

California Arbovirus Surveillance Bulletin #23

Week 31 Friday, August 7, 2015



Weekly Update

Humans

Ten new human cases of West Nile virus (WNV) illness were reported this week from the following four counties: Butte (3), Glenn (3), Riverside (2), and Tulare (2). These are the first cases reported from Riverside County this year. As of August 5, a total of 18 human cases of WNV illness have been reported to the California Department of Public Health from six counties. Of the 18 case-patients, 14 (78%) had neuroinvasive illness. The median age of the 18 individuals is 59 years (range: 5-91 years); 11 (61%) are male. Dates of symptom onset ranged from May 15 to July 26. One WNV-related fatality has been reported to CDPH. In addition, six asymptomatic WNV-positive blood donors have been reported this year from two counties. At this time last year, 19 WNV cases had been reported from eight counties.

Dead Birds

A total of 61 WNV positive dead birds were reported this week from the following 17 counties: Alameda (2), El Dorado (1), Kings (2), Marin (1), Nevada (3), Orange (5), Riverside (4), Sacramento (11), San Diego (9), Santa Clara (5), Shasta (1), Solano (1), Sonoma (1), Stanislaus (1), Sutter (2), Tulare (1), and Yolo (11). In 2015, 362 birds have tested positive for WNV from 34 counties. At this time last year, 1,014 WNV positive birds had been detected in 33 counties.

Mosquito Pools

A total of 275 WNV positive mosquito pools were reported this week from the following 19 counties: Fresno (6), Kern (15), Kings (23), Lake (2), Los Angeles (18), Orange (44), Placer (2), Riverside (8), Sacramento (12), San Bernardino (43), San Diego (1), San Joaquin (16), San Mateo (2), Shasta (6), Solano (3), Stanislaus (6), Sutter (4), Tulare (24), and Yolo (40). **In addition, six mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from Riverside County (Coachella Valley). This is the first detection of SLEV activity in California since 2003.** In 2015, 1,333 WNV positive mosquito pools have been reported from 28 counties. At this time last year, 1,268 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 45 WNV seroconversions were reported this week from 21 flocks located in 11 counties: Butte (14), Contra Costa (4), Glenn (1), Lake (2), Merced (2), Shasta (5), Solano (3), Stanislaus (2), Sutter (6), Tehama (2), and Yuba (4). **This is the first detection of WNV activity in Tehama County, and the first WNV positive chickens detected in Lake, Solano, and Stanislaus counties this year.** In 2015, 90 WNV seroconversions have been detected among 28 flocks located in 14 counties. At this time last year, 56 WNV positive chickens had been reported from 23 flocks in 11 counties.

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		7	2	
Butte	6	17	67	32
Colusa		3		
Contra Costa		2	2	6
El Dorado		2		
Fresno			20	
Glenn	4	3	18	4
Humboldt		2		
Kern		1	91	
Kings		3	53	
Lake		2	10	2
Los Angeles	1	3	34	1
Madera		1		
Marin		2		
Merced		1	3	2
Nevada	1	4		
Orange		10	65	
Placer		4	35	3
Riverside	2	20	89	
Sacramento		38	54	
San Bernardino		1	80	2
San Diego		74	7	
San Joaquin		7	100	
San Mateo		7	4	
Santa Barbara			1	
Santa Clara		54	2	
Shasta		4	29	7
Solano		5	3	3
Sonoma		4	8	
Stanislaus		9	18	2
Sutter		12	44	13
Tehama				2
Trinity		1		
Tulare	4	19	358	
Ventura		2		
Yolo		34	115	
Yuba		4	21	11
Totals	18	362	1,333	90

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	7,660	6,559
# Positive Counties	35	37
# Human Cases	19	18
# Positive Dead Birds / # Tested	1,014 / 1,972	362 / 1,616
# Positive Mosquito Pools / # Tested	1,268 / 15,277	1,333 / 18,508
# Seroconversions / # Tested	56 / 8,394	90 / 7,542

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	10	0	0
	YTD	18	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	122	61
	YTD	1,616	362

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	449	45	0	0
	YTD	7,542	90	0	0
Mosquito Pools	Week	1888	275	6	0
	YTD	18,508	1,333	6	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94536	American Crow	8/3/2015	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	8/4/2015	WNV
El Dorado	El Dorado Co Env Management	El Dorado Hills	95762	Unknown	7/27/2015	WNV
Kings	Kings MAD	Hanford	93230	Western Scrub-Jay	7/27/2015	WNV
Kings	Kings MAD	Hanford	93230	Western Scrub-Jay	7/27/2015	WNV
Marin	Marin-Sonoma MVCD	Novato	94949	Western Scrub-Jay	8/4/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Grass Valley	95949	House Finch	8/2/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Nevada City	95959	Steller's Jay	7/31/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Penn Valley	95946	Western Scrub-Jay	8/3/2015	WNV
Orange	Orange Co VCD	Huntington Beach	92647	Cooper's Hawk	6/29/2015	WNV

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Orange	Orange Co VCD	Irvine	92602	American Crow	7/26/2015	WNV
Orange	Orange Co VCD	San Juan Capistrano	92675	American Crow	7/20/2015	WNV
Orange	Orange Co VCD	Santa Ana	92706	American Crow	7/24/2015	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	7/31/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/22/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/24/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/27/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	7/30/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	8/1/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	8/5/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/4/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/6/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/6/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Yellow-billed Magpie	8/4/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	American Crow	8/4/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	8/4/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Crow	8/5/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Crow	8/5/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	House Finch	8/1/2015	WNV
San Diego	San Diego Co VCP	La Jolla	92037	American Crow	8/4/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	7/29/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	8/6/2015	WNV
San Diego	San Diego Co VCP	San Diego	92115	American Crow	8/5/2015	WNV
San Diego	San Diego Co VCP	San Diego	92124	American Crow	8/5/2015	WNV
San Diego	San Diego Co VCP	San Diego	92130	American Crow	8/3/2015	WNV
San Diego	San Diego Co VCP	San Diego	92130	American Crow	8/4/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	American Crow	8/4/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	Red-shouldered Hawk	8/3/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	Western Scrub-Jay	7/29/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	7/31/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	7/29/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95133	Western Scrub-Jay	7/31/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/27/2015	WNV
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	7/26/2015	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/3/2015	WNV
Sonoma	Marin-Sonoma MVCD	Cloverdale	95425	Steller's Jay	8/4/2015	WNV
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/28/2015	WNV
Sutter	Sutter-Yuba MVCD	Nicolaus	95659	Yellow-billed Magpie	8/2/2015	WNV
Sutter	Sutter-Yuba MVCD	Nicolaus	95659	Yellow-billed Magpie	8/2/2015	WNV
Tulare	Delta VCD	Goshen	93227	Western Scrub-Jay	7/31/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/31/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/3/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/4/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Cooper's Hawk	8/2/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/1/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/3/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	House Finch	8/2/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	House Finch	8/4/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	8/4/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/5/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/5/2015	WNV

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Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1935	104	Cx. quinquefasciatus	Fresno	50	GRVD	8/5/2015	WNV
Fresno	CNSL4124	382	Cx. quinquefasciatus	Selma	47	GRVD	8/4/2015	WNV
Fresno	CNSL6189	386	Cx. quinquefasciatus	Laton	50	CO2	8/4/2015	WNV
Fresno	CNSL6227	374	Cx. quinquefasciatus	Laton	50	CO2	7/30/2015	WNV
Fresno	CNSL6227	375	Cx. tarsalis	Laton	50	CO2	7/30/2015	WNV
Fresno	CNSL6237	376	Cx. quinquefasciatus	Laton	50	CO2	7/30/2015	WNV
Kern	DLNO24	71	Cx. quinquefasciatus	Delano	12	GRVD	8/4/2015	WNV
Kern	KERN118	401	Cx. quinquefasciatus	Buttonwillow	50	CO2	7/29/2015	WNV
Kern	KERN156	396	Cx. quinquefasciatus	Butttonwillow	31	CO2	7/28/2015	WNV
Kern	KERN2040	393	Cx. quinquefasciatus	Arvin	26	GRVD	7/28/2015	WNV
Kern	KERN2041	390	Cx. quinquefasciatus	Arvin	33	GRVD	7/28/2015	WNV
Kern	KERN2042	392	Cx. quinquefasciatus	Lamont	34	GRVD	7/28/2015	WNV
Kern	KERN2049	391	Cx. quinquefasciatus	Lamont	32	GRVD	7/28/2015	WNV
Kern	KERN2051	402	Cx. quinquefasciatus	Bakersfield	30	GRVD	7/30/2015	WNV
Kern	KERN3031	407	Cx. quinquefasciatus	Shafter	50	CO2	7/30/2015	WNV
Kern	KERN3031	408	Cx. tarsalis	Shafter	39	CO2	7/30/2015	WNV
Kern	KERN3043	411	Cx. quinquefasciatus	Bakersfield	50	CO2	7/31/2015	WNV
Kern	KERN31	394	Cx. tarsalis	Arvin	43	CO2	7/28/2015	WNV
Kern	KERN36	414	Cx. tarsalis	Bakersfield	50	CO2	7/31/2015	WNV
Kern	KERN45	395	Cx. quinquefasciatus	Buttonwillow	50	CO2	7/28/2015	WNV
Kern	KERN91	397	Cx. tarsalis	Lost Hills	50	CO2	7/28/2015	WNV
Kings	KNGS3022	300	Cx. pipiens	Hanford	50	BGSENT	7/31/2015	WNV
Kings	KNGS3022	301	Cx. pipiens	Hanford	46	BGSENT	7/31/2015	WNV
Kings	KNGS3022	310	Cx. tarsalis	Hanford	50	CO2	7/28/2015	WNV
Kings	KNGS3022	312	Cx. pipiens	Hanford	35	CO2	7/28/2015	WNV
Kings	KNGS3062	303	Cx. tarsalis	Lemoore	50	CO2	7/28/2015	WNV
Kings	KNGS3062	304	Cx. tarsalis	Lemoore	50	CO2	7/28/2015	WNV
Kings	KNGS3062	305	Cx. tarsalis	Lemoore	41	CO2	7/28/2015	WNV
Kings	KNGS3062	306	Cx. pipiens	Lemoore	50	CO2	7/28/2015	WNV
Kings	KNGS3062	307	Cx. pipiens	Lemoore	14	CO2	7/28/2015	WNV
Kings	KNGS3102	313	Cx. tarsalis	Armona	50	CO2	7/28/2015	WNV
Kings	KNGS3102	314	Cx. tarsalis	Armona	50	CO2	7/28/2015	WNV
Kings	KNGS3102	317	Cx. pipiens	Armona	50	CO2	7/28/2015	WNV
Kings	KNGS3102	318	Cx. pipiens	Armona	50	CO2	7/28/2015	WNV
Kings	KNGS3102	319	Cx. pipiens	Armona	50	CO2	7/28/2015	WNV
Kings	KNGS4007	294	Cx. tarsalis	Lemoore	12	BGSENT	7/30/2015	WNV
Kings	KNGS4405	283	Cx. pipiens	Lemoore	50	BGSENT	7/30/2015	WNV
Kings	KNGS4405	284	Cx. pipiens	Lemoore	50	BGSENT	7/30/2015	WNV
Kings	KNGS4405	286	Cx. pipiens	Lemoore	50	BGSENT	7/30/2015	WNV
Kings	KNGS4405	287	Cx. pipiens	Lemoore	50	BGSENT	7/30/2015	WNV
Kings	KNGS5501	280	Cx. pipiens	Hanford	48	BGSENT	7/29/2015	WNV
Kings	KNGS5512	274	Cx. pipiens	Hanford	36	BGSENT	7/28/2015	WNV
Kings	KNGS5513	282	Cx. pipiens	Hanford	10	BGSENT	7/29/2015	WNV
Kings	KNGS5516	295	Cx. pipiens	Hanford	50	BGSENT	7/31/2015	WNV
Lake	LAKE1508	353	Cx. stigmatosoma	Kelseyville	21	REST	8/5/2015	WNV
Lake	LAKE304	345	Cx. tarsalis	Middletown	18	CO2	8/4/2015	WNV
Los Angeles	GRLA2007	5576	Cx. quinquefasciatus	Toluca Lake	50	GRVD	7/28/2015	WNV

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Los Angeles	GRLA2101	486	Cx. quinquefasciatus	Santa Fe Springs	29	GRVD	7/28/2015	WNV
Los Angeles	GRLA2166	483	Cx. quinquefasciatus	Montebello	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA2548	5611	Cx. quinquefasciatus	Sylmar	19	GRVD	7/31/2015	WNV
Los Angeles	GRLA2552	5591	Cx. quinquefasciatus	Glendale	24	GRVD	7/29/2015	WNV
Los Angeles	GRLA2574	5595	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/30/2015	WNV
Los Angeles	GRLA2655	5597	Cx. quinquefasciatus	Encino	50	GRVD	7/30/2015	WNV
Los Angeles	GRLA2936	5593	Cx. quinquefasciatus	Burbank	50	GRVD	7/29/2015	WNV
Los Angeles	GRLA2955	491	Cx. quinquefasciatus	Cerritos	36	GRVD	7/28/2015	WNV
Los Angeles	GRLA3038	5579	Cx. quinquefasciatus	Valley Village	45	GRVD	7/28/2015	WNV
Los Angeles	GRLA3041	492	Cx. quinquefasciatus	Artesia	48	GRVD	7/28/2015	WNV
Los Angeles	GRLA3048	484	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA3066	5582	Cx. quinquefasciatus	North Hollywood	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA3069	5580	Cx. quinquefasciatus	Valley Village	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA3079	5584	Cx. quinquefasciatus	North Hollywood	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA3080	5581	Cx. quinquefasciatus	North Hollywood	50	GRVD	7/28/2015	WNV
Los Angeles	GRLA3102	5578	Cx. quinquefasciatus	Studio City	50	GRVD	7/28/2015	WNV
Los Angeles	SGVA919	220	Cx. quinquefasciatus	San Dimas	14	CO2	8/4/2015	WNV
Orange	ORCO1015	2308	Cx. quinquefasciatus	Orange	17	GRVD	7/30/2015	WNV
Orange	ORCO1015	2310	Cx. quinquefasciatus	Orange	43	GRVD	7/30/2015	WNV
Orange	ORCO1015	2311	Cx. quinquefasciatus	Orange	18	GRVD	7/30/2015	WNV
Orange	ORCO1015	2318	Cx. quinquefasciatus	Orange	10	GRVD	7/31/2015	WNV
Orange	ORCO1015	2319	Cx. quinquefasciatus	Orange	48	GRVD	7/31/2015	WNV
Orange	ORCO1015	2321	Cx. quinquefasciatus	Orange	50	GRVD	7/31/2015	WNV
Orange	ORCO1015	2322	Cx. quinquefasciatus	Orange	50	GRVD	7/31/2015	WNV
Orange	ORCO1015	2323	Cx. quinquefasciatus	Orange	15	GRVD	7/31/2015	WNV
Orange	ORCO1018	2194	Cx. quinquefasciatus	San Juan Capistrano	20	GRVD	7/23/2015	WNV
Orange	ORCO1018	2199	Cx. quinquefasciatus	San Juan Capistrano	9	GRVD	7/24/2015	WNV
Orange	ORCO1021	2065	Cx. quinquefasciatus	Tustin	50	GRVD	7/15/2015	WNV
Orange	ORCO1021	2066	Cx. quinquefasciatus	Tustin	47	GRVD	7/15/2015	WNV
Orange	ORCO1021	2070	Cx. quinquefasciatus	Tustin	50	GRVD	7/17/2015	WNV
Orange	ORCO1021	2073	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1021	2075	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1021	2076	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1021	2077	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1021	2122	Cx. quinquefasciatus	Tustin	40	GRVD	7/22/2015	WNV
Orange	ORCO1021	2123	Cx. quinquefasciatus	Tustin	50	GRVD	7/22/2015	WNV
Orange	ORCO1021	2174	Cx. quinquefasciatus	Tustin	50	GRVD	7/23/2015	WNV
Orange	ORCO1021	2175	Cx. quinquefasciatus	Tustin	50	GRVD	7/23/2015	WNV
Orange	ORCO1021	2176	Cx. quinquefasciatus	Tustin	35	GRVD	7/23/2015	WNV
Orange	ORCO1021	2209	Cx. quinquefasciatus	Tustin	4	GRVD	7/28/2015	WNV
Orange	ORCO1021	2210	Cx. quinquefasciatus	Tustin	31	GRVD	7/28/2015	WNV
Orange	ORCO1021	2217	Cx. quinquefasciatus	Tustin	13	GRVD	7/28/2015	WNV
Orange	ORCO1021	2220	Cx. quinquefasciatus	Tustin	23	GRVD	7/28/2015	WNV
Orange	ORCO1021	2222	Cx. quinquefasciatus	Tustin	29	GRVD	7/28/2015	WNV
Orange	ORCO1021	2224	Cx. quinquefasciatus	Tustin	4	GRVD	7/28/2015	WNV
Orange	ORCO1021	2226	Cx. quinquefasciatus	Tustin	21	GRVD	7/28/2015	WNV
Orange	ORCO1021	2227	Cx. quinquefasciatus	Tustin	49	GRVD	7/28/2015	WNV
Orange	ORCO1032	2236	Cx. quinquefasciatus	Anaheim	33	GRVD	7/28/2015	WNV
Orange	ORCO1033	2112	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1033	2113	Cx. quinquefasciatus	Tustin	50	GRVD	7/21/2015	WNV
Orange	ORCO1033	2253	Cx. quinquefasciatus	Tustin	45	GRVD	7/28/2015	WNV
Orange	ORCO168	2252	Cx. quinquefasciatus	Santa Ana	5	GRVD	7/28/2015	WNV

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Orange	ORCO17	2116	Cx. quinquefasciatus	Orange	50	GRVD	7/21/2015	WNV
Orange	ORCO17	2255	Cx. quinquefasciatus	Orange	53	GRVD	7/28/2015	WNV
Orange	ORCO205	2109	Cx. quinquefasciatus	Tustin	49	GRVD	7/21/2015	WNV
Orange	ORCO205	2248	Cx. quinquefasciatus	Tustin	27	GRVD	7/28/2015	WNV
Orange	ORCO217	2324	Cx. quinquefasciatus	Santa Ana	29	GRVD	7/31/2015	WNV
Orange	ORCO217	2326	Cx. quinquefasciatus	Santa Ana	46	GRVD	7/31/2015	WNV
Orange	ORCO238	2154	Cx. quinquefasciatus	Anaheim	50	GRVD	7/22/2015	WNV
Orange	ORCO238	2259	Cx. quinquefasciatus	Anaheim	50	GRVD	7/29/2015	WNV
Orange	ORCO9	2256	Cx. quinquefasciatus	Anaheim	17	GRVD	7/28/2015	WNV
Placer	PLCR25	1119	Cx. tarsalis	Lincoln	32	CO2	8/4/2015	WNV
Placer	PLCR668	1123	Cx. tarsalis	Elverta	50	CO2	8/4/2015	WNV
Riverside	COAV13	2281	Culex tarsalis	Mecca	50	CO2	7/28/2015	SLEV
Riverside	COAV309	2387	Cx. quinquefasciatus	Indian Wells	6	CO2	8/4/2015	WNV
Riverside	COAV3112	2402	Cx. quinquefasciatus	Indio	50	CO2	8/4/2015	WNV
Riverside	COAV3112	2403	Cx. quinquefasciatus	Indio	50	CO2	8/4/2015	WNV
Riverside	COAV3113	2390	Cx. quinquefasciatus	La Quinta	50	CO2	8/4/2015	WNV
Riverside	COAV327	2397	Cx. quinquefasciatus	Desert Hot Springs	50	CO2	8/4/2015	WNV
Riverside	COAV347	2429	Cx. quinquefasciatus	La Quinta	50	CO2	8/6/2015	WNV
Riverside	COAV37	2288	Culex tarsalis	Mecca	29	CO2	7/28/2015	SLEV
Riverside	COAV45	2295	Culex tarsalis	Mecca	48	CO2	7/28/2015	SLEV
Riverside	COAV45	2361	Cx. tarsalis	Mecca	50	CO2	8/4/2015	SLEV
Riverside	COAV45	2362	Cx. tarsalis	Mecca	50	CO2	8/4/2015	WNV
Riverside	COAV45	2362	Cx. tarsalis	Mecca	50	CO2	8/4/2015	SLEV
Riverside	COAV48	2282	Culex tarsalis	Mecca	39	CO2	7/28/2015	SLEV
Riverside	COAV48	2363	Cx. tarsalis	Mecca	50	CO2	8/4/2015	WNV
Sacramento	SAYO202016	3415	Cx. tarsalis	Sacramento	50	CO2	8/6/2015	WNV
Sacramento	SAYO203002	3436	Cx. pipiens	Antelope	8	CO2	8/6/2015	WNV
Sacramento	SAYO204020	3439	Cx. pipiens	Sacramento	35	CO2	8/6/2015	WNV
Sacramento	SAYO204024	3323	Cx. pipiens	Orangevale	5	GRVD	8/4/2015	WNV
Sacramento	SAYO232029	3233	Cx. pipiens	Elk Grove	16	GRVD	8/4/2015	WNV
Sacramento	SAYO233001	3239	Cx. pipiens	Elk Grove	31	GRVD	8/4/2015	WNV
Sacramento	SAYO233009	3247	Cx. tarsalis	Elk Grove	10	CO2	8/4/2015	WNV
Sacramento	SAYO242010	3234	Cx. tarsalis	Elk Grove	22	CO2	8/4/2015	WNV
Sacramento	SAYO243016	3227	Cx. pipiens	Elk Grove	32	CO2	8/4/2015	WNV
Sacramento	SAYO253014	3478	Cx. pipiens	Galt	8	CO2	8/6/2015	WNV
Sacramento	SAYO261002	3506	Cx. tarsalis	Isleton	50	CO2	8/6/2015	WNV
Sacramento	SAYO280001	3498	Cx. tarsalis	Rio Vista	50	CO2	8/6/2015	WNV
San Bernardino	WVAL1007	748	Cx. quinquefasciatus	Ontario	51	CO2	6/23/2015	WNV
San Bernardino	WVAL1008	997	Cx. quinquefasciatus	Ontario	37	CO2	7/23/2015	WNV
San Bernardino	WVAL1009	971	Cx. quinquefasciatus	Ontario	40	GRVD	7/17/2015	WNV
San Bernardino	WVAL1009	1053	Cx. quinquefasciatus	Ontario	42	GRVD	7/31/2015	WNV
San Bernardino	WVAL1009	1054	Cx. quinquefasciatus	Ontario	50	GRVD	7/31/2015	WNV
San Bernardino	WVAL2004	1044	Cx. quinquefasciatus	Chino	34	CO2	7/29/2015	WNV
San Bernardino	WVAL2005	1049	Cx. quinquefasciatus	Chino	34	CO2	7/29/2015	WNV
San Bernardino	WVAL2012	995	Cx. quinquefasciatus	Chino	52	CO2	7/23/2015	WNV
San Bernardino	WVAL2012	1017	Cx. quinquefasciatus	Chino	24	CO2	7/28/2015	WNV
San Bernardino	WVAL2019	1075	Cx. quinquefasciatus	Chino	19	GRVD	8/4/2015	WNV
San Bernardino	WVAL2021	1041	Cx. quinquefasciatus	Fwy CA 71	19	GRVD	7/29/2015	WNV
San Bernardino	WVAL5004	1026	Cx. quinquefasciatus	Rancho Cucamonga	20	GRVD	7/28/2015	WNV
San Bernardino	WVAL5005	986	Cx. quinquefasciatus	Rancho Cucamonga	32	GRVD	7/22/2015	WNV
San Bernardino	WVAL5005	1064	Cx. quinquefasciatus	Rancho	30	GRVD	8/4/2015	WNV

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				Cucamonga				
San Bernardino	WVAL5006	980	Cx. quinquefasciatus	Rancho Cucamonga	35	GRVD	7/22/2015	WNV
San Bernardino	WVAL5006	1065	Cx. quinquefasciatus	Rancho Cucamonga	38	GRVD	8/4/2015	WNV
San Bernardino	WVAL5009	981	Cx. quinquefasciatus	Rancho Cucamonga	6	GRVD	7/22/2015	WNV
San Bernardino	WVAL6001	1062	Cx. quinquefasciatus	Ontario	21	GRVD	8/4/2015	WNV
San Bernardino	WVAL6002	742	Cx. stigmatosoma	Ontario	50	CO2	6/23/2015	WNV
San Bernardino	WVAL6003	998	Cx. quinquefasciatus	Ontario	5	GRVD	7/23/2015	WNV
San Bernardino	WVAL6003	1032	Cx. quinquefasciatus	Ontario	11	GRVD	7/28/2015	WNV
San Bernardino	WVAL6003	1059	Cx. quinquefasciatus	Ontario	26	GRVD	8/4/2015	WNV
San Bernardino	WVAL6004	989	Cx. quinquefasciatus	Ontario	50	GRVD	7/23/2015	WNV
San Bernardino	WVAL6004	990	Cx. quinquefasciatus	Ontario	50	GRVD	7/23/2015	WNV
San Bernardino	WVAL6004	993	Cx. quinquefasciatus	Ontario	10	GRVD	7/23/2015	WNV
San Bernardino	WVAL6004	1034	Cx. quinquefasciatus	Ontario	50	GRVD	7/28/2015	WNV
San Bernardino	WVAL6004	1035	Cx. quinquefasciatus	Ontario	50	GRVD	7/28/2015	WNV
San Bernardino	WVAL6004	1036	Cx. quinquefasciatus	Ontario	50	GRVD	7/28/2015	WNV
San Bernardino	WVAL6004	1037	Cx. quinquefasciatus	Ontario	23	GRVD	7/28/2015	WNV
San Bernardino	WVAL6004	1068	Cx. quinquefasciatus	Ontario	17	GRVD	8/4/2015	WNV
San Bernardino	WVAL6005	1001	Cx. quinquefasciatus	Ontario	15	GRVD	7/23/2015	WNV
San Bernardino	WVAL6005	1022	Cx. quinquefasciatus	Ontario	19	GRVD	7/28/2015	WNV
San Bernardino	WVAL6005	1081	Cx. quinquefasciatus	Ontario	25	GRVD	8/4/2015	WNV
San Bernardino	WVAL6007	974	Cx. quinquefasciatus	Ontario	15	CO2	7/17/2015	WNV
San Bernardino	WVAL6007	1008	Cx. quinquefasciatus	Ontario	50	CO2	7/24/2015	WNV
San Bernardino	WVAL6007	1009	Cx. quinquefasciatus	Ontario	38	CO2	7/24/2015	WNV
San Bernardino	WVAL6009	1033	Cx. quinquefasciatus	Ontario	23	GRVD	7/28/2015	WNV
San Bernardino	WVAL6009	1058	Cx. quinquefasciatus	Ontario	52	GRVD	8/4/2015	WNV
San Bernardino	WVAL6011	1000	Cx. quinquefasciatus	Ontario	10	GRVD	7/23/2015	WNV
San Bernardino	WVAL6011	1072	Cx. quinquefasciatus	Ontario	23	GRVD	8/4/2015	WNV
San Bernardino	WVAL6012	1031	Cx. quinquefasciatus	Ontario	32	GRVD	7/28/2015	WNV
San Bernardino	WVAL6014	765	Cx. quinquefasciatus	Fwy CA 60	50	GRVD	6/23/2015	WNV
San Bernardino	WVAL6014	766	Cx. quinquefasciatus	Fwy CA 60	18	GRVD	6/23/2015	WNV
San Diego	SAND145	151	Cx. tarsalis	Oceanside	25	CO2	7/22/2015	WNV
San Joaquin	SJCM8003	1588	Cx. pipiens	Tracy	2	CO2	8/4/2015	WNV
San Joaquin	SJCM8026	1580	Cx. tarsalis	Stockton	50	CO2	8/4/2015	WNV
San Joaquin	SJCM8026	1581	Cx. tarsalis	Stockton	50	CO2	8/4/2015	WNV
San Joaquin	SJCM8026	1582	Cx. tarsalis	Stockton	50	CO2	8/4/2015	WNV
San Joaquin	SJCM8027	1593	Cx. tarsalis	McDonald Isl. bridge	19	CO2	8/4/2015	WNV
San Joaquin	SJCM8027	1594	Cx. pipiens	McDonald Isl. bridge	17	CO2	8/4/2015	WNV
San Joaquin	SJCM8029	1573	Cx. pipiens	Farmington	47	CO2	8/4/2015	WNV
San Joaquin	SJCM8032	1540	Cx. pipiens	Escalon	50	CO2	8/4/2015	WNV
San Joaquin	SJCM8056	1523	Cx. tarsalis	Manteca	47	CO2	8/4/2015	WNV
San Joaquin	SJCM8056	1524	Cx. pipiens	Manteca	48	CO2	8/4/2015	WNV
San Joaquin	SJCM8075	1635	Cx. tarsalis	Lodi	13	CO2	8/6/2015	WNV
San Joaquin	SJCM8075	1636	Cx. tarsalis	Lodi	9	CO2	8/6/2015	WNV
San Joaquin	SJCM8114	1611	Cx. tarsalis	Manteca	5	CO2	8/6/2015	WNV
San Joaquin	SJCM8157	1610	Cx. tarsalis	Manteca	2	CO2	8/6/2015	WNV
San Joaquin	SJCM8159	1551	Cx. pipiens	Stockton	50	CO2	8/4/2015	WNV
San Joaquin	SJCM9906	1576	Cx. tarsalis	French Camp	23	CO2	8/4/2015	WNV
San Mateo	SANM9929	103	Cx. tarsalis	Redwood City	4	CO2	7/31/2015	WNV
San Mateo	SANM9929	105	Cx. tarsalis	Redwood City	2	CO2	7/31/2015	WNV
Shasta	SHAS10140	372	Cx. tarsalis		30	CO2	8/4/2015	WNV

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Shasta	SHAS227	358	Cx. tarsalis	Cottonwood	42	CO2	7/31/2015	WNV
Shasta	SHAS227	360	Cx. pipiens	Cottonwood	35	CO2	7/31/2015	WNV
Shasta	SHAS242	376	Cx. tarsalis	Cottonwood	30	CO2	8/4/2015	WNV
Shasta	SHAS271	364	Cx. tarsalis	Anderson	47	CO2	7/31/2015	WNV
Shasta	SHAS271	365	Cx. pipiens	Anderson	46	CO2	7/31/2015	WNV
Solano	SOLA304	81	Cx. tarsalis	Suisun City	50	CO2	7/27/2015	WNV
Solano	SOLA304	88	Cx. tarsalis	Suisun City	50	CO2	7/27/2015	WNV
Solano	SOLA315	92	Cx. tarsalis	Suisun City	50	CO2	7/27/2015	WNV
Stanislaus	EAST1077	15138	Cx. pipiens	Modesto	19	CO2	8/6/2015	WNV
Stanislaus	TRLK1303	781	Cx. pipiens	Patterson	4	CO2	7/30/2015	WNV
Stanislaus	TRLK319	806	Cx. tarsalis	Newman	19	CO2	8/4/2015	WNV
Stanislaus	TRLK432	760	Cx. pipiens	Turlock	50	CO2	7/30/2015	WNV
Stanislaus	TRLK432	767	Cx. pipiens	Turlock	50	CO2	7/30/2015	WNV
Stanislaus	TRLK710	777	Cx. tarsalis	Turlock	8	CO2	7/30/2015	WNV
Sutter	SUYA31	289	Cx. tarsalis	Rio Oso	50	REST	8/3/2015	WNV
Sutter	SUYA44	292	Cx. tarsalis	Pleasant Grove	44	REST	8/3/2015	WNV
Sutter	SUYA5	311	Cx. tarsalis	Live Oak	15	CO2	8/5/2015	WNV
Sutter	SUYA70	306	Cx. tarsalis	Yuba City	48	CO2	8/4/2015	WNV
Tulare	DLTA6417	1040	Cx. quinquefasciatus	Dinuba	38	GRVD	8/4/2015	WNV
Tulare	DLTA7730	1031	Cx. quinquefasciatus	Woodlake	16	GRVD	8/4/2015	WNV
Tulare	DLTA8423	1007	Cx. quinquefasciatus	Visalia	18	GRVD	7/31/2015	WNV
Tulare	DLTA8423	1008	Cx. quinquefasciatus	Visalia	45	GRVD	7/31/2015	WNV
Tulare	DLTA8423	1009	Cx. quinquefasciatus	Visalia	44	GRVD	7/31/2015	WNV
Tulare	DLTA8423	1012	Cx. quinquefasciatus	Visalia	33	GRVD	7/31/2015	WNV
Tulare	DLTA8423	1037	Cx. quinquefasciatus	Visalia	27	GRVD	8/4/2015	WNV
Tulare	DLTA8424	1014	Cx. quinquefasciatus	Visalia	43	GRVD	7/31/2015	WNV
Tulare	DLTA8424	1015	Cx. quinquefasciatus	Visalia	34	GRVD	7/31/2015	WNV
Tulare	DLTA8424	1016	Cx. quinquefasciatus	Visalia	46	GRVD	7/31/2015	WNV
Tulare	DLTA8424	1019	Cx. quinquefasciatus	Visalia	18	GRVD	7/31/2015	WNV
Tulare	DLTA8424	1020	Cx. quinquefasciatus	Visalia	22	GRVD	7/31/2015	WNV
Tulare	DLTA8425	1050	Cx. quinquefasciatus	Visalia	50	GRVD	8/6/2015	WNV
Tulare	DLTA8426	1033	Cx. quinquefasciatus	Visalia	27	GRVD	8/4/2015	WNV
Tulare	DLTA8426	1052	Cx. quinquefasciatus	Visalia	34	GRVD	8/6/2015	WNV
Tulare	DLTA8427	1032	Cx. quinquefasciatus	Visalia	22	GRVD	8/4/2015	WNV
Tulare	DLTA8427	1045	Cx. quinquefasciatus	Visalia	21	GRVD	8/5/2015	WNV
Tulare	DLTA8427	1048	Cx. quinquefasciatus	Visalia	49	GRVD	8/5/2015	WNV
Tulare	DLTA8427	1057	Cx. quinquefasciatus	Visalia	50	GRVD	8/6/2015	WNV
Tulare	DLTA8427	1058	Cx. quinquefasciatus	Visalia	17	GRVD	8/6/2015	WNV
Tulare	DLTA8519	1023	Cx. quinquefasciatus	Visalia	50	GRVD	7/31/2015	WNV
Tulare	DLTA8519	1024	Cx. quinquefasciatus	Visalia	45	GRVD	7/31/2015	WNV
Tulare	DLTA8530	1034	Cx. quinquefasciatus	Visalia	25	GRVD	8/4/2015	WNV
Tulare	TLRE86	52	Cx. quinquefasciatus	Tulare	8	CO2	8/4/2015	WNV
Yolo	SAYO101001	3586	Cx. tarsalis	Rumsey	19	CO2	8/6/2015	WNV
Yolo	SAYO101002	3585	Cx. tarsalis	Rumsey	1	GRVD	8/6/2015	WNV
Yolo	SAYO103007	3543	Cx. tarsalis	Dunnigan	50	CO2	8/6/2015	WNV
Yolo	SAYO103007	3544	Cx. tarsalis	Dunnigan	50	CO2	8/6/2015	WNV
Yolo	SAYO103007	3546	Cx. tarsalis	Dunnigan	50	CO2	8/6/2015	WNV
Yolo	SAYO103007	3547	Cx. tarsalis	Dunnigan	38	CO2	8/6/2015	WNV
Yolo	SAYO114001	3523	Cx. tarsalis	Zamora	50	CO2	8/6/2015	WNV
Yolo	SAYO114004	3578	Cx. tarsalis	Zamora	50	CO2	8/6/2015	WNV
Yolo	SAYO114004	3580	Cx. tarsalis	Zamora	50	CO2	8/6/2015	WNV

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Yolo	SAYO115008	3532	Cx. tarsalis	Zamora	50	CO2	8/6/2015	WNV
Yolo	SAYO115008	3533	Cx. tarsalis	Zamora	50	CO2	8/6/2015	WNV
Yolo	SAYO116002	3514	Cx. tarsalis	Knights Landing	50	CO2	8/6/2015	WNV
Yolo	SAYO123003	3563	Cx. pipiens	Madison	50	GRVD	8/6/2015	WNV
Yolo	SAYO123003	3564	Cx. pipiens	Madison	50	GRVD	8/6/2015	WNV
Yolo	SAYO123010	3557	Cx. tarsalis	Esparto	3	GRVD	8/6/2015	WNV
Yolo	SAYO125005	3165	Cx. tarsalis	Woodland	1	GRVD	8/1/2015	WNV
Yolo	SAYO125011	3352	Cx. tarsalis	Woodland	11	CO2	8/5/2015	WNV
Yolo	SAYO125025	3149	Cx. tarsalis	Woodland	50	CO2	8/1/2015	WNV
Yolo	SAYO125029	3157	Cx. pipiens	woodland	1	CO2	8/1/2015	WNV
Yolo	SAYO125029	3355	Cx. tarsalis	woodland	50	CO2	8/5/2015	WNV
Yolo	SAYO135003	3131	Cx. tarsalis	Woodland	50	CO2	8/1/2015	WNV
Yolo	SAYO135003	3132	Cx. pipiens	Woodland	1	CO2	8/1/2015	WNV
Yolo	SAYO135006	3539	Cx. tarsalis	Woodland	50	CO2	8/6/2015	WNV
Yolo	SAYO135010	3127	Cx. tarsalis	Woodland	50	CO2	8/1/2015	WNV
Yolo	SAYO135010	3337	Cx. tarsalis	Woodland	49	CO2	8/5/2015	WNV
Yolo	SAYO135020	3146	Cx. tarsalis	woodland	50	CO2	8/1/2015	WNV
Yolo	SAYO136010	3518	Cx. tarsalis	Woodland	50	CO2	8/6/2015	WNV
Yolo	SAYO143009	3574	Cx. pipiens	Winters	50	CO2	8/6/2015	WNV
Yolo	SAYO143009	3577	Cx. pipiens	Winters	25	GRVD	8/6/2015	WNV
Yolo	SAYO145003	3191	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO145005	3208	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO145005	3209	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO145011	3387	Cx. tarsalis	Davis	12	CO2	8/6/2015	WNV
Yolo	SAYO145025	3212	Cx. tarsalis	Davis	44	CO2	8/4/2015	WNV
Yolo	SAYO146002	3175	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO146002	3176	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO146006	3365	Cx. tarsalis	Davis	50	CO2	8/6/2015	WNV
Yolo	SAYO146012	3170	Cx. tarsalis	Davis	50	CO2	8/4/2015	WNV
Yolo	SAYO146012	3172	Cx. tarsalis	Davis	10	CO2	8/4/2015	WNV
Yolo	SAYO146020	3390	Cx. tarsalis	El Macero	50	CO2	8/6/2015	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0001	Chico	7/28/2015	WNV	1701	1705		
Butte	BUCO0002	Oroville	7/28/2015	WNV	1709	1710	1711	1712
Butte	BUCO0003	Oroville	7/28/2015	WNV	1718			
Butte	BUCO0004	Gridley	7/28/2015	WNV	1719			
Butte	BUCO0006	Chico	7/28/2015	WNV	1731	1735		
Butte	BUCO0007	Chico	7/28/2015	WNV	1737	1739	1741	1742
Contra Costa	CNTR8152	Knightsen	7/27/2015	WNV	1103	1108	1109	1110
Glenn	GLEN9701	Willows	7/29/2015	WNV	1337			
Lake	LAKE1000	Upper Lake	7/27/2015	WNV	1302	1305		
Merced	MERC0001	Merced	7/30/2015	WNV	1830			
Merced	MERC0016	Merced	7/30/2015	WNV	1833			
Shasta	SHAS5038		7/29/2015	WNV	1561	1565	1566	
Shasta	SHAS9702	Millville	7/30/2015	WNV	1569	1574		
Solano	SOLA0125	Cordelia	7/24/2015	WNV	1615	1622	1623	
Stanislaus	EAST1025	Modesto	7/30/2015	WNV	1188			
Stanislaus	EAST1959	Oakdale	7/29/2015	WNV	1181			
Sutter	SUYA0014	Sutter	7/30/2015	WNV	2244	2245		
Sutter	SUYA0031	Rio Oso	7/30/2015	WNV	2222	2224	2226	2228
Tehama	TEHA0100	Corning	7/29/2015	WNV	2376	2378		
Yuba	SUYA0010	Olivehurst	7/30/2015	WNV	2216	2217		
Yuba	SUYA0007	Marysville	7/30/2015	WNV	2210	2212		

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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 or confirmation.

Dead Birds

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus by the singleplex RT-PCR Taqman assay and confirmed with a second primer set. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.
