

California Arbovirus Surveillance Bulletin #17

Week 33 Friday, August 20, 2021



Weekly Update

Humans

A total of 4 human cases of West Nile virus (WNV) illness were reported this week from 4 counties: Butte (1), Fresno (1), Merced (1), and Stanislaus (1). **This is the first human WNV case reported from Merced County this year.** In 2021, a total of 19 WNV human cases have been reported from 10 counties. Of the 19 cases, 9 (47%) had neuroinvasive illness and 2 (10.5%) were fatal. The median age of the cases was 59 years, and 12 (63%) were male. Dates of symptom onset ranged from March 31 to July 31. In addition to the 19 cases, 4 asymptomatic WNV infections have been reported from Butte (1), Kern (1), Kings (1), and San Bernardino (1) counties. At this time last year, 18 WNV cases had been reported from 5 counties.

Dead Birds

A total of 8 WNV positive dead birds were reported this week from 4 counties: Los Angeles (2), Sacramento (4), San Joaquin (1), and Sutter (1). In 2021, 129 WNV positive dead birds have been reported from 12 counties. **This is the first positive bird reported from Sutter County this year.** At this time last year, 111 WNV positive dead birds had been reported from 16 counties.

Mosquito Pools

West Nile virus

A total of 268 WNV positive mosquito pools were reported this week from 20 counties: Butte (9), Fresno (13), Kern (14), Los Angeles (14), Madera (21), Merced (1), Orange (5), Placer (16), Riverside (36), Sacramento (7), San Bernardino (4), San Joaquin (33), Santa Clara (2), Solano (5), Stanislaus (22), Sutter (3), Tulare (56), Yolo (3), and Yuba (4). **This is the first detection of WNV activity in Santa Clara County this year.** In 2021, 1,253 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 882 WNV positive mosquito pools had been reported from 25 counties.

St. Louis encephalitis virus

A total of 7 mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from Riverside County. In 2021, 16 SLEV positive mosquito pools have been reported from Fresno (1), Imperial (3), and Riverside (12) counties. At this time last year, 207 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

One WNV positive chicken was reported this week from Tulare County; **this is the first WNV positive chicken reported from Tulare County this year.** In 2021, 31 WNV positive chickens have been reported from 7 counties. At this time last year, 22 WNV positive chickens had been reported from 5 counties.

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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YTD WNV Activity by Element and County, 2021					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	6			69	15
Contra Costa				4	
Fresno	2	2		174	
Kern	1			69	
Kings				9	
Lake				2	1
Los Angeles	1		23	116	
Madera				94	
Merced	1		1	3	9
Nevada			1		
Orange				7	
Placer			3	51	
Riverside				65	
Sacramento		1	75	48	
San Bernardino			1	6	
San Joaquin	1		15	211	
San Luis Obispo	2				
Santa Clara				2	
Shasta	1			20	1
Solano				7	
Sonoma			1	1	
Stanislaus	3		1	77	
Sutter			1	15	3
Tehama					1
Tulare	1		5	182	1
Yolo			2	10	
Yuba				11	
Totals	19	3	129	1,253	31

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	3,454	3,798
# Positive Counties	28	26
# Human Cases	18	19
# Positive Dead Birds / # Tested	111 / 937	129 / 1,157
# Positive Mosquito Pools / # Tested	882 / 23,529	1,253 / 22,890
# Seroconversions / # Tested	22 / 3,884	31 / 3,690

TESTING SUMMARIES

Humans

		WNV	SLEV	WEEV
Human Cases	Week	4	0	0
	YTD	19	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	31	8
	YTD	1,157	129

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	160	1	0	0
	YTD	3,690	31	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	268 / 1,748	7 / 1,556	0 / 1,424	0 / 101	0 / 101	0 / 101
	YTD	1,253 / 22,890	16 / 21,355	0 / 19,732	0 / 380	0 / 380	0 / 380

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	San Gabriel Valley MVCD	Glendora	91740	American Crow	8/12/2021	WNV
Los Angeles	San Gabriel Valley MVCD	West Covina	91791	American Crow	8/18/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	8/12/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Mourning Dove	8/14/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Mourning Dove	8/17/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	House Finch	8/17/2021	WNV
San Joaquin	San Joaquin Co MVCD	Ripon	95366	Hawk	8/9/2021	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	8/13/2021	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO113	329	Cx. tarsalis	Gridley	50	CO2	8/10/2021	WNV
Butte	BUCO123	319	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO123	320	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO123	321	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO123	322	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO141	323	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO141	324	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO141	326	Cx. tarsalis	Oroville	50	CO2	8/9/2021	WNV
Butte	BUCO68	327	Cx. tarsalis	Gridley	50	CO2	8/11/2021	WNV
Fresno	CNSL3377	725	Cx. quinquefasciatus	Reedley	24	GRVD	8/10/2021	WNV
Fresno	CNSL3426	726	Cx. quinquefasciatus	Caruthers	50	GRVD	8/11/2021	WNV
Fresno	CNSL4296	730	Cx. quinquefasciatus	Fowler	18	GRVD	8/12/2021	WNV
Fresno	FRNO109	417	Cx. quinquefasciatus	Fresno	30	GRVD	8/12/2021	WNV
Fresno	FRNO173	429	Cx. quinquefasciatus	Fresno	50	GRVD	8/17/2021	WNV
Fresno	FRNO250	406	Cx. quinquefasciatus	Fresno	11	GRVD	8/11/2021	WNV
Fresno	FRNO32	435	Cx. quinquefasciatus	Fresno	18	GRVD	8/17/2021	WNV
Fresno	FRNO62	431	Cx. quinquefasciatus	Fresno	20	GRVD	8/17/2021	WNV
Fresno	FRNO8005	434	Cx. quinquefasciatus	Fresno	47	GRVD	8/17/2021	WNV
Fresno	FRNO86	436	Cx. quinquefasciatus	Fresno	24	GRVD	8/17/2021	WNV
Fresno	FRWS100007	237	Cx. tarsalis	Firebaugh	25	CO2	8/17/2021	WNV
Fresno	FRWS300028	242	Cx. tarsalis	Firebaugh	13	CO2	8/17/2021	WNV
Fresno	FRWS4102	228	Cx. tarsalis	Kerman	50	CO2	8/17/2021	WNV
Kern	DLNO147	107	Cx. quinquefasciatus	Delano	25	GRVD	8/10/2021	WNV
Kern	DLNO33	109	Cx. tarsalis	McFarland	50	CO2	8/12/2021	WNV
Kern	KERN111	367	Cx. tarsalis	Arvin	34	CO2	8/10/2021	WNV
Kern	KERN1114	356	Cx. quinquefasciatus	Bakersfield	47	CO2	8/10/2021	WNV
Kern	KERN114	364	Cx. quinquefasciatus	Bakersfield	22	CO2	8/10/2021	WNV
Kern	KERN115	377	Cx. tarsalis	Bakersfield	50	CO2	8/12/2021	WNV
Kern	KERN118	363	Cx. tarsalis	Buttonwillow	25	CO2	8/10/2021	WNV
Kern	KERN2020	373	Cx. quinquefasciatus	Bakersfield	29	GRVD	8/11/2021	WNV
Kern	KERN2040	353	Cx. quinquefasciatus	Arvin	50	GRVD	8/10/2021	WNV
Kern	KERN3014	378	Cx. tarsalis	Bakersfield	50	CO2	8/12/2021	WNV
Kern	KERN3031	379	Cx. tarsalis	Shafter	25	CO2	8/12/2021	WNV

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Kern	KERN3041	376	Cx. tarsalis	Bakersfield	31	CO2	8/12/2021	WNV
Kern	KERN31	368	Cx. tarsalis	Arvin	38	CO2	8/10/2021	WNV
Kern	KERN36	355	Cx. tarsalis	Bakersfield	26	CO2	8/10/2021	WNV
Los Angeles	GRLA2035	5543	Cx. quinquefasciatus	Tarzana	22	GRVD	8/10/2021	WNV
Los Angeles	GRLA2550	5569	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/13/2021	WNV
Los Angeles	GRLA2567	5544	Cx. quinquefasciatus	Woodland Hills	13	GRVD	8/11/2021	WNV
Los Angeles	GRLA2955	508	Cx. quinquefasciatus	Cerritos	50	GRVD	8/12/2021	WNV
Los Angeles	GRLA2995	5545	Cx. quinquefasciatus	Woodland Hills	36	GRVD	8/11/2021	WNV
Los Angeles	GRLA3046	486	Cx. quinquefasciatus	Bellflower	42	GRVD	8/10/2021	WNV
Los Angeles	GRLA3047	485	Cx. quinquefasciatus	Downey	50	GRVD	8/10/2021	WNV
Los Angeles	GRLA3060	507	Cx. quinquefasciatus	Norwalk	50	GRVD	8/12/2021	WNV
Los Angeles	GRLA3072	521	Cx. quinquefasciatus	Los Angeles	32	GRVD	8/13/2021	WNV
Los Angeles	GRLA3076	5560	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/12/2021	WNV
Los Angeles	SGVA285	809	Cx. quinquefasciatus	Baldwin Park	50	GRVD	8/17/2021	WNV
Los Angeles	SGVA294	807	Cx. quinquefasciatus	City of Industry	50	GRVD	8/17/2021	WNV
Los Angeles	SGVA450	808	Cx. quinquefasciatus	La Puente	50	GRVD	8/17/2021	WNV
Los Angeles	SGVA960	810	Cx. quinquefasciatus	Rosemead	14	GRVD	8/17/2021	WNV
Madera	MADR1057	305	Cx. tarsalis	Chowchilla	25	CO2	8/10/2021	WNV
Madera	MADR1109	319	Cx. tarsalis	Madera	18	CO2	8/12/2021	WNV
Madera	MADR12	292	Cx. quinquefasciatus	Madera	45	CO2	8/10/2021	WNV
Madera	MADR12	293	Cx. tarsalis	Madera	50	CO2	8/10/2021	WNV
Madera	MADR189	309	Cx. tarsalis	Madera West	50	CO2	8/11/2021	WNV
Madera	MADR192	295	Cx. tarsalis	Madera	50	CO2	8/10/2021	WNV
Madera	MADR195	312	Cx. quinquefasciatus	Madera	50	CO2	8/10/2021	WNV
Madera	MADR198	299	Cx. tarsalis	Madera	50	CO2	8/10/2021	WNV
Madera	MADR204	290	Cx. tarsalis	Madera	50	CO2	8/10/2021	WNV
Madera	MADR208	322	Cx. quinquefasciatus	Madera	50	CO2	8/12/2021	WNV
Madera	MADR227	318	Cx. tarsalis	Madera	27	CO2	8/12/2021	WNV
Madera	MADR262	301	Cx. tarsalis	Madera	26	CO2	8/10/2021	WNV
Madera	MADR262	302	Cx. tarsalis	Madera	50	CO2	8/10/2021	WNV
Madera	MADR262	303	Cx. quinquefasciatus	Madera	50	CO2	8/10/2021	WNV
Madera	MADR299	306	Cx. quinquefasciatus	Chowchilla	50	CO2	8/10/2021	WNV
Madera	MADR299	307	Cx. tarsalis	Chowchilla	50	CO2	8/10/2021	WNV
Madera	MADR3334	315	Cx. quinquefasciatus	Madera	50	CO2	8/12/2021	WNV
Madera	MADR3334	316	Cx. tarsalis	Madera	50	CO2	8/12/2021	WNV
Madera	MADR3334	317	Cx. quinquefasciatus	Madera	50	CO2	8/12/2021	WNV
Madera	MADR603	308	Cx. tarsalis	Firebaugh	50	CO2	8/11/2021	WNV
Madera	MADR692	326	Cx. tarsalis	Madera	18	CO2	8/13/2021	WNV
Merced	MERC336429	326	Cx. pipiens	Delhi	6	CO2	8/17/2021	WNV
Orange	ORCO218	2970	Cx. quinquefasciatus	Anaheim	49	GRVD	8/17/2021	WNV
Orange	ORCO302	2988	Cx. quinquefasciatus	Anaheim	50	GRVD	8/17/2021	WNV
Orange	ORCO302	2990	Cx. quinquefasciatus	Anaheim	35	GRVD	8/17/2021	WNV
Orange	ORCO334	2994	Cx. quinquefasciatus	Cypress	27	GRVD	8/17/2021	WNV
Orange	ORCO82	3009	Cx. quinquefasciatus	Cypress	36	GRVD	8/17/2021	WNV
Placer	PLCR1113	1359	Cx. tarsalis	Pleasant Grove	50	CO2	8/17/2021	WNV
Placer	PLCR1114	1364	Cx. tarsalis	Lincoln	27	CO2	8/17/2021	WNV
Placer	PLCR115	1381	Cx. pipiens	Roseville	9	CO2	8/18/2021	WNV
Placer	PLCR115	1382	Cx. tarsalis	Roseville	3	CO2	8/18/2021	WNV
Placer	PLCR191373	1353	Cx. tarsalis	Lincoln	50	CO2	8/17/2021	WNV
Placer	PLCR191373	1354	Cx. tarsalis	Lincoln	35	CO2	8/17/2021	WNV
Placer	PLCR197802	1319	Cx. tarsalis	Elverta	50	CO2	8/17/2021	WNV
Placer	PLCR197802	1320	Cx. tarsalis	Elverta	50	CO2	8/17/2021	WNV
Placer	PLCR197802	1321	Cx. tarsalis	Elverta	50	CO2	8/17/2021	WNV
Placer	PLCR197802	1322	Cx. tarsalis	Elverta	50	CO2	8/17/2021	WNV

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Placer	PLCR197802	1323	Cx. tarsalis	Elverta	14	CO2	8/17/2021	WNV
Placer	PLCR197802	1324	Cx. stigmatosoma	Elverta	1	CO2	8/17/2021	WNV
Placer	PLCR25	1340	Cx. tarsalis	Lincoln	12	CO2	8/17/2021	WNV
Placer	PLCR516	1303	Cx. tarsalis	Roseville	50	CO2	8/17/2021	WNV
Placer	PLCR516	1304	Cx. tarsalis	Roseville	20	CO2	8/17/2021	WNV
Placer	PLCR79	1307	Cx. tarsalis	Roseville	35	CO2	8/17/2021	WNV
Riverside	COAV121	3244	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV121	3245	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV121	3246	Cx. tarsalis	Mecca	49	CO2	8/18/2021	WNV
Riverside	COAV122	3266	Cx. tarsalis	Mecca	30	CO2	8/18/2021	SLEV
Riverside	COAV123	3260	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV123	3263	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV130	3175	Cx. tarsalis	Oasis	14	CO2	8/17/2021	WNV
Riverside	COAV131	3176	Cx. tarsalis	Oasis	21	CO2	8/17/2021	WNV
Riverside	COAV17	3185	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV17	3186	Cx. tarsalis	Mecca	29	CO2	8/17/2021	SLEV
Riverside	COAV17	3186	Cx. tarsalis	Mecca	29	CO2	8/17/2021	WNV
Riverside	COAV34	3172	Cx. tarsalis	Mecca	34	CO2	8/17/2021	WNV
Riverside	COAV35	3197	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV35	3198	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV35	3200	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV35	3201	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV35	3202	Cx. tarsalis	Mecca	50	CO2	8/17/2021	SLEV
Riverside	COAV35	3202	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV35	3203	Cx. tarsalis	Mecca	38	CO2	8/17/2021	WNV
Riverside	COAV35	3268	Cx. tarsalis	Mecca	50	CO2	8/19/2021	WNV
Riverside	COAV35	3269	Cx. tarsalis	Mecca	33	CO2	8/19/2021	WNV
Riverside	COAV37	3188	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV37	3189	Cx. tarsalis	Mecca	50	CO2	8/17/2021	WNV
Riverside	COAV45	3257	Cx. tarsalis	Mecca	50	CO2	8/18/2021	SLEV
Riverside	COAV45	3257	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3247	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3248	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3249	Cx. tarsalis	Mecca	50	CO2	8/18/2021	SLEV
Riverside	COAV48	3251	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3252	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3253	Cx. tarsalis	Mecca	50	CO2	8/18/2021	SLEV
Riverside	COAV48	3253	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3254	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV48	3255	Cx. tarsalis	Mecca	50	CO2	8/18/2021	WNV
Riverside	COAV5	3183	Cx. tarsalis	Oasis	31	CO2	8/17/2021	SLEV
Riverside	COAV5	3183	Cx. tarsalis	Oasis	31	CO2	8/17/2021	WNV
Riverside	COAV540	3173	Cx. tarsalis	Mecca	40	CO2	8/17/2021	WNV
Riverside	COAV68	3170	Cx. tarsalis	Mecca	10	CO2	8/17/2021	WNV
Riverside	RIVR141	82	Cx. tarsalis	Nuevo	50	CO2	8/11/2021	WNV
Riverside	RIVR31	61	Cx. tarsalis	Nuevo	50	CO2	7/28/2021	WNV
Riverside	RIVR31	64	Cx. tarsalis	Nuevo	50	CO2	7/28/2021	WNV
Riverside	RIVR31	88	Cx. tarsalis	Nuevo	50	CO2	8/11/2021	WNV
Riverside	RIVR7	59	Cx. tarsalis	Nuevo	49	CO2	7/28/2021	WNV
Sacramento	SAYO203031	3692	Cx. pipiens	Antelope	9	GRVD	8/13/2021	WNV
Sacramento	SAYO234013	3749	Cx. tarsalis	Elk Grove	5	CO2	8/17/2021	WNV
Sacramento	SAYO243021	3670	Cx. pipiens	Elk Grove	21	GRVD	8/13/2021	WNV
Sacramento	SAYO243037	3705	Cx. pipiens	Elk Grove	50	CO2	8/13/2021	WNV
Sacramento	SAYO254021	3586	Cx. pipiens	Galt	28	GRVD	8/13/2021	WNV

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Sacramento	SAYO255007	3599	Cx. tarsalis	Herald	50	CO2	8/13/2021	WNV
Sacramento	SAYO255007	3600	Cx. tarsalis	Herald	10	CO2	8/13/2021	WNV
San Bernardino	SANB117	429	Cx. quinquefasciatus	Needles	4	CO2	8/5/2021	WNV
San Bernardino	SANB24	435	Cx. tarsalis	Needles	50	CO2	8/5/2021	WNV
San Bernardino	WVAL6002	1126	Cx. quinquefasciatus	Ontario	5	CO2	8/18/2021	WNV
San Bernardino	WVAL6002	1127	Cx. stigmatosoma	Ontario	8	CO2	8/18/2021	WNV
San Joaquin	SJCM8004	1506	Cx. tarsalis	Lodi	11	CO2	8/17/2021	WNV
San Joaquin	SJCM8018	1485	Cx. tarsalis	Stockton	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8018	1486	Cx. tarsalis	Stockton	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8022	1470	Cx. tarsalis	Holt	38	CO2	8/17/2021	WNV
San Joaquin	SJCM8027	1498	Cx. tarsalis	Stockton	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8027	1499	Cx. tarsalis	Stockton	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8056	1503	Cx. tarsalis	Manteca	41	CO2	8/17/2021	WNV
San Joaquin	SJCM8056	1504	Cx. pipiens	Manteca	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8056	1505	Cx. pipiens	Manteca	52	CO2	8/17/2021	WNV
San Joaquin	SJCM8106	1546	Cx. pipiens	Escalon	36	CO2	8/19/2021	WNV
San Joaquin	SJCM8160	1441	Cx. tarsalis	Lodi	42	CO2	8/17/2021	WNV
San Joaquin	SJCM8191	1440	Cx. pipiens	Lodi	24	CO2	8/17/2021	WNV
San Joaquin	SJCM8199	1451	Cx. tarsalis	Manteca	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8199	1452	Cx. tarsalis	Manteca	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8199	1453	Cx. tarsalis	Manteca	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8199	1454	Cx. tarsalis	Manteca	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8199	1456	Cx. pipiens	Manteca	29	CO2	8/17/2021	WNV
San Joaquin	SJCM8205	1544	Cx. pipiens	Farmington	21	CO2	8/19/2021	WNV
San Joaquin	SJCM8206	1459	Cx. tarsalis	Lodi	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8206	1463	Cx. tarsalis	Lodi	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8206	1464	Cx. tarsalis	Lodi	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8206	1468	Cx. pipiens	Lodi	50	CO2	8/17/2021	WNV
San Joaquin	SJCM8208	1522	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1523	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1524	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1525	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1526	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1527	Cx. tarsalis	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1528	Cx. tarsalis	Lodi	24	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1529	Cx. pipiens	Lodi	50	CO2	8/19/2021	WNV
San Joaquin	SJCM8208	1530	Cx. pipiens	Lodi	22	CO2	8/19/2021	WNV
San Joaquin	SJCM8218	1550	Cx. pipiens	Escalon	47	CO2	8/19/2021	WNV
San Joaquin	SJCM8235	1532	Cx. pipiens	Escalon	50	CO2	8/19/2021	WNV
Santa Clara	STCL30360	3759	Cx. pipiens	Gilroy	1	CO2	8/10/2021	WNV
Santa Clara	STCL31726	3821	Cx. pipiens	Sunnyvale	3	CO2	8/12/2021	WNV
Solano	SOLA28	208	Cx. tarsalis	Dixon	20	CO2	8/19/2021	WNV
Solano	SOLA29	231	Cx. tarsalis	Dixon	50	CO2	8/19/2021	WNV
Solano	SOLA33	221	Cx. tarsalis	Dixon	50	CO2	8/19/2021	WNV
Solano	SOLA8807	227	Cx. tarsalis	Dixon	50	CO2	8/19/2021	WNV
Solano	SOLA9002	200	Cx. tarsalis	Vacaville	35	CO2	8/19/2021	WNV
Stanislaus	EAST1025	21217	Cx. pipiens	Modesto	50	CO2	8/11/2021	WNV
Stanislaus	EAST1088	21228	Cx. pipiens	Modesto	20	GRVD	8/11/2021	WNV
Stanislaus	EAST2002	21226	Cx. pipiens	Modesto	38	GRVD	8/11/2021	WNV
Stanislaus	EAST2014	21229	Cx. pipiens	Modesto	15	GRVD	8/11/2021	WNV
Stanislaus	EAST2014	21234	Cx. pipiens	Modesto	50	GRVD	8/12/2021	WNV
Stanislaus	EAST2022	21230	Cx. pipiens	Modesto	14	GRVD	8/11/2021	WNV
Stanislaus	TRLK1214	694	Cx. pipiens	Turlock	34	CO2	8/17/2021	WNV
Stanislaus	TRLK1301	689	Cx. pipiens	Denair	28	CO2	8/17/2021	WNV

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Stanislaus	TRLK17152	676	Cx. pipiens	Denair	50	CO2	8/12/2021	WNV
Stanislaus	TRLK17152	703	Cx. pipiens	Denair	50	CO2	8/17/2021	WNV
Stanislaus	TRLK1905	719	Cx. pipiens	Denair	42	CO2	8/17/2021	WNV
Stanislaus	TRLK1906	717	Cx. pipiens	Hughson	50	CO2	8/17/2021	WNV
Stanislaus	TRLK1906	718	Cx. pipiens	Hughson	30	CO2	8/17/2021	WNV
Stanislaus	TRLK19164	683	Cx. pipiens	Denair	50	CO2	8/12/2021	WNV
Stanislaus	TRLK20258	672	Cx. pipiens	Turlock	50	CO2	8/12/2021	WNV
Stanislaus	TRLK21163	669	Cx. pipiens	Turlock	15	CO2	8/12/2021	WNV
Stanislaus	TRLK21165	671	Cx. pipiens	Turlock	25	CO2	8/12/2021	WNV
Stanislaus	TRLK408	693	Cx. pipiens	Turlock	38	CO2	8/17/2021	WNV
Stanislaus	TRLK432	696	Cx. pipiens	Turlock	50	CO2	8/17/2021	WNV
Stanislaus	TRLK526	681	Cx. tarsalis	Denair	43	CO2	8/12/2021	WNV
Stanislaus	TRLK526	702	Cx. pipiens	Denair	36	CO2	8/17/2021	WNV
Stanislaus	TRLK613	714	Cx. pipiens	Hickman	50	CO2	8/17/2021	WNV
Sutter	SUYA14	347	Cx. tarsalis	Sutter	36	REST	8/18/2021	WNV
Sutter	SUYA14	348	Cx. tarsalis	Sutter	36	REST	8/18/2021	WNV
Sutter	SUYA44	339	Cx. tarsalis	Pleasant Grove	50	CO2	8/18/2021	WNV
Tulare	DLTA623614	1286	Cx. quinquefasciatus	Dinuba	50	CO2	8/17/2021	WNV
Tulare	DLTA623614	1287	Cx. quinquefasciatus	Dinuba	50	CO2	8/17/2021	WNV
Tulare	DLTA623614	1289	Cx. quinquefasciatus	Dinuba	11	CO2	8/17/2021	WNV
Tulare	DLTA623614	1290	Cx. stigmatosoma	Dinuba	50	CO2	8/17/2021	WNV
Tulare	DLTA623614	1291	Cx. stigmatosoma	Dinuba	50	CO2	8/17/2021	WNV
Tulare	DLTA623614	1292	Cx. stigmatosoma	Dinuba	23	CO2	8/17/2021	WNV
Tulare	DLTA623614	1293	Cx. tarsalis	Dinuba	21	CO2	8/17/2021	WNV
Tulare	DLTA623621	1277	Cx. stigmatosoma	Dinuba	27	CO2	8/17/2021	WNV
Tulare	DLTA623641	1272	Cx. quinquefasciatus	Dinuba	11	CO2	8/17/2021	WNV
Tulare	DLTA633024	1282	Cx. tarsalis	Dinuba	29	CO2	8/17/2021	WNV
Tulare	DLTA633034	1279	Cx. stigmatosoma	Dinuba	50	CO2	8/17/2021	WNV
Tulare	DLTA633034	1280	Cx. stigmatosoma	Dinuba	10	CO2	8/17/2021	WNV
Tulare	DLTA6417	1258	Cx. quinquefasciatus	Dinuba	10	GRVD	8/13/2021	WNV
Tulare	DLTA841533	1298	Cx. quinquefasciatus	Visalia	38	CO2	8/18/2021	WNV
Tulare	DLTA841534	1336	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1374	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1377	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1380	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1381	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1383	Cx. quinquefasciatus	Visalia	45	CO2	8/18/2021	WNV
Tulare	DLTA841543	1384	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841543	1386	Cx. tarsalis	Visalia	46	CO2	8/18/2021	WNV
Tulare	DLTA841631	1341	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1343	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1346	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1349	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1356	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1362	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1363	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1365	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1366	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1367	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1368	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841631	1369	Cx. tarsalis	Visalia	32	CO2	8/18/2021	WNV
Tulare	DLTA841642	1300	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1301	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1302	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV

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Tulare	DLTA841642	1308	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1309	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1310	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1312	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1313	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1314	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1315	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA841642	1318	Cx. tarsalis	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA84191	1281	Cx. quinquefasciatus	Visalia	13	GRVD	8/17/2021	WNV
Tulare	DLTA842122	1323	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA842122	1324	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA842122	1326	Cx. quinquefasciatus	Visalia	50	CO2	8/18/2021	WNV
Tulare	DLTA85194	1257	Cx. quinquefasciatus	VISALIA	14	GRVD	8/13/2021	WNV
Tulare	DLTA8530	1269	Cx. quinquefasciatus	Visalia	50	BGSENT	8/17/2021	WNV
Tulare	DLTA9504	1271	Cx. quinquefasciatus	Visalia	14	GRVD	8/17/2021	WNV
Tulare	DLTA9611	1268	Cx. quinquefasciatus	Exeter	16	GRVD	8/17/2021	WNV
Tulare	TLRE192507	198	Cx. quinquefasciatus	Visalia	50	GRVD	8/10/2021	WNV
Tulare	TLRE192507	199	Cx. quinquefasciatus	Visalia	50	GRVD	8/10/2021	WNV
Tulare	TLRE202506	202	Cx. quinquefasciatus	Tulare	36	GRVD	8/11/2021	WNV
Yolo	SAYO103007	3794	Cx. tarsalis	Dunnigan	50	CO2	8/17/2021	WNV
Yolo	SAYO136010	3616	Cx. tarsalis	Woodland	50	CO2	8/13/2021	WNV
Yolo	SAYO136010	3617	Cx. tarsalis	Woodland	50	CO2	8/13/2021	WNV
Yuba	SUYA10	343	Cx. tarsalis	Olivehurst	38	CO2	8/18/2021	WNV
Yuba	SUYA1082	340	Cx. tarsalis	Olivehurst	15	CO2	8/18/2021	WNV
Yuba	SUYA37	330	Cx. tarsalis	Marysville	50	CO2	8/17/2021	WNV
Yuba	SUYA40	346	Cx. tarsalis	Linda	27	CO2	8/18/2021	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01
Tulare	TLRE0008	Tulare	8/6/2021	WNV	1753

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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.

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.