021	WNV



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### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0001	Chico	8/31/2021	WNV	2541	2584	
Butte	BUCO0002	Oroville	8/31/2021	WNV	2542	2579	
Butte	BUCO0005	Honcut	8/31/2021	WNV	2564		
Lake	LAKE1000	Upper Lake	8/31/2021	WNV	1111		
Merced	MERC1302	Los Banos	9/2/2021	SLEV	1431		
Merced	MERC1302	Los Banos	9/2/2021	WNV	1433	1436	
Merced	MERC0502	Hilmar	9/2/2021	SLEV	1440		
Merced	MERC0006	Merced	9/2/2021	WNV	1401	1404	1405
Sutter	SUYA0014	Sutter	9/2/2021	WNV	1632	1633	1634
Sutter	SUYA0015	Robbins	9/2/2021	WNV	1645		
Sutter	SUYA0030	Live Oak	9/2/2021	WNV	1623		
Tehama	TEHA0001	Red Bluff	8/31/2021	WNV	1680	1684	

## 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.

*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/arnonet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arnonet/maps/ADB_Diseases_Map/index.html)

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