

California Arbovirus Surveillance Bulletin #25

Week 33 Friday, August 21, 2015



Weekly Update

Humans

Twenty-one new human cases of West Nile virus (WNV) illness were reported this week from the following six counties: Butte (14), Glenn (2), Lake (1), Mendocino (1), Nevada (1), and Tehama (2). These are the first cases reported from Lake, Mendocino, and Tehama Counties this year. As of August 19, a total of 57 human cases of WNV illness have been reported to the California Department of Public Health from thirteen counties. Of the 57 case-patients, 31 (54%) had neuroinvasive illness. The median age of the 57 individuals is 54 years (range: 5-91 years); 48 (84%) are male. Dates of symptom onset ranged from May 15 to August 9. Two WNV-related fatalities have been reported to CDPH. In addition, 14 asymptomatic WNV-positive blood donors have been reported this year from eight counties. At this time last year, 57 WNV cases had been reported from thirteen counties.

National Comments: As of August 18, 210 cases of WNV human disease have been reported from 29 states. Of these, 126 (60%) were classified as neuroinvasive disease and five fatalities have been reported.

Dead Birds

A total of 85 WNV positive dead birds were reported this week from the following 21 counties: Alameda (4), Butte (9), Lake (1), Marin (1), Napa (1), Nevada (4), Orange (5), Riverside (11), Sacramento (8), San Bernardino (2), San Diego (7), San Joaquin (3), Santa Clara (14), Shasta (3), Solano (1), Stanislaus (1), Sutter (2), Trinity (1), Tulare (1), Ventura (2) and Yolo (4). In 2015, 503 birds have tested positive for WNV from 36 counties. At this time last year, 1,410 WNV positive birds had been detected in 33 counties.

Mosquito Pools

A total of 191 WNV positive mosquito pools were reported this week from the following 20 counties: Butte (4), Fresno (14), Kern (2), Kings (20), Lake (3), Los Angeles (17), Madera (5), Merced (4), Placer (2), Riverside (13), Sacramento (20), San Bernardino (5), San Diego (1), San Joaquin (23), Santa Clara (3), Shasta (5), Stanislaus (8), Sutter (3), Tulare (24), and Yolo (15). **These are the first WNV positive mosquitoes from Madera County this year.** In 2015, 1,768 WNV positive mosquito pools have been reported from 29 counties. **In addition, a total of 14 mosquito pools have tested positive for St. Louis encephalitis virus (SLEV) from Riverside County (Coachella Valley). This is the first detection of SLEV activity in California since 2003.** At this time last year, 2,040 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 46 WNV seroconversions were reported this week from 22 flocks located in 11 counties: Butte (1), Colusa (10), Glenn (2), Los Angeles (1), Merced (6), Placer (1), San Bernardino (1), Shasta (2), Stanislaus (4), Sutter (13), and Tehama (5). **These are the first positive sentinel chickens from Colusa County this year.** In 2015, 150 WNV seroconversions have been detected among 44 flocks located in 18 counties. At this time last year, 129 WNV positive chickens had been reported from 51 flocks in 17 counties.

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		11	3	
Butte	30	30	85	35
Colusa		3		10
Contra Costa		3	2	6
El Dorado		2		
Fresno		1	50	
Glenn	8	4	21	6
Humboldt		2		
Kern	2	1	103	
Kings		3	79	
Lake	1	3	20	2
Los Angeles	1	4	64	2
Madera		1	5	
Marin		3		
Mendocino	1			
Merced		1	7	8
Napa		3		
Nevada	2	8		
Orange	1	22	86	
Placer		5	44	5
Riverside	3	34	112	
Sacramento		55	92	1
San Bernardino	1	4	115	5
San Diego		87	8	
San Joaquin		10	134	
San Mateo		7	4	
Santa Barbara			1	
Santa Clara	1	72	5	
Shasta		8	41	13
Solano		7	4	3
Sonoma		4	8	
Stanislaus		10	27	6
Sutter		16	50	26
Tehama	2			7
Trinity		2		
Tulare	4	22	435	
Ventura		6		3
Yolo		43	140	1
Yuba		6	23	11
Totals	57	503	1,768	150

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	9,355	7,275
# Positive Counties	36	39
# Human Cases	57	57
# Positive Dead Birds / # Tested	1,410 / 2,491	503 / 1,868
# Positive Mosquito Pools / # Tested	2,040 / 18,351	1,768 / 21,758
# Seroconversions / # Tested	129 / 9,471	150 / 8,067

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	21	0	0
	YTD	57	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	129	85
	YTD	1,868	503

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	424	46	0	0
	YTD	8,067	150	0	0
Mosquito Pools	Week	1,544	191	0	0
	YTD	21,758	1,768	14	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94538	Western Scrub-Jay	8/17/2015	WNV
Alameda	Alameda Co MAD	Fremont	94555	Common Raven	8/19/2015	WNV
Alameda	Alameda Co MAD	Hayward	94541	American Crow	8/20/2015	WNV
Alameda	Alameda Co MAD	Hayward	94544	Western Scrub-Jay	8/19/2015	WNV
Butte	Butte Co MVCD	Chico	95926	American Crow	7/14/2015	WNV
Butte	Butte Co MVCD	Chico	95926	American Crow	8/18/2015	WNV
Butte	Butte Co MVCD	Chico	95928	Western Scrub-Jay	7/14/2015	WNV
Butte	Butte Co MVCD	Chico	95973	American Crow	8/12/2015	WNV
Butte	Butte Co MVCD	Chico	95973	House Finch	8/13/2015	WNV
Butte	Butte Co MVCD	Chico	95973	Yellow-billed Magpie	8/13/2015	WNV
Butte	Butte Co MVCD	Magalia	95954	Woodpecker	8/5/2015	WNV
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	8/5/2015	WNV

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Butte	Butte Co MVCD	Oroville	95966	American Crow	8/13/2015	WNV
Lake	Lake Co VCD	Lakeport	95453	Cooper's Hawk	8/14/2015	WNV
Marin	Marin-Sonoma MVCD	San Rafael	94903	American Crow	8/11/2015	WNV
Napa	Napa Co MAD	Calistoga	94515	Oak Titmouse	8/6/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Grass Valley	95945	American Crow	8/12/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Grass Valley	95945	Western Scrub-Jay	8/13/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Grass Valley	95949	Western Scrub-Jay	8/9/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Nevada City	95959	Domestic Finch	8/6/2015	WNV
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	8/12/2015	WNV
Orange	Orange Co VCD	Laguna Hills	92653	American Crow	8/14/2015	WNV
Orange	Orange Co VCD	Orange	92869	American Crow	8/14/2015	WNV
Orange	Orange Co VCD	Santa Ana	92706	American Crow	8/14/2015	WNV
Orange	Orange Co VCD	Tustin	92780	House Finch	8/18/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/7/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/13/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	House Sparrow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92881	American Crow	8/6/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92881	American Crow	8/8/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/10/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92506	American Crow	8/5/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/18/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	8/20/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/19/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	Red-shouldered Hawk	8/17/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	8/14/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Oak Titmouse	8/17/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/20/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	Western Scrub-Jay	8/16/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Colton	92324	American Crow	8/18/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Yucaipa	92399	American Crow	8/11/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/17/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/17/2015	WNV
San Diego	San Diego Co VCP	Fallbrook	92028	American Crow	8/17/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92054	Western Scrub-Jay	8/17/2015	WNV
San Diego	San Diego Co VCP	San Diego	92120	American Crow	8/17/2015	WNV
San Diego	San Diego Co VCP	San Diego	92139	Sharp-shinned Hawk	8/16/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	Common Raven	8/17/2015	WNV
San Joaquin	San Joaquin Co MVCD	Ripon	95366	Western Scrub-Jay	8/21/2015	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95215	Yellow-billed Magpie	8/13/2015	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95304	Common Raven	8/17/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/10/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	8/14/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/8/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/10/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/12/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94043	American Crow	8/11/2015	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94304	American Crow	8/12/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/12/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95127	American Crow	8/10/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/10/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/13/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	8/12/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95133	American Crow	8/10/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95134	American Crow	8/14/2015	WNV
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	8/20/2015	WNV

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Shasta	Shasta MVCD	Redding	96003	Western Scrub-Jay	8/6/2015	WNV
Shasta	Shasta MVCD	Shasta Lake	96019	Western Scrub-Jay	8/20/2015	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/19/2015	WNV
Stanislaus	Turlock MAD	Turlock	95382	Western Scrub-Jay	8/12/2015	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	House Finch	8/13/2015	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	House Sparrow	8/12/2015	WNV
Trinity	Trinity Environmental Health	Weaverville	96093	Western Scrub-Jay	8/12/2015	WNV
Tulare	Delta VCD	Visalia	93292	Parakeet	8/17/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	American Crow	8/11/2015	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/10/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/18/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Yellow-billed Magpie	8/16/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	House Finch	8/18/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/14/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO60	288	Cx. pipiens	Chico	12	CO2	8/18/15	WNV
Butte	BUCO71	289	Cx. tarsalis	Chico	42	CO2	8/18/15	WNV
Butte	BUCO91	279	Cx. tarsalis	Biggs	50	CO2	8/12/15	WNV
Butte	BUCO91	281	Cx. tarsalis	Biggs	50	CO2	8/12/15	WNV
Fresno	CNSL1696	112	Cx. quinquefasciatus	Fresno	21	GRVD	8/18/15	WNV
Fresno	CNSL1934	115	Cx. quinquefasciatus	Sanger	43	GRVD	8/19/15	WNV
Fresno	CNSL3068	404	Cx. quinquefasciatus	Reedley	50	GRVD	8/13/15	WNV
Fresno	CNSL3225	406	Cx. quinquefasciatus	Reedley	50	GRVD	8/13/15	WNV
Fresno	CNSL3247	405	Cx. quinquefasciatus	Reedley	50	GRVD	8/13/15	WNV
Fresno	CNSL3307	403	Cx. quinquefasciatus	Reedley	50	GRVD	8/13/15	WNV
Fresno	CNSL5059	408	Cx. quinquefasciatus	Kingsburg	38	GRVD	8/14/15	WNV
Fresno	CNSL5143	410	Cx. quinquefasciatus	Kingsburg	39	GRVD	8/14/15	WNV
Fresno	CNSL6124	412	Cx. tarsalis	Riverdale	50	CO2	8/18/15	WNV
Fresno	FRNO103	85	Cx. quinquefasciatus		50	GRVD	8/13/15	WNV
Fresno	FRNO103	87	Cx. quinquefasciatus		50	GRVD	8/13/15	WNV
Fresno	FRNO103	88	Cx. quinquefasciatus		50	GRVD	8/13/15	WNV
Fresno	FRWS100006	141	Cx. tarsalis	Dos Palos	50	CO2	8/18/15	WNV
Fresno	FRWS2105	146	Cx. tarsalis	Dos Palos	35	CO2	8/18/15	WNV
Kern	DLNO39	80	Cx. quinquefasciatus	Delano	14	GRVD	8/18/15	WNV
Kern	KERN1144	444	Cx. quinquefasciatus	Bakersfield	35	CO2	8/12/15	WNV
Kings	CNSL5107	415	Cx. stigmatosoma	Kingsburg	21	GRVD	8/18/15	WNV
Kings	KNGS3022	377	Cx. pipiens	Hanford	19	CO2	8/11/15	WNV
Kings	KNGS3062	366	Cx. tarsalis	Lemoore	50	CO2	8/11/15	WNV
Kings	KNGS3062	367	Cx. tarsalis	Lemoore	50	CO2	8/11/15	WNV
Kings	KNGS3062	370	Cx. pipiens	Lemoore	50	CO2	8/11/15	WNV
Kings	KNGS3102	372	Cx. tarsalis	Armona	24	CO2	8/11/15	WNV
Kings	KNGS3102	373	Cx. pipiens	Armona	50	CO2	8/11/15	WNV
Kings	KNGS3102	374	Cx. pipiens	Armona	50	CO2	8/11/15	WNV
Kings	KNGS3102	375	Cx. pipiens	Armona	45	CO2	8/11/15	WNV
Kings	KNGS3301	346	Cx. pipiens	Corcoran	20	BGSENT	8/12/15	WNV
Kings	KNGS4401	355	Cx. pipiens	Lemoore	50	BGSENT	8/14/15	WNV
Kings	KNGS4403	359	Cx. pipiens	Lemoore	50	BGSENT	8/14/15	WNV
Kings	KNGS4403	362	Cx. pipiens	Lemoore	50	BGSENT	8/14/15	WNV
Kings	KNGS4403	363	Cx. pipiens	Lemoore	50	BGSENT	8/14/15	WNV
Kings	KNGS5504	343	Cx. pipiens	Hanford	50	BGSENT	8/11/15	WNV
Kings	KNGS5507	341	Cx. pipiens	Hanford	20	BGSENT	8/11/15	WNV
Kings	KNGS5508	349	Cx. pipiens	Hanford	50	BGSENT	8/12/15	WNV

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Kings	KNGS5508	350	Cx. pipiens	Hanford	50	BGSENT	8/12/15	WNV
Kings	KNGS5508	351	Cx. pipiens	Hanford	50	BGSENT	8/12/15	WNV
Kings	KNGS5516	347	Cx. pipiens	Hanford	50	BGSENT	8/12/15	WNV
Lake	LAKE1404	441	Cx. stigmatosoma	Lakeport	22	REST	8/18/15	WNV
Lake	LAKE195	425	Cx. tarsalis	Lakeport	47	CO2	8/18/15	WNV
Lake	LAKE302	437	Cx. tarsalis	Clearlake Oaks	16	REST	8/19/15	WNV
Los Angeles	GRLA2007	5652	Cx. quinquefasciatus	Toluca Lake	31	GRVD	8/12/15	WNV
Los Angeles	GRLA2017	5653	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/12/15	WNV
Los Angeles	GRLA2101	540	Cx. quinquefasciatus	Santa Fe Springs	25	GRVD	8/12/15	WNV
Los Angeles	GRLA2548	5677	Cx. quinquefasciatus	Sylmar	21	GRVD	8/14/15	WNV
Los Angeles	GRLA2936	5670	Cx. quinquefasciatus	Burbank	50	GRVD	8/13/15	WNV
Los Angeles	GRLA2953	543	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/12/15	WNV
Los Angeles	GRLA2955	544	Cx. quinquefasciatus	Cerritos	17	GRVD	8/12/15	WNV
Los Angeles	GRLA3000	5647	Cx. quinquefasciatus	Sun Valley	50	GRVD	8/11/15	WNV
Los Angeles	GRLA3038	5655	Cx. quinquefasciatus	Valley Village	42	GRVD	8/12/15	WNV
Los Angeles	GRLA3040	542	Cx. quinquefasciatus	La Mirada	31	GRVD	8/12/15	WNV
Los Angeles	GRLA3069	5656	Cx. quinquefasciatus	Valley Village	15	GRVD	8/12/15	WNV
Los Angeles	GRLA3076	5659	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/12/15	WNV
Los Angeles	GRLA3080	5657	Cx. quinquefasciatus	North Hollywood	48	GRVD	8/12/15	WNV
Los Angeles	GRLA3102	5654	Cx. quinquefasciatus	Studio City	34	GRVD	8/12/15	WNV
Los Angeles	GRLA3133	5642	Cx. quinquefasciatus	San Fernando	50	GRVD	8/11/15	WNV
Los Angeles	SGVA1	272	Cx. quinquefasciatus	City of Industry	25	GRVD	8/13/15	WNV
Los Angeles	SGVA8	245	Cx. tarsalis	Pomona	2	GRVD	8/12/15	WNV
Madera	MADR1008	185	Cx. tarsalis	Madera	50	CO2	8/12/15	WNV
Madera	MADR11	196	Cx. tarsalis	Chowchilla	20	CO2	8/14/15	WNV
Madera	MADR192	188	Cx. tarsalis	Madera	18	CO2	8/13/15	WNV
Madera	MADR192	189	Cx. tarsalis	Madera	35	CO2	8/13/15	WNV
Madera	MADR276	194	Cx. quinquefasciatus	Madera	19	CO2	8/14/15	WNV
Merced	FRWS100009	130	Cx. quinquefasciatus	Dos Palos	35	CO2	8/13/15	WNV
Merced	FRWS100009	131	Cx. tarsalis	Dos Palos	50	CO2	8/13/15	WNV
Merced	FRWS100009	133	Cx. tarsalis	Dos Palos	50	CO2	8/13/15	WNV
Merced	FRWS100009	134	Cx. tarsalis	Dos Palos	50	CO2	8/13/15	WNV
Placer	PLCR1003	1269	Cx. tarsalis	Lincoln	42	CO2	8/18/15	WNV
Placer	PLCR191373	1322	Cx. tarsalis		45	CO2	8/18/15	WNV
Riverside	COAV344	2562	Cx. quinquefasciatus	La Quinta	15	GRVD	8/20/15	WNV
Riverside	COAV416	2547	Cx. quinquefasciatus	La Quinta	29	CO2	8/18/15	WNV
Riverside	NWST103	57	Cx. quinquefasciatus		3	REST	7/21/15	WNV
Riverside	NWST122	60	Cx. quinquefasciatus	Corona	22	CO2	7/24/15	WNV
Riverside	NWST26	82	Cx. tarsalis	Corona Center	30	CO2	8/6/15	WNV
Riverside	NWST54	105	Cx. tarsalis	Corona	9	CO2	8/14/15	WNV
Riverside	NWST86	80	Cx. quinquefasciatus	Corona	42	CO2	8/6/15	WNV
Riverside	NWST9220	110	Cx. quinquefasciatus	Riverside	15	CO2	8/14/15	WNV
Riverside	NWST9220	111	Cx. tarsalis	Riverside	2	CO2	8/14/15	WNV
Riverside	NWST93	109	Cx. quinquefasciatus	riverside	28	CO2	8/14/15	WNV
Riverside	NWST94	103	Cx. quinquefasciatus	Corona	32	CO2	8/14/15	WNV
Riverside	NWST9602	115	Cx. quinquefasciatus	RIVERSIDE	18	CO2	8/14/15	WNV
Riverside	NWST99	59	Cx. stigmatosoma	Norco	5	REST	7/21/15	WNV
Sacramento	SAYO204021	4126	Cx. tarsalis	Citrus Heights	13	CO2	8/18/15	WNV
Sacramento	SAYO204021	4127	Cx. pipiens	Citrus Heights	5	CO2	8/18/15	WNV
Sacramento	SAYO204031	4117	Cx. tarsalis	Citrus Heights	4	CO2	8/18/15	WNV
Sacramento	SAYO205010	4124	Cx. pipiens	Orangevale	2	CO2	8/18/15	WNV
Sacramento	SAYO214013	4121	Cx. pipiens	Carmichael	45	CO2	8/18/15	WNV
Sacramento	SAYO232001	4061	Cx. pipiens	Sacramento	4	GRVD	8/18/15	WNV
Sacramento	SAYO233001	4048	Cx. pipiens	Elk Grove	7	CO2	8/18/15	WNV
Sacramento	SAYO233075	4026	Cx. pipiens	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO233075	4027	Cx. pipiens	Elk Grove	14	CO2	8/18/15	WNV
Sacramento	SAYO233075	4028	Cx. pipiens	Elk Grove	3	GRVD	8/18/15	WNV
Sacramento	SAYO234007	4052	Cx. pipiens	Elk Grove	12	GRVD	8/18/15	WNV
Sacramento	SAYO234012	4056	Cx. tarsalis	Elk Grove	14	CO2	8/18/15	WNV

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Sacramento	SAYO242010	3999	Cx. pipiens	Elk Grove	32	CO2	8/18/15	WNV
Sacramento	SAYO242015	4012	Cx. pipiens	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO243016	4003	Cx. tarsalis	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO243016	4008	Cx. pipiens	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO243016	4010	Cx. pipiens	Elk Grove	3	GRVD	8/18/15	WNV
Sacramento	SAYO243025	4021	Cx. pipiens	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO243025	4022	Cx. pipiens	Elk Grove	50	CO2	8/18/15	WNV
Sacramento	SAYO244008	4179	Cx. tarsalis	Wilton	20	CO2	8/20/15	WNV
San Bernardino	SANB38	319	Cx. quinquefasciatus	Grand Terrace	28	CO2	8/12/15	WNV
San Bernardino	SANB40	350	Cx. quinquefasciatus	Ontario	50	CO2	8/19/15	WNV
San Bernardino	SANB40	351	Cx. quinquefasciatus	Ontario	35	CO2	8/19/15	WNV
San Bernardino	WVAL5008	1156	Cx. quinquefasciatus	Rancho Cucamonga	26	GRVD	8/14/15	WNV
San Bernardino	WVAL5008	1157	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	8/14/15	WNV
San Diego	SAND16	194	Cx. quinquefasciatus	Carlsbad	50	GRVD	8/10/15	WNV
San Joaquin	SJCM8008	1802	Cx. tarsalis	Manteca	54	CO2	8/18/15	WNV
San Joaquin	SJCM8008	1803	Cx. pipiens	Manteca	50	CO2	8/18/15	WNV
San Joaquin	SJCM8008	1804	Cx. pipiens	Manteca	35	CO2	8/18/15	WNV
San Joaquin	SJCM8010	1774	Cx. tarsalis	Ripon	41	CO2	8/18/15	WNV
San Joaquin	SJCM8018	1815	Cx. tarsalis	Stockton	23	CO2	8/18/15	WNV
San Joaquin	SJCM8020	1812	Cx. tarsalis	Acampo	21	CO2	8/18/15	WNV
San Joaquin	SJCM8020	1813	Cx. pipiens	Acampo	24	CO2	8/18/15	WNV
San Joaquin	SJCM8029	1811	Cx. pipiens	Farmington	50	CO2	8/18/15	WNV
San Joaquin	SJCM8076	1835	Cx. pipiens	Stockton	4	CO2	8/18/15	WNV
San Joaquin	SJCM8079	1786	Cx. tarsalis	Manteca	38	CO2	8/18/15	WNV
San Joaquin	SJCM8079	1787	Cx. pipiens	Manteca	50	CO2	8/18/15	WNV
San Joaquin	SJCM8079	1788	Cx. pipiens	Manteca	50	CO2	8/18/15	WNV
San Joaquin	SJCM8079	1789	Cx. pipiens	Manteca	50	CO2	8/18/15	WNV
San Joaquin	SJCM8079	1790	Cx. pipiens	Manteca	48	CO2	8/18/15	WNV
San Joaquin	SJCM8111	1841	Cx. tarsalis	Stockton	4	CO2	8/18/15	WNV
San Joaquin	SJCM8111	1847	Cx. erythrothorax	Stockton	50	CO2	8/18/15	WNV
San Joaquin	SJCM8157	1878	Cx. tarsalis	Manteca	2	CO2	8/21/15	WNV
San Joaquin	SJCM8159	1805	Cx. tarsalis	Stockton	2	CO2	8/18/15	WNV
San Joaquin	SJCM8159	1806	Cx. pipiens	Stockton	50	CO2	8/18/15	WNV
San Joaquin	SJCM8159	1807	Cx. pipiens	Stockton	24	CO2	8/18/15	WNV
San Joaquin	SJCM8161	1793	Cx. tarsalis	Ripon	8	CO2	8/18/15	WNV
San Joaquin	SJCM8161	1794	Cx. pipiens	Ripon	50	CO2	8/18/15	WNV
San Joaquin	SJCM8161	1795	Cx. pipiens	Ripon	41	CO2	8/18/15	WNV
Santa Clara	STCL4234	6008	Cx. pipiens	San Jose	12	CO2	8/12/15	WNV
Santa Clara	STCL685	6018	Cx. pipiens	Santa Clara	20	CO2	8/12/15	WNV
Santa Clara	STCL825	6017	Cx. tarsalis	San Jose	11	CO2	8/12/15	WNV
Shasta	SHAS10010	414	Cx. tarsalis	Anderson	34	CO2	8/18/15	WNV
Shasta	SHAS10050	413	Cx. tarsalis	Cottonwood	20	CO2	8/18/15	WNV
Shasta	SHAS110	425	Cx. pipiens	Redding	50	CO2	8/18/15	WNV
Shasta	SHAS20040	435	Cx. tarsalis	Redding	19	CO2	8/19/15	WNV
Shasta	SHAS242	420	Cx. tarsalis	Cottonwood	25	CO2	8/18/15	WNV
Stanislaus	EAST1004	15151	Cx. tarsalis	Modesto	33	CO2	8/19/15	WNV
Stanislaus	TRLK1451	945	Cx. pipiens	Turlock	50	CO2	8/14/15	WNV
Stanislaus	TRLK1451	946	Cx. pipiens	Turlock	17	CO2	8/14/15	WNV
Stanislaus	TRLK305	974	Cx. tarsalis	Grayson	50	CO2	8/19/15	WNV
Stanislaus	TRLK327	904	Cx. pipiens	Denair	50	CO2	8/13/15	WNV
Stanislaus	TRLK327	909	Cx. pipiens	Denair	50	CO2	8/13/15	WNV
Stanislaus	TRLK424	995	Cx. pipiens	Patterson	50	CO2	8/19/15	WNV
Stanislaus	TRLK9742	959	Cx. pipiens	Crows Landing	42	CO2	8/19/15	WNV
Sutter	SUYA14	334	Cx. tarsalis	Sutter	36	REST	8/17/15	WNV
Sutter	SUYA24	332	Cx. tarsalis	Yuba City	35	REST	8/17/15	WNV
Sutter	SUYA63	333	Cx. tarsalis	Live Oak	50	REST	8/17/15	WNV
Tulare	DLNO10	84	Cx. quinquefasciatus	Earlimart	8	GRVD	8/18/15	WNV
Tulare	DLNO76	82	Cx. quinquefasciatus	Richgrove	50	GRVD	8/18/15	WNV
Tulare	DLTA7316	1224	Cx. quinquefasciatus	Traver	23	GRVD	8/18/15	WNV

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Tulare	DLTA7529	1222	Cx. quinquefasciatus	Visalia	25	GRVD	8/18/15	WNV
Tulare	DLTA7625	1197	Cx. quinquefasciatus	Woodlake	45	GRVD	8/14/15	WNV
Tulare	DLTA7625	1201	Cx. quinquefasciatus	Woodlake	40	GRVD	8/14/15	WNV
Tulare	DLTA7625	1202	Cx. quinquefasciatus	Woodlake	45	GRVD	8/14/15	WNV
Tulare	DLTA7636	1185	Cx. quinquefasciatus	Woodlake	45	GRVD	8/14/15	WNV
Tulare	DLTA7730	1188	Cx. quinquefasciatus	Woodlake	49	GRVD	8/14/15	WNV
Tulare	DLTA7731	1178	Cx. quinquefasciatus	Woodlake	32	GRVD	8/14/15	WNV
Tulare	DLTA7731	1181	Cx. quinquefasciatus	Woodlake	32	GRVD	8/14/15	WNV
Tulare	DLTA8422	1220	Cx. quinquefasciatus	Goshen	37	GRVD	8/18/15	WNV
Tulare	DLTA8521	1210	Cx. quinquefasciatus	Visalia	16	GRVD	8/18/15	WNV
Tulare	DLTA8522	1209	Cx. quinquefasciatus	Visalia	10	GRVD	8/18/15	WNV
Tulare	DLTA8529	1207	Cx. quinquefasciatus	Visalia	10	GRVD	8/18/15	WNV
Tulare	DLTA9512	1138	Cx. quinquefasciatus	Farmersville	50	GRVD	8/12/15	WNV
Tulare	DLTA9603	1238	Cx. quinquefasciatus	Exeter	37	GRVD	8/19/15	WNV
Tulare	DLTA9603	1239	Cx. quinquefasciatus	Exeter	24	GRVD	8/19/15	WNV
Tulare	DLTA9603	1241	Cx. quinquefasciatus	Exeter	50	GRVD	8/19/15	WNV
Tulare	DLTA9604	1243	Cx. quinquefasciatus	Exeter	50	GRVD	8/19/15	WNV
Tulare	DLTA9604	1246	Cx. quinquefasciatus	Exeter	14	GRVD	8/19/15	WNV
Tulare	DLTA9610	1232	Cx. quinquefasciatus	Exeter	16	GRVD	8/19/15	WNV
Tulare	DLTA9610	1234	Cx. quinquefasciatus	Exeter	37	GRVD	8/19/15	WNV
Tulare	DLTA9611	1230	Cx. quinquefasciatus	Exeter	29	GRVD	8/19/15	WNV
Yolo	SAYO103007	4236	Cx. tarsalis	Dunnigan	50	CO2	8/20/15	WNV
Yolo	SAYO103007	4237	Cx. tarsalis	Dunnigan	50	CO2	8/20/15	WNV
Yolo	SAYO114001	4248	Cx. tarsalis	Zamora	50	CO2	8/20/15	WNV
Yolo	SAYO114001	4249	Cx. tarsalis	Zamora	19	CO2	8/20/15	WNV
Yolo	SAYO115008	4253	Cx. tarsalis	Zamora	50	CO2	8/20/15	WNV
Yolo	SAYO115008	4258	Cx. tarsalis	Zamora	24	GRVD	8/20/15	WNV
Yolo	SAYO116002	4261	Cx. tarsalis	Knights Landing	50	CO2	8/20/15	WNV
Yolo	SAYO125016	3970	Cx. pipiens	Woodland	12	GRVD	8/18/15	WNV
Yolo	SAYO135006	4263	Cx. tarsalis	Woodland	50	CO2	8/20/15	WNV
Yolo	SAYO135006	4264	Cx. tarsalis	Woodland	50	CO2	8/20/15	WNV
Yolo	SAYO135010	3971	Cx. tarsalis	Woodland	36	CO2	8/18/15	WNV
Yolo	SAYO135016	3964	Cx. tarsalis	Woodland	50	CO2	8/18/15	WNV
Yolo	SAYO135016	3968	Cx. pipiens	Woodland	1	GRVD	8/18/15	WNV
Yolo	SAYO136010	4284	Cx. tarsalis	Woodland	50	CO2	8/20/15	WNV
Yolo	SAYO145005	3944	Cx. tarsalis	Davis	44	CO2	8/18/15	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07
Butte	BUCO0006	Chico	8/11/15	WNV	1732						
Colusa	CLSA0001	Colusa	7/28/15	WNV	1168	1170	1171	1172	1173	1174	1175
Colusa	CLSA0001	Colusa	8/11/15	WNV	1166	1167	1169				
Glenn	GLEN9701	Willows	8/12/15	WNV	1332	1335					
Los Angeles	ANTV8652	Palmdale	8/5/15	WNV	1031						
Merced	MERC0001	Merced	8/13/15	WNV	1826	1829					
Merced	MERC0012	Gustine	8/13/15	WNV	1803						
Merced	MERC0016	Merced	8/13/15	WNV	1831						
Merced	MERC0502	Hilmar	8/13/15	WNV	1841						
Merced	MERC1302	Los Banos	8/13/15	WNV	1808						
Placer	PLCR0757	Auburn	8/10/15	WNV	2689						
San Bernardino	SANB0011	Rialto	8/4/15	WNV	2035						
Shasta	SHAS5038		8/13/15	WNV	1559	1560					
Stanislaus	EAST1959	Oakdale	8/12/15	WNV	1176	1179	1180	1182			
Sutter	SUYA0014	Sutter	8/13/15	WNV	2248						
Sutter	SUYA0015	Robbins	8/13/15	WNV	2229	2232	2233	2234	2235		
Sutter	SUYA0020	Meridian	8/13/15	WNV	2238	2239	2242				
Sutter	SUYA0031	Rio Oso	8/13/15	WNV	2225						
Sutter	SUYA0084	Yuba City	8/13/15	WNV	2203	2204	2204				
Tehama	TEHA0001	Red Bluff	8/11/15	WNV	2365						
Tehama	TEHA0066	Cottonwood	8/11/15	WNV	2353	2354	2357				
Tehama	TEHA0100	Corning	8/11/15	WNV	2374						

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.

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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.

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