

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018



Weekly Update

Humans

A total of 11 new human cases of West Nile virus (WNV) illness were reported this week from 7 counties: Butte (4), Contra Costa (1), Glenn (1), Los Angeles (1), Orange (1), Riverside (2), and Tehama (1). **These are the first WNV human cases reported from Contra Costa, Glenn, Orange, and Tehama counties this year.** In 2018, a total of 42 human WNV cases have been reported from 18 counties. Of the 42 case patients, 26 (62%) had neuroinvasive illness; no fatalities have been reported. The median age of the individuals is 56 years (range: 14–90 years) and 27 (64%) are male. Dates of symptom onset ranged from May 6 – August 23. In addition to the 42 cases, 15 asymptomatic infections have been reported from Butte (4), Fresno (1), Los Angeles (2), Orange (2), Sacramento (1), San Joaquin (1), Stanislaus (3), and Yolo (1) counties. At this time last year, 87 human WNV cases had been reported from 13 counties.

Dead Birds

A total of 34 WNV positive dead birds were reported this week from 11 counties: Alameda (1), Butte (1), Contra Costa (2), Los Angeles (2), Orange (1), Placer (5), Sacramento (10), San Joaquin (1), San Mateo (1), Santa Clara (4), and Yolo (6). In 2018, a total of 397 WNV positive dead birds have been reported from 18 counties. At this time last year, 264 WNV positive dead birds had been reported from 30 counties.

Mosquito Pools

West Nile virus

A total of 160 WNV positive mosquito pools were reported this week from 19 counties: Alameda (1), Butte (5), Contra Costa (2), Fresno (14), Kern (9), Kings (3), Los Angeles (1), Madera (8), Orange (13), Placer (8), Riverside (5), Sacramento (9), San Bernardino (3), San Joaquin (43), Stanislaus (9), Sutter (2), Tulare (14), Yolo (9), and Yuba (2). In 2018, 1,456 mosquito pools have tested positive for WNV from 27 counties. At this time last year, 2,545 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 17 mosquito pools were reported positive for St. Louis encephalitis virus (SLEV) this week from 6 counties: Fresno (1), Kern (3), Kings (2), Madera (1), Riverside (3), and Tulare (7). **This is the first detection of SLEV activity in Madera County this year.** In 2018, 264 SLEV positive mosquito pools have been reported from 8 counties: Fresno (40), Imperial (3), Kern (56), Kings (14), Los Angeles (1), Madera (1), Riverside (34), and Tulare (115). At this time last year, 70 SLEV positive mosquito pools had been reported from 11 counties.

Sentinel Chickens

A total of 8 WNV seroconversions were reported this week from 5 flocks located in 4 counties: Butte (1), Los Angeles (4), Placer (1), and Santa Clara (2). In 2018, 84 WNV positive chickens have been reported from 12 counties. At this time last year, 155 WNV positive chickens had been reported from 12 counties, and 7 SLEV positive chickens had been reported from 2 counties.

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	5,613	6,055
# Positive Counties	34	36
# Human Cases	87	42
# Positive Dead Birds / # Tested	264 / 1,438	397 / 1,603
# Positive Mosquito Pools / # Tested	2,545 / 31,999	1,456 / 30,672
# Seroconversions / # Tested	155 / 7,575	84 / 6,909

YTD WNV Activity by Element and County, 2018					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			13	11	
Butte	6		3	42	31
Colusa					1
Contra Costa	1		10	15	13
El Dorado			2		
Fresno	3			82	
Glenn	1			4	
Humboldt			1		
Imperial				1	
Kern	2	1		38	
Kings				16	
Lake				4	1
Los Angeles	6		8	23	7
Madera				34	
Merced	1			8	9
Orange	1		3	40	
Placer		1	36	216	3
Riverside	5		4	31	
Sacramento	1	2	221	266	
San Benito					1
San Bernardino	1			9	
San Diego				3	
San Joaquin	4		10	356	
San Mateo			5	2	
Santa Clara			39	4	5
Santa Cruz			2		
Shasta	1	1	3	7	1
Solano				2	
Stanislaus	5	1	1	76	
Sutter			4	27	11
Tehama	1				
Tulare	1			51	
Tuolumne	1				
Ventura	1				
Yolo			32	80	
Yuba				8	1
Totals	42	6	397	1,456	84

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	11	0	0
	YTD	42	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	97	34
	YTD	1,603	397

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	323	8	0	0
	YTD	6,909	84	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	160 / 1,559	17 / 1,318	0 / 1,204	0 / 93	0 / 93	0 / 93
		YTD	1,456 / 30,672	264 / 24,113	0 / 20,676	0 / 1,017	0 / 1,017	0 / 1,017

New Positives

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/27/2018	WNV
Butte	Butte Co MVCD	Magalia	95954	Unknown - pigeon or dove	8/23/2018	WNV
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	8/29/2018	WNV
Contra Costa	Contra Costa MVCD	Martinez	94553	California Scrub-Jay	8/28/2018	WNV
Los Angeles	Los Angeles Co Veterinarian	Glendale	91201	American Crow	8/24/2018	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90064	American Crow	8/24/2018	WNV
Orange	Orange Co VCD	Garden Grove	92843	American Crow	8/23/2018	WNV
Placer	Placer MVCD	Roseville	95661	American Crow	8/27/2018	WNV
Placer	Placer MVCD	Roseville	95661	American Crow	8/28/2018	WNV
Placer	Placer MVCD	Roseville	95678	California Scrub-Jay	8/27/2018	WNV
Placer	Placer MVCD	Roseville	95678	Mourning Dove	8/30/2018	WNV
Placer	Placer MVCD	Roseville	95747	American Goldfinch	8/26/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	8/22/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	8/22/2018	WNV

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	European Starling	8/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	California Scrub-Jay	8/22/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Cooper's Hawk	8/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	8/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Cooper's Hawk	8/21/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Murieta	95683	California Scrub-Jay	8/28/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	California Scrub-Jay	8/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	8/22/2018	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95212	California Scrub-Jay	8/27/2018	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/28/2018	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/24/2018	WNV
Santa Clara	Santa Clara Co VCD	San Martin	95046	American Crow	8/26/2018	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	8/27/2018	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	8/27/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/22/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/23/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Great Horned Owl	8/28/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	8/27/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	8/27/2018	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	California Scrub-Jay	8/23/2018	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO725273	20439	Cx. tarsalis	Newark	1	CO2	8/24/18	WNV
Butte	BUCO123	314	Cx. tarsalis	Oroville	50	CO2	8/22/18	WNV
Butte	BUCO123	315	Cx. tarsalis	Oroville	50	CO2	8/22/18	WNV
Butte	BUCO123	316	Cx. tarsalis	Oroville	50	CO2	8/22/18	WNV
Butte	BUCO171	321	Cx. tarsalis	Durham	50	CO2	8/22/18	WNV
Butte	BUCO35	326	Cx. tarsalis	Gridley	50	CO2	8/27/18	WNV
Contra Costa	CNTR7492	388	Cx. tarsalis	Oakley	50	CO2	8/28/18	WNV
Contra Costa	CNTR7524	395	Cx. pipiens	Brentwood	12	CO2	8/29/18	WNV
Fresno	CNSL1295	318	Cx. quinquefasciatus	Fresno	24	BGSENT	8/28/18	WNV
Fresno	CNSL1828	304	Cx. quinquefasciatus	Fresno	34	GRVD	8/28/18	WNV
Fresno	CNSL2000	297	Cx. quinquefasciatus	Sanger	50	GRVD	8/22/18	WNV
Fresno	CNSL2284	300	Cx. quinquefasciatus	Sanger	25	GRVD	8/24/18	WNV
Fresno	CNSL2294	299	Cx. quinquefasciatus	Del Rey	50	GRVD	8/24/18	WNV
Fresno	CNSL4216	298	Cx. quinquefasciatus	Fresno	50	GRVD	8/23/18	WNV
Fresno	CNSL8044	309	Cx. quinquefasciatus	Fresno	28	GRVD	8/28/18	WNV
Fresno	FRNO15	508	Cx. quinquefasciatus	Fresno	48	GRVD	8/28/18	SLEV
Fresno	FRWS1202	278	Cx. tarsalis	Dos Palos	44	CO2	8/28/18	WNV
Fresno	FRWS1202	279	Cx. quinquefasciatus	Dos Palos	48	CO2	8/28/18	WNV
Fresno	FRWS2104	260	Cx. quinquefasciatus	Dos Palos	24	CO2	8/23/18	WNV
Fresno	FRWS2104	261	Cx. tarsalis	Dos Palos	50	CO2	8/23/18	WNV
Fresno	FRWS400015	265	Cx. tarsalis	Kerman	50	CO2	8/24/18	WNV
Fresno	FRWS400029	273	Cx. quinquefasciatus		50	CO2	8/24/18	WNV
Fresno	FRWS5101	280	Cx. tarsalis	Mendota	50	CO2	8/28/18	WNV
Kern	DLNO21	199	Cx. tarsalis	Delano	50	CO2	8/23/18	WNV
Kern	DLNO3	197	Cx. quinquefasciatus	Delano	50	CO2	8/23/18	WNV
Kern	DLNO39	207	Cx. quinquefasciatus	Delano	14	GRVD	8/28/18	WNV
Kern	DLNO44	204	Cx. quinquefasciatus	Delano	17	GRVD	8/24/18	WNV

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

Kern	DLNO44	204	Cx. quinquefasciatus	Delano	17	GRVD	8/24/18	SLEV
Kern	DLNO68	203	Cx. quinquefasciatus	Delano	42	GRVD	8/24/18	WNV
Kern	DLNO86	206	Cx. quinquefasciatus	Delano	11	GRVD	8/28/18	WNV
Kern	DLNO93	198	Cx. quinquefasciatus	Delano	50	CO2	8/23/18	WNV
Kern	KERN1144	461	Cx. quinquefasciatus	Bakersfield	47	CO2	8/22/18	WNV
Kern	KERN12	470	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/24/18	SLEV
Kern	KERN121	474	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/24/18	WNV
Kern	KERN2018	460	Cx. quinquefasciatus	Bakersfield	32	GRVD	8/22/18	SLEV
Kings	KNGS3030	177	Cx. tarsalis	Lemoore	20	CO2	8/21/18	WNV
Kings	KNGS3102	185	Cx. tarsalis	Armona	50	CO2	8/22/18	WNV
Kings	KNGS3102	185	Cx. tarsalis	Armona	50	CO2	8/22/18	SLEV
Kings	KNGS4445	169	Cx. pipiens		31	BGSENT	8/20/18	SLEV
Kings	KNGS4446	173	Cx. pipiens		29	BGSENT	8/21/18	WNV
Los Angeles	SGVA385	452	Cx. quinquefasciatus	Arcadia	50	GRVD	8/28/18	WNV
Madera	MADR12	194	Cx. tarsalis	Madera	32	CO2	8/22/18	WNV
Madera	MADR195	191	Cx. quinquefasciatus	Madera	13	CO2	8/22/18	WNV
Madera	MADR265	195	Cx. tarsalis	Madera	17	CO2	8/23/18	WNV
Madera	MADR265	196	Cx. quinquefasciatus	Madera	50	CO2	8/23/18	WNV
Madera	MADR265	199	Cx. quinquefasciatus	Madera	27	CO2	8/23/18	WNV
Madera	MADR3334	183	Cx. quinquefasciatus	Madera	50	CO2	8/21/18	SLEV
Madera	MADR894	184	Cx. tarsalis	Mendota	50	CO2	8/21/18	WNV
Madera	MADR894	185	Cx. tarsalis	Mendota	50	CO2	8/21/18	WNV
Madera	MADR904	188	Cx. tarsalis	Madera	50	CO2	8/21/18	WNV
Orange	ORCO1008	3574	Cx. quinquefasciatus	Fullerton	15	GRVD	8/29/18	WNV
Orange	ORCO1008	3577	Cx. quinquefasciatus	Fullerton	50	GRVD	8/29/18	WNV
Orange	ORCO1008	3579	Cx. quinquefasciatus	Fullerton	47	GRVD	8/29/18	WNV
Orange	ORCO1008	3585	Cx. quinquefasciatus	Fullerton	32	GRVD	8/29/18	WNV
Orange	ORCO1015	3588	Cx. quinquefasciatus	Orange	25	GRVD	8/29/18	WNV
Orange	ORCO1015	3596	Cx. quinquefasciatus	Orange	26	GRVD	8/29/18	WNV
Orange	ORCO1015	3597	Cx. quinquefasciatus	Orange	30	GRVD	8/29/18	WNV
Orange	ORCO1015	3599	Cx. quinquefasciatus	Orange	41	GRVD	8/29/18	WNV
Orange	ORCO1015	3604	Cx. quinquefasciatus	Orange	41	GRVD	8/29/18	WNV
Orange	ORCO1015	3611	Cx. quinquefasciatus	Orange	48	GRVD	8/29/18	WNV
Orange	ORCO218	3484	Cx. quinquefasciatus	Anaheim	34	BGSENT	8/28/18	WNV
Orange	ORCO218	3486	Cx. quinquefasciatus	Anaheim	5	BGSENT	8/28/18	WNV
Orange	ORCO245	3506	Cx. quinquefasciatus	Santa Ana	20	GRVD	8/28/18	WNV
Placer	PLCR1045	1917	Cx. tarsalis	Granite Bay	4	CO2	8/29/18	WNV
Placer	PLCR1070	1846	Cx. tarsalis	Roseville	38	CO2	8/28/18	WNV
Placer	PLCR1113	1902	Cx. tarsalis	Pleasant Grove	50	CO2	8/28/18	WNV
Placer	PLCR183971	1914	Cx. stigmatosoma		1	CO2	8/29/18	WNV
Placer	PLCR191218	1873	Cx. tarsalis		40	CO2	8/28/18	WNV
Placer	PLCR191373	1905	Cx. tarsalis		50	CO2	8/28/18	WNV
Placer	PLCR197937	1960	Cx. pipiens		7	CO2	8/29/18	WNV
Placer	PLCR525	1834	Cx. tarsalis	Lincoln	47	CO2	8/28/18	WNV
Riverside	COAV121	3581	Cx. tarsalis	Mecca	50	CO2	8/28/18	SLEV
Riverside	COAV45	3583	Cx. tarsalis	Mecca	50	CO2	8/28/18	WNV
Riverside	COAV45	3584	Cx. tarsalis	Mecca	50	CO2	8/28/18	SLEV
Riverside	COAV611	3551	Cx. tarsalis	Mecca	44	CO2	8/28/18	SLEV
Riverside	NWST161	125	Cx. quinquefasciatus	Riverside	30	CO2	8/22/18	WNV
Riverside	NWST197	126	Cx. quinquefasciatus	Riverside	29	CO2	8/22/18	WNV
Riverside	NWST259	136	Cx. quinquefasciatus	Riverside	33	CO2	8/28/18	WNV
Riverside	NWST76	127	Cx. quinquefasciatus	Riverside	35	CO2	8/22/18	WNV
Sacramento	SAYO201006	5342	Cx. tarsalis	Sacramento	50	CO2	8/28/18	WNV
Sacramento	SAYO202006	5326	Cx. pipiens	Sacramento	2	CO2	8/28/18	WNV

California Arbovirus Surveillance Bulletin #22
 Week 35 Friday, August 31, 2018

Sacramento	SAYO205001	5124	Cx. pipiens	Orangevale	5	CO2	8/23/18	WNV
Sacramento	SAYO212006	5365	Cx. tarsalis	Sacramento	50	CO2	8/28/18	WNV
Sacramento	SAYO232028	5141	Cx. tarsalis	Sacramento	50	CO2	8/24/18	WNV
Sacramento	SAYO242016	5134	Cx. tarsalis	Elk Grove	16	CO2	8/24/18	WNV
Sacramento	SAYO243017	5164	Cx. pipiens	Elk Grove	50	CO2	8/24/18	WNV
Sacramento	SAYO243032	5155	Cx. pipiens	Elk Grove	50	CO2	8/24/18	WNV
Sacramento	SAYO243032	5158	Cx. pipiens	Elk Grove	50	CO2	8/24/18	WNV
San Bernardino	WVAL3886	1318	Cx. quinquefasciatus	Chino	50	BGSENT	8/22/18	WNV
San Bernardino	WVAL3890	1325	Cx. quinquefasciatus	Chino	50	BGSENT	8/22/18	WNV
San Bernardino	WVAL9003	1310	Cx. quinquefasciatus	Upland	36	GRVD	8/21/18	WNV
San Joaquin	SJCM8003	1983	Cx. tarsalis	Tracy	11	CO2	8/28/18	WNV
San Joaquin	SJCM8003	1984	Cx. pipiens	Tracy	5	CO2	8/28/18	WNV
San Joaquin	SJCM8008	1988	Cx. tarsalis	Manteca	21	CO2	8/28/18	WNV
San Joaquin	SJCM8018	1961	Cx. tarsalis	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8018	1962	Cx. tarsalis	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8018	1963	Cx. tarsalis	Stockton	33	CO2	8/28/18	WNV
San Joaquin	SJCM8022	2017	Cx. tarsalis	Holt	50	CO2	8/28/18	WNV
San Joaquin	SJCM8025	1985	Cx. tarsalis	Stockton	28	CO2	8/28/18	WNV
San Joaquin	SJCM8037	1995	Cx. pipiens	Lathrop	5	CO2	8/28/18	WNV
San Joaquin	SJCM8056	2011	Cx. pipiens	Manteca	22	CO2	8/28/18	WNV
San Joaquin	SJCM8097	1987	Cx. tarsalis	Banta	6	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2020	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2021	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2022	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2023	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2024	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2025	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2026	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2027	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2028	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2029	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2030	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2031	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2032	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2033	Cx. tarsalis	Stockton	100	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2034	Cx. tarsalis	Stockton	33	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2035	Cx. pipiens	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8111	2038	Cx. pipiens	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8143	1969	Cx. tarsalis	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8143	1970	Cx. tarsalis	Stockton	50	CO2	8/28/18	WNV
San Joaquin	SJCM8143	1972	Cx. pipiens	Stockton	11	CO2	8/28/18	WNV
San Joaquin	SJCM8198	1958	Cx. tarsalis	Stockton	10	CO2	8/28/18	WNV
San Joaquin	SJCM8199	2012	Cx. tarsalis	Manteca	46	CO2	8/28/18	WNV
San Joaquin	SJCM8199	2013	Cx. pipiens	Manteca	50	CO2	8/28/18	WNV
San Joaquin	SJCM8199	2014	Cx. pipiens	Manteca	50	CO2	8/28/18	WNV
San Joaquin	SJCM8199	2015	Cx. pipiens	Manteca	21	CO2	8/28/18	WNV
San Joaquin	SJCM8200	2056	Cx. tarsalis	Lodi	50	CO2	8/30/18	WNV
San Joaquin	SJCM8200	2057	Cx. tarsalis	Lodi	37	CO2	8/30/18	WNV
San Joaquin	SJCM8208	2054	Cx. tarsalis	Lodi	43	CO2	8/30/18	WNV
San Joaquin	SJCM8208	2055	Cx. pipiens	Lodi	9	CO2	8/30/18	WNV
San Joaquin	SJCM8209	2060	Cx. tarsalis	Lodi	15	CO2	8/30/18	WNV
San Joaquin	SJCM8209	2061	Cx. pipiens	Lodi	22	CO2	8/30/18	WNV
San Joaquin	SJCM8213	1966	Cx. tarsalis	Lodi	50	CO2	8/28/18	WNV
Stanislaus	TRLK1203	1238	Cx. tarsalis	Hughson	2	CO2	8/28/18	WNV

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

Stanislaus	TRLK1214	1182	Cx. pipiens	Turlock	50	CO2	8/28/18	WNV
Stanislaus	TRLK1219	1243	Cx. pipiens	Modesto	42	CO2	8/28/18	WNV
Stanislaus	TRLK17190	1165	Cx. pipiens	Modesto	29	CO2	8/23/18	WNV
Stanislaus	TRLK17190	1166	Cx. tarsalis	Modesto	50	CO2	8/23/18	WNV
Stanislaus	TRLK319	1253	Cx. tarsalis	Newman	23	CO2	8/28/18	WNV
Stanislaus	TRLK322	1247	Cx. tarsalis	Vernalis	39	CO2	8/28/18	WNV
Stanislaus	TRLK424	1248	Cx. tarsalis	Patterson	50	CO2	8/28/18	WNV
Stanislaus	TRLK432	1188	Cx. pipiens	Turlock	50	CO2	8/28/18	WNV
Sutter	SUYA31	332	Cx. tarsalis	Rio Oso	35	REST	8/28/18	WNV
Sutter	SUYA44	328	Cx. tarsalis	Pleasant Grove	50	CO2	8/28/18	WNV
Tulare	DLNO96	201	Cx. quinquefasciatus	Earlimart	50	CO2	8/23/18	WNV
Tulare	DLTA6236	3002	Cx. tarsalis	Kingsburg	29	CO2	8/23/18	WNV
Tulare	DLTA6330	2997	Cx. tarsalis	Kingsburg	17	CO2	8/23/18	WNV
Tulare	DLTA6404	3080	Cx. quinquefasciatus	Dinuba	33	CO2	8/29/18	WNV
Tulare	DLTA6404	3081	Cx. tarsalis	Dinuba	40	CO2	8/29/18	WNV
Tulare	DLTA6404	3084	Cx. tarsalis	Dinuba	25	CO2	8/29/18	WNV
Tulare	DLTA6404	3086	Cx. quinquefasciatus	Dinuba	50	CO2	8/29/18	WNV
Tulare	DLTA6404	3088	Cx. tarsalis	Dinuba	50	CO2	8/29/18	WNV
Tulare	DLTA6404	3089	Cx. tarsalis	Dinuba	48	CO2	8/29/18	WNV
Tulare	DLTA6404	3094	Cx. tarsalis	Dinuba	50	CO2	8/29/18	WNV
Tulare	DLTA6404	3096	Cx. tarsalis	Dinuba	36	CO2	8/29/18	WNV
Tulare	DLTA6404	3097	Cx. stigmatosoma	Dinuba	22	CO2	8/29/18	SLEV
Tulare	DLTA6417	3070	Cx. quinquefasciatus	Dinuba	29	GRVD	8/28/18	WNV
Tulare	DLTA8324	3074	Cx. quinquefasciatus	Goshen	29	GRVD	8/28/18	WNV
Tulare	DLTA8434	3010	Cx. quinquefasciatus	Visalia	31	GRVD	8/24/18	SLEV
Tulare	DLTA8533	3014	Cx. quinquefasciatus	Visalia	46	GRVD	8/24/18	WNV
Tulare	DLTA8533	3035	Cx. quinquefasciatus	Visalia	15	GRVD	8/28/18	SLEV
Tulare	DLTA9402	3009	Cx. quinquefasciatus	Visalia	29	GRVD	8/24/18	SLEV
Tulare	DLTA9402	3039	Cx. quinquefasciatus	Visalia	17	GRVD	8/28/18	SLEV
Tulare	DLTA9402	3103	Cx. quinquefasciatus	Visalia	25	BGSENT	8/29/18	SLEV
Tulare	DLTA9403	3110	Cx. quinquefasciatus	Visalia	14	BGSENT	8/29/18	SLEV
Yolo	SAYO103007	5346	Cx. tarsalis	Dunnigan	50	CO2	8/28/18	WNV
Yolo	SAYO103007	5350	Cx. pipiens	Dunnigan	50	CO2	8/28/18	WNV
Yolo	SAYO104006	5376	Cx. tarsalis	Dunnigan	50	CO2	8/28/18	WNV
Yolo	SAYO104006	5377	Cx. tarsalis	Dunnigan	50	CO2	8/28/18	WNV
Yolo	SAYO104006	5378	Cx. tarsalis	Dunnigan	50	CO2	8/28/18	WNV
Yolo	SAYO135006	5222	Cx. tarsalis	Woodland	50	CO2	8/24/18	WNV
Yolo	SAYO136008	5220	Cx. tarsalis	Davis	28	CO2	8/24/18	WNV
Yolo	SAYO136010	5245	Cx. tarsalis	Woodland	50	CO2	8/24/18	WNV
Yolo	SAYO145005	5301	Cx. tarsalis	Davis	50	CO2	8/28/18	WNV
Yuba	SUYA10	334	Cx. tarsalis	Olivehurst	12	REST	8/28/18	WNV
Yuba	SUYA108	335	Cx. tarsalis	Plumas Lake	28	CO2	8/29/18	WNV

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, August 31, 2018

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0005	Honcut	8/14/2018	WNV	1530		
Los Angeles	GRLA2651	Encino	8/20/2018	WNV	2855		
Los Angeles	LACW1006	Playa Del Rey	8/23/2018	WNV	1633	1635	1636
Placer	PLCR0757	Auburn	8/23/2018	WNV	1867		
Santa Clara	STCL3965	Sunnyvale	8/27/2018	WNV	2019	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 and SLEV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC websites: www.cdc.gov and https://wwwn.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html

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