

California Arbovirus Surveillance Bulletin #20

Week 33 Friday, August 17, 2018



Weekly Update

Humans

A total of two new human cases of West Nile virus (WNV) illness were reported this week from two counties: Merced (1), and San Joaquin (1). **This is the first WNV human case reported from Merced County.** In 2018, a total of 21 human West Nile virus (WNV) cases have been reported from 12 counties. Of the 21 case patients, 12 (57%) had neuroinvasive illness; no fatalities have been reported. The median age of the individuals is 57 years (range: 14–90 years) and 16 (76%) are male. Dates of symptom onset ranged from May 6 – July 23. In addition to the 19 cases, nine asymptomatic infections have been reported from Butte (1), Fresno (1), Los Angeles (2), San Joaquin (1), Stanislaus (3), and Yolo (1) counties. At this time last year, 41 human WNV cases had been reported from 9 counties.

Dead Birds

A total of 32 WNV positive dead birds were reported this week from 11 counties: Contra Costa (5), Los Angeles (1), Orange (1), Placer (3), Sacramento (13), San Joaquin (1), San Mateo (1), Santa Clara (2), Shasta (2), Sutter (1), and Yolo (2). **This is the first WNV positive dead bird reported from Shasta County this year.** In 2018, a total of 316 WNV positive dead birds have been reported from 18 counties. At this time last year, 203 WNV positive dead birds had been reported from 29 counties.

Mosquito Pools

West Nile virus

A total of 177 WNV positive mosquito pools were reported this week from 24 counties: Alameda (1), Butte (1), Contra Costa (5), Fresno (10), Glenn (3), Kern (8), Kings (2), Lake (2), Los Angeles (5), Madera (5), Merced (1), Orange (4), Placer (20), Sacramento (13), San Bernardino (1), San Joaquin (34), San Mateo (2), Shasta (1), Solano (1), Stanislaus (20), Sutter (4), Tulare (15), and Yolo (16). **This is the first detection of WNV activity in Solano County and the first positive mosquito pools reported in San Mateo County this year.** In 2018, 1,119 mosquito pools have tested positive for WNV from 27 counties. At this time last year, 2,049 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 35 mosquito pools were reported positive for St. Louis encephalitis virus (SLEV) this week from 6 counties: Fresno (6), Imperial (1), Kern (5), Kings (1), Riverside (7), and Tulare (15). In 2018, 212 SLEV positive mosquito pools have been reported from 7 counties: Fresno (32), Imperial (3), Kern (49), Kings (8), Los Angeles (1), Riverside (27), and Tulare (92). At this time last year, 39 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

A total of 6 WNV seroconversions were reported this week from 3 counties: Contra Costa (3), Los Angeles (2), and Placer (1). In 2018, 44 WNV positive chickens have been reported from 8 counties. At this time last year, 92 WNV positive chickens had been reported from 9 counties.

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2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	5,120	5,471
# Positive Counties	32	34
# Human Cases	41	21
# Positive Dead Birds / # Tested	203 / 1,309	316 / 1,407
# Positive Mosquito Pools / # Tested	2,049 / 28,747	1,119 / 27,421
# Seroconversions / # Tested	92 / 7,303	44 / 6,173

YTD WNV Activity by Element and County, 2018					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			10	10	
Butte	1		1	35	11
Contra Costa			8	10	13
El Dorado			2		
Fresno	2			46	
Glenn				4	
Humboldt			1		
Imperial				1	
Kern	2	1		23	
Kings				11	
Lake				4	
Los Angeles	4		5	18	3
Madera				17	
Merced	1			6	7
Orange			2	15	
Placer		1	22	197	2
Riverside	2		3	21	
Sacramento	1	1	194	245	
San Bernardino	1			6	
San Benito					1
San Diego				2	
San Joaquin	4		8	278	
San Mateo			3	2	
Santa Clara			28	4	2
Santa Cruz			2		
Shasta		1	2	4	
Solano				1	
Stanislaus	1		1	46	
Sutter			4	23	5
Tuolumne	1				
Tulare				28	
Ventura	1				
Yolo			20	56	
Yuba				6	
Totals	21	4	316	1,119	44

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	2	0	0
	YTD	21	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	79	32
	YTD	1,407	316

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	347	6	0	0
	YTD	6,173	44		0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	177 / 1,800	35 / 1,430	0 / 1,311	0 / 77	0 / 77	0 / 77
		YTD	1,119 / 27,421	212 / 21,476	0 / 18,277	0 / 862	0 / 862	0 / 862

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	8/15/2018	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/8/2018	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/15/2018	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	California Scrub-Jay	8/15/2018	WNV
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	8/15/2018	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91403	American Crow	8/8/2018	WNV
Orange	Orange Co VCD	Santa Ana	92706	American Crow	8/8/2018	WNV
Placer	Placer MVCD	Pleasant Grove	95668	Red-tailed Hawk	8/9/2018	WNV
Placer	Placer MVCD	Roseville	95747	American Crow	8/8/2018	WNV
Placer	Placer MVCD	Roseville	95747	Purple Finch	8/10/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	American Crow	8/12/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Yellow-billed Magpie	8/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	8/10/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/11/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	California Scrub-Jay	8/10/2018	WNV

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Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	8/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	California Scrub-Jay	8/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	Yellow-billed Magpie	8/6/2018	WNV
Sacramento	Sacramento-Yolo MVCD	North Highlands	95660	Cooper's Hawk	8/8/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	California Scrub-Jay	8/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	House Finch	8/7/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95842	American Crow	8/13/2018	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	House Finch	8/9/2018	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	8/14/2018	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/9/2018	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	Song Sparrow	8/14/2018	WNV
Santa Clara	Santa Clara Co VCD	Stanford	94305	House Sparrow	8/14/2018	WNV
Shasta	Shasta MVCD	Palo Cedro	96073	California Scrub-Jay	8/10/2018	WNV
Shasta	Shasta MVCD	Palo Cedro	96073	California Scrub-Jay	8/10/2018	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Unknown	8/12/2018	WNV
Yolo	Sacramento-Yolo MVCD	Clarksburg	95612	House Finch	8/10/2018	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/11/2018	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO100072	20383	Cx. pipiens	Livermore	2	CO2	8/14/2018	WNV
Butte	BUCO39	288	Cx. tarsalis	Chico	27	CO2	8/8/2018	WNV
Contra Costa	CNTR2302	280	Cx. tarsalis	Martinez	50	CO2	8/13/2018	WNV
Contra Costa	CNTR7038	301	Cx. tarsalis	Discovery Bay	16	CO2	8/15/2018	WNV
Contra Costa	CNTR7189	266	Cx. pipiens	Oakley	15	CO2	8/9/2018	WNV
Contra Costa	CNTR7492	320	Cx. tarsalis	Oakley	50	CO2	8/15/2018	WNV
Contra Costa	CNTR8152	290	Cx. tarsalis	Knightesen	17	CO2	8/13/2018	WNV
Fresno	CNSL2267	256	Cx. quinquefasciatus	Sanger	50	GRVD	8/8/2018	SLEV
Fresno	CNSL2267	256	Cx. quinquefasciatus	Sanger	50	GRVD	8/8/2018	WNV
Fresno	CNSL2386	252	Cx. quinquefasciatus	Sanger	14	GRVD	8/7/2018	SLEV
Fresno	CNSL3193	253	Cx. quinquefasciatus	Reedley	45	GRVD	8/7/2018	WNV
Fresno	CNSL3307	264	Cx. quinquefasciatus	Reedley	36	GRVD	8/10/2018	SLEV
Fresno	CNSL5017	261	Cx. tarsalis	Laton	50	BGSENT	8/9/2018	SLEV
Fresno	CNSL5126	260	Cx. quinquefasciatus	Laton	48	GRVD	8/9/2018	WNV
Fresno	CNSL8046	257	Cx. quinquefasciatus	Fresno	27	GRVD	8/8/2018	WNV
Fresno	FRNO116	486	Cx. quinquefasciatus	Fresno	50	GRVD	8/15/2018	SLEV
Fresno	FRNO15	481	Cx. quinquefasciatus	Fresno	50	GRVD	8/15/2018	SLEV
Fresno	FRNO15	481	Cx. quinquefasciatus	Fresno	50	GRVD	8/15/2018	WNV
Fresno	FRNO15	482	Cx. quinquefasciatus	Fresno	50	GRVD	8/15/2018	WNV
Fresno	FRNO15	483	Cx. quinquefasciatus	Fresno	40	GRVD	8/15/2018	WNV
Fresno	FRWS300031	221	Cx. tarsalis		50	CO2	8/14/2018	WNV
Fresno	FRWS410001	224	Cx. quinquefasciatus	Kerman	50	GRVD	8/14/2018	WNV
Fresno	FRWS5110	223	Cx. tarsalis	Tranquillity	30	CO2	8/14/2018	WNV
Glenn	GLEN9703	1	Cx. tarsalis	Willows	50	CO2	8/8/2018	WNV
Glenn	GLEN9705	6	Cx. tarsalis	Sacramento Wildlife	50	CO2	8/8/2018	WNV
Glenn	GLEN9705	8	Cx. tarsalis	Sacramento Wildlife	50	CO2	8/8/2018	WNV
Imperial	IMPR40	202	Cx. quinquefasciatus	Imperial	21	BGSENT	8/13/2018	SLEV
Kern	DLNO55	168	Cx. quinquefasciatus	McFarland	50	CO2	8/9/2018	WNV
Kern	DLNO62	166	Cx. quinquefasciatus	McFarland	50	CO2	8/9/2018	WNV
Kern	DLNO79	177	Cx. quinquefasciatus	McFarland	50	GRVD	8/10/2018	WNV
Kern	KERN12	421	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/10/2018	SLEV

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Kern	KERN2014	406	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/8/2018	SLEV
Kern	KERN2020	405	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/8/2018	SLEV
Kern	KERN2031	420	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/10/2018	SLEV
Kern	KERN2031	420	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/10/2018	WNV
Kern	KERN2040	397	Cx. quinquefasciatus	Arvin	50	GRVD	8/7/2018	SLEV
Kern	KERN2041	396	Cx. quinquefasciatus	Arvin	35	GRVD	8/7/2018	WNV
Kern	KERN3014	419	Cx. tarsalis	Bakersfield	50	CO2	8/9/2018	WNV
Kern	KERN3029	411	Cx. quinquefasciatus	Buttonwillow	50	CO2	8/8/2018	WNV
Kern	KERN43	415	Cx. quinquefasciatus	Shafter	50	CO2	8/9/2018	WNV
Kings	KNGS3022	144	Cx. tarsalis	Hanford	50	CO2	8/9/2018	WNV
Kings	KNGS55124	129	Cx. tarsalis	Hanford	19	BGSENT	8/7/2018	SLEV
Kings	KNGS8038	136	Cx. tarsalis	Lemoore	48	CO2	8/8/2018	WNV
Lake	LAKE1000	393	Cx. tarsalis	Upper Lake	5	REST	8/9/2018	WNV
Lake	LAKE328	404	Cx. tarsalis	Upper Lake	11	CO2	8/14/2018	WNV
Los Angeles	GRLA2097	666	Cx. quinquefasciatus	La Mirada	43	GRVD	8/8/2018	WNV
Los Angeles	GRLA2166	675	Cx. quinquefasciatus	Montebello	37	GRVD	8/8/2018	WNV
Los Angeles	GRLA2839	5679	Cx. quinquefasciatus	Sun Valley	35	USDS	8/8/2018	WNV
Los Angeles	GRLA3000	5698	Cx. quinquefasciatus	Sun Valley	40	GRVD	8/10/2018	WNV
Los Angeles	LACW1048	190	Cx. quinquefasciatus	Inglewood	50	CO2	8/9/2018	WNV
Madera	MADR12	146	Cx. tarsalis	Madera	35	CO2	8/8/2018	WNV
Madera	MADR195	147	Cx. quinquefasciatus	Madera	50	CO2	8/8/2018	WNV
Madera	MADR265	152	Cx. quinquefasciatus	Madera	50	CO2	8/9/2018	WNV
Madera	MADR3334	144	Cx. quinquefasciatus	Madera	50	CO2	8/7/2018	WNV
Madera	MADR3334	145	Cx. tarsalis	Madera	50	CO2	8/7/2018	WNV
Merced	MERC404	300	Cx. pipiens	Hilmar	44	CO2	8/14/2018	WNV
Orange	ORCO1040	3122	Cx. quinquefasciatus	Orange	50	GRVD	8/14/2018	WNV
Orange	ORCO2	3220	Cx. quinquefasciatus	Fullerton	49	GRVD	8/15/2018	WNV
Orange	ORCO236	3205	Cx. quinquefasciatus	Garden Grove	30	GRVD	8/15/2018	WNV
Orange	ORCO3	3190	Cx. quinquefasciatus	Garden Grove	21	GRVD	8/15/2018	WNV
Placer	PLCR1113	1555	Cx. tarsalis	Pleasant Grove	50	CO2	8/14/2018	WNV
Placer	PLCR1113	1559	Cx. tarsalis	Pleasant Grove	50	CO2	8/14/2018	WNV
Placer	PLCR1114	1562	Cx. tarsalis	Lincoln	8	CO2	8/14/2018	WNV
Placer	PLCR139	1521	Cx. tarsalis	Roseville	50	CO2	8/14/2018	WNV
Placer	PLCR17	1585	Cx. tarsalis	Sheridan	50	CO2	8/14/2018	WNV
Placer	PLCR191218	1525	Cx. tarsalis		50	CO2	8/14/2018	WNV
Placer	PLCR191373	1589	Cx. tarsalis		50	CO2	8/14/2018	WNV
Placer	PLCR191373	1591	Cx. tarsalis		50	CO2	8/14/2018	WNV
Placer	PLCR191998	1529	Cx. tarsalis	Lincoln	50	CO2	8/14/2018	WNV
Placer	PLCR194232	1552	Cx. tarsalis		50	CO2	8/14/2018	WNV
Placer	PLCR197855	1614	Cx. tarsalis	Roseville	5	OTHER	8/10/2018	WNV
Placer	PLCR197860	1605	Cx. pipiens	Lincoln	16	CO2	8/14/2018	WNV
Placer	PLCR197860	1606	Cx. tarsalis	Lincoln	38	CO2	8/14/2018	WNV
Placer	PLCR25	1600	Cx. tarsalis	Lincoln	50	CO2	8/14/2018	WNV
Placer	PLCR25	1601	Cx. tarsalis	Lincoln	50	CO2	8/14/2018	WNV
Placer	PLCR25	1602	Cx. tarsalis	Lincoln	50	CO2	8/14/2018	WNV
Placer	PLCR25	1603	Cx. tarsalis	Lincoln	50	CO2	8/14/2018	WNV
Placer	PLCR411	1531	Cx. tarsalis	Roseville	50	CO2	8/14/2018	WNV
Placer	PLCR509	1626	Cx. pipiens	Loomis	6	CO2	8/15/2018	WNV
Placer	PLCR525	1549	Cx. tarsalis	Lincoln	38	CO2	8/14/2018	WNV
Riverside	COAV121	3347	Cx. tarsalis	Mecca	11	CO2	8/10/2018	SLEV
Riverside	COAV121	3347	Cx. tarsalis	Mecca	11	CO2	8/10/2018	WNV
Riverside	COAV200	3348	Cx. tarsalis	Mecca	16	BGSENT	8/10/2018	SLEV
Riverside	COAV45	3401	Cx. tarsalis	Mecca	43	CO2	8/14/2018	SLEV
Riverside	COAV57	3324	Cx. tarsalis	Mecca	50	CO2	8/14/2018	SLEV

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Riverside	COAV57	3324	Cx. tarsalis	Mecca	50	CO2	8/14/2018	WNV
Riverside	COAV58	3402	Cx. tarsalis	Mecca	50	CO2	8/14/2018	SLEV
Riverside	COAV58	3403	Cx. tarsalis	Mecca	50	CO2	8/14/2018	SLEV
Riverside	COAV58	3404	Cx. tarsalis	Mecca	50	CO2	8/14/2018	SLEV
Riverside	COAV58	3404	Cx. tarsalis	Mecca	50	CO2	8/14/2018	WNV
Sacramento	SAYO201006	4788	Cx. tarsalis	Sacramento	50	CO2	8/14/2018	WNV
Sacramento	SAYO201006	4790	Cx. tarsalis	Sacramento	50	CO2	8/14/2018	WNV
Sacramento	SAYO203041	4848	Cx. pipiens	Sacramento	10	GRVD	8/16/2018	WNV
Sacramento	SAYO212033	4853	Cx. pipiens	Sacramento	50	GRVD	8/16/2018	WNV
Sacramento	SAYO212033	4854	Cx. pipiens	Sacramento	7	GRVD	8/16/2018	WNV
Sacramento	SAYO224003	4676	Cx. tarsalis	Rancho Cordova	7	CO2	8/10/2018	WNV
Sacramento	SAYO226002	4681	Cx. pipiens	Rancho Murieta	2	GRVD	8/10/2018	WNV
Sacramento	SAYO232001	4752	Cx. tarsalis	Sacramento	11	CO2	8/14/2018	WNV
Sacramento	SAYO235001	4658	Cx. pipiens	Wilton	4	CO2	8/10/2018	WNV
Sacramento	SAYO254011	4666	Cx. tarsalis	Galt	11	CO2	8/10/2018	WNV
Sacramento	SAYO261003	4689	Cx. tarsalis	Isleton	50	CO2	8/10/2018	WNV
Sacramento	SAYO261003	4691	Cx. pipiens	Isleton	20	CO2	8/10/2018	WNV
Sacramento	SAYO271007	4687	Cx. pipiens	Isleton	32	CO2	8/10/2018	WNV
San Bernardino	WVAL6015	1242	Cx. quinquefasciatus	Ontario	17	GRVD	8/14/2018	WNV
San Joaquin	SJCM8004	1751	Cx. pipiens	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8004	1752	Cx. pipiens	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8004	1753	Cx. pipiens	Lodi	41	CO2	8/14/2018	WNV
San Joaquin	SJCM8018	1763	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8018	1764	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8018	1765	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8018	1766	Cx. tarsalis	Stockton	30	CO2	8/14/2018	WNV
San Joaquin	SJCM8025	1818	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8025	1819	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8025	1821	Cx. pipiens	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8027	1809	Cx. tarsalis	Stockton	52	CO2	8/14/2018	WNV
San Joaquin	SJCM8027	1810	Cx. pipiens	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8027	1811	Cx. pipiens	Stockton	20	CO2	8/14/2018	WNV
San Joaquin	SJCM8041	1823	Cx. pipiens	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8077	1746	Cx. tarsalis	Stockton	26	CO2	8/14/2018	WNV
San Joaquin	SJCM8083	1792	Cx. tarsalis	Escalon	20	CO2	8/14/2018	WNV
San Joaquin	SJCM8083	1793	Cx. pipiens	Escalon	9	CO2	8/14/2018	WNV
San Joaquin	SJCM8143	1778	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8143	1779	Cx. tarsalis	Stockton	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8143	1781	Cx. pipiens	Stockton	22	CO2	8/14/2018	WNV
San Joaquin	SJCM8154	1808	Cx. tarsalis	Lathrop	7	CO2	8/14/2018	WNV
San Joaquin	SJCM8161	1785	Cx. tarsalis	Ripon	49	CO2	8/14/2018	WNV
San Joaquin	SJCM8161	1786	Cx. pipiens	Ripon	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8161	1787	Cx. pipiens	Ripon	8	CO2	8/14/2018	WNV
San Joaquin	SJCM8191	1739	Cx. tarsalis	Lodi	18	CO2	8/14/2018	WNV
San Joaquin	SJCM8206	1759	Cx. tarsalis	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1769	Cx. tarsalis	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1770	Cx. tarsalis	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1771	Cx. tarsalis	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1772	Cx. tarsalis	Lodi	31	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1773	Cx. pipiens	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1774	Cx. pipiens	Lodi	50	CO2	8/14/2018	WNV
San Joaquin	SJCM8213	1775	Cx. pipiens	Lodi	34	CO2	8/14/2018	WNV
San Joaquin	SJCM8218	1832	Cx. tarsalis	Escalon	49	CO2	8/16/2018	WNV
San Mateo	SANM186339	290	Cx. tarsalis	East Palo Alto	2	CO2	8/8/2018	WNV

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San Mateo	SANM514685	320	Cx. tarsalis	East Palo Alto	1	CO2	8/10/2018	WNV
Shasta	SHAS148	494	Cx. pipiens	Cottonwood	36	BGSENT	8/10/2018	WNV
Solano	SOLA105	136	Cx. pipiens	Vacaville	5	CO2	8/15/2018	WNV
Stanislaus	TRLK1214	986	Cx. pipiens	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1214	989	Cx. pipiens	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1214	991	Cx. tarsalis	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1308	1010	Cx. tarsalis	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1615	1044	Cx. tarsalis	Modesto	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1615	1045	Cx. tarsalis	Modesto	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1615	1046	Cx. tarsalis	Modesto	50	CO2	8/14/2018	WNV
Stanislaus	TRLK1615	1047	Cx. tarsalis	Modesto	25	CO2	8/14/2018	WNV
Stanislaus	TRLK18102	970	Cx. tarsalis	Turlock	50	CO2	8/9/2018	WNV
Stanislaus	TRLK1835	1035	Cx. tarsalis	Hickman	33	CO2	8/14/2018	WNV
Stanislaus	TRLK407	980	Cx. pipiens	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK424	1050	Cx. pipiens	Patterson	39	CO2	8/14/2018	WNV
Stanislaus	TRLK432	1005	Cx. tarsalis	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK432	1008	Cx. tarsalis	Turlock	50	CO2	8/14/2018	WNV
Stanislaus	TRLK432	1009	Cx. tarsalis	Turlock	40	CO2	8/14/2018	WNV
Stanislaus	TRLK516	1033	Cx. tarsalis	Denair	50	CO2	8/14/2018	WNV
Stanislaus	TRLK516	1034	Cx. tarsalis	Denair	49	CO2	8/14/2018	WNV
Stanislaus	TRLK526	1013	Cx. pipiens	Denair	50	CO2	8/14/2018	WNV
Stanislaus	TRLK526	1015	Cx. pipiens	Denair	41	CO2	8/14/2018	WNV
Stanislaus	TRLK530	981	Cx. tarsalis	Turlock	18	CO2	8/14/2018	WNV
Sutter	SUYA15	295	Cx. tarsalis	Robbins	39	CO2	8/14/2018	WNV
Sutter	SUYA15	296	Cx. tarsalis	Robbins	38	CO2	8/14/2018	WNV
Sutter	SUYA31	302	Cx. tarsalis	Rio Oso	50	REST	8/13/2018	WNV
Sutter	SUYA44	299	Cx. tarsalis	Pleasant Grove	50	CO2	8/14/2018	WNV
Tulare	DLNO60	173	Cx. quinquefasciatus	Delano	50	CO2	8/9/2018	SLEV
Tulare	DLNO60	173	Cx. quinquefasciatus	Delano	50	CO2	8/9/2018	WNV
Tulare	DLTA6404	2798	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2799	Cx. tarsalis	Dinuba	32	CO2	8/15/2018	WNV
Tulare	DLTA6404	2809	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2813	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2815	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2818	Cx. quinquefasciatus	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2828	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6404	2833	Cx. stigmatosoma	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6405	2693	Cx. tarsalis	Dinuba	37	CO2	8/8/2018	WNV
Tulare	DLTA6405	2802	Cx. tarsalis	Dinuba	50	CO2	8/15/2018	WNV
Tulare	DLTA6408	2717	Cx. quinquefasciatus	Dinuba	30	BGSENT	8/8/2018	WNV
Tulare	DLTA6408	2788	Cx. quinquefasciatus	Dinuba	29	GRVD	8/14/2018	WNV
Tulare	DLTA6519	2793	Cx. quinquefasciatus	Cutler	22	GRVD	8/14/2018	SLEV
Tulare	DLTA8413	2716	Cx. quinquefasciatus	Visalia	31	GRVD	8/8/2018	SLEV
Tulare	DLTA8424	2714	Cx. quinquefasciatus	Visalia	26	GRVD	8/8/2018	SLEV
Tulare	DLTA8425	2785	Cx. quinquefasciatus	Visalia	27	GRVD	8/14/2018	SLEV
Tulare	DLTA8426	2842	Cx. quinquefasciatus	Visalia	13	GRVD	8/15/2018	SLEV
Tulare	DLTA8427	2851	Cx. quinquefasciatus	Visalia	29	GRVD	8/15/2018	SLEV
Tulare	DLTA8435	2705	Cx. quinquefasciatus	Visalia	12	GRVD	8/8/2018	SLEV
Tulare	DLTA8435	2706	Cx. quinquefasciatus	Visalia	15	BGSENT	8/8/2018	SLEV
Tulare	DLTA8508	2757	Cx. quinquefasciatus	Visalia	15	BGSENT	8/10/2018	SLEV
Tulare	DLTA8519	2722	Cx. quinquefasciatus	Visalia	46	GRVD	8/8/2018	SLEV
Tulare	DLTA8527	2780	Cx. quinquefasciatus	Visalia	41	GRVD	8/14/2018	WNV
Tulare	DLTA9402	2727	Cx. quinquefasciatus	Visalia	30	GRVD	8/9/2018	SLEV
Tulare	DLTA9501	2761	Cx. quinquefasciatus	Farmersville	12	GRVD	8/10/2018	WNV

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Tulare	DLTA9505	2732	Cx. quinquefasciatus	Visalia	22	GRVD	8/9/2018	SLEV
Tulare	DLTA9505	2749	Cx. quinquefasciatus	Visalia	27	GRVD	8/10/2018	SLEV
Tulare	DLTA9506	2752	Cx. tarsalis	Visalia	11	BGSENT	8/10/2018	SLEV
Yolo	SAYO104006	4781	Cx. tarsalis	Dunnigan	50	CO2	8/14/2018	WNV
Yolo	SAYO104006	4782	Cx. tarsalis	Dunnigan	50	CO2	8/14/2018	WNV
Yolo	SAYO104006	4784	Cx. tarsalis	Dunnigan	50	CO2	8/14/2018	WNV
Yolo	SAYO115008	4798	Cx. tarsalis	Woodland	50	CO2	8/14/2018	WNV
Yolo	SAYO125013	4649	Cx. pipiens	Woodland	3	CO2	8/10/2018	WNV
Yolo	SAYO125025	4619	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO125025	4620	Cx. tarsalis	Woodland	36	CO2	8/10/2018	WNV
Yolo	SAYO135005	4624	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO135010	4640	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO135010	4642	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO135012	4616	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO136008	4653	Cx. tarsalis	Davis	16	CO2	8/10/2018	WNV
Yolo	SAYO136008	4654	Cx. tarsalis	Davis	6	GRVD	8/10/2018	WNV
Yolo	SAYO136010	4630	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO136010	4632	Cx. tarsalis	Woodland	50	CO2	8/10/2018	WNV
Yolo	SAYO146017	4823	Cx. tarsalis	Davis	50	CO2	8/16/2018	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Contra Costa	CNTR8152	Knightsen	8/13/2018	WNV	1407	1408	1409
Los Angeles	GRLA2651	Encino	8/6/2018	WNV	2857		
Los Angeles	LACW1006	Playa Del Rey	8/8/2018	WNV	1631		
Placer	PLCR0757	Auburn	8/10/2018	WNV	1871		

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.

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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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