

California Arbovirus Surveillance Bulletin #27

Week 35 Friday, September 4, 2015



Weekly Update

Humans

Twenty-five new human cases of West Nile virus (WNV) illness were reported this week from the following 11 counties: Butte (2), Colusa (1), Glenn (5), Los Angeles (2), Orange (3), Riverside (5), San Bernardino (2), San Diego (1), Santa Clara (1), Solano (1), and Yolo (2). These are the first cases reported from Colusa, San Diego, and Solano counties this year. As of September 2, a total of 108 human cases of WNV illness have been reported to the California Department of Public Health from 22 counties; two were fatal. At this time last year, 129 cases had been reported from 19 counties. Of the 108 case-patients, 63 (58%) had neuroinvasive illness. The median age of the individuals is 55 years (range: 5-91 years); 65 (60%) are male. Dates of symptom onset ranged from May 15 to August 22. In addition, 21 asymptomatic WNV-positive blood donors have been reported this year from the following counties: Butte (5), Glenn (1), Los Angeles (3), Napa (1), Orange (1), Placer (1), Riverside (1), Sacramento (1), San Bernardino (3), Tehama (2) and Tulare (1), and Yolo (1).

Dead Birds

A total of 103 WNV positive dead birds were reported this week from the following 20 counties: Alameda (1), Butte (4), Contra Costa (3), Fresno (2), Merced (1), Napa (2), Orange (2), Placer (5), Riverside (5), Sacramento (13), San Bernardino (9), San Diego (22), San Joaquin (1), San Mateo (2), Santa Clara (23), Shasta (3), Solano (1), Sonoma (1), Ventura (2), and Yolo (1). In 2015, 685 birds have tested positive for WNV from 36 counties. At this time last year, 1,733 WNV positive birds had been detected in 34 counties.

Mosquito Pools

A total of 230 WNV positive mosquito pools were reported this week from the following 21 counties: Butte (1), Fresno (11), Kern (9), Kings (7), Lake (4), Los Angeles (22), Madera (2), Merced (1), Orange (31), Riverside (5), Sacramento (11), San Bernardino (46), San Joaquin (27), San Mateo (1), Santa Clara (6), Shasta (3), Sonoma (1), Stanislaus (11), Sutter (1), Tulare (19), and Yolo (11). In 2015, 2,303 mosquito pools have tested positive for WNV from 29 counties, and 21 mosquito pools have tested positive for SLEV from one county (Riverside). At this time last year, 2,485 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 19 WNV seroconversions were reported this week from 9 flocks located in 7 counties: Butte (2), Glenn (2), Shasta (2), Stanislaus (3), Sutter (5), Tehama (4), and Ventura (1). In 2015, 193 WNV seroconversions have been detected among 49 flocks located in 20 counties. At this time last year, 242 WNV positive chickens had been reported from 64 flocks in 20 counties.

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		13	3	
Butte	38	37	88	37
Colusa	1	3		10
Contra Costa		7	2	6
El Dorado		2		
Fresno		3	75	
Glenn	17	4	21	8
Humboldt		2		
Kern	3	1	122	
Kings		3	112	
Lake	1	5	28	2
Los Angeles	3	12	118	6
Madera		1	15	
Marin		3		
Mendocino	1			
Merced		2	8	8
Napa		7		
Nevada	2	9		
Orange	4	27	204	
Placer		13	45	8
Riverside	9	44	125	3
Sacramento		75	119	1
San Bernardino	4	13	186	12
San Diego	1	129	8	
San Joaquin	1	12	178	
San Mateo		10	5	
Santa Barbara			1	
Santa Clara	2	106	11	3
Shasta		13	47	15
Siskiyou	1			
Solano	1	8	4	6
Sonoma		5	9	
Stanislaus	3	13	49	9
Sutter	2	16	52	31
Tehama	3			11
Trinity		2		
Tulare	4	22	482	
Ventura		8		4
Yolo	3	49	163	2
Yuba	4	6	23	11
Totals	108	685	2,303	193

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	10,718	7,981
# Positive Counties	36	40
# Human Cases	129	108
# Positive Dead Birds / # Tested	1,733 / 2,919	685 / 2,144
# Positive Mosquito Pools / # Tested	2,485 / 20,852	2,303 / 25,317
# Seroconversions / # Tested	242 / 10,600	193 / 8,686

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	25	0	0
	YTD	108	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	148	103
	YTD	2,144	685

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	226	19	0	0
	YTD	8,686	193	0	0
Mosquito Pools	Week	1,633	230	0	0
	YTD	25,317	2,303	21	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94539	American Crow	8/31/2015	WNV
Butte	Butte Co MVCD	Chico	95928	American Crow	8/30/2015	WNV
Butte	Butte Co MVCD	Gridley	95948	American Crow	9/1/2015	WNV
Butte	Butte Co MVCD	Gridley	95948	Northern Mockingbird	8/25/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Western Scrub-Jay	8/26/2015	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/3/2015	WNV
Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	9/1/2015	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94595	American Crow	8/31/2015	WNV
Fresno	Consolidated MAD	Fresno	93710	American Crow	8/24/2015	WNV
Fresno	Consolidated MAD	Fresno	93720	Unknown	8/30/2015	WNV
Merced	Merced Co MAD	Gustine	95322	Western Scrub-Jay	9/2/2015	WNV
Napa	Napa Co MAD	Napa	94558	American Crow	8/24/2015	WNV

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Napa	Napa Co MAD	Napa	94558	Western Scrub-Jay	8/24/2015	WNV
Orange	Orange Co VCD	Fullerton	92831	House Finch	8/26/2015	WNV
Orange	Orange Co VCD	Tustin	92780	House Finch	8/22/2015	WNV
Placer	Placer MVCD	Granite Bay	95746	American Crow	8/28/2015	WNV
Placer	Placer MVCD	Granite Bay	95746	American Crow	9/1/2015	WNV
Placer	Placer MVCD	Granite Bay	95746	House Finch	8/31/2015	WNV
Placer	Placer MVCD	Roseville	95661	American Crow	9/2/2015	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/31/2015	WNV
Riverside	Northwest Mosquito VCD	Calimesa	92320	American Crow	8/22/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/22/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/21/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/24/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92504	Sparrow	8/20/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	9/2/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/31/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	9/2/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	9/1/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/1/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	9/3/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	9/1/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	8/30/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	8/28/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Northern Mockingbird	9/1/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	8/28/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/30/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/31/2015	WNV
San Bernardino	San Bernardino VCP	Colton	92324	American Crow	9/2/2015	WNV
San Bernardino	San Bernardino VCP	Bloomington	92316	Western Scrub-Jay	8/27/2015	WNV
San Bernardino	San Bernardino VCP	Colton	92324	American Crow	8/20/2015	WNV
San Bernardino	San Bernardino VCP	Colton	92324	American Crow	8/21/2015	WNV
San Bernardino	San Bernardino VCP	Redlands	92373	American Crow	8/20/2015	WNV
San Bernardino	San Bernardino VCP	Upland	91786	American Crow	8/21/2015	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/20/2015	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/21/2015	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/26/2015	WNV
San Diego	San Diego Co VCP	Alpine	91901	American Crow	9/2/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	9/2/2015	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	9/1/2015	WNV
San Diego	San Diego Co VCP	Encinitas	92024	Western Scrub-Jay	8/31/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/3/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/4/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/4/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/4/2015	WNV
San Diego	San Diego Co VCP	San Diego	92103	American Crow	9/4/2015	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	9/1/2015	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	9/2/2015	WNV
San Diego	San Diego Co VCP	San Diego	92110	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	San Diego	92110	American Crow	9/3/2015	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	9/3/2015	WNV
San Diego	San Diego Co VCP	San Diego	92115	American Crow	8/31/2015	WNV
San Diego	San Diego Co VCP	San Diego	92122	American Crow	9/3/2015	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	9/3/2015	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95212	Western Scrub-Jay	8/31/2015	WNV
San Mateo	San Mateo Co MAD	Redwood City	94063	American Crow	9/1/2015	WNV

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San Mateo	San Mateo Co MAD	San Carlos	94070	American Crow	8/25/2015	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/24/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/27/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/24/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos Hills	94022	American Crow	8/24/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	8/25/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	8/27/2015	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/24/2015	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Western Scrub-Jay	8/24/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/27/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Western Scrub-Jay	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/23/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	8/25/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95132	Western Scrub-Jay	8/27/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95133	American Crow	8/25/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95133	American Crow	8/25/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95135	American Crow	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	8/28/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	8/23/2015	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94089	American Crow	8/24/2015	WNV
Shasta	Shasta MVCD	Palo Cedro	96073	Yellow-billed Magpie	8/24/2015	WNV
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	9/2/2015	WNV
Shasta	Shasta MVCD	Shasta	96087	Western Scrub-Jay	9/2/2015	WNV
Solano	Solano Co MAD	Vacaville	95687	Western Scrub-Jay	9/1/2015	WNV
Sonoma	Marin-Sonoma MVCD	Petaluma	94952	Western Scrub-Jay	9/1/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	Western Scrub-Jay	8/26/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	Western Scrub-Jay	8/26/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/3/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO119	307	Cx. tarsalis		50	CO2	8/26/2015	WNV
Fresno	CNSL1068	120	Cx. quinquefasciatus	Fresno	36	GRVD	9/1/2015	WNV
Fresno	CNSL1146	440	Cx. tarsalis	Fresno	38	CO2	9/2/2015	WNV
Fresno	CNSL1268	438	Cx. quinquefasciatus	Clovis	47	GRVD	9/2/2015	WNV
Fresno	CNSL1301	439	Cx. quinquefasciatus	Fresno	50	GRVD	9/2/2015	WNV
Fresno	CNSL3030	437	Cx. tarsalis	Orange Cove	50	CO2	9/2/2015	WNV
Fresno	CNSL3339	430	Cx. quinquefasciatus	Parlier	29	GRVD	8/28/2015	WNV
Fresno	FRNO8003	111	Cx. tarsalis		50	CO2	8/27/2015	WNV
Fresno	FRNO8005	112	Cx. quinquefasciatus		50	GRVD	8/28/2015	WNV
Fresno	FRWS400027	179	Cx. quinquefasciatus		50	CO2	8/28/2015	WNV
Fresno	FRWS400027	180	Cx. tarsalis		40	CO2	8/28/2015	WNV
Fresno	FRWS4102	188	Cx. quinquefasciatus	Kerman	50	CO2	9/1/2015	WNV
Kern	KERN1102	482	Cx. quinquefasciatus	Wasco	44	CO2	8/27/2015	WNV
Kern	KERN1136	467	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/25/2015	WNV
Kern	KERN2012	466	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/25/2015	WNV
Kern	KERN2039	477	Cx. quinquefasciatus	Bakersfield	18	GRVD	8/27/2015	WNV
Kern	KERN28	479	Cx. quinquefasciatus	Bakersfield	40	CO2	8/27/2015	WNV
Kern	KERN3009	474	Cx. quinquefasciatus	Bakersfield	46	GRVD	8/26/2015	WNV
Kern	KERN3032	473	Cx. quinquefasciatus	Bakersfield	36	GRVD	8/25/2015	WNV
Kern	KERN3035	484	Cx. quinquefasciatus	Bakersfield	21	GRVD	8/28/2015	WNV

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Kern	KERN3041	486	Cx. quinquefasciatus	Bakersfield	36	CO2	8/28/2015	WNV
Kings	KNGS3044	440	Cx. tarsalis	Lemoore	50	CO2	8/28/2015	WNV
Kings	KNGS3044	441	Cx. pipiens	Lemoore	50	CO2	8/28/2015	WNV
Kings	KNGS3108	447	Cx. tarsalis	Island	14	CO2	8/28/2015	WNV
Kings	KNGS5503	420	Cx. pipiens	Hanford	12	BGSENT	8/25/2015	WNV
Kings	KNGS5510	418	Cx. pipiens	Hanford	50	BGSENT	8/25/2015	WNV
Kings	KNGS5510	419	Cx. pipiens	Hanford	23	BGSENT	8/25/2015	WNV
Kings	KNGS8033	433	Cx. tarsalis	Hanford	17	CO2	8/28/2015	WNV
Lake	LAKE131	496	Cx. tarsalis	Lower Lake	24	CO2	9/1/2015	WNV
Lake	LAKE302	525	Cx. tarsalis	Clearlake Oaks	27	CO2	9/2/2015	WNV
Lake	LAKE302	526	Cx. tarsalis	Clearlake Oaks	11	REST	9/2/2015	WNV
Lake	LAKE315	514	Cx. stigmatosoma	Kelseyville	20	REST	8/28/2015	WNV
Los Angeles	GRLA2097	612	Cx. quinquefasciatus	La Mirada	48	GRVD	8/26/2015	WNV
Los Angeles	GRLA2166	607	Cx. quinquefasciatus	Montebello	44	GRVD	8/26/2015	WNV
Los Angeles	GRLA2247	609	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/26/2015	WNV
Los Angeles	GRLA2323	621	Cx. quinquefasciatus	Los Angeles	23	GRVD	8/27/2015	WNV
Los Angeles	GRLA2550	5732	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/28/2015	WNV
Los Angeles	GRLA2953	614	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/26/2015	WNV
Los Angeles	GRLA2955	615	Cx. quinquefasciatus	Cerritos	48	GRVD	8/26/2015	WNV
Los Angeles	GRLA3040	613	Cx. quinquefasciatus	La Mirada	41	GRVD	8/26/2015	WNV
Los Angeles	GRLA3041	616	Cx. quinquefasciatus	Artesia	28	GRVD	8/26/2015	WNV
Los Angeles	GRLA3048	608	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/26/2015	WNV
Los Angeles	GRLA3065	605	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/25/2015	WNV
Los Angeles	GRLA3066	5724	Cx. quinquefasciatus	North Hollywood	48	GRVD	8/25/2015	WNV
Los Angeles	GRLA3069	5722	Cx. quinquefasciatus	Valley Village	37	GRVD	8/25/2015	WNV
Los Angeles	GRLA3070	620	Cx. quinquefasciatus	Commerce	50	GRVD	8/27/2015	WNV
Los Angeles	GRLA3075	625	Cx. quinquefasciatus	El Sereno	22	GRVD	8/27/2015	WNV
Los Angeles	GRLA3076	5717	Cx. quinquefasciatus	Valley Glen	26	GRVD	8/25/2015	WNV
Los Angeles	GRLA3079	5721	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/25/2015	WNV
Los Angeles	GRLA3080	5723	Cx. quinquefasciatus	North Hollywood	37	GRVD	8/25/2015	WNV
Los Angeles	GRLA3102	5720	Cx. quinquefasciatus	Studio City	27	CO2	8/25/2015	WNV
Los Angeles	GRLA3133	5727	Cx. quinquefasciatus	San Fernando	50	GRVD	8/28/2015	WNV
Los Angeles	LACW1026	163	Cx. quinquefasciatus	Beverly Hills	31	GRVD	8/25/2015	WNV
Los Angeles	SGVA875	325	Cx. quinquefasciatus	walnut	14	CO2	9/2/2015	WNV
Madera	MADR192	231	Cx. tarsalis	Madera	45	CO2	8/27/2015	WNV
Madera	MADR259	242	Cx. tarsalis	Madera	40	CO2	9/1/2015	WNV
Merced	TRLK312	1162	Cx. tarsalis	Newman	50	CO2	9/1/2015	WNV
Orange	ORCO1005	3125	Cx. quinquefasciatus	Buena Park	50	GRVD	8/26/2015	WNV
Orange	ORCO1005	3126	Cx. quinquefasciatus	Buena Park	50	GRVD	8/26/2015	WNV
Orange	ORCO1005	3127	Cx. quinquefasciatus	Buena Park	50	GRVD	8/26/2015	WNV
Orange	ORCO1005	3128	Cx. quinquefasciatus	Buena Park	50	GRVD	8/26/2015	WNV
Orange	ORCO1005	3129	Cx. quinquefasciatus	Buena Park	50	GRVD	8/26/2015	WNV
Orange	ORCO1005	3130	Cx. quinquefasciatus	Buena Park	41	GRVD	8/26/2015	WNV
Orange	ORCO1015	2978	Cx. quinquefasciatus	Orange	50	GRVD	8/21/2015	WNV
Orange	ORCO1015	2980	Cx. quinquefasciatus	Orange	34	GRVD	8/21/2015	WNV
Orange	ORCO1015	2981	Cx. quinquefasciatus	Orange	28	GRVD	8/21/2015	WNV
Orange	ORCO1015	2984	Cx. quinquefasciatus	Orange	48	GRVD	8/21/2015	WNV
Orange	ORCO1015	2997	Cx. quinquefasciatus	Orange	50	GRVD	8/25/2015	WNV
Orange	ORCO1015	3002	Cx. quinquefasciatus	Orange	50	GRVD	8/25/2015	WNV
Orange	ORCO1015	3068	Cx. quinquefasciatus	Orange	38	GRVD	8/25/2015	WNV
Orange	ORCO1021	3004	Cx. quinquefasciatus	Tustin	26	GRVD	8/25/2015	WNV
Orange	ORCO1021	3034	Cx. quinquefasciatus	Tustin	32	GRVD	8/25/2015	WNV
Orange	ORCO1021	3150	Cx. quinquefasciatus	Tustin	17	GRVD	8/27/2015	WNV

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Orange	ORCO170	3045	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO198	3018	Cx. quinquefasciatus	La Habra	50	GRVD	8/25/2015	WNV
Orange	ORCO2	3042	Cx. quinquefasciatus	Fullerton	50	GRVD	8/25/2015	WNV
Orange	ORCO2	3043	Cx. quinquefasciatus	Fullerton	50	GRVD	8/25/2015	WNV
Orange	ORCO205	3010	Cx. quinquefasciatus	Tustin	44	GRVD	8/25/2015	WNV
Orange	ORCO218	2983	Cx. quinquefasciatus	Anaheim	38	GRVD	8/21/2015	WNV
Orange	ORCO218	3024	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3025	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3026	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3028	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3046	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3047	Cx. quinquefasciatus	Anaheim	50	GRVD	8/25/2015	WNV
Orange	ORCO218	3051	Cx. quinquefasciatus	Anaheim	16	GRVD	8/25/2015	WNV
Orange	ORCO50	3057	Cx. quinquefasciatus	Buena Park	37	GRVD	8/25/2015	WNV
Orange	ORCO82	3032	Cx. quinquefasciatus	Cypress	42	GRVD	8/25/2015	WNV
Riverside	COAV10	2644	Cx. tarsalis	Thermal	50	CO2	8/25/2015	WNV
Riverside	COAV301	2660	Cx. quinquefasciatus	Indio	19	GRVD	8/27/2015	WNV
Riverside	COAV420	2730	Cx. quinquefasciatus	La Quinta	11	CO2	9/3/2015	WNV
Riverside	NWST40	141	Cs. incidens	Riverside	50	CO2	8/25/2015	WNV
Riverside	NWST66	136	Cx. quinquefasciatus	Riverside	27	CO2	8/25/2015	WNV
Sacramento	SAYO202006	4819	Cx. pipiens	Sacramento	9	GRVD	9/3/2015	WNV
Sacramento	SAYO204024	4791	Cx. pipiens	Orangevale	8	GRVD	9/1/2015	WNV
Sacramento	SAYO204033	4775	Cx. pipiens	Sacramento	11	CO2	9/1/2015	WNV
Sacramento	SAYO205003	4796	Cx. pipiens	Orangevale	10	GRVD	9/1/2015	WNV
Sacramento	SAYO214011	4781	Cx. pipiens	Fair Oaks	5	GRVD	9/1/2015	WNV
Sacramento	SAYO223006	4738	Cx. tarsalis	South Watt Avenue	11	CO2	9/1/2015	WNV
Sacramento	SAYO233015	4737	Cx. pipiens	Sacramento	13	GRVD	9/1/2015	WNV
Sacramento	SAYO233065	4727	Cx. tarsalis	Elk Grove	15	CO2	9/1/2015	WNV
Sacramento	SAYO234019	4724	Cx. pipiens	Elk Grove	1	GRVD	9/1/2015	WNV
Sacramento	SAYO243018	4680	Cx. pipiens	Elk Grove	2	GRVD	9/1/2015	WNV
Sacramento	SAYO280001	4877	Cx. tarsalis	Rio Vista	50	CO2	9/3/2015	WNV
San Bernardino	SANB61	395	Cx. quinquefasciatus	Loma Linda	5	CO2	9/1/2015	WNV
San Bernardino	WVAL1008	1262	Cx. quinquefasciatus	Ontario	25	CO2	8/26/2015	WNV
San Bernardino	WVAL1009	1280	Cx. quinquefasciatus	Ontario	25	GRVD	8/28/2015	WNV
San Bernardino	WVAL2006	1312	Cx. tarsalis	Chino	9	CO2	9/2/2015	WNV
San Bernardino	WVAL2018	1245	Cx. quinquefasciatus	Chino	26	GRVD	8/26/2015	WNV
San Bernardino	WVAL2019	1208	Cx. quinquefasciatus	Chino	14	GRVD	8/26/2015	WNV
San Bernardino	WVAL2021	1239	Cx. quinquefasciatus	Fwy CA 71	26	GRVD	8/26/2015	WNV
San Bernardino	WVAL5004	1265	Cx. quinquefasciatus	Rancho Cucamonga	18	GRVD	8/25/2015	WNV
San Bernardino	WVAL5004	1266	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	8/25/2015	WNV
San Bernardino	WVAL5004	1267	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	8/25/2015	WNV
San Bernardino	WVAL5004	1287	Cx. quinquefasciatus	Rancho Cucamonga	18	GRVD	9/1/2015	WNV
San Bernardino	WVAL5005	1264	Cx. quinquefasciatus	Rancho Cucamonga	9	GRVD	8/25/2015	WNV
San Bernardino	WVAL5006	1270	Cx. quinquefasciatus	Rancho Cucamonga	18	GRVD	8/25/2015	WNV
San Bernardino	WVAL5006	1291	Cx. quinquefasciatus	Rancho Cucamonga	9	GRVD	9/1/2015	WNV
San Bernardino	WVAL5007	1271	Cx. quinquefasciatus	Rancho Cucamonga	13	GRVD	8/25/2015	WNV

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San Bernardino	WVAL6001	1289	Cx. quinquefasciatus	Ontario	20	GRVD	9/1/2015	WNV
San Bernardino	WVAL6002	1273	Cx. quinquefasciatus	Ontario	25	CO2	8/25/2015	WNV
San Bernardino	WVAL6002	1274	Cx. quinquefasciatus	Ontario	25	CO2	8/25/2015	WNV
San Bernardino	WVAL6002	1277	Cx. stigmatosoma	Ontario	25	CO2	8/25/2015	WNV
San Bernardino	WVAL6002	1278	Cx. stigmatosoma	Ontario	25	CO2	8/25/2015	WNV
San Bernardino	WVAL6003	1223	Cx. quinquefasciatus	Ontario	14	GRVD	8/26/2015	WNV
San Bernardino	WVAL6004	1220	Cx. quinquefasciatus	Ontario	26	GRVD	8/26/2015	WNV
San Bernardino	WVAL6004	1237	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6004	1309	Cx. quinquefasciatus	Ontario	22	GRVD	9/1/2015	WNV
San Bernardino	WVAL6005	1217	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6005	1218	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6005	1306	Cx. quinquefasciatus	Ontario	16	GRVD	9/1/2015	WNV
San Bernardino	WVAL6009	1241	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6009	1242	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6009	1244	Cx. quinquefasciatus	Ontario	29	GRVD	8/26/2015	WNV
San Bernardino	WVAL6009	1304	Cx. quinquefasciatus	Ontario	25	GRVD	9/1/2015	WNV
San Bernardino	WVAL6009	1305	Cx. quinquefasciatus	Ontario	16	GRVD	9/1/2015	WNV
San Bernardino	WVAL6011	1226	Cx. quinquefasciatus	Ontario	14	GRVD	8/26/2015	WNV
San Bernardino	WVAL6012	1210	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6012	1211	Cx. quinquefasciatus	Ontario	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL6012	1212	Cx. quinquefasciatus	Ontario	18	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1228	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1229	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1230	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1231	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1232	Cx. quinquefasciatus	Montclair	13	GRVD	8/26/2015	WNV
San Bernardino	WVAL7001	1308	Cx. quinquefasciatus	Montclair	15	GRVD	9/1/2015	WNV
San Bernardino	WVAL7002	1214	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7002	1215	Cx. quinquefasciatus	Montclair	25	GRVD	8/26/2015	WNV
San Bernardino	WVAL7002	1216	Cx. quinquefasciatus	Montclair	16	GRVD	8/26/2015	WNV
San Bernardino	WVAL7002	1307	Cx. quinquefasciatus	Montclair	15	GRVD	9/1/2015	WNV
San Joaquin	SJCM7025	2119	Cx. pipiens	Tracy	1	GRVD	9/1/2015	WNV
San Joaquin	SJCM8008	2064	Cx. tarsalis	Manteca	40	CO2	9/1/2015	WNV
San Joaquin	SJCM8008	2065	Cx. pipiens	Manteca	17	CO2	9/1/2015	WNV
San Joaquin	SJCM8020	2042	Cx. pipiens	Acampo	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8032	2046	Cx. tarsalis	Escalon	8	CO2	9/1/2015	WNV
San Joaquin	SJCM8032	2047	Cx. pipiens	Escalon	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8032	2048	Cx. pipiens	Escalon	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8032	2049	Cx. pipiens	Escalon	27	CO2	9/1/2015	WNV
San Joaquin	SJCM8045	2130	Cx. tarsalis	Thornton	5	CO2	9/3/2015	WNV
San Joaquin	SJCM8056	2050	Cx. tarsalis	Manteca	39	CO2	9/1/2015	WNV
San Joaquin	SJCM8056	2051	Cx. pipiens	Manteca	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8075	2126	Cx. pipiens	Lodi	2	CO2	9/3/2015	WNV
San Joaquin	SJCM8079	2054	Cx. pipiens	Manteca	49	CO2	9/1/2015	WNV
San Joaquin	SJCM8082	2040	Cx. pipiens	Stockton	2	CO2	9/1/2015	WNV
San Joaquin	SJCM8106	2070	Cx. pipiens	Escalon	32	CO2	9/1/2015	WNV
San Joaquin	SJCM8125	2073	Cx. pipiens	Stockton	4	CO2	9/1/2015	WNV
San Joaquin	SJCM8138	2134	Cx. pipiens	Lockeford	4	CO2	9/3/2015	WNV
San Joaquin	SJCM8143	2031	Cx. tarsalis	Stockton	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8143	2032	Cx. tarsalis	Stockton	22	CO2	9/1/2015	WNV
San Joaquin	SJCM8143	2033	Cx. pipiens	Stockton	16	CO2	9/1/2015	WNV
San Joaquin	SJCM8143	2034	Cx. erythrothorax	Stockton	9	CO2	9/1/2015	WNV

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San Joaquin	SJCM8159	2014	Cx. pipiens	Stockton	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8161	2074	Cx. tarsalis	Ripon	12	CO2	9/1/2015	WNV
San Joaquin	SJCM8161	2075	Cx. pipiens	Ripon	50	CO2	9/1/2015	WNV
San Joaquin	SJCM8161	2076	Cx. pipiens	Ripon	40	CO2	9/1/2015	WNV
San Joaquin	SJCM8191	2037	Cx. tarsalis	Lodi	37	CO2	9/1/2015	WNV
San Joaquin	SJCM8191	2038	Cx. pipiens	Lodi	20	CO2	9/1/2015	WNV
San Mateo	SANM650	132	Cx. pipiens	Menlo Park	1	CO2	8/28/2015	WNV
Santa Clara	STCL1250	6046	Cx. tarsalis	Los Altos Hills	9	CO2	8/20/2015	WNV
Santa Clara	STCL2634	6053	Cx. pipiens	Mountain View	12	CO2	8/21/2015	WNV
Santa Clara	STCL2990	6079	Cx. pipiens	San Jose	2	CO2	8/27/2015	WNV
Santa Clara	STCL2990	6080	Cx. tarsalis	San Jose	12	CO2	8/27/2015	WNV
Santa Clara	STCL3410	6082	Cx. tarsalis	San Jose	10	CO2	8/27/2015	WNV
Santa Clara	STCL4256	6033	Cx. pipiens	San Jose	2	CO2	8/18/2015	WNV
Shasta	SHAS110	490	Cx. pipiens	Redding	50	CO2	9/1/2015	WNV
Shasta	SHAS130	498	Cx. tarsalis	Redding	46	CO2	9/1/2015	WNV
Shasta	SHAS271	476	Cx. pipiens	Anderson	41	CO2	8/28/2015	WNV
Sonoma	MARN23	516	Cx. stigmatosoma	Santa Rosa	50	GRVD	8/28/2015	WNV
Stanislaus	EAST1025	15203	Cx. pipiens	Modesto	50	CO2	9/3/2015	WNV
Stanislaus	EAST1060	15191	Cx. pipiens	Salida	9	CO2	9/1/2015	WNV
Stanislaus	TRLK1106	1093	Cx. pipiens		50	CO2	8/26/2015	WNV
Stanislaus	TRLK1106	1095	Cx. pipiens		50	CO2	8/26/2015	WNV
Stanislaus	TRLK1106	1097	Cx. pipiens		50	CO2	8/26/2015	WNV
Stanislaus	TRLK1315	1116	Cx. tarsalis	Patterson	50	CO2	8/27/2015	WNV
Stanislaus	TRLK1315	1117	Cx. tarsalis	Patterson	50	CO2	8/27/2015	WNV
Stanislaus	TRLK307	1140	Cx. tarsalis	Grayson	50	CO2	9/1/2015	WNV
Stanislaus	TRLK549	1156	Cx. pipiens	Newman	28	CO2	9/1/2015	WNV
Stanislaus	TRLK803	1100	Cx. pipiens	Turlock	50	CO2	8/26/2015	WNV
Stanislaus	TRLK803	1101	Cx. pipiens	Turlock	50	CO2	8/26/2015	WNV
Sutter	SUYA31	363	Cx. tarsalis	Rio Oso	41	REST	8/31/2015	WNV
Tulare	DLNO74	92	Cx. quinquefasciatus	Earlimart	28	GRVD	9/1/2015	WNV
Tulare	DLTA6417	1371	Cx. quinquefasciatus	Dinuba	49	GRVD	9/1/2015	WNV
Tulare	DLTA8419	1369	Cx. quinquefasciatus	Goshen	14	GRVD	9/1/2015	WNV
Tulare	DLTA8435	1348	Cx. quinquefasciatus	Visalia	23	GRVD	8/27/2015	WNV
Tulare	DLTA8435	1349	Cx. quinquefasciatus	Visalia	15	GRVD	8/27/2015	WNV
Tulare	DLTA8436	1337	Cx. quinquefasciatus	Visalia	17	GRVD	8/27/2015	WNV
Tulare	DLTA8512	1380	Cx. quinquefasciatus	Ivanhoe	25	GRVD	9/2/2015	WNV
Tulare	DLTA8512	1381	Cx. quinquefasciatus	Ivanhoe	11	GRVD	9/2/2015	WNV
Tulare	DLTA8532	1338	Cx. quinquefasciatus	Visalia	18	GRVD	8/27/2015	WNV
Tulare	DLTA9401	1358	Cx. quinquefasciatus	Visalia	15	GRVD	8/28/2015	WNV
Tulare	DLTA9402	1362	Cx. quinquefasciatus	Visalia	37	GRVD	8/28/2015	WNV
Tulare	DLTA9402	1363	Cx. quinquefasciatus	Visalia	21	GRVD	8/28/2015	WNV
Tulare	DLTA9402	1364	Cx. quinquefasciatus	Visalia	37	GRVD	8/28/2015	WNV
Tulare	DLTA9402	1365	Cx. quinquefasciatus	Visalia	32	GRVD	8/28/2015	WNV
Tulare	DLTA9402	1366	Cx. quinquefasciatus	Visalia	31	GRVD	8/28/2015	WNV
Tulare	DLTA9403	1353	Cx. quinquefasciatus	Visalia	23	GRVD	8/28/2015	WNV
Tulare	DLTA9411	1356	Cx. quinquefasciatus	Visalia	43	GRVD	8/28/2015	WNV
Tulare	DLTA9412	1357	Cx. quinquefasciatus	Visalia	20	GRVD	8/28/2015	WNV
Tulare	TLRE66	76	Cx. quinquefasciatus	Woodville	45	CO2	9/1/2015	WNV
Yolo	SAYO103010	4892	Cx. tarsalis	Dunnigan	34	CO2	9/3/2015	WNV
Yolo	SAYO114001	4904	Cx. tarsalis	Zamora	50	CO2	9/3/2015	WNV
Yolo	SAYO115008	4923	Cx. tarsalis	Zamora	50	CO2	9/3/2015	WNV
Yolo	SAYO115008	4924	Cx. tarsalis	Zamora	50	CO2	9/3/2015	WNV

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Yolo	SAYO115008	4925	Cx. tarsalis	Zamora	50	CO2	9/3/2015	WNV
Yolo	SAYO124007	4917	Cx. tarsalis	Woodland	3	CO2	9/3/2015	WNV
Yolo	SAYO135014	4915	Cx. tarsalis	Davis	18	CO2	9/3/2015	WNV
Yolo	SAYO136010	4909	Cx. tarsalis	Woodland	50	CO2	9/3/2015	WNV
Yolo	SAYO145009	4640	Cx. tarsalis	Davis	50	CO2	9/1/2015	WNV
Yolo	SAYO145015	4651	Cx. tarsalis	Davis	50	CO2	9/1/2015	WNV
Yolo	SAYO146002	4638	Cx. tarsalis	Davis	50	CO2	9/1/2015	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0001	Chico	8/25/2015	WNV	1702	1704		
Glenn	GLEN9701	Willows	8/26/2015	WNV	1331	1334		
Shasta	SHAS5038		8/26/2015	WNV	1562	1563		
Stanislaus	EAST1025	Modesto	8/26/2015	WNV	1185	1187	1191	
Sutter	SUYA0020	Meridian	8/27/2015	WNV	2236	2237	2241	
Sutter	SUYA0031	Rio Oso	8/27/2015	WNV	2227			
Sutter	SUYA0084	Yuba City	8/27/2015	WNV	2206			
Tehama	TEHA0001	Red Bluff	8/25/2015	WNV	2362	2364	2366	2368
Ventura	MOOR0029	Moorpark	8/19/2015	WNV	1391			

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.

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