

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018



Weekly Update

Humans

Two new human cases of West Nile virus (WNV) were reported this week from two counties: Butte (1) and San Joaquin (1). In 2018, a total of 12 human WNV cases have been reported from eight counties. Of the 12 case patients, six (50%) had neuroinvasive illness; no fatalities have been reported. The median age of the individuals is 58 years (range: 14–90 years) and seven (58%) are male. Dates of symptom onset ranged from May 6 – June 24. At this time last year, six human WNV cases had been reported from four counties.

Dead Birds

A total of 59 WNV positive dead birds were reported this week from nine counties: Alameda (1), Los Angeles (1), Placer (5), Sacramento (39), San Joaquin (2), Santa Clara (6), Santa Cruz (1), Sutter (1), and Yolo (3). **This is the first WNV positive dead bird in Sutter County this year.** In 2018, a total of 167 WNV positive dead birds have been reported from 14 counties. At this time last year, 115 WNV positive dead birds had been reported from 19 counties.

Mosquito Pools

West Nile virus

A total of 165 WNV positive mosquito pools were reported this week from 21 counties: Alameda (2), Butte (4), Fresno (5), Kern (4), Lake (1), Los Angeles (2), Madera (2), Merced (1), Orange (3), Placer (54), Riverside (4), Sacramento (21), San Bernardino (1), San Diego (1), San Joaquin (34), Santa Clara (1), Stanislaus (8), Sutter (6), Tulare (2), Yolo (8), and Yuba (1). **This is the first detection of WNV activity in Lake, San Diego, and Yuba counties this year.** In 2018, 480 mosquito pools have tested positive for WNV from 23 counties. At this time last year, 1,125 WNV positive mosquito pools had been reported from 22 counties.

St. Louis encephalitis virus

A total of 31 mosquito pools were reported positive for St. Louis encephalitis virus (SLEV) this week from five counties: Fresno (3), Kern (5), Kings (4), Riverside (6), and Tulare (13). **This is the first detection of SLEV in Kings County this year.** In 2018, 126 SLEV positive mosquito pools have been reported from 5 counties: Fresno (19), Kern (35), Kings (4), Riverside (14), and Tulare (54). At this time last year, 17 SLEV positive mosquito pools had been reported from 4 counties.

Sentinel Chickens

A total of four seroconversions were reported this week from two counties: Contra Costa (3), and Santa Clara (1). **This is the first WNV positive chicken reported from Santa Clara County this year.** In 2018, 11 WNV positive chickens have been reported from 2 counties. At this time last year, 34 WNV positive chickens had been reported from 3 counties.

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	4,329	4,382
# Positive Counties	27	27
# Human Cases	6	12
# Positive Dead Birds / # Tested	115 / 1,086	167 / 1,076
# Positive Mosquito Pools / # Tested	1,125 / 23,496	480 / 21,331
# Seroconversions / # Tested	34 / 5,917	11 / 5,115

YTD WNV Activity by Element and County, 2018				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		9	9	
Butte	1		12	
Contra Costa			2	10
El Dorado		2		
Fresno	2		16	
Humboldt		1		
Kern	2		7	
Lake			1	
Los Angeles	2	3	3	
Madera			4	
Merced			2	
Orange			4	
Placer		7	67	
Riverside	2	2	15	
Sacramento	1	106	163	
San Bernardino	1		3	
San Diego			1	
San Joaquin	1	3	123	
San Mateo		2		
Santa Clara		19	2	1
Santa Cruz		2		
Shasta			2	
Stanislaus		1	12	
Sutter		1	11	
Tulare			5	
Yolo		9	15	
Yuba			1	
Totals	12	167	480	11

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	2	0	0
	YTD	12	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	121	59
	YTD	1,076	167

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	384	4	0	0
	YTD	5,115	11	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	165 / 2,341	31 / 1,627	0 / 1,514	0 / 127	0 / 127	0 / 127
		YTD	480 / 21,331	126 / 16,640	0 / 15,184	0 / 567	0 / 567	0 / 567

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94537	American Crow	7/25/2018	WNV
Los Angeles	Los Angeles Co Veterinarian	Lancaster	93536	Northern Mockingbird	7/13/2018	WNV
Placer	Placer MVCD	Lincoln	95648	Yellow-billed Magpie	7/25/2018	WNV
Placer	Placer MVCD	Loomis	95650	American Robin	7/20/2018	WNV
Placer	Placer MVCD	Roseville	95661	Yellow-billed Magpie	7/22/2018	WNV
Placer	Placer MVCD	Roseville	95678	California Scrub-Jay	7/24/2018	WNV
Placer	Placer MVCD	Roseville	95747	American Robin	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/19/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/22/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Brewer's Blackbird	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Northern Mockingbird	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	7/22/2018	WNV

California Arbovirus Surveillance Bulletin #17
 Week 30 Friday, July 27, 2018

Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	California Scrub-Jay	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Robin	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	McClellan	95652	American Crow	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	House Sparrow	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	California Scrub-Jay	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	7/22/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	Western Screech Owl	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95816	California Scrub-Jay	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	Barn Owl	7/21/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	Northern Mockingbird	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	Northern Mockingbird	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	California Scrub-Jay	7/19/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Northern Mockingbird	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Yellow-billed Magpie	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/17/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	Yellow-billed Magpie	7/19/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/20/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Lesser Goldfinch	7/24/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	American Crow	7/18/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	House Finch	7/19/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	Yellow-billed Magpie	7/21/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	7/23/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	California Scrub-Jay	7/19/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Bluebird	7/23/2018	WNV
San Joaquin	San Joaquin Co MVCD	Escalon	95320	California Scrub-Jay	7/25/2018	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95242	American Crow	7/19/2018	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	7/17/2018	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	7/20/2018	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95127	Unknown - songbird	7/17/2018	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	7/13/2018	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	7/6/2018	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	7/9/2018	WNV
Santa Cruz	Santa Cruz MVCD	Davenport	95017	Common Raven	7/25/2018	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	California Scrub-Jay	7/23/2018	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	7/17/2018	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	7/18/2018	WNV
Yolo	Sacramento-Yolo MVCD	Yolo	95697	Yellow-billed Magpie	7/24/2018	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO538486	20175	Cx. pipiens	Union City	1	CO2	7/11/2018	WNV
Alameda	ALCO743237	20183	Cx. erythrothorax	Union City	16	CO2	7/11/2018	WNV
Butte	BUCO145	211	Cx. tarsalis	Palermo	50	CO2	7/23/2018	WNV
Butte	BUCO145	213	Cx. tarsalis	Palermo	50	CO2	7/23/2018	WNV
Butte	BUCO51	200	Cx. tarsalis	Dayton	50	CO2	7/18/2018	WNV
Butte	BUCO69	205	Cx. pipiens	Oroville	50	CO2	7/23/2018	WNV
Fresno	CNSL1182	195	Cx. quinquefasciatus	Fresno	50	GRVD	7/24/2018	WNV
Fresno	CNSL1925	197	Cx. quinquefasciatus	Clovis	50	GRVD	7/24/2018	WNV
Fresno	CNSL2330	190	Cx. quinquefasciatus	Clovis	30	GRVD	7/19/2018	WNV
Fresno	FRNO0	429	Unknown		50	NA	7/27/2018	WNV
Fresno	FRNO0	436	Unknown		50	NA	7/27/2018	WNV

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

Fresno	FRNO15	424	Cx. quinquefasciatus	Fresno	50	GRVD	7/25/18	SLEV
Fresno	FRNO163	417	Cx. quinquefasciatus		29	GRVD	7/24/18	SLEV
Fresno	FRNO235	422	Cx. quinquefasciatus	Fresno	14	GRVD	7/25/18	SLEV
Kern	DLNO51	114	Cx. quinquefasciatus	McFarland	29	GRVD	7/20/2018	WNV
Kern	DLNO58	102	Cx. quinquefasciatus	McFarland	50	CO2	7/19/2018	WNV
Kern	KERN1114	323	Cx. quinquefasciatus	Bakersfield	50	CO2	7/17/18	SLEV
Kern	KERN12	340	Cx. quinquefasciatus	Bakersfield	40	GRVD	7/20/18	SLEV
Kern	KERN2022	334	Cx. quinquefasciatus	Shafter	50	GRVD	7/19/2018	WNV
Kern	KERN2024	333	Cx. quinquefasciatus	Bakersfield	48	GRVD	7/19/18	SLEV
Kern	KERN2030	330	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/18/18	SLEV
Kern	KERN47	327	Cx. quinquefasciatus	Buttonwillow	50	GRVD	7/18/2018	WNV
Kern	WEST6282	57	Cx. tarsalis	Taft	50	CO2	7/25/18	SLEV
Kings	KNGS3018	71	Cx. tarsalis	Lemoore	50	CO2	7/19/18	SLEV
Kings	KNGS55021	53	Cx. pipiens	Hanford	24	BGSENT	7/17/18	SLEV
Kings	KNGS5506	66	Cx. tarsalis	Hanford	15	BGSENT	7/19/18	SLEV
Kings	KNGS55122	56	Cx. pipiens	Hanford	50	BGSENT	7/18/18	SLEV
Lake	LAKE1131	319	Cx. tarsalis	Lower Lake	50	CO2	7/24/2018	WNV
Los Angeles	GRLA2540	5577	Cx. quinquefasciatus	Porter Ranch	50	GRVD	7/18/2018	WNV
Los Angeles	GRLA2580	5578	Cx. quinquefasciatus	Sherman Oaks	21	GRVD	7/19/2018	WNV
Madera	MADR324	85	Cx. quinquefasciatus	Madera	49	CO2	7/17/2018	WNV
Madera	MADR3334	83	Cx. tarsalis	Madera	50	CO2	7/17/2018	WNV
Merced	MERC1222	206	Cx. tarsalis	Merced	33	CO2	7/24/2018	WNV
Orange	ORCO1040	2366	Cx. quinquefasciatus	Orange	50	GRVD	7/24/2018	WNV
Orange	ORCO208	2392	Cx. quinquefasciatus	Santa Ana	19	CO2	7/25/2018	WNV
Orange	ORCO306	2348	Cx. quinquefasciatus	Villa Park	50	GRVD	7/24/2018	WNV
Placer	PLCR1113	996	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	997	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	998	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	999	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1000	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1001	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1002	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1003	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1004	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1005	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1007	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1008	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1009	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1010	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1012	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1013	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1014	Cx. tarsalis	Pleasant Grove	50	CO2	7/24/2018	WNV
Placer	PLCR1113	1015	Cx. tarsalis	Pleasant Grove	28	CO2	7/24/2018	WNV
Placer	PLCR1114	981	Cx. tarsalis	Lincoln	50	CO2	7/24/2018	WNV
Placer	PLCR1114	984	Cx. tarsalis	Lincoln	50	CO2	7/24/2018	WNV
Placer	PLCR1114	990	Cx. tarsalis	Lincoln	50	CO2	7/24/2018	WNV
Placer	PLCR139	968	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR155	1016	Cx. tarsalis	Sheridan	27	CO2	7/24/2018	WNV
Placer	PLCR17	962	Cx. tarsalis	Sheridan	34	CO2	7/24/2018	WNV
Placer	PLCR191218	1049	Cx. pipiens		29	CO2	7/24/2018	WNV
Placer	PLCR191218	1050	Cx. tarsalis		50	CO2	7/24/2018	WNV
Placer	PLCR191218	1052	Cx. tarsalis		50	CO2	7/24/2018	WNV
Placer	PLCR191218	1053	Cx. tarsalis		50	CO2	7/24/2018	WNV
Placer	PLCR191350	1058	Cx. pipiens		50	CO2	7/24/2018	WNV
Placer	PLCR191350	1059	Cx. pipiens		28	CO2	7/24/2018	WNV
Placer	PLCR191373	1033	Cx. tarsalis		40	CO2	7/24/2018	WNV
Placer	PLCR191998	1065	Cx. tarsalis	Lincoln	36	CO2	7/24/2018	WNV
Placer	PLCR411	1072	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1073	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

Placer	PLCR411	1074	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1075	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1076	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1077	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1078	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1079	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1080	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1081	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1082	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1083	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1084	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1085	Cx. tarsalis	Roseville	50	CO2	7/24/2018	WNV
Placer	PLCR411	1086	Cx. tarsalis	Roseville	43	CO2	7/24/2018	WNV
Placer	PLCR411	1088	Cx. tarsalis	Roseville	44	CO2	7/24/2018	WNV
Placer	PLCR668	1042	Cx. tarsalis	Elverta	50	CO2	7/24/2018	WNV
Placer	PLCR668	1043	Cx. tarsalis	Elverta	50	CO2	7/24/2018	WNV
Placer	PLCR668	1044	Cx. tarsalis	Elverta	50	CO2	7/24/2018	WNV
Placer	PLCR668	1046	Cx. pipiens	Elverta	7	CO2	7/24/2018	WNV
Placer	PLCR668	1047	Cx. stigmatosoma	Elverta	1	CO2	7/24/2018	WNV
Placer	PLCR81	1022	Cx. pipiens	Roseville	1	CO2	7/24/2018	WNV
Riverside	COAV0	3144	Cx. quinquefasciatus		11	CO2	7/26/18	SLEV
Riverside	COAV0	3147	Cx. tarsalis		50	CO2	7/26/18	SLEV
Riverside	COAV0	3148	Cx. tarsalis		50	CO2	7/26/18	SLEV
Riverside	COAV121	2999	Cx. tarsalis	Mecca	50	CO2	7/20/18	SLEV
Riverside	COAV121	3000	Cx. tarsalis	Mecca	38	CO2	7/20/18	SLEV
Riverside	COAV121	3149	Cx. tarsalis	Mecca	62	OTHER	7/26/2018	WNV
Riverside	COAV200	3020	Cx. tarsalis	Mecca	50	CO2	7/24/18	SLEV
Riverside	COAV30	3029	Cx. tarsalis	Mecca	23	CO2	7/24/2018	WNV
Riverside	COAV30	3030	Cx. quinquefasciatus	Mecca	50	CO2	7/24/2018	WNV
Riverside	NWST69	61	Cx. quinquefasciatus	Riverside	45	CO2	7/18/2018	WNV
Sacramento	SAYO202006	3699	Cx. pipiens	Sacramento	23	GRVD	7/24/2018	WNV
Sacramento	SAYO204009	3576	Cx. pipiens	Citrus Heights	31	GRVD	7/20/2018	WNV
Sacramento	SAYO204013	3579	Cx. pipiens	Citrus Heights	16	GRVD	7/20/2018	WNV
Sacramento	SAYO212021	3687	Cx. pipiens	Sacramento	16	GRVD	7/24/2018	WNV
Sacramento	SAYO212033	3693	Cx. tarsalis	Sacramento	45	CO2	7/24/2018	WNV
Sacramento	SAYO212033	3694	Cx. pipiens	Sacramento	36	CO2	7/24/2018	WNV
Sacramento	SAYO212033	3695	Cx. pipiens	Sacramento	19	GRVD	7/24/2018	WNV
Sacramento	SAYO214013	3584	Cx. pipiens	Carmichael	5	CO2	7/20/2018	WNV
Sacramento	SAYO215005	3604	Cx. pipiens	Folsom	30	GRVD	7/20/2018	WNV
Sacramento	SAYO222064	3668	Cx. pipiens	Sacramento	50	GRVD	7/24/2018	WNV
Sacramento	SAYO223003	3574	Cx. pipiens	Sacramento	50	GRVD	7/20/2018	WNV
Sacramento	SAYO233015	3672	Cx. pipiens	Sacramento	12	GRVD	7/24/2018	WNV
Sacramento	SAYO243017	3473	Cx. pipiens	Elk Grove	12	GRVD	7/20/2018	WNV
Sacramento	SAYO243026	3479	Cx. tarsalis	Elk Grove	2	GRVD	7/20/2018	WNV
Sacramento	SAYO243026	3482	Cx. pipiens	Elk Grove	39	CO2	7/20/2018	WNV
Sacramento	SAYO243026	3483	Cx. pipiens	Elk Grove	43	GRVD	7/20/2018	WNV
Sacramento	SAYO243028	3507	Cx. tarsalis	Elk Grove	50	CO2	7/20/2018	WNV
Sacramento	SAYO243032	3455	Cx. tarsalis	Elk Grove	28	CO2	7/20/2018	WNV
Sacramento	SAYO243034	3462	Cx. tarsalis	Elk Grove	8	CO2	7/20/2018	WNV
Sacramento	SAYO243042	3498	Cx. tarsalis	Elk Grove,	50	CO2	7/20/2018	WNV
Sacramento	SAYO245026	3522	Cx. pipiens	Wilton	9	GRVD	7/20/2018	WNV
San Bernardino	WVAL7002	915	Cx. quinquefasciatus	Montclair	17	GRVD	7/17/2018	WNV
San Diego	SAND13892	2032	Cx. quinquefasciatus	Santee	21	GRVD	7/11/2018	WNV
San Joaquin	SJCM7011	1352	Cx. pipiens	Stockton	17	GRVD	7/24/2018	WNV
San Joaquin	SJCM8004	1383	Cx. tarsalis	Lodi	40	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1368	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1369	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1370	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1372	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

San Joaquin	SJCM8018	1374	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1375	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1376	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1377	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1378	Cx. tarsalis	Stockton	48	CO2	7/24/2018	WNV
San Joaquin	SJCM8018	1379	Cx. pipiens	Stockton	6	CO2	7/24/2018	WNV
San Joaquin	SJCM8022	1418	Cx. pipiens	Holt	31	CO2	7/24/2018	WNV
San Joaquin	SJCM8029	1430	Cx. tarsalis	Farmington	17	CO2	7/26/2018	WNV
San Joaquin	SJCM8041	1386	Cx. tarsalis	Lodi	24	CO2	7/24/2018	WNV
San Joaquin	SJCM8047	1432	Cx. tarsalis	Stockton	6	CO2	7/26/2018	WNV
San Joaquin	SJCM8056	1397	Cx. tarsalis	Manteca	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8056	1398	Cx. tarsalis	Manteca	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8094	1424	Cx. tarsalis	Manteca	15	CO2	7/24/2018	WNV
San Joaquin	SJCM8100	1403	Cx. pipiens	Tracy	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8143	1381	Cx. tarsalis	Stockton	29	CO2	7/24/2018	WNV
San Joaquin	SJCM8198	1350	Cx. pipiens	Stockton	15	CO2	7/24/2018	WNV
San Joaquin	SJCM8204	1360	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8204	1361	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8204	1362	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8204	1363	Cx. tarsalis	Stockton	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1353	Cx. tarsalis	Lodi	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1354	Cx. tarsalis	Lodi	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1355	Cx. tarsalis	Lodi	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1356	Cx. tarsalis	Lodi	50	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1358	Cx. tarsalis	Lodi	34	CO2	7/24/2018	WNV
San Joaquin	SJCM8206	1359	Cx. pipiens	Lodi	9	CO2	7/24/2018	WNV
San Joaquin	SJCM8211	1339	Cx. tarsalis	Stockton	23	CO2	7/24/2018	WNV
San Joaquin	SJCM8222	1342	Cx. pipiens	Stockton	7	CO2	7/24/2018	WNV
Santa Clara	STCL1212	1136	Cx. pipiens	Sunnyvale	10	CO2	7/19/2018	WNV
Stanislaus	TRLK1615	739	Cx. tarsalis	Modesto	50	CO2	7/25/2018	WNV
Stanislaus	TRLK1615	741	Cx. tarsalis	Modesto	50	CO2	7/25/2018	WNV
Stanislaus	TRLK18182	705	Cx. pipiens	Denair	50	CO2	7/20/2018	WNV
Stanislaus	TRLK2	772	Cx. tarsalis	Vernalis	50	CO2	7/25/2018	WNV
Stanislaus	TRLK2	776	Cx. tarsalis	Vernalis	50	CO2	7/25/2018	WNV
Stanislaus	TRLK307	770	Cx. tarsalis	Grayson	50	CO2	7/25/2018	WNV
Stanislaus	TRLK424	744	Cx. tarsalis	Patterson	50	CO2	7/25/2018	WNV
Stanislaus	TRLK9732	752	Cx. tarsalis	Newman	50	CO2	7/25/2018	WNV
Sutter	SUYA14	228	Cx. tarsalis	Sutter	50	REST	7/24/2018	WNV
Sutter	SUYA15	208	Cx. tarsalis	Robbins	50	CO2	7/24/2018	WNV
Sutter	SUYA24	224	Cx. tarsalis	Yuba City	44	REST	7/24/2018	WNV
Sutter	SUYA5	225	Cx. tarsalis	Live Oak	50	CO2	7/25/2018	WNV
Sutter	SUYA63	222	Cx. tarsalis	Live Oak	38	REST	7/24/2018	WNV
Sutter	SUYA70	207	Cx. tarsalis	Yuba City	50	CO2	7/24/2018	WNV
Tulare	DLNO75	124	Cx. quinquefasciatus	Earlimart	12	GRVD	7/24/2018	WNV
Tulare	DLTA8413	2138	Cx. quinquefasciatus	Visalia	13	GRVD	7/18/2018	WNV
Tulare	DLTA8424	2144	Cx. quinquefasciatus	Visalia	27	GRVD	7/18/18	SLEV
Tulare	DLTA9401	2105	Cx. quinquefasciatus	Visalia	23	GRVD	7/18/18	SLEV
Tulare	DLTA9412	1974	Cx. quinquefasciatus	Visalia	19	GRVD	7/12/2018	SLEV
Tulare	DLTA9506	2186	Cx. quinquefasciatus	Visalia	12	GRVD	7/19/18	SLEV
Tulare	TLRE192412	101	Cx. quinquefasciatus	Visalia	50	GRVD	7/19/18	SLEV
Tulare	TLRE192436	98	Cx. quinquefasciatus	Tulare	50	GRVD	7/19/18	SLEV
Tulare	TLRE192507	88	Cx. quinquefasciatus	Visalia	50	GRVD	7/18/18	SLEV
Tulare	TLRE192507	99	Cx. quinquefasciatus	Visalia	50	GRVD	7/19/18	SLEV
Tulare	TLRE192508	90	Cx. quinquefasciatus	Visalia	50	GRVD	7/18/18	SLEV
Tulare	TLRE192508	100	Cx. quinquefasciatus	Visalia	50	GRVD	7/19/18	SLEV
Tulare	TLRE202401	92	Cx. quinquefasciatus	Tulare	50	GRVD	7/19/18	SLEV
Tulare	TLRE202402	85	Cx. quinquefasciatus	Tulare	50	GRVD	7/18/18	SLEV
Tulare	TLRE202413	81	Cx. quinquefasciatus	Tulare	50	GRVD	7/18/18	SLEV
Yolo	SAYO104006	3716	Cx. tarsalis	Dunnigan	50	CO2	7/24/2018	WNV

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

Yolo	SAYO114001	3722	Cx. tarsalis	Zamora	50	CO2	7/24/2018	WNV
Yolo	SAYO114001	3725	Cx. pipiens	Zamora	1	CO2	7/24/2018	WNV
Yolo	SAYO114001	3726	Cx. pipiens	Zamora	3	GRVD	7/24/2018	WNV
Yolo	SAYO115008	3729	Cx. tarsalis	Woodland	50	CO2	7/24/2018	WNV
Yolo	SAYO125014	3540	Cx. pipiens	Woodland	7	GRVD	7/20/2018	WNV
Yolo	SAYO135009	3549	Cx. tarsalis	Woodland	2	CO2	7/20/2018	WNV
Yolo	SAYO136010	3596	Cx. tarsalis	Woodland	50	CO2	7/20/2018	WNV
Yuba	SUYA8	213	Cx. tarsalis	Marysville	50	CO2	7/24/2018	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Contra Costa	CNTR2302	Martinez	7/16/2018	WNV	1447	1449	1450
Santa Clara	STCL0028	Palo Alto	7/16/2018	WNV	2006		

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.

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 27, 2018

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/arbonet/maps/ADB_Diseases_Map/index.html

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