

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020



Weekly Update

Humans

West Nile virus

A total of 33 human cases of West Nile virus (WNV) illness were reported this week from 8 counties: El Dorado (1), Fresno (6), Los Angeles (13), Madera (1), Orange (2), Stanislaus (7), Tulare (2), and Yolo (1). **These are the first human WNV cases reported from Fresno, Tulare, and Yolo counties this year.** In 2020, a total of 91 human WNV cases have been reported from 18 counties. Of the 91 cases, 65 (71%) had neuroinvasive illness and 3 (3.3%) were fatal. The median age of the individuals was 61 years, and 57 (63%) were male. Dates of symptom onset ranged from June 16 to September 12. In addition to the 91 cases, 11 asymptomatic WNV infections have been reported from Fresno (2), Los Angeles (3), Merced (1), Orange (1), Sacramento (1), San Joaquin (1), and Stanislaus (2) counties. At this time last year, 112 human WNV cases had been reported from 17 counties.

St. Louis encephalitis virus

No new cases were reported this week. In 2020, one human SLEV case has been reported from one county (Madera). At this time last year, five human SLEV cases had been reported from three counties.

Dead Birds

A total of 13 WNV positive dead birds were reported this week from 6 counties: Contra Costa (2), Los Angeles (1), Orange (2), Sacramento (2), San Joaquin (2), and Yolo (4). In 2020, a total of 261 WNV positive dead birds have been reported from 18 counties. At this time last year, 175 WNV positive dead birds had been reported from 18 counties.

Mosquito Pools

West Nile virus

A total of 169 WNV positive mosquito pools were reported this week from 16 counties: Butte (1), Contra Costa (1), Fresno (19), Glenn (1), Kern (11), Los Angeles (19), Madera (5), Napa (1), Orange (17), Riverside (1), Sacramento (10), San Bernardino (1), San Joaquin (32), Stanislaus (9), Tulare (36), and Yolo (5). In 2020, a total of 2,295 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 3,126 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 53 SLEV positive mosquito pools were reported this week from 5 counties: Fresno (27), Kern (10), Madera (3), Riverside (3), and Tulare (10). In 2020, a total of 449 SLEV positive mosquito pools have been reported from 9 counties: Fresno (194), Imperial (10), Kern

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

(29), Kings (7), Madera (13), Riverside (156), San Joaquin (2), Stanislaus (1), and Tulare (37). At this time last year, 320 SLEV positive mosquito pools had been reported from 12 counties.

Sentinel Chickens

A total of 11 WNV positive chickens were reported this week from 4 counties: Los Angeles (6), Sacramento (1), Sutter (3), and Yuba (1). **These are the first WNV positive chickens reported from Sacramento and Yuba counties this year.** In 2020, a total of 92 chickens have tested positive for WNV from 13 counties. At this time last year, 114 WNV positive chickens had been reported from 16 counties.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	4,656	4,617
# Positive Counties	33	32
# Human Cases	112	91
# Positive Dead Birds / # Tested	175 / 1,481	261/1301
# Positive Mosquito Pools / # Tested	3,126 / 38,275	2,295 / 33,558
# Seroconversions / # Tested	114 / 7,369	92 / 5,173

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

YTD WNV Activity by Element and County, 2020					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			2		
Amador		1			
Butte	4	1	3	28	21
Contra Costa	2		17	12	2
El Dorado	2				
Fresno	6		5	299	
Glenn	1	1		3	2
Imperial				3	
Kern				80	
Kings	1	1		74	
Lake				12	2
Los Angeles	27		66	311	13
Madera	3			73	
Marin			1		
Merced	4	1	2	41	14
Napa			1	2	
Orange	5		38	227	
Placer	1		2	58	
Riverside	3	2	2	60	
Sacramento	1		81	104	1
San Bernardino		1		12	
San Diego	1			2	
San Joaquin		2	4	241	
Santa Clara			5	8	
Shasta				25	2
Solano			1	8	1
Stanislaus	26	3	4	345	
Sutter	1			20	21
Tehama					3
Tulare	2		3	171	9
Yolo	1		24	74	
Yuba				2	1
Totals	91	13	261	2,295	92

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

TESTING SUMMARIES

Humans

		WNV	SLEV	WEEV
Human Cases	Week	33	0	0
	YTD	91	1	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	45	13
	YTD	1,301	261

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	172	11	0	0
	YTD	5,173	92	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	169 / 1,590	53 / 1,590	0 / 1,1379	0 / 63	0 / 63	0 / 63
		YTD	2,295 / 33,558	449 / 31,840	0 / 29,530	0 / 441	0 / 441	0 / 441

NEW POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	9/19/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	California Scrub-Jay	9/21/2020	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90045	American Crow	9/15/2020	WNV
Orange	Orange Co VCD	Irvine	92606	American Crow	9/15/2020	WNV
Orange	Orange Co VCD	Tustin	92782	American Crow	9/15/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	9/16/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	9/21/2020	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95242	American Crow	9/18/2020	WNV
San Joaquin	San Joaquin Co MVCD	Ripon	95366	California Scrub-Jay	9/22/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/14/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/17/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/18/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/19/2020	WNV

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO68	419	Cx. tarsalis	Gridley	30	CO2	9/22/2020	WNV
Contra Costa	CNTR2605	331	Cx. pipiens	Brentwood	5	CO2	9/21/2020	WNV
Fresno	CNSL1357	1214	Cx. quinquefasciatus	Fresno	15	GRVD	9/16/2020	SLEV
Fresno	CNSL1400	987	Cx. quinquefasciatus	Clovis	50	GRVD	9/15/2020	SLEV
Fresno	CNSL1417	1198	Cx. quinquefasciatus	Clovis	50	GRVD	9/15/2020	SLEV
Fresno	CNSL1423	981	Cx. quinquefasciatus	Fresno	50	GRVD	9/15/2020	SLEV
Fresno	CNSL1614	1199	Cx. quinquefasciatus	Clovis	50	GRVD	9/15/2020	SLEV
Fresno	CNSL1910	1203	Cx. quinquefasciatus	Fresno	50	GRVD	9/15/2020	SLEV
Fresno	CNSL1954	1530	Cx. quinquefasciatus	Clovis	41	GRVD	9/18/2020	SLEV
Fresno	CNSL2074	1197	Cx. quinquefasciatus	Sanger	50	GRVD	9/15/2020	SLEV
Fresno	CNSL2074	1197	Cx. quinquefasciatus	Sanger	50	GRVD	9/15/2020	WNV
Fresno	CNSL2380	985	Cx. stigmatosoma	Sanger	32	GRVD	9/15/2020	WNV
Fresno	CNSL2492	1207	Cx. quinquefasciatus	Sanger	29	GRVD	9/15/2020	WNV
Fresno	CNSL2522	996	Cx. tarsalis	Sanger	19	CO2	9/15/2020	SLEV
Fresno	CNSL2523	994	Cx. quinquefasciatus	Sanger	50	GRVD	9/15/2020	SLEV
Fresno	CNSL2523	994	Cx. quinquefasciatus	Sanger	50	GRVD	9/15/2020	WNV
Fresno	CNSL3002	1235	Cx. stigmatosoma	Sanger	50	GRVD	9/18/2020	WNV
Fresno	CNSL3379	1224	Cx. quinquefasciatus	Reedley	50	GRVD	9/17/2020	SLEV
Fresno	CNSL3424	1228	Cx. quinquefasciatus	Reedley	50	GRVD	9/17/2020	WNV
Fresno	CNSL4198	1225	Cx. quinquefasciatus	Fowler	37	GRVD	9/17/2020	WNV
Fresno	CNSL4209	1515	Cx. quinquefasciatus	Selma	48	GRVD	9/17/2020	WNV
Fresno	CNSL5180	1221	Cx. quinquefasciatus	Selma	27	GRVD	9/16/2020	WNV
Fresno	CNSL6315	1506	Cx. quinquefasciatus	Riverdale	50	GRVD	9/16/2020	WNV
Fresno	CNSL8048	1504	Cx. quinquefasciatus	Fresno	48	GRVD	9/16/2020	SLEV
Fresno	CNSL8048	1528	Cx. quinquefasciatus	Fresno	28	GRVD	9/18/2020	WNV
Fresno	CNSL8050	1209	Cx. quinquefasciatus	Fresno	50	GRVD	9/16/2020	SLEV
Fresno	CNSL8050	1210	Cx. quinquefasciatus	Fresno	50	GRVD	9/16/2020	SLEV
Fresno	CNSL8092	1217	Cx. quinquefasciatus	Clovis	32	GRVD	9/16/2020	SLEV
Fresno	CNSL8092	1217	Cx. quinquefasciatus	Clovis	32	GRVD	9/16/2020	WNV
Fresno	CNSL8157	983	Cx. quinquefasciatus	Clovis	45	GRVD	9/15/2020	SLEV
Fresno	CNSL9176	1208	Cx. quinquefasciatus	Fresno	50	GRVD	9/16/2020	SLEV
Fresno	CNSL9193	999	Cx. quinquefasciatus	Fresno	50	GRVD	9/16/2020	SLEV
Fresno	CNSL9193	1211	Cx. quinquefasciatus	Fresno	28	GRVD	9/16/2020	SLEV
Fresno	CNSL9193	1212	Cx. quinquefasciatus	Fresno	33	GRVD	9/16/2020	SLEV
Fresno	FRNO112	544	Cx. tarsalis	Fresno	7	CO2	9/17/2020	WNV
Fresno	FRNO15	522	Cx. quinquefasciatus	Fresno	40	GRVD	9/15/2020	SLEV
Fresno	FRNO15	522	Cx. quinquefasciatus	Fresno	40	GRVD	9/15/2020	WNV
Fresno	FRNO15	533	Cx. quinquefasciatus	Fresno	40	BGSENT	9/15/2020	SLEV
Fresno	FRNO194	518	Cx. quinquefasciatus	Fresno	45	GRVD	9/15/2020	SLEV
Fresno	FRNO196	520	Cx. quinquefasciatus	Fresno	32	GRVD	9/15/2020	SLEV
Fresno	FRNO214	538	Cx. quinquefasciatus	Kerman	7	GRVD	9/17/2020	WNV
Fresno	FRNO35	515	Cx. quinquefasciatus	Fresno	12	GRVD	9/15/2020	SLEV
Fresno	FRWS300031	350	Cx. tarsalis	Fresno	50	CO2	9/22/2020	SLEV
Fresno	FRWS300031	350	Cx. tarsalis	Fresno	50	CO2	9/22/2020	WNV
Fresno	FRWS300031	351	Cx. tarsalis	Fresno	50	CO2	9/22/2020	SLEV
Fresno	FRWS400027	328	Cx. tarsalis	Fresno	50	CO2	9/16/2020	WNV

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

Fresno	FRWS4102	336	Cx. tarsalis	Kerman	50	CO2	9/22/2020	WNV
Fresno	FRWS4102	341	Cx. quinquefasciatus	Kerman	30	CO2	9/22/2020	WNV
Kern	DLNO122	300	Cx. quinquefasciatus	Delano	50	GRVD	9/18/2020	SLEV
Kern	DLNO143	294	Cx. quinquefasciatus	McFarland	50	BGSENT	9/18/2020	SLEV
Kern	DLNO28	297	Cx. quinquefasciatus	McFarland	22	GRVD	9/18/2020	WNV
Kern	DLNO38	299	Cx. quinquefasciatus	Delano	20	GRVD	9/18/2020	WNV
Kern	DLNO4	295	Cx. quinquefasciatus	Delano	50	BGSENT	9/18/2020	SLEV
Kern	DLNO55	293	Cx. quinquefasciatus	McFarland	50	CO2	9/16/2020	WNV
Kern	KERN117	481	Cx. quinquefasciatus	Bakersfield	50	CO2	9/15/2020	SLEV
Kern	KERN2007	489	Cx. quinquefasciatus	Bakersfield	31	GRVD	9/16/2020	SLEV
Kern	KERN2007	489	Cx. quinquefasciatus	Bakersfield	31	GRVD	9/16/2020	WNV
Kern	KERN2022	479	Cx. quinquefasciatus	Shafter	50	GRVD	9/15/2020	SLEV
Kern	KERN2022	479	Cx. quinquefasciatus	Shafter	50	GRVD	9/15/2020	WNV
Kern	KERN2031	493	Cx. quinquefasciatus	Bakersfield	50	GRVD	9/17/2020	SLEV
Kern	KERN2031	493	Cx. quinquefasciatus	Bakersfield	50	GRVD	9/17/2020	WNV
Kern	KERN3001	495	Cx. quinquefasciatus	Bakersfield	40	CO2	9/17/2020	WNV
Kern	KERN3019	490	Cx. quinquefasciatus	Bakersfield	50	CO2	9/16/2020	WNV
Kern	KERN3031	494	Cx. quinquefasciatus	Shafter	50	CO2	9/17/2020	SLEV
Kern	KERN40	488	Cx. tarsalis	Lost Hills	50	CO2	9/15/2020	SLEV
Kern	KERN40	488	Cx. tarsalis	Lost Hills	50	CO2	9/15/2020	WNV
Kern	KERN41	487	Cx. tarsalis	Lost Hills	50	CO2	9/15/2020	WNV
Kern	KERN9	491	Cx. quinquefasciatus	Bakersfield	32	CO2	9/16/2020	SLEV
Kern	WEST6246	24	Cx. quinquefasciatus	Maricopa	28	GRVD	9/23/2020	WNV
Los Angeles	ANTV0112	5835	Cx. quinquefasciatus	Lancaster	13	GRVD	9/22/2020	WNV
Los Angeles	GRLA2145	629	Cx. quinquefasciatus	Long Beach	50	GRVD	9/17/2020	WNV
Los Angeles	GRLA2321	619	Cx. quinquefasciatus	Carson	50	GRVD	9/17/2020	WNV
Los Angeles	GRLA2521	5821	Cx. quinquefasciatus	Los Feliz	17	GRVD	9/16/2020	WNV
Los Angeles	GRLA2574	5828	Cx. quinquefasciatus	Sherman Oaks	50	BGSENT	9/16/2020	WNV
Los Angeles	GRLA2635	5853	Cx. quinquefasciatus	Van Nuys	35	GRVD	9/17/2020	WNV
Los Angeles	GRLA2655	5831	Cx. quinquefasciatus	Encino	33	GRVD	9/16/2020	WNV
Los Angeles	GRLA2866	5840	Cx. quinquefasciatus	Studio City	50	GRVD	9/16/2020	WNV
Los Angeles	GRLA2866	5843	Cx. quinquefasciatus	Studio City	41	GRVD	9/16/2020	WNV
Los Angeles	GRLA2889	631	Cx. quinquefasciatus	Lakewood	50	GRVD	9/17/2020	WNV
Los Angeles	GRLA2936	5826	Cx. quinquefasciatus	Burbank	45	GRVD	9/16/2020	WNV
Los Angeles	GRLA3051	630	Cx. quinquefasciatus	Signal Hill	50	GRVD	9/17/2020	WNV
Los Angeles	GRLA3067	620	Cx. quinquefasciatus	Gardena	28	GRVD	9/17/2020	WNV
Los Angeles	LACW1047	555	Cx. quinquefasciatus	Inglewood	29	CO2	9/17/2020	WNV
Los Angeles	LACW1048	558	Cx. quinquefasciatus	Inglewood	24	CO2	9/17/2020	WNV
Los Angeles	LACW1054	556	Cx. quinquefasciatus	Inglewood	50	CO2	9/17/2020	WNV
Los Angeles	LACW1054	557	Cx. quinquefasciatus	Inglewood	28	CO2	9/17/2020	WNV
Los Angeles	SGVA505	1067	Cx. quinquefasciatus	Monterey Park	18	GRVD	9/22/2020	WNV
Los Angeles	SGVA898	1091	Cx. quinquefasciatus	San Gabriel	50	GRVD	9/22/2020	WNV
Madera	MADR1109	400	Cx. tarsalis	Madera	25	CO2	9/17/2020	WNV
Madera	MADR195	408	Cx. quinquefasciatus	Madera	32	CO2	9/18/2020	SLEV
Madera	MADR195	408	Cx. quinquefasciatus	Madera	32	CO2	9/18/2020	WNV
Madera	MADR195	409	Cx. tarsalis	Madera	50	CO2	9/18/2020	SLEV
Madera	MADR195	409	Cx. tarsalis	Madera	50	CO2	9/18/2020	WNV
Madera	MADR265	391	Cx. quinquefasciatus	Madera	22	CO2	9/16/2020	WNV
Madera	MADR311	392	Cx. quinquefasciatus	Madera	33	CO2	9/16/2020	SLEV
Madera	MADR896	388	Cx. tarsalis	Mendota	50	CO2	9/15/2020	WNV

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

Napa	NAPA2833	125	Cx. pipiens	American Canyon	50	CO2	9/22/2020	WNV
Orange	ORCO1008	4010	Cx. quinquefasciatus	Fullerton	42	GRVD	9/10/2020	WNV
Orange	ORCO1008	4014	Cx. quinquefasciatus	Fullerton	50	GRVD	9/10/2020	WNV
Orange	ORCO1008	4016	Cx. quinquefasciatus	Fullerton	50	GRVD	9/10/2020	WNV
Orange	ORCO1008	4026	Cx. quinquefasciatus	Fullerton	34	GRVD	9/10/2020	WNV
Orange	ORCO1008	4031	Cx. quinquefasciatus	Fullerton	44	GRVD	9/10/2020	WNV
Orange	ORCO1011	4029	Cx. quinquefasciatus	La Habra	29	GRVD	9/10/2020	WNV
Orange	ORCO1011	4037	Cx. quinquefasciatus	La Habra	8	BGSENT	9/10/2020	WNV
Orange	ORCO215	4060	Cx. quinquefasciatus	La Habra	22	CO2	9/11/2020	WNV
Orange	ORCO218	4020	Cx. quinquefasciatus	Anaheim	38	GRVD	9/10/2020	WNV
Orange	ORCO218	4022	Cx. quinquefasciatus	Anaheim	24	GRVD	9/10/2020	WNV
Orange	ORCO218	4023	Cx. quinquefasciatus	Anaheim	28	GRVD	9/10/2020	WNV
Orange	ORCO218	4024	Cx. quinquefasciatus	Anaheim	29	GRVD	9/10/2020	WNV
Orange	ORCO218	4025	Cx. quinquefasciatus	Anaheim	49	GRVD	9/10/2020	WNV
Orange	ORCO218	4044	Cx. quinquefasciatus	Anaheim	31	GRVD	9/10/2020	WNV
Orange	ORCO218	4051	Cx. quinquefasciatus	Anaheim	41	GRVD	9/10/2020	WNV
Orange	ORCO231	4053	Cx. quinquefasciatus	Rossmoor	36	GRVD	9/11/2020	WNV
Orange	ORCO231	4054	Cx. quinquefasciatus	Rossmoor	35	GRVD	9/11/2020	WNV
Glenn	BUCO47	429	Cx. pipiens	Hamilton City	33	CO2	9/23/2020	WNV
Riverside	COAV45	3972	Cx. tarsalis	Mecca	50	CO2	9/22/2020	SLEV
Riverside	COAV57	3947	Cx. tarsalis	North Shore	50	CO2	9/22/2020	SLEV
Riverside	COAV57	3950	Cx. tarsalis	North Shore	50	CO2	9/22/2020	WNV
Riverside	COAV58	3915	Cx. tarsalis	North Shore	50	CO2	9/22/2020	SLEV
Sacramento	SAYO203037	6161	Cx. pipiens	Elverta	3	GRVD	9/22/2020	WNV
Sacramento	SAYO213017	6145	Cx. tarsalis	Sacramento	1	CO2	9/22/2020	WNV
Sacramento	SAYO223006	6141	Cx. pipiens	Sacramento	13	GRVD	9/22/2020	WNV
Sacramento	SAYO224012	6026	Cx. pipiens	Rancho Cordova	50	GRVD	9/18/2020	WNV
Sacramento	SAYO224012	6027	Cx. pipiens	Rancho Cordova	20	GRVD	9/18/2020	WNV
Sacramento	SAYO233009	6115	Cx. tarsalis	Elk Grove	12	CO2	9/22/2020	WNV
Sacramento	SAYO253014	5718	Cx. tarsalis	Galt	32	CO2	9/11/2020	WNV
Sacramento	SAYO261003	5739	Cx. pipiens	Isleton	49	CO2	9/11/2020	WNV
Sacramento	SAYO271003	5769	Cx. tarsalis	Isleton	50	CO2	9/11/2020	WNV
Sacramento	SAYO271003	6040	Cx. tarsalis	Isleton	50	CO2	9/18/2020	WNV
San Bernardino	WVAL2021	1862	Cx. quinquefasciatus	Chino Hills	6	GRVD	9/22/2020	WNV
San Joaquin	SJCM8022	2018	Cx. pipiens	Holt	11	CO2	9/22/2020	WNV
San Joaquin	SJCM8027	2020	Cx. tarsalis	Stockton	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8027	2021	Cx. tarsalis	Stockton	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8027	2023	Cx. pipiens	Stockton	38	CO2	9/22/2020	WNV
San Joaquin	SJCM8045	2034	Cx. tarsalis	Thornton	39	CO2	9/22/2020	WNV
San Joaquin	SJCM8076	2014	Cx. tarsalis	Stockton	4	CO2	9/22/2020	WNV
San Joaquin	SJCM8076	2015	Cx. pipiens	Stockton	2	CO2	9/22/2020	WNV
San Joaquin	SJCM8143	2043	Cx. tarsalis	Stockton	46	CO2	9/22/2020	WNV
San Joaquin	SJCM8143	2044	Cx. pipiens	Stockton	14	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2063	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2064	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2065	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2066	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2068	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2069	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8160	2071	Cx. pipiens	Lodi	36	CO2	9/22/2020	WNV

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

San Joaquin	SJCM8199	2090	Cx. tarsalis	Manteca	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8199	2094	Cx. tarsalis	Manteca	46	CO2	9/22/2020	WNV
San Joaquin	SJCM8199	2095	Cx. pipiens	Manteca	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8203	2037	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8205	2166	Cx. pipiens	Farmington	24	CO2	9/24/2020	WNV
San Joaquin	SJCM8206	2085	Cx. tarsalis	Lodi	100	CO2	9/22/2020	WNV
San Joaquin	SJCM8206	2086	Cx. tarsalis	Lodi	100	CO2	9/22/2020	WNV
San Joaquin	SJCM8208	2156	Cx. tarsalis	Lodi	46	CO2	9/24/2020	WNV
San Joaquin	SJCM8209	2158	Cx. tarsalis	Lodi	10	CO2	9/24/2020	WNV
San Joaquin	SJCM8210	2128	Cx. pipiens	Escalon	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8211	2008	Cx. pipiens	Stockton	5	CO2	9/22/2020	WNV
San Joaquin	SJCM8218	2073	Cx. pipiens	Escalon	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8226	2146	Cx. pipiens	Stockton	6	CO2	9/24/2020	WNV
San Joaquin	SJCM8230	2055	Cx. tarsalis	Thornton	100	CO2	9/22/2020	WNV
San Joaquin	SJCM8232	2135	Cx. tarsalis	Oakdale	50	CO2	9/22/2020	WNV
San Joaquin	SJCM8234	2108	Cx. tarsalis	Lodi	50	CO2	9/22/2020	WNV
Stanislaus	EAST2026	20513	Cx. pipiens	Modesto	22	CO2	9/16/2020	WNV
Stanislaus	TRLK2	1210	Cx. tarsalis	Vernalis	32	CO2	9/22/2020	WNV
Stanislaus	TRLK20145	1162	Cx. pipiens	Turlock	50	CO2	9/17/2020	WNV
Stanislaus	TRLK322	1209	Cx. tarsalis	Vernalis	35	CO2	9/22/2020	WNV
Stanislaus	TRLK424	1229	Cx. tarsalis	Patterson	50	CO2	9/22/2020	WNV
Stanislaus	TRLK549	1295	Cx. tarsalis	Newman	50	CO2	9/22/2020	WNV
Stanislaus	TRLK549	1299	Cx. tarsalis	Newman	48	CO2	9/22/2020	WNV
Stanislaus	TRLK9732	1253	Cx. tarsalis	Newman	50	CO2	9/22/2020	WNV
Stanislaus	TRLK9768	1195	Cx. tarsalis	Modesto	43	CO2	9/22/2020	WNV
Tulare	DLNO16	303	Cx. quinquefasciatus	Earlimart	23	GRVD	9/22/2020	WNV
Tulare	DLTA6407	2213	Cx. quinquefasciatus	Dinuba	50	GRVD	9/18/2020	SLEV
Tulare	DLTA6407	2216	Cx. quinquefasciatus	Dinuba	35	GRVD	9/18/2020	SLEV
Tulare	DLTA8409	2337	Cx. tarsalis	Visalia	10	CO2	9/24/2020	SLEV
Tulare	DLTA8414	2178	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8414	2189	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2218	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2219	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2221	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2226	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	SLEV
Tulare	DLTA8415	2226	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2227	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2228	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2229	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2230	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2231	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	SLEV
Tulare	DLTA8415	2232	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2235	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2236	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8415	2237	Cx. quinquefasciatus	Visalia	50	CO2	9/18/2020	WNV
Tulare	DLTA8416	2339	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	SLEV
Tulare	DLTA8416	2342	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	WNV
Tulare	DLTA8416	2354	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	WNV
Tulare	DLTA8416	2355	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	WNV
Tulare	DLTA8416	2356	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	WNV

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

Tulare	DLTA8416	2357	Cx. quinquefasciatus	Goshen	50	CO2	9/24/2020	WNV
Tulare	DLTA8416	2361	Cx. tarsalis	Goshen	29	CO2	9/24/2020	WNV
Tulare	DLTA8421	2292	Cx. quinquefasciatus	Goshen	50	CO2	9/22/2020	SLEV
Tulare	DLTA8421	2293	Cx. quinquefasciatus	Goshen	50	CO2	9/22/2020	WNV
Tulare	DLTA8422	2257	Cx. quinquefasciatus	Goshen	50	BGSENT	9/18/2020	WNV
Tulare	DLTA9610	2373	Cx. quinquefasciatus	Exeter	10	GRVD	9/24/2020	WNV
Tulare	TLRE192434	212	Cx. quinquefasciatus	Tulare	34	GRVD	9/17/2020	WNV
Tulare	TLRE192507	215	Cx. quinquefasciatus	Visalia	50	GRVD	9/17/2020	WNV
Tulare	TLRE192508	192	Cx. quinquefasciatus	Visalia	50	GRVD	9/3/2020	WNV
Tulare	TLRE192508	193	Cx. quinquefasciatus	Visalia	50	GRVD	9/3/2020	WNV
Tulare	TLRE202404	198	Cx. quinquefasciatus	Tulare	50	GRVD	9/9/2020	WNV
Tulare	TLRE202404	199	Cx. quinquefasciatus	Tulare	50	GRVD	9/10/2020	WNV
Tulare	TLRE202409	209	Cx. quinquefasciatus	Tulare	50	GRVD	9/16/2020	WNV
Tulare	TLRE202412	210	Cx. quinquefasciatus	Tulare	50	GRVD	9/17/2020	SLEV
Tulare	TLRE202412	210	Cx. quinquefasciatus	Tulare	50	GRVD	9/17/2020	WNV
Tulare	TLRE202413	223	Cx. quinquefasciatus	Tulare	33	GRVD	9/22/2020	WNV
Tulare	TLRE202506	207	Cx. quinquefasciatus	Tulare	50	GRVD	9/16/2020	SLEV
Tulare	TLRE202506	207	Cx. quinquefasciatus	Tulare	50	GRVD	9/16/2020	WNV
Tulare	TLRE202518	222	Cx. quinquefasciatus	Tulare	50	GRVD	9/22/2020	WNV
Tulare	TLRE202519	194	Cx. quinquefasciatus	Tulare	50	GRVD	9/1/2020	WNV
Tulare	TLRE222533	218	Cx. quinquefasciatus	Pixley	50	GRVD	9/18/2020	SLEV
Yolo	SAYO125021	5712	Cx. pipiens	Woodland	21	GRVD	9/11/2020	WNV
Yolo	SAYO135010	5695	Cx. pipiens	Woodland	3	GRVD	9/11/2020	WNV
Yolo	SAYO136010	6010	Cx. tarsalis	Woodland	50	CO2	9/18/2020	WNV
Yolo	SAYO137013	5951	Cx. pipiens	West Sacramento	15	GRVD	9/18/2020	WNV
Yolo	SAYO146002	6174	Cx. pipiens	Davis	3	GRVD	9/22/2020	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Los Angeles	LONG0002	Long Beach	9/14/2020	WNV	1129				
Los Angeles	LONG0004	Long Beach	9/14/2020	WNV	1142	1145	1146	1147	1150
Sacramento	SAYO203023	Elverta	9/14/2020	WNV	1165				
Sutter	SUYA0015	Robbins	9/10/2020	WNV	2477				
Sutter	SUYA0030	Live Oak	9/10/2020	WNV	2468				
Sutter	SUYA0084	Yuba City	9/10/2020	WNV	2447				
Yuba	SUYA0007	Marysville	9/10/2020	WNV	2460				

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 25, 2020

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, 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

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 by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov.