

## California Arbovirus Surveillance Bulletin #18

Week 34 Friday, August 27, 2021



### Weekly Update

#### **Humans**

A total of 7 human cases of West Nile virus (WNV) illness were reported this week from 6 counties: Butte (2), Fresno (1), Glenn (1), Kern (1), Merced (1), and Solano (1). **These are the first human WNV cases reported from Glenn and Solano counties this year.** In 2021, a total of 26 WNV human cases have been reported from 12 counties. Of the 26 cases, 13 (50%) had neuroinvasive illness and 2 (7.7%) were fatal. The median age of the cases was 56 years, and 15 (58%) were male. Dates of symptom onset ranged from March 31 to August 9. In addition to the 26 cases, 5 asymptomatic WNV infections have been reported from Butte (1), Kern (1), Kings (2), and San Bernardino (1) counties. At this time last year, 27 WNV cases had been reported from 7 counties.

#### **Dead Birds**

A total of 24 WNV positive dead birds were reported this week from 8 counties: Butte (2), Contra Costa (1), Los Angeles (6), Sacramento (10), Solano (2), Stanislaus (1), Ventura (1), and Yolo (1). **This is the first detection of WNV activity in Ventura County and the first positive birds reported from Butte, Contra Costa, and Solano counties this year.** In 2021, 155 WNV positive dead birds have been reported from 16 counties. At this time last year, 124 WNV positive dead birds had been reported from 17 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 229 WNV positive mosquito pools were reported this week from 18 counties: Butte (7), Fresno (13), Kern (8), Kings (17), Los Angeles (13), Madera (12), Merced (2), Orange (8), Riverside (9), Sacramento (11), San Bernardino (1), San Joaquin (55), Shasta (5), Solano (1), Stanislaus (9), Sutter (1), Tulare (45), and Yolo (12). In 2021, 1,482 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,114 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 3 mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from Riverside County. In 2021, 19 SLEV positive mosquito pools have been reported from Fresno (1), Imperial (3), and Riverside (15) counties. At this time last year, 238 SLEV positive mosquito pools had been reported from 8 counties.

#### **Sentinel Chickens**

A total of 12 WNV positive chickens were reported this week from 5 counties: Butte (4), Lake (1), Merced (5), Yolo (1), and Yuba (1). **These are the first WNV positive chickens reported from Yolo and Yuba counties this year.** In 2021, 43 WNV positive chickens have been reported from 9 counties. At this time last year, 40 WNV positive chickens had been reported from 6 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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<b>YTD WNV Activity by Element and County, 2021</b>					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	8		2	76	19
Contra Costa			1	4	
Fresno	3	2		187	
Glenn	1				
Kern	2			77	
Kings				26	
Lake				2	2
Los Angeles	1		29	129	
Madera				106	
Merced	2	1	1	5	14
Nevada			1		
Orange				15	
Placer			3	51	
Riverside				74	
Sacramento		1	85	59	
San Bernardino			1	7	
San Joaquin	1		15	266	
San Luis Obispo	2				
Santa Clara				2	
Shasta	1			25	1
Solano	1		2	8	
Sonoma			1	1	
Stanislaus	3		2	86	
Sutter			1	16	3
Tehama					1
Tulare	1		7	227	1
Ventura			1		
Yolo			3	22	1
Yuba				11	1
<b>Totals</b>	<b>26</b>	<b>4</b>	<b>155</b>	<b>1,482</b>	<b>43</b>

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	3,639	3,930
# Positive Counties	29	29
# Human Cases	27	26
# Positive Dead Birds / # Tested	124 / 990	155 / 1,229
# Positive Mosquito Pools / # Tested	1,114 / 25,477	1,482 / 24,658
# Seroconversions / # Tested	40 / 4,167	43 / 3,909

### TESTING SUMMARIES

#### Humans

		WNV	SLEV	WEEV
Human Cases	Week	7	0	0
	YTD	26	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	73	24
	YTD	1,229	155

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	219	12	0	0
	YTD	3,909	43	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	229 / 1,768	3 / 1,521	0 / 1,382	0 / 0	0 / 0	0 / 0
	YTD	1,482 / 24,658	19 / 22,876	0 / 21,114	0 / 380	0 / 380	0 / 380

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95973	American Crow	8/22/2021	WNV
Butte	Butte Co MVCD	Oroville	95965	American Robin	8/18/2021	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	California Scrub-Jay	8/21/2021	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	8/3/2021	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90715	American Crow	8/19/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91724	American Crow	8/18/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91724	Unknown - Crow or Raven	8/19/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91724	Unknown - Crow or Raven	8/25/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Duarte	91010	American Crow	8/25/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Bluebird	8/18/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	California Scrub-Jay	8/21/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	8/21/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Mourning Dove	8/19/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Mourning Dove	8/19/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	8/20/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	8/20/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	California Scrub-Jay	8/22/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	Mourning Dove	8/23/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	House Finch	8/20/2021	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/15/2021	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/24/2021	WNV
Stanislaus	Turlock MAD	Newman	95360	Unknown - Crow or Raven	8/23/2021	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Kestrel	8/14/2021	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/22/2021	WNV

#### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO147	335	Cx. tarsalis	Gridley	21	CO2	8/16/2021	WNV
Butte	BUCO31	348	Cx. tarsalis	Oroville	50	CO2	8/17/2021	WNV
Butte	BUCO36	340	Cx. tarsalis	Gridley	50	CO2	8/17/2021	WNV
Butte	BUCO36	341	Cx. tarsalis	Gridley	50	CO2	8/17/2021	WNV
Butte	BUCO36	342	Cx. tarsalis	Gridley	50	CO2	8/17/2021	WNV
Butte	BUCO91	345	Cx. tarsalis	Biggs	50	CO2	8/18/2021	WNV
Butte	BUCO91	346	Cx. tarsalis	Biggs	50	CO2	8/18/2021	WNV
Fresno	CNSL2044	718	Cx. quinquefasciatus	Clovis	41	GRVD	8/18/2021	WNV
Fresno	CNSL8171	724	Cx. quinquefasciatus	Clovis	16	GRVD	8/20/2021	WNV
Fresno	FRNO10	457	Cx. tarsalis	Fresno	50	CO2	8/24/2021	WNV
Fresno	FRNO116	465	Cx. quinquefasciatus	Fresno	35	GRVD	8/25/2021	WNV
Fresno	FRNO15	456	Cx. quinquefasciatus	Fresno	43	GRVD	8/25/2021	WNV
Fresno	FRNO178	447	Cx. quinquefasciatus	Fresno	19	GRVD	8/19/2021	WNV
Fresno	FRNO197	455	Cx. quinquefasciatus	Fresno	9	GRVD	8/25/2021	WNV
Fresno	FRNO275	461	Cx. quinquefasciatus	Fresno	36	GRVD	8/25/2021	WNV
Fresno	FRNO275	468	Cx. tarsalis	Fresno	14	BGSENT	8/25/2021	WNV
Fresno	FRWS100006	256	Cx. tarsalis	Dos Palos	50	CO2	8/24/2021	WNV
Fresno	FRWS1202	264	Cx. tarsalis	Dos Palos	50	CO2	8/24/2021	WNV
Fresno	FRWS5101	245	Cx. tarsalis	Mendota	50	CO2	8/24/2021	WNV
Fresno	FRWS5302	248	Cx. tarsalis	Helm	46	CO2	8/24/2021	WNV

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Kern	DLNO108	115	Cx. quinquefasciatus	Delano	24	GRVD	8/17/2021	WNV
Kern	DLNO27	118	Cx. tarsalis	Wasco	50	CO2	8/19/2021	WNV
Kern	KERN111	385	Cx. quinquefasciatus	Arvin	31	CO2	8/17/2021	WNV
Kern	KERN111	386	Cx. tarsalis	Arvin	50	CO2	8/17/2021	WNV
Kern	KERN27	387	Cx. tarsalis	Wasco	21	CO2	8/17/2021	WNV
Kern	KERN3023	388	Cx. tarsalis	Wasco	29	CO2	8/17/2021	WNV
Kern	KERN31	382	Cx. tarsalis	Arvin	50	CO2	8/17/2021	WNV
Kern	KERN91	389	Cx. tarsalis	Lost Hills	50	CO2	8/17/2021	WNV
Kings	KNGS3020	134	Cx. tarsalis	Corcoran	50	CO2	8/12/2021	WNV
Kings	KNGS3020	135	Cx. tarsalis	Corcoran	50	CO2	8/12/2021	WNV
Kings	KNGS3020	136	Cx. tarsalis	Corcoran	50	CO2	8/12/2021	WNV
Kings	KNGS3022	139	Cx. tarsalis	Hanford	50	CO2	8/12/2021	WNV
Kings	KNGS3022	140	Cx. tarsalis	Hanford	45	CO2	8/12/2021	WNV
Kings	KNGS3028	142	Cx. tarsalis	Hanford	26	BGSENT	8/13/2021	WNV
Kings	KNGS3033	141	Cx. tarsalis	Hanford	45	CO2	8/12/2021	WNV
Kings	KNGS3079	127	Cx. tarsalis	Lemoore	23	CO2	8/11/2021	WNV
Kings	KNGS3098	117	Cx. tarsalis	Hardwick	40	CO2	8/10/2021	WNV
Kings	KNGS3100	143	Cx. tarsalis	Hanford	42	CO2	8/13/2021	WNV
Kings	KNGS3131	121	Cx. tarsalis	Stratford	50	CO2	8/11/2021	WNV
Kings	KNGS3131	122	Cx. tarsalis	Stratford	50	CO2	8/11/2021	WNV
Kings	KNGS3131	124	Cx. tarsalis	Stratford	50	CO2	8/11/2021	WNV
Kings	KNGS4409	132	Cx. pipiens	Lemoore	50	BGSENT	8/12/2021	WNV
Kings	KNGS5508	120	Cx. pipiens	Hanford	12	BGSENT	8/11/2021	WNV
Kings	KNGS5519	118	Cx. tarsalis	Hanford	24	BGSENT	8/10/2021	WNV
Kings	KNGS5519	119	Cx. pipiens	Hanford	50	BGSENT	8/10/2021	WNV
Los Angeles	GRLA2194	525	Cx. quinquefasciatus	South El Monte	50	GRVD	8/18/2021	WNV
Los Angeles	GRLA2383	534	Cx. quinquefasciatus	Whittier	48	GRVD	8/18/2021	WNV
Los Angeles	GRLA2592	5571	Cx. quinquefasciatus	San Marino	50	GRVD	8/17/2021	WNV
Los Angeles	GRLA2615	5600	Cx. quinquefasciatus	Santa Clarita	12	GRVD	8/20/2021	WNV
Los Angeles	GRLA2637	5585	Cx. quinquefasciatus	Van Nuys	30	GRVD	8/18/2021	WNV
Los Angeles	GRLA3042	527	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	8/18/2021	WNV
Los Angeles	GRLA3045	533	Cx. quinquefasciatus	Whittier	50	GRVD	8/18/2021	WNV
Los Angeles	SGVA1069	833	Cx. quinquefasciatus	La Puente	50	GRVD	8/24/2021	WNV
Los Angeles	SGVA398	852	Cx. quinquefasciatus	Pasadena	50	GRVD	8/25/2021	WNV
Los Angeles	SGVA448	828	Cx. quinquefasciatus	La Verne	50	GRVD	8/24/2021	WNV
Los Angeles	SGVA509	831	Cx. quinquefasciatus	Glendora	50	GRVD	8/24/2021	WNV
Los Angeles	SGVA961	841	Cx. quinquefasciatus	Alhambra	50	GRVD	8/24/2021	WNV
Los Angeles	SGVA967	848	Cx. quinquefasciatus	Temple City	50	GRVD	8/24/2021	WNV
Madera	MADR12	331	Cx. tarsalis	Madera	50	CO2	8/17/2021	WNV
Madera	MADR192	333	Cx. tarsalis	Madera	45	CO2	8/17/2021	WNV
Madera	MADR195	340	Cx. tarsalis	Madera	50	CO2	8/17/2021	WNV
Madera	MADR195	341	Cx. quinquefasciatus	Madera	50	CO2	8/17/2021	WNV
Madera	MADR198	334	Cx. tarsalis	Madera	50	CO2	8/17/2021	WNV
Madera	MADR227	356	Cx. tarsalis	Madera	13	CO2	8/19/2021	WNV
Madera	MADR300	339	Cx. tarsalis	Chowchilla	47	CO2	8/17/2021	WNV
Madera	MADR3334	358	Cx. tarsalis	Madera	50	CO2	8/19/2021	WNV
Madera	MADR3334	359	Cx. quinquefasciatus	Madera	24	CO2	8/19/2021	WNV
Madera	MADR3334	360	Cx. tarsalis	Madera	40	CO2	8/19/2021	WNV
Madera	MADR603	346	Cx. tarsalis	Firebaugh	34	CO2	8/18/2021	WNV
Madera	MADR889	348	Cx. quinquefasciatus	Firebaugh	50	CO2	8/18/2021	WNV
Merced	MERC201722	344	Cx. pipiens	Winton	50	CO2	8/24/2021	WNV
Merced	MERC422575	348	Cx. tarsalis	Winton	10	CO2	8/24/2021	WNV
Orange	ORCO1005	3169	Cx. quinquefasciatus	Buena Park	37	GRVD	8/24/2021	WNV
Orange	ORCO1006	3174	Cx. quinquefasciatus	Cypress	50	GRVD	8/24/2021	WNV

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Orange	ORCO1008	2890	Cx. quinquefasciatus	Fullerton	29	GRVD	8/10/2021	WNV
Orange	ORCO1008	3285	Cx. quinquefasciatus	Fullerton	44	GRVD	8/24/2021	WNV
Orange	ORCO1027	3178	Cx. quinquefasciatus	La Palma	29	GRVD	8/24/2021	WNV
Orange	ORCO170	2867	Cx. quinquefasciatus	Anaheim	28	GRVD	8/10/2021	WNV
Orange	ORCO218	3164	Cx. quinquefasciatus	Anaheim	29	GRVD	8/24/2021	WNV
Orange	ORCO218	3197	Cx. quinquefasciatus	Anaheim	35	GRVD	8/24/2021	WNV
Riverside	COAV123	3292	Cx. tarsalis	Mecca	50	CO2	8/24/2021	WNV
Riverside	COAV35	3412	Cx. tarsalis	Mecca	50	CO2	8/24/2021	WNV
Riverside	COAV37	3410	Cx. tarsalis	Mecca	46	CO2	8/24/2021	WNV
Riverside	COAV45	3392	Cx. tarsalis	Mecca	50	CO2	8/24/2021	WNV
Riverside	COAV45	3393	Cx. tarsalis	Mecca	32	CO2	8/24/2021	WNV
Riverside	COAV48	3399	Cx. tarsalis	Mecca	50	CO2	8/24/2021	WNV
Riverside	COAV48	3400	Cx. tarsalis	Mecca	50	CO2	8/24/2021	WNV
Riverside	COAV48	3403	Cx. tarsalis	Mecca	48	CO2	8/24/2021	WNV
Riverside	COAV56	3291	Cx. tarsalis	North Shore	50	CO2	8/24/2021	WNV
Riverside	COAV57	3397	Cx. tarsalis	North Shore	50	CO2	8/24/2021	SLEV
Riverside	COAV58	3388	Cx. tarsalis	North Shore	50	CO2	8/24/2021	SLEV
Riverside	COAV58	3390	Cx. tarsalis	North Shore	50	CO2	8/24/2021	SLEV
Sacramento	SAYO203028	3924	Cx. pipiens	North Highlands	3	GRVD	8/20/2021	WNV
Sacramento	SAYO204009	3942	Cx. pipiens	Citrus Heights	4	CO2	8/20/2021	WNV
Sacramento	SAYO204037	4036	Cx. pipiens	Citrus Heights	7	GRVD	8/20/2021	WNV
Sacramento	SAYO232012	4185	Cx. tarsalis	Elk Grove	5	CO2	8/24/2021	WNV
Sacramento	SAYO254022	3986	Cx. pipiens	Galt	11	CO2	8/20/2021	WNV
Sacramento	SAYO255002	3980	Cx. pipiens	Herald	12	GRVD	8/20/2021	WNV
Sacramento	SAYO255004	4095	Cx. pipiens	Herald	5	GRVD	8/20/2021	WNV
Sacramento	SAYO280001	3940	Cx. tarsalis	Rio Vista	50	CO2	8/20/2021	WNV
Sacramento	SAYO390799	4294	Cx. tarsalis	Citrus Heights	4	BGSENT	8/26/2021	WNV
Sacramento	SAYO390827	4349	Cx. pipiens	Rancho Cordova	29	BGSENT	8/27/2021	WNV
Sacramento	SAYO390835	4353	Cx. pipiens	Rancho Cordova	50	BGSENT	8/27/2021	WNV
San Bernardino	WVAL5020	1197	Cx. quinquefasciatus	Rancho Cucamonga	13	BGSENT	8/26/2021	WNV
San Joaquin	SJCM8008	1595	Cx. tarsalis	Manteca	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8008	1596	Cx. tarsalis	Manteca	8	CO2	8/24/2021	WNV
San Joaquin	SJCM8008	1597	Cx. pipiens	Manteca	41	CO2	8/24/2021	WNV
San Joaquin	SJCM8011	1666	Cx. pipiens	Ripon	8	CO2	8/26/2021	WNV
San Joaquin	SJCM8018	1568	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1569	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1570	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1571	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1572	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1573	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1574	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1575	Cx. tarsalis	Stockton	48	CO2	8/24/2021	WNV
San Joaquin	SJCM8018	1576	Cx. pipiens	Stockton	9	CO2	8/24/2021	WNV
San Joaquin	SJCM8027	1579	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8027	1580	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8027	1581	Cx. tarsalis	Stockton	40	CO2	8/24/2021	WNV
San Joaquin	SJCM8029	1686	Cx. tarsalis	Farmington	17	CO2	8/26/2021	WNV
San Joaquin	SJCM8029	1687	Cx. pipiens	Farmington	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8070	1660	Cx. tarsalis	Galt	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8070	1661	Cx. tarsalis	Galt	40	CO2	8/26/2021	WNV
San Joaquin	SJCM8070	1662	Cx. pipiens	Galt	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8070	1664	Cx. pipiens	Galt	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8079	1604	Cx. pipiens	Manteca	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8111	1567	Cx. tarsalis	Stockton	30	CO2	8/24/2021	WNV

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San Joaquin	SJCM8160	1613	Cx. pipiens	Lodi	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8161	1588	Cx. tarsalis	Ripon	12	CO2	8/24/2021	WNV
San Joaquin	SJCM8161	1589	Cx. pipiens	Ripon	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8161	1590	Cx. pipiens	Ripon	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8161	1591	Cx. pipiens	Ripon	15	CO2	8/24/2021	WNV
San Joaquin	SJCM8189	1656	Cx. tarsalis	Acampo	7	CO2	8/26/2021	WNV
San Joaquin	SJCM8198	1584	Cx. tarsalis	Stockton	7	CO2	8/24/2021	WNV
San Joaquin	SJCM8199	1630	Cx. pipiens	Manteca	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8199	1631	Cx. pipiens	Manteca	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8199	1632	Cx. pipiens	Manteca	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8200	1652	Cx. tarsalis	Lodi	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8200	1653	Cx. tarsalis	Lodi	34	CO2	8/26/2021	WNV
San Joaquin	SJCM8203	1606	Cx. tarsalis	Lodi	28	CO2	8/24/2021	WNV
San Joaquin	SJCM8203	1607	Cx. pipiens	Lodi	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1634	Cx. tarsalis	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1635	Cx. tarsalis	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1636	Cx. tarsalis	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1637	Cx. tarsalis	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1638	Cx. tarsalis	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1640	Cx. pipiens	Lodi	10	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1641	Cx. pipiens	Lodi	10	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1642	Cx. pipiens	Lodi	100	CO2	8/24/2021	WNV
San Joaquin	SJCM8206	1643	Cx. pipiens	Lodi	62	CO2	8/24/2021	WNV
San Joaquin	SJCM8209	1667	Cx. tarsalis	Lodi	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8209	1669	Cx. pipiens	Lodi	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8210	1678	Cx. pipiens	Escalon	52	CO2	8/26/2021	WNV
San Joaquin	SJCM8228	1674	Cx. tarsalis	Escalon	50	CO2	8/26/2021	WNV
San Joaquin	SJCM8230	1617	Cx. tarsalis	Thornton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8230	1622	Cx. tarsalis	Thornton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8233	1563	Cx. tarsalis	Stockton	50	CO2	8/24/2021	WNV
San Joaquin	SJCM8235	1682	Cx. pipiens	Escalon	50	CO2	8/26/2021	WNV
Shasta	SHAS10140	479	Cx. tarsalis	Anderson	36	CO2	8/20/2021	WNV
Shasta	SHAS148	496	Cx. tarsalis	Cottonwood	15	CO2	8/24/2021	WNV
Shasta	SHAS497	482	Cx. pipiens	Anderson	12	GRVD	8/23/2021	WNV
Shasta	SHAS499	481	Cx. pipiens	Anderson	26	GRVD	8/23/2021	WNV
Shasta	SHAS80	485	Cx. pipiens	Anderson	34	GRVD	8/23/2021	WNV
Solano	SOLA8803	224	Cx. tarsalis	Dixon	50	CO2	8/19/2021	WNV
Stanislaus	EAST1078	21254	Cx. pipiens	Riverbank	50	GRVD	8/19/2021	WNV
Stanislaus	EAST1088	21250	Cx. pipiens	Modesto	50	GRVD	8/18/2021	WNV
Stanislaus	EAST2002	21246	Cx. pipiens	Modesto	14	GRVD	8/18/2021	WNV
Stanislaus	EAST2021	21243	Cx. pipiens	Modesto	13	CO2	8/18/2021	WNV
Stanislaus	EAST2021	21249	Cx. pipiens	Modesto	39	GRVD	8/18/2021	WNV
Stanislaus	TRLK1509	755	Cx. tarsalis	Turlock	50	CO2	8/24/2021	WNV
Stanislaus	TRLK1616	740	Cx. tarsalis	Modesto	30	CO2	8/24/2021	WNV
Stanislaus	TRLK2001	756	Cx. pipiens	Turlock	27	CO2	8/24/2021	WNV
Stanislaus	TRLK424	743	Cx. tarsalis	Patterson	25	CO2	8/24/2021	WNV
Sutter	SUYA31	355	Cx. tarsalis	Rio Oso	11	REST	8/24/2021	WNV
Tulare	DLTA6408	1500	Cx. stigmatosoma	Dinuba	12	BGSENT	8/24/2021	WNV
Tulare	DLTA841533	1459	Cx. quinquefasciatus	Visalia	46	CO2	8/24/2021	WNV
Tulare	DLTA841534	1461	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA841534	1462	Cx. quinquefasciatus	Visalia	29	CO2	8/24/2021	WNV
Tulare	DLTA841543	1411	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841543	1463	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA841543	1467	Cx. quinquefasciatus	Visalia	44	CO2	8/24/2021	WNV

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Tulare	DLTA841543	1468	Cx. tarsalis	Visalia	26	CO2	8/24/2021	WNV
Tulare	DLTA841631	1421	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1426	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1432	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1435	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1437	Cx. quinquefasciatus	Visalia	28	CO2	8/19/2021	WNV
Tulare	DLTA841631	1438	Cx. tarsalis	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1442	Cx. tarsalis	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841631	1443	Cx. tarsalis	Visalia	34	CO2	8/19/2021	WNV
Tulare	DLTA841631	1444	Cx. stigmatosoma	Visalia	13	CO2	8/19/2021	WNV
Tulare	DLTA841631	1480	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA841631	1487	Cx. quinquefasciatus	Visalia	17	CO2	8/24/2021	WNV
Tulare	DLTA841631	1488	Cx. tarsalis	Visalia	37	CO2	8/24/2021	WNV
Tulare	DLTA841642	1401	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841642	1404	Cx. quinquefasciatus	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841642	1406	Cx. tarsalis	Visalia	50	CO2	8/19/2021	WNV
Tulare	DLTA841642	1470	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA841642	1472	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA841642	1473	Cx. quinquefasciatus	Visalia	50	CO2	8/24/2021	WNV
Tulare	DLTA8508	1419	Cx. quinquefasciatus	Visalia	14	BGSENT	8/19/2021	WNV
Tulare	DLTA8631	1416	Cx. quinquefasciatus	Farmersville	15	GRVD	8/19/2021	WNV
Tulare	DLTA9402	1506	Cx. quinquefasciatus	Visalia	24	BGSENT	8/24/2021	WNV
Tulare	TLRE192507	209	Cx. quinquefasciatus	Visalia	50	GRVD	8/17/2021	WNV
Tulare	TLRE192507	210	Cx. quinquefasciatus	Visalia	31	GRVD	8/17/2021	WNV
Tulare	TLRE192531	227	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202401	218	Cx. quinquefasciatus	Tulare	25	GRVD	8/18/2021	WNV
Tulare	TLRE202401	226	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202401	232	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202402	234	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202403	235	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202404	229	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202411	236	Cx. quinquefasciatus	Tulare	50	GRVD	8/20/2021	WNV
Tulare	TLRE202411	237	Cx. quinquefasciatus	Tulare	50	GRVD	8/20/2021	WNV
Tulare	TLRE202412	231	Cx. quinquefasciatus	Tulare	50	GRVD	8/19/2021	WNV
Tulare	TLRE202506	217	Cx. quinquefasciatus	Tulare	50	GRVD	8/18/2021	WNV
Tulare	TLRE202518	216	Cx. quinquefasciatus	Tulare	50	GRVD	8/18/2021	WNV
Tulare	TLRE202635	213	Cx. quinquefasciatus	Plainview	50	GRVD	8/17/2021	WNV
Tulare	TLRE222532	215	Cx. quinquefasciatus	Pixley	50	GRVD	8/17/2021	WNV
Yolo	SAYO115002	4280	Cx. tarsalis	Knights Landing	8	CO2	8/24/2021	WNV
Yolo	SAYO115002	4281	Cx. tarsalis	Knights Landing	1	GRVD	8/24/2021	WNV
Yolo	SAYO115005	4244	Cx. tarsalis	Woodland	50	CO2	8/24/2021	WNV
Yolo	SAYO115008	4221	Cx. tarsalis	Woodland	18	CO2	8/24/2021	WNV
Yolo	SAYO115012	4212	Cx. tarsalis	Woodland	15	CO2	8/24/2021	WNV
Yolo	SAYO124007	4040	Cx. tarsalis	Woodland	50	CO2	8/20/2021	WNV
Yolo	SAYO135019	4000	Cx. tarsalis	Davis	50	CO2	8/20/2021	WNV
Yolo	SAYO135019	4002	Cx. tarsalis	Davis	50	CO2	8/20/2021	WNV
Yolo	SAYO135019	4003	Cx. tarsalis	Davis	50	CO2	8/20/2021	WNV
Yolo	SAYO136008	4024	Cx. tarsalis	Davis	50	CO2	8/20/2021	WNV
Yolo	SAYO136008	4026	Cx. tarsalis	Davis	50	CO2	8/20/2021	WNV
Yolo	SAYO136010	4052	Cx. tarsalis	Woodland	50	CO2	8/20/2021	WNV



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### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO0002	Oroville	8/18/2021	WNV	2547	
Butte	BUCO0005	Honcut	8/18/2021	WNV	2563	
Butte	BUCO0007	Chico	8/18/2021	WNV	2577	2583
Lake	LAKE1000	Upper Lake	8/17/2021	WNV	1112	
Merced	MERC0001	Merced	8/20/2021	WNV	1420	
Merced	MERC0003	Gustine	8/20/2021	WNV	1444	1448
Merced	MERC0501	El Nido	8/20/2021	WNV	1410	
Merced	MERC1302	Los Banos	8/20/2021	WNV	1434	
Yolo	SAYO116006	Knights Landing	8/19/2021	WNV	1346	
Yuba	SUYA0010	Olivehurst	8/19/2021	WNV	1609	

## 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.*