

California Arbovirus Surveillance Bulletin #16

Week 29 Friday, July 20, 2018



Weekly Update

Humans

No new cases were reported this week. In 2018, a total of 10 human West Nile virus (WNV) cases have been reported from 6 counties. Of the 10 case patients, 5 (50%) had neuroinvasive illness; no fatalities have been reported. The median age of the individuals is 58 years (range: 14–90 years) and 6 (60%) are male. Dates of symptom onset ranged from May 6 – May 28. At this time last year, 4 human WNV cases had been reported from 4 counties.

Dead Birds

A total of 41 WNV positive dead birds were reported this week from 5 counties: Alameda (1), Placer (1), Sacramento (31), Santa Clara (7), and Yolo (1). In 2018, a total of 108 WNV positive dead birds have been reported from 13 counties. At this time last year, 89 WNV positive dead birds had been reported from 17 counties.

Mosquito Pools

West Nile virus

A total of 144 WNV positive mosquito pools were reported this week from 12 counties: Butte (4), Contra Costa (2), Fresno (11), Kern (2), Madera (2), Placer (9), Riverside (2), Sacramento (66), San Joaquin (34), Shasta (2), Sutter (5), and Yolo (5). **This is the first detection of WNV activity in Madera, Shasta, and Sutter counties in 2018, and the first WNV positive mosquito pools detected in Contra Costa and Fresno counties this year.** In 2018, 315 mosquito pools have tested positive for WNV from 20 counties. At this time last year, 895 WNV positive mosquito pools had been reported from 20 counties.

St. Louis encephalitis virus

A total of 25 mosquito pools were reported positive for St. Louis encephalitis virus (SLEV) this week from 4 counties: Fresno (11), Kern (8), Riverside (3), and Tulare (3). In 2018, 95 SLEV positive mosquito pools have been reported from 4 counties: Fresno (16), Kern (30), Riverside (8), and Tulare (41). At this time last year, 11 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

No new seroconversions were reported this week. In 2018, 7 WNV positive chickens have been reported from 1 county. At this time last year, 21 WNV positive chickens had been reported from 3 counties.

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2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	4,122	3,973
# Positive Counties	25	24
# Human Cases	4	10
# Positive Dead Birds / # Tested	89 / 1,020	108 / 956
# Positive Mosquito Pools / # Tested	895 / 21,913	315 / 18,990
# Seroconversions / # Tested	21 / 5,556	7 / 4,437

YTD WNV Activity by Element and County, 2018				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		8	7	
Butte			8	
Contra Costa			2	7
El Dorado		2		
Fresno	2		11	
Humboldt		1		
Kern	2		3	
Los Angeles	2	2	1	
Madera			2	
Merced			1	
Orange			1	
Placer		2	13	
Riverside	2	2	11	
Sacramento	1	67	142	
San Bernardino	1		2	
San Joaquin		1	89	
San Mateo		2		
Santa Clara		13	1	
Santa Cruz		1		
Shasta			2	
Sutter			5	
Stanislaus		1	4	
Tulare			3	
Yolo		6	7	
Totals	10	108	315	7

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	0	0	0
	YTD	10	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	147	41
	YTD	956	108

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	278	0	0	0
	YTD	4,731	7	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	144 / 1,751	25 / 1,655	0 / 1,505	0 / 0	0 / 0	0 / 0
	YTD	315 / 18,990	95 / 15,013	0 / 13,670	0 / 440	0 / 440	0 / 440

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94536	American Crow	7/17/2018	WNV
Placer	Placer MVCD	Roseville	95678	Yellow-billed Magpie	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/15/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/10/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Northern Mockingbird	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	American Crow	7/12/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	California Scrub-Jay	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Northern Mockingbird	7/14/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Northern Mockingbird	7/14/2018	WNV

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Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	California Scrub-Jay	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	7/10/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Foothill Farms	95842	California Scrub-Jay	7/14/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	7/15/2018	WNV
Sacramento	Sacramento-Yolo MVCD	North Highlands	95660	Cooper's Hawk	7/11/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	California Scrub-Jay	7/14/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	California Scrub-Jay	7/17/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	Yellow-billed Magpie	7/11/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	Yellow-billed Magpie	7/12/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	Northern Mockingbird	7/17/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Robin	7/17/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Cooper's Hawk	7/12/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Yellow-billed Magpie	7/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Robin	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/12/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/14/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	California Scrub-Jay	7/10/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	California Scrub-Jay	7/15/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	California Scrub-Jay	7/16/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	7/9/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Red-shouldered Hawk	7/13/2018	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	7/17/2018	WNV
Santa Clara	Santa Clara Co VCD	San Jose	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	94086	American Crow	7/18/2018	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	7/18/2018	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	7/9/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	7/16/2018	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO129	166	Cx. tarsalis	Gridley	50	CO2	7/16/18	WNV
Butte	BUCO129	167	Cx. tarsalis	Gridley	50	CO2	7/16/18	WNV
Butte	BUCO129	168	Cx. tarsalis	Gridley	50	CO2	7/16/18	WNV
Butte	BUCO34	165	Cx. tarsalis	Richvale	50	CO2	7/11/18	WNV
Contra Costa	CNTR8202	157	Cx. pipiens	Discovery Bay	50	CO2	7/11/18	WNV
Contra Costa	CNTR8302	184	Cx. tarsalis	Knightsen	31	CO2	7/16/18	WNV
Fresno	CNSL1074	151	Cx. quinquefasciatus	Fresno	42	GRVD	7/10/18	SLEV
Fresno	CNSL1074	151	Cx. quinquefasciatus	Fresno	42	GRVD	7/10/18	WNV
Fresno	CNSL1125	175	Cx. quinquefasciatus	Fresno	45	GRVD	7/13/18	SLEV
Fresno	CNSL1125	175	Cx. quinquefasciatus	Fresno	45	GRVD	7/13/18	WNV
Fresno	CNSL1754	171	Cx. quinquefasciatus	Fresno	31	GRVD	7/13/18	SLEV
Fresno	CNSL1754	171	Cx. quinquefasciatus	Fresno	31	GRVD	7/13/18	WNV
Fresno	CNSL1908	163	Cx. quinquefasciatus	Clovis	13	GRVD	7/12/18	WNV
Fresno	CNSL1908	165	Cx. quinquefasciatus	Clovis	44	GRVD	7/12/18	WNV
Fresno	FRNO14	393	Cx. quinquefasciatus	Fresno	50	GRVD	7/18/18	SLEV
Fresno	FRNO15	381	Cx. quinquefasciatus	Fresno	50	GRVD	7/18/18	WNV

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Fresno	FRNO165	388	Cx. quinquefasciatus		50	GRVD	7/18/18	SLEV
Fresno	FRNO165	390	Cx. quinquefasciatus		27	GRVD	7/18/18	SLEV
Fresno	FRNO198	371	Cx. quinquefasciatus		36	GRVD	7/17/18	SLEV
Fresno	FRNO38	399	Cx. quinquefasciatus	Fresno	50	GRVD	7/19/18	WNV
Fresno	FRNO38	400	Cx. quinquefasciatus	Fresno	50	GRVD	7/19/18	WNV
Fresno	FRNO38	401	Cx. quinquefasciatus	Fresno	50	GRVD	7/19/18	SLEV
Fresno	FRNO38	401	Cx. quinquefasciatus	Fresno	50	GRVD	7/19/18	WNV
Fresno	FRNO38	402	Cx. quinquefasciatus	Fresno	19	GRVD	7/19/18	WNV
Fresno	FRNO7	386	Cx. quinquefasciatus	Fresno	50	GRVD	7/18/18	SLEV
Fresno	FRNO7	387	Cx. quinquefasciatus	Fresno	28	GRVD	7/18/18	SLEV
Fresno	FRNO8005	403	Cx. quinquefasciatus		50	GRVD	7/19/18	WNV
Fresno	FRNO82	380	Cx. quinquefasciatus	Fresno	17	GRVD	7/17/18	SLEV
Kern	KERN1102	302	Cx. quinquefasciatus	Wasco	38	CO2	7/12/18	WNV
Kern	KERN1114	279	Cx. quinquefasciatus	Bakersfield	50	CO2	7/10/18	SLEV
Kern	KERN121	309	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/13/18	SLEV
Kern	KERN2002	310	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/13/18	SLEV
Kern	KERN2014	286	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/11/18	SLEV
Kern	KERN2020	287	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/11/18	SLEV
Kern	KERN2024	293	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/12/18	SLEV
Kern	KERN2027	285	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/11/18	SLEV
Kern	KERN2028	284	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/11/18	SLEV
Kern	WEST6230	50	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/18/18	WNV
Madera	MADR884	77	Cx. tarsalis	Madera	50	CO2	7/12/18	WNV
Madera	MADR920	73	Cx. quinquefasciatus	Chowchilla	50	CO2	7/11/18	WNV
Placer	PLCR139	835	Cx. tarsalis	Roseville	50	CO2	7/17/18	WNV
Placer	PLCR191373	826	Cx. tarsalis		50	CO2	7/17/18	WNV
Placer	PLCR411	891	Cx. tarsalis	Roseville	50	CO2	7/17/18	WNV
Placer	PLCR516	876	Cx. tarsalis	Roseville	28	CO2	7/17/18	WNV
Placer	PLCR519	880	Cx. pipiens	Roseville	1	CO2	7/17/18	WNV
Placer	PLCR668	897	Cx. tarsalis	Elverta	50	CO2	7/17/18	WNV
Placer	PLCR668	898	Cx. tarsalis	Elverta	50	CO2	7/17/18	WNV
Placer	PLCR668	899	Cx. tarsalis	Elverta	50	CO2	7/17/18	WNV
Placer	PLCR668	900	Cx. tarsalis	Elverta	50	CO2	7/17/18	WNV
Riverside	COAV45	2940	Cx. tarsalis	Mecca	50	CO2	7/17/18	SLEV
Riverside	COAV45	2942	Cx. tarsalis	Mecca	45	CO2	7/17/18	WNV
Riverside	COAV48	2900	Cx. tarsalis	Mecca	15	CO2	7/17/18	SLEV
Riverside	COAV58	2937	Cx. tarsalis	Mecca	12	CO2	7/17/18	SLEV
Riverside	NWST0158	46	Cx. quinquefasciatus	Riverside	17	CO2	7/11/18	WNV
Sacramento	SAYO201006	3332	Cx. tarsalis	Sacramento	50	CO2	7/17/18	WNV
Sacramento	SAYO204013	3066	Cx. pipiens	Citrus Heights	10	CO2	7/13/18	WNV
Sacramento	SAYO204020	3282	Cx. pipiens	Sacramento	9	CO2	7/17/18	WNV
Sacramento	SAYO204020	3283	Cx. pipiens	Sacramento	22	GRVD	7/17/18	WNV
Sacramento	SAYO204051	3061	Cx. tarsalis	Citrus Heights	14	CO2	7/13/18	WNV
Sacramento	SAYO204051	3063	Cx. pipiens	Citrus Heights	6	CO2	7/13/18	WNV
Sacramento	SAYO212009	3284	Cx. tarsalis	Sacramento	50	CO2	7/17/18	WNV
Sacramento	SAYO212021	3279	Cx. pipiens	Sacramento	4	CO2	7/17/18	WNV
Sacramento	SAYO212033	3304	Cx. pipiens	Sacramento	50	GRVD	7/17/18	WNV
Sacramento	SAYO212033	3305	Cx. pipiens	Sacramento	29	GRVD	7/17/18	WNV
Sacramento	SAYO214020	3079	Cx. pipiens	Rancho Cordova	10	GRVD	7/13/18	WNV
Sacramento	SAYO222010	3418	Cx. pipiens	Sacramento	6	CO2	7/19/18	WNV
Sacramento	SAYO222010	3419	Cx. pipiens	Sacramento	37	GRVD	7/19/18	WNV
Sacramento	SAYO222011	3432	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222011	3433	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222032	3272	Cx. pipiens	Sacramento	50	GRVD	7/17/18	WNV

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Sacramento	SAYO222032	3273	Cx. pipiens	Sacramento	29	GRVD	7/17/18	WNV
Sacramento	SAYO222059	3447	Cx. tarsalis	Sacramento	10	GRVD	7/19/18	WNV
Sacramento	SAYO222059	3450	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222059	3451	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222059	3452	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222059	3454	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO222065	3420	Cx. tarsalis	Sacramento	4	CO2	7/19/18	WNV
Sacramento	SAYO223047	3004	Cx. tarsalis	Sacramento	50	CO2	7/13/18	WNV
Sacramento	SAYO223047	3008	Cx. pipiens	Sacramento	50	GRVD	7/13/18	WNV
Sacramento	SAYO223047	3009	Cx. pipiens	Sacramento	43	GRVD	7/13/18	WNV
Sacramento	SAYO223047	3437	Cx. tarsalis	Sacramento	7	GRVD	7/19/18	WNV
Sacramento	SAYO223047	3439	Cx. pipiens	Sacramento	50	GRVD	7/19/18	WNV
Sacramento	SAYO223047	3440	Cx. pipiens	Sacramento	49	GRVD	7/19/18	WNV
Sacramento	SAYO223048	3256	Cx. pipiens	Sacramento	43	GRVD	7/17/18	WNV
Sacramento	SAYO232012	3210	Cx. pipiens	Elk Grove	16	CO2	7/17/18	WNV
Sacramento	SAYO232038	3405	Cx. pipiens	Sacramento	12	GRVD	7/19/18	WNV
Sacramento	SAYO233008	3013	Cx. pipiens	Sacramento	18	GRVD	7/13/18	WNV
Sacramento	SAYO233009	3393	Cx. pipiens	Elk Grove	42	CO2	7/19/18	WNV
Sacramento	SAYO233009	3394	Cx. pipiens	Elk Grove	28	GRVD	7/19/18	WNV
Sacramento	SAYO233018	3358	Cx. tarsalis	Sacramento	10	CO2	7/17/18	WNV
Sacramento	SAYO233018	3360	Cx. pipiens	Sacramento	21	CO2	7/17/18	WNV
Sacramento	SAYO233018	3361	Cx. pipiens	Sacramento	50	GRVD	7/17/18	WNV
Sacramento	SAYO233027	3387	Cx. pipiens	Elk Grove	7	CO2	7/19/18	WNV
Sacramento	SAYO233032	3193	Cx. tarsalis	Sacramento	4	GRVD	7/17/18	WNV
Sacramento	SAYO233032	3195	Cx. pipiens	Sacramento	50	GRVD	7/17/18	WNV
Sacramento	SAYO233032	3196	Cx. pipiens	Sacramento	15	GRVD	7/17/18	WNV
Sacramento	SAYO233058	3207	Cx. pipiens	Sacramento	6	GRVD	7/17/18	WNV
Sacramento	SAYO233060	2991	Cx. pipiens	Elk Grove	4	GRVD	7/13/18	WNV
Sacramento	SAYO233066	3261	Cx. pipiens	Sacramento	50	GRVD	7/17/18	WNV
Sacramento	SAYO233067	2987	Cx. pipiens	Elk Grove	50	GRVD	7/13/18	WNV
Sacramento	SAYO233067	3408	Cx. pipiens	Elk Grove	14	GRVD	7/19/18	WNV
Sacramento	SAYO233087	3368	Cx. pipiens	Elk Grove	18	GRVD	7/17/18	WNV
Sacramento	SAYO233089	3369	Cx. tarsalis	Elk Grove	9	CO2	7/17/18	WNV
Sacramento	SAYO233089	3373	Cx. pipiens	Elk Grove	50	GRVD	7/17/18	WNV
Sacramento	SAYO233089	3374	Cx. pipiens	Elk Grove	50	GRVD	7/17/18	WNV
Sacramento	SAYO233089	3375	Cx. pipiens	Elk Grove	23	GRVD	7/17/18	WNV
Sacramento	SAYO233093	3425	Cx. pipiens	Elk Grove	50	GRVD	7/19/18	WNV
Sacramento	SAYO233093	3426	Cx. pipiens	Elk Grove	50	GRVD	7/19/18	WNV
Sacramento	SAYO234027	3385	Cx. pipiens	Elk Grove	19	GRVD	7/19/18	WNV
Sacramento	SAYO235001	3112	Cx. tarsalis	Wilton	3	GRVD	7/13/18	WNV
Sacramento	SAYO243009	3391	Cx. pipiens	Elk Grove	34	GRVD	7/19/18	WNV
Sacramento	SAYO243013	3401	Cx. pipiens	Elk Grove	35	GRVD	7/19/18	WNV
Sacramento	SAYO243017	3054	Cx. pipiens	Elk Grove	50	CO2	7/13/18	WNV
Sacramento	SAYO243017	3059	Cx. pipiens	Elk Grove	50	GRVD	7/13/18	WNV
Sacramento	SAYO243026	3043	Cx. pipiens	Elk Grove	50	CO2	7/13/18	WNV
Sacramento	SAYO243032	3028	Cx. pipiens	Elk Grove	14	GRVD	7/13/18	WNV
Sacramento	SAYO243034	3035	Cx. tarsalis	Elk Grove	1	GRVD	7/13/18	WNV
Sacramento	SAYO245002	3127	Cx. pipiens	Wilton	19	CO2	7/13/18	WNV
Sacramento	SAYO245026	3120	Cx. tarsalis	Wilton	6	GRVD	7/13/18	WNV
Sacramento	SAYO253016	3144	Cx. pipiens	Galt	1	GRVD	7/13/18	WNV
San Joaquin	SJCM8008	1302	Cx. tarsalis	Manteca	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1221	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1222	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1223	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV

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San Joaquin	SJCM8018	1224	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1225	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1226	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1227	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1228	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1229	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1230	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1231	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1232	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1233	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1234	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1235	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1236	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1237	Cx. tarsalis	Stockton	36	CO2	7/17/18	WNV
San Joaquin	SJCM8018	1238	Cx. pipiens	Stockton	9	CO2	7/17/18	WNV
San Joaquin	SJCM8027	1212	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8027	1214	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8027	1216	Cx. tarsalis	Stockton	51	CO2	7/17/18	WNV
San Joaquin	SJCM8027	1217	Cx. pipiens	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8048	1193	Cx. pipiens	Stockton	11	CO2	7/17/18	WNV
San Joaquin	SJCM8111	1255	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8125	1190	Cx. pipiens	Stockton	42	CO2	7/17/18	WNV
San Joaquin	SJCM8160	1305	Cx. pipiens	Lodi	19	CO2	7/17/18	WNV
San Joaquin	SJCM8160	1306	Cx. tarsalis	Lodi	50	CO2	7/17/18	WNV
San Joaquin	SJCM8160	1307	Cx. tarsalis	Lodi	50	CO2	7/17/18	WNV
San Joaquin	SJCM8198	1195	Cx. tarsalis	Stockton	50	CO2	7/17/18	WNV
San Joaquin	SJCM8198	1196	Cx. tarsalis	Stockton	32	CO2	7/17/18	WNV
San Joaquin	SJCM8198	1197	Cx. pipiens	Stockton	11	CO2	7/17/18	WNV
San Joaquin	SJCM8199	1296	Cx. pipiens	Manteca	50	CO2	7/17/18	WNV
San Joaquin	SJCM8213	1201	Cx. tarsalis	Lodi	48	CO2	7/17/18	WNV
Shasta	SHAS110	311	Cx. tarsalis	Redding	32	CO2	7/17/18	WNV
Shasta	SHAS80	291	Cx. pipiens	Anderson	50	GRVD	7/16/18	WNV
Sutter	SUYA24	168	Cx. tarsalis	Yuba City	50	REST	7/16/18	WNV
Sutter	SUYA27	198	Cx. tarsalis	Tierra Buena	41	CO2	7/18/18	WNV
Sutter	SUYA63	163	Cx. tarsalis	Live Oak	50	REST	7/16/18	WNV
Sutter	SUYA63	164	Cx. tarsalis	Live Oak	50	REST	7/16/18	WNV
Sutter	SUYA9	196	Cx. tarsalis	Sutter	50	CO2	7/18/18	WNV
Tulare	DLTA8435	2037	Cx. quinquefasciatus	Visalia	28	GRVD	7/13/18	SLEV
Tulare	DLTA8532	2076	Cx. quinquefasciatus	Visalia	17	GRVD	7/17/18	SLEV
Tulare	DLTA9521	2068	Cx. quinquefasciatus		14	CO2	7/17/18	SLEV
Yolo	SAYO135005	3174	Cx. pipiens	Woodland	9	GRVD	7/13/18	WNV
Yolo	SAYO136010	3187	Cx. tarsalis	Woodland	50	CO2	7/13/18	WNV
Yolo	SAYO146002	3221	Cx. pipiens	Davis	8	GRVD	7/17/18	WNV
Yolo	SAYO146006	3239	Cx. pipiens	Davis	7	CO2	7/17/18	WNV
Yolo	SAYO146012	3229	Cx. pipiens	Davis	50	GRVD	7/17/18	WNV

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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.

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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