

California Arbovirus Surveillance Bulletin #23

Week 32 Friday, August 12, 2016



Weekly Update

Humans

A total of 12 new cases of West Nile virus (WNV) illness were reported this week from the following 6 counties: Fresno (1), Kern (2), Los Angeles (4) Sacramento (1), San Joaquin (1), and Stanislaus (3). **These are the first WNV cases reported from San Joaquin and Stanislaus counties in 2016.** To date this year, 22 cases of WNV illness have been reported from 10 counties. Of the 22 case-patients, 15 (68%) had neuroinvasive illness, and one fatality has been reported. The median age of the individuals is 57 years (range: 15-84 years) and 10 (45%) are male. Dates of symptom onset range from June 17 to July 31. In addition, 6 asymptomatic WNV-positive blood donors have been reported from Los Angeles (2), Orange (2), and Yolo (2) counties. At this time last year, 36 cases of WNV illness had been reported from 10 counties.

Dead Birds

This week, a total of 76 dead birds tested positive for WNV from the following 20 counties: Butte (2), Contra Costa (4), Fresno (1), Glenn (1), Los Angeles (12), Madera (2), Marin (1), Nevada (1), Placer (1), Riverside (1), Sacramento (14), San Diego (17), San Joaquin (5), Santa Clara (4), Santa Cruz (1), Solano (1), Tulare (1) Ventura (1), Yolo (5), and Yuba (1). **This is the first detection of WNV in Nevada County this year.** In 2016, 910 dead birds have tested positive for WNV from 29 counties, whereas at this time last year, 418 WNV positive birds had been reported from 36 counties.

Mosquito Pools

West Nile virus

A total of 380 WNV positive mosquito pools were reported this week from the following 22 counties: Butte (6), Fresno (12), Kern (12), Kings (2), Lake (5), Los Angeles (31), Madera (15), Merced (1), Orange (109), Placer (18), Riverside (1), Sacramento (27), San Bernardino (5), San Diego (3), San Joaquin (43), Shasta (4), Solano (2), Stanislaus (26), Sutter (4), Tulare (14), Yolo (37), and Yuba (3). To date this year, 2,221 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 1,577 WNV positive mosquito pools had been reported from 28 counties.

St. Louis encephalitis virus

A total of 10 SLEV positive mosquito pools were reported this week from Kern (5) and Riverside (5) counties. To date this year, 80 SLEV positive mosquito pools have been reported from Kern (50) and Riverside (30) counties. At this time last year, 14 SLEV positive mosquito pools had been reported from Riverside County.

Sentinel Chickens

West Nile virus

A total of 51 WNV seroconversions were reported this week from 22 flocks in 8 counties: Butte (21), Colusa (1), Contra Costa (1), Glenn (3), Merced (9), Placer (2), Sutter (11), and Yuba (3). **These are the first WNV positive chickens reported from Placer County in 2016.** To date this year, 135 WNV seroconversions have been detected in 40 flocks located in 13 counties, whereas at this time last year, 104 WNV seroconversions had been detected in 33 flocks located in 17 counties.

St. Louis encephalitis virus

No new SLEV seroconversions were reported this week. In 2016, 2 SLEV seroconversions have been detected in one flock located in San Bernardino County.

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YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		7	2	
Butte		13	35	25
Colusa				6
Contra Costa		12	4	3
Fresno	3	4	127	
Glenn		2	11	8
Kern	4		55	
Kings		3	57	
Lake		3	18	
Los Angeles	5	64	182	19
Madera		5	46	
Marin		3		
Merced		4	6	23
Napa			2	
Nevada		1		
Orange	1	19	169	
Placer		15	86	2
Riverside		7	28	
Sacramento	2	358	367	
San Bernardino			54	2
San Diego	1	208	65	9
San Joaquin	1	26	228	
San Mateo		10	4	
Santa Clara		55	10	
Santa Cruz		2	3	
Shasta		1	5	
Solano		2	5	1
Sonoma			1	
Stanislaus	3	6	183	
Sutter		6	63	25
Tehama	1			2
Tulare		2	210	
Ventura		17		
Yolo		53	180	
Yuba	1	2	15	10
Totals	22	910	2,221	135

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	6,891	6,706
# Positive Counties	38	35
# Human Cases	36	22
# Positive Dead Birds / # Tested	418 / 1,739	910 / 1,976
# Positive Mosquito Pools / # Tested	1,577 / 20,214	2,221 / 28,527
# Seroconversions / # Tested	104 / 7,643	135 / 6,411

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	12	0	0
	YTD	22	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	126	76
	YTD	1,976	910

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	555	51	0	0
	YTD	6,411	135	2	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	380 / 1,965	10 / 1,160	0 / 1,160	0 / 10	0 / 10	0 / 10
		YTD	2,221 / 28,527	80 / 17,627	0 / 17,627	0 / 183	0 / 183	0 / 183

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NEW POSITIVES

Dead Birds

County	Agency	City	ZIP Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95926	Common Raven	8/3/2016	WNV
Butte	Oroville MAD	Oroville	95965	American Crow	8/2/2016	WNV
Contra Costa	Contra Costa MVCD	Antioch	94531	Western Scrub-Jay	8/9/2016	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/8/2016	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	8/9/2016	WNV
Contra Costa	Contra Costa MVCD	Orinda	94563	American Crow	8/7/2016	WNV
Fresno	Fresno MVCD	Fresno	93727	American Crow	8/3/2016	WNV
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	7/27/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Van Nuys	91401	American Crow	8/5/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	American Crow	8/8/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	American Crow	8/8/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	El Segundo	90245	Unknown	8/9/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90046	American Crow	8/9/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Palmdale	93551	American Crow	8/7/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91321	American Crow	8/4/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91351	Common Raven	8/3/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91354	American Crow	8/3/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Valencia	91355	American Crow	8/3/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Valencia	91355	American Crow	8/3/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Van Nuys	91405	American Crow	8/9/2016	WNV
Madera	Madera Co MVCD	Madera	93637	American Crow	8/5/2016	WNV
Madera	Madera Co MVCD	Madera	93637	American Crow	8/5/2016	WNV
Marin	Marin-Sonoma MVCD	Novato	94945	American Crow	8/9/2016	WNV
Nevada	Nevada Co Env Health - Nevada City	Penn Valley	95946	American Crow	7/26/2016	WNV
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	8/9/2016	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Western Scrub-Jay	8/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	8/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	8/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	American Crow	8/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95816	Yellow-billed Magpie	8/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	8/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	8/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	8/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	American Crow	8/8/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	Western Scrub-Jay	8/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	8/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Robin	8/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Northern Mockingbird	8/4/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	8/7/2016	WNV
San Diego	San Diego Co VCP	Boulevard	91905	Sharp-shinned Hawk	8/8/2016	WNV
San Diego	San Diego Co VCP	Escondido	92025	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	Escondido	92029	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	La Jolla	92037	American Crow	8/11/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92056	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92059	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	8/10/2016	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	San Diego	92122	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	San Diego	92124	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	San Diego	92127	American Crow	8/8/2016	WNV
San Diego	San Diego Co VCP	San Diego	92127	American Crow	8/8/2016	WNV
San Joaquin	San Joaquin Co MVCD	Acampo	95220	Unknown	8/8/2016	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Sparrow	8/7/2016	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Western Scrub-Jay	8/9/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95209	Western Scrub-Jay	8/4/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95212	House Finch	8/9/2016	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/8/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	8/5/2016	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	8/9/2016	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	8/8/2016	WNV
Santa Cruz	Santa Cruz MVCD	Soquel	95073	Black-headed Grosbeak	7/29/2016	WNV
Solano	Solano Co MAD	Vallejo	94590	American Crow	8/4/2016	WNV
Tulare	Delta VCD	Visalia	93277	American Crow	8/8/2016	WNV
Ventura	Ventura Co Env Health Dept.	Simi Valley	93063	American Crow	8/2/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/6/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/9/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/9/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/4/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/9/2016	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	8/4/2016	WNV

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Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO0	235	Cx. tarsalis		50	CO2	8/3/2016	WNV
Butte	BUCO34	239	Cx. tarsalis	Richvale	50	CO2	8/3/2016	WNV
Butte	BUCO7	240	Cx. tarsalis	Chico	50	CO2	8/8/2016	WNV
Butte	BUCO75	243	Cx. tarsalis	Chico	50	CO2	8/8/2016	WNV
Butte	BUCO75	244	Cx. tarsalis	Chico	50	CO2	8/8/2016	WNV
Butte	BUCO75	245	Cx. tarsalis	Chico	50	CO2	8/8/2016	WNV
Fresno	CNSL1450	331	Cx. quinquefasciatus	Clovis	13	GRVD	8/5/2016	WNV
Fresno	CNSL3344	328	Cx. quinquefasciatus	Reedley	37	GRVD	8/4/2016	WNV
Fresno	CNSL4048	344	Cx. quinquefasciatus	Selma	45	GRVD	8/10/2016	WNV
Fresno	CNSL5059	342	Cx. quinquefasciatus	Kingsburg	23	GRVD	8/10/2016	WNV
Fresno	CNSL6189	335	Cx. quinquefasciatus	Laton	13	GRVD	8/9/2016	WNV
Fresno	FRWS2105	179	Cx. tarsalis	Dos Palos	50	CO2	8/9/2016	WNV
Fresno	FRWS2105	180	Cx. tarsalis	Dos Palos	50	CO2	8/9/2016	WNV
Fresno	FRWS2105	181	Cx. tarsalis	Dos Palos	50	OTHER	8/9/2016	WNV
Fresno	FRWS400001	170	Cx. quinquefasciatus	Mendota	47	CO2	8/4/2016	WNV
Fresno	FRWS400001	171	Cx. tarsalis	Mendota	27	CO2	8/4/2016	WNV
Fresno	FRWS410005	168	Cx. quinquefasciatus		50	GRVD	8/4/2016	WNV
Fresno	FRWS5302	190	Cx. quinquefasciatus	Helm	25	OTHER	8/9/2016	WNV
Kern	DLNO20	134	Cx. quinquefasciatus	Delano	50	GRVD	8/9/2016	WNV
Kern	DLNO38	141	Cx. quinquefasciatus	Delano	23	GRVD	8/9/2016	WNV
Kern	DLNO43	138	Cx. quinquefasciatus	McFarland	50	GRVD	8/9/2016	WNV
Kern	DLNO6	139	Cx. quinquefasciatus	Delano	22	GRVD	8/9/2016	WNV
Kern	DLNO62	130	Cx. tarsalis	McFarland	27	CO2	8/4/2016	WNV
Kern	DLNO79	135	Cx. quinquefasciatus	McFarland	22	GRVD	8/9/2016	WNV
Kern	DLNO88	137	Cx. quinquefasciatus	McFarland	50	GRVD	8/9/2016	WNV
Kern	KERN11	392	Cx. quinquefasciatus	Bakersfield	14	GRVD	8/5/2016	SLEV
Kern	KERN1104	381	Cx. tarsalis	Wasco	27	CO2	8/2/2016	WNV
Kern	KERN1105	382	Cx. tarsalis	Lost Hills	50	CO2	8/2/2016	WNV
Kern	KERN1144	386	Cx. tarsalis	Bakersfield	24	CO2	8/3/2016	SLEV
Kern	KERN156	383	Cx. tarsalis	Butttonwillow	44	CO2	8/2/2016	WNV
Kern	KERN2025	391	Cx. quinquefasciatus	Bakersfield	12	GRVD	8/5/2016	SLEV
Kern	KERN2041	380	Cx. quinquefasciatus	Arvin	50	GRVD	8/2/2016	SLEV
Kern	KERN2041	380	Cx. quinquefasciatus	Arvin	50	GRVD	8/2/2016	WNV
Kern	KERN30	388	Cx. quinquefasciatus	Wasco	50	CO2	8/4/2016	WNV
Kern	KERN30	389	Cx. tarsalis	Wasco	35	CO2	8/4/2016	SLEV
Kings	KNGS4003	291	Cx. pipiens	Hanford	25	BGSENT	8/5/2016	WNV
Kings	KNGS4406	285	Cx. pipiens	Lemoore	16	BGSENT	8/2/2016	WNV
Lake	LAKE1000	432	Cx. tarsalis	Upper Lake	17	REST	8/4/2016	WNV
Lake	LAKE202	449	Cx. tarsalis	Cobb	50	CO2	8/9/2016	WNV
Lake	LAKE302	462	Cx. tarsalis	Clearlake Oaks	50	CO2	8/10/2016	WNV
Lake	LAKE325	443	Cx. tarsalis	Upper Lake	36	CO2	8/9/2016	WNV
Lake	LAKE94	445	Cx. tarsalis	Upper Lake	50	CO2	8/9/2016	WNV
Los Angeles	GRLA2097	601	Cx. quinquefasciatus	La Mirada	50	GRVD	8/2/2016	WNV
Los Angeles	GRLA2101	599	Cx. quinquefasciatus	Santa Fe Springs	26	GRVD	8/2/2016	WNV
Los Angeles	GRLA2268	605	Cx. quinquefasciatus	Cerritos	50	GRVD	8/2/2016	WNV
Los Angeles	GRLA2414	5581	Cx. quinquefasciatus	Granada Hills	14	GRVD	8/4/2016	WNV
Los Angeles	GRLA2416	5563	Cx. quinquefasciatus	Panorama City	50	CO2	8/2/2016	WNV

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Los Angeles	GRLA2419	5564	Cx. quinquefasciatus	Panorama City	15	GRVD	8/2/2016	WNV
Los Angeles	GRLA2465	5576	Cx. quinquefasciatus	Los Feliz	49	GRVD	8/3/2016	WNV
Los Angeles	GRLA2476	5588	Cx. quinquefasciatus	Sunland	22	GRVD	8/5/2016	WNV
Los Angeles	GRLA2478	5592	Cx. quinquefasciatus	Sunland	26	GRVD	8/5/2016	WNV
Los Angeles	GRLA2503	5572	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/3/2016	WNV
Los Angeles	GRLA2530	5590	Cx. quinquefasciatus	Sunland	16	GRVD	8/5/2016	WNV
Los Angeles	GRLA2550	5593	Cx. quinquefasciatus	Mission Hills	46	GRVD	8/5/2016	WNV
Los Angeles	GRLA2574	5568	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	8/2/2016	WNV
Los Angeles	GRLA2615	5584	Cx. quinquefasciatus	Newhall	17	GRVD	8/4/2016	WNV
Los Angeles	GRLA2637	5567	Cx. quinquefasciatus	Van Nuys	44	CO2	8/2/2016	WNV
Los Angeles	GRLA2650	5570	Cx. quinquefasciatus	Encino	50	CO2	8/2/2016	WNV
Los Angeles	GRLA2651	5569	Cx. quinquefasciatus	Encino	38	GRVD	8/2/2016	WNV
Los Angeles	GRLA2889	622	Cx. quinquefasciatus	Lakewood	50	GRVD	8/4/2016	WNV
Los Angeles	GRLA2890	623	Cx. quinquefasciatus	Lakewood	50	GRVD	8/4/2016	WNV
Los Angeles	GRLA2937	5580	Cx. quinquefasciatus	Burbank	50	GRVD	8/3/2016	WNV
Los Angeles	GRLA2950	5589	Cx. quinquefasciatus	Sunland	17	GRVD	8/5/2016	WNV
Los Angeles	GRLA2953	603	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/2/2016	WNV
Los Angeles	GRLA2957	619	Cx. quinquefasciatus	Hawaiian Gardens	21	GRVD	8/4/2016	WNV
Los Angeles	GRLA3000	5591	Cx. quinquefasciatus	Sun Valley	32	GRVD	8/5/2016	WNV
Los Angeles	GRLA3009	5583	Cx. quinquefasciatus	Santa Clarita	16	GRVD	8/4/2016	WNV
Los Angeles	GRLA3035	5565	Cx. quinquefasciatus	North Hills	41	GRVD	8/2/2016	WNV
Los Angeles	GRLA3041	604	Cx. quinquefasciatus	Artesia	50	GRVD	8/2/2016	WNV
Los Angeles	GRLA3051	621	Cx. quinquefasciatus	Signal Hill	39	GRVD	8/4/2016	WNV
Los Angeles	GRLA3071	611	Cx. quinquefasciatus	East Los Angeles	50	GRVD	8/3/2016	WNV
Los Angeles	GRLA3075	617	Cx. quinquefasciatus	El Sereno	50	GRVD	8/3/2016	WNV
Los Angeles	GRLA3133	5587	Cx. quinquefasciatus	San Fernando	50	GRVD	8/5/2016	WNV
Madera	MADR1117	214	Cx. quinquefasciatus	Firebaugh	50	CO2	8/3/2016	WNV
Madera	MADR1117	215	Cx. quinquefasciatus	Firebaugh	50	CO2	8/3/2016	WNV
Madera	MADR195	218	Cx. quinquefasciatus	Madera	26	CO2	8/4/2016	WNV
Madera	MADR195	219	Cx. tarsalis	Madera	42	CO2	8/4/2016	WNV
Madera	MADR208	220	Cx. tarsalis	Madera	50	CO2	8/4/2016	WNV
Madera	MADR208	221	Cx. quinquefasciatus	Madera	50	CO2	8/4/2016	WNV
Madera	MADR239	206	Cx. quinquefasciatus	Madera	33	CO2	8/3/2016	WNV
Madera	MADR298	205	Cx. quinquefasciatus	Chowchilla	22	CO2	8/2/2016	WNV
Madera	MADR300	203	Cx. tarsalis	Chowchilla	24	CO2	8/2/2016	WNV
Madera	MADR3334	209	Cx. quinquefasciatus	Madera	36	CO2	8/3/2016	WNV
Madera	MADR3334	210	Cx. tarsalis	Madera	12	CO2	8/3/2016	WNV
Madera	MADR3334	211	Cx. tarsalis	Madera	46	CO2	8/3/2016	WNV
Madera	MADR408	201	Cx. quinquefasciatus	Chowchilla	50	CO2	8/2/2016	WNV
Madera	MADR412	213	Cx. tarsalis	Firebaugh	29	CO2	8/3/2016	WNV
Madera	MADR414	207	Cx. quinquefasciatus		50	CO2	8/3/2016	WNV
Merced	MERC5508	210	Cx. tarsalis	Merced	22	CO2	8/10/2016	WNV
Orange	ORCO1000	2513	Cx. quinquefasciatus	Placentia	17	CO2	8/2/2016	WNV
Orange	ORCO1000	2776	Cx. quinquefasciatus	Placentia	27	GRVD	8/9/2016	WNV
Orange	ORCO1000	2786	Cx. quinquefasciatus	Placentia	25	GRVD	8/9/2016	WNV
Orange	ORCO1008	2686	Cx. quinquefasciatus	Fullerton	50	GRVD	8/9/2016	WNV
Orange	ORCO1008	2687	Cx. quinquefasciatus	Fullerton	31	GRVD	8/9/2016	WNV
Orange	ORCO1008	2689	Cx. quinquefasciatus	Fullerton	50	GRVD	8/9/2016	WNV
Orange	ORCO1008	2699	Cx. quinquefasciatus	Fullerton	50	GRVD	8/9/2016	WNV
Orange	ORCO1008	2700	Cx. quinquefasciatus	Fullerton	50	GRVD	8/9/2016	WNV
Orange	ORCO1008	2701	Cx. quinquefasciatus	Fullerton	36	GRVD	8/9/2016	WNV
Orange	ORCO1008	2708	Cx. quinquefasciatus	Fullerton	50	GRVD	8/9/2016	WNV

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Orange	ORCO1008	2721	Cx. quinquefasciatus	Fullerton	35	GRVD	8/9/2016	WNV
Orange	ORCO1009	2702	Cx. quinquefasciatus	Garden Grove	50	GRVD	8/9/2016	WNV
Orange	ORCO1009	2703	Cx. quinquefasciatus	Garden Grove	50	GRVD	8/9/2016	WNV
Orange	ORCO1009	2715	Cx. quinquefasciatus	Garden Grove	41	GRVD	8/9/2016	WNV
Orange	ORCO1009	2742	Cx. quinquefasciatus	Garden Grove	40	GRVD	8/9/2016	WNV
Orange	ORCO1009	2747	Cx. quinquefasciatus	Garden Grove	25	GRVD	8/9/2016	WNV
Orange	ORCO1010	2620	Cx. quinquefasciatus	Huntington Beach	42	GRVD	8/3/2016	WNV
Orange	ORCO1010	2632	Cx. quinquefasciatus	Huntington Beach	32	GRVD	8/4/2016	WNV
Orange	ORCO1010	2654	Cx. quinquefasciatus	Huntington Beach	16	GRVD	8/4/2016	WNV
Orange	ORCO1010	2825	Cx. quinquefasciatus	Huntington Beach	48	GRVD	8/10/2016	WNV
Orange	ORCO1011	2461	Cx. quinquefasciatus	La Habra	30	GRVD	7/29/2016	WNV
Orange	ORCO1011	2462	Cx. quinquefasciatus	La Habra	29	GRVD	7/29/2016	WNV
Orange	ORCO1011	2468	Cx. quinquefasciatus	La Habra	40	GRVD	7/29/2016	WNV
Orange	ORCO1011	2469	Cx. quinquefasciatus	La Habra	41	GRVD	7/29/2016	WNV
Orange	ORCO1011	2470	Cx. quinquefasciatus	La Habra	5	GRVD	7/29/2016	WNV
Orange	ORCO1011	2471	Cx. quinquefasciatus	La Habra	5	GRVD	7/29/2016	WNV
Orange	ORCO1011	2547	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2016	WNV
Orange	ORCO1011	2549	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2016	WNV
Orange	ORCO1011	2550	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2016	WNV
Orange	ORCO1011	2570	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2016	WNV
Orange	ORCO1011	2571	Cx. quinquefasciatus	La Habra	17	GRVD	8/2/2016	WNV
Orange	ORCO1011	2573	Cx. quinquefasciatus	La Habra	47	GRVD	8/2/2016	WNV
Orange	ORCO1011	2574	Cx. quinquefasciatus	La Habra	46	GRVD	8/2/2016	WNV
Orange	ORCO1021	2656	Cx. quinquefasciatus	Tustin	37	GRVD	8/4/2016	WNV
Orange	ORCO1021	2657	Cx. quinquefasciatus	Tustin	37	GRVD	8/4/2016	WNV
Orange	ORCO1021	2773	Cx. quinquefasciatus	Tustin	30	GRVD	8/9/2016	WNV
Orange	ORCO1021	2782	Cx. quinquefasciatus	Tustin	8	GRVD	8/9/2016	WNV
Orange	ORCO1025	2783	Cx. quinquefasciatus	Costa Mesa	38	GRVD	8/9/2016	WNV
Orange	ORCO1030	2572	Cx. quinquefasciatus	Dana Point	47	GRVD	8/2/2016	WNV
Orange	ORCO1031	2507	Cx. quinquefasciatus	Los Alamitos	19	GRVD	8/2/2016	WNV
Orange	ORCO1031	2512	Cx. quinquefasciatus	Los Alamitos	19	GRVD	8/2/2016	WNV
Orange	ORCO1031	2519	Cx. quinquefasciatus	Los Alamitos	50	GRVD	8/2/2016	WNV
Orange	ORCO1033	2529	Cx. quinquefasciatus	Tustin	50	GRVD	8/2/2016	WNV
Orange	ORCO1033	2530	Cx. quinquefasciatus	Tustin	34	GRVD	8/2/2016	WNV
Orange	ORCO1033	2710	Cx. quinquefasciatus	Tustin	38	GRVD	8/9/2016	WNV
Orange	ORCO1036	2541	Cx. quinquefasciatus	Buena Park	13	GRVD	8/2/2016	WNV
Orange	ORCO1036	2763	Cx. quinquefasciatus	Buena Park	50	GRVD	8/9/2016	WNV
Orange	ORCO1037	2506	Cx. quinquefasciatus	La Habra	37	GRVD	8/2/2016	WNV
Orange	ORCO1038	2542	Cx. quinquefasciatus	La Palma	31	GRVD	8/2/2016	WNV
Orange	ORCO1039	2535	Cx. quinquefasciatus	Orange	26	GRVD	8/2/2016	WNV
Orange	ORCO1039	2730	Cx. quinquefasciatus	Orange	32	GRVD	8/9/2016	WNV
Orange	ORCO1040	2680	Cx. quinquefasciatus	Orange	50	GRVD	8/9/2016	WNV
Orange	ORCO1040	2681	Cx. quinquefasciatus	Orange	50	GRVD	8/9/2016	WNV
Orange	ORCO1040	2682	Cx. quinquefasciatus	Orange	50	GRVD	8/9/2016	WNV
Orange	ORCO1040	2864	Cx. quinquefasciatus	Orange	50	GRVD	8/9/2016	WNV
Orange	ORCO1041	2712	Cx. quinquefasciatus	Tustin	50	GRVD	8/9/2016	WNV
Orange	ORCO17	2534	Cx. quinquefasciatus	Orange	34	GRVD	8/2/2016	WNV
Orange	ORCO170	2427	Cx. quinquefasciatus	Anaheim	50	GRVD	7/28/2016	WNV
Orange	ORCO170	2428	Cx. quinquefasciatus	Anaheim	50	GRVD	7/28/2016	WNV

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Orange	ORCO170	2429	Cx. quinquefasciatus	Anaheim	50	GRVD	7/28/2016	WNV
Orange	ORCO170	2431	Cx. quinquefasciatus	Anaheim	50	GRVD	7/28/2016	WNV
Orange	ORCO170	2432	Cx. quinquefasciatus	Anaheim	50	GRVD	7/28/2016	WNV
Orange	ORCO170	2624	Cx. quinquefasciatus	Anaheim	50	GRVD	8/4/2016	WNV
Orange	ORCO170	2625	Cx. quinquefasciatus	Anaheim	18	GRVD	8/4/2016	WNV
Orange	ORCO193	2395	Cx. quinquefasciatus	Huntington Beach	19	GRVD	7/27/2016	WNV
Orange	ORCO198	2575	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2016	WNV
Orange	ORCO198	2576	Cx. quinquefasciatus	La Habra	25	GRVD	8/2/2016	WNV
Orange	ORCO199	2465	Cx. quinquefasciatus	Costa Mesa	50	GRVD	7/29/2016	WNV
Orange	ORCO2	2565	Cx. quinquefasciatus	Fullerton	50	GRVD	8/2/2016	WNV
Orange	ORCO2	2566	Cx. quinquefasciatus	Fullerton	50	GRVD	8/2/2016	WNV
Orange	ORCO2	2568	Cx. quinquefasciatus	Fullerton	49	GRVD	8/2/2016	WNV
Orange	ORCO2	2769	Cx. quinquefasciatus	Fullerton	36	GRVD	8/9/2016	WNV
Orange	ORCO2	2770	Cx. quinquefasciatus	Fullerton	35	GRVD	8/9/2016	WNV
Orange	ORCO207	2738	Cx. quinquefasciatus	Santa Ana	23	CO2	8/9/2016	WNV
Orange	ORCO216	2440	Cx. quinquefasciatus	Orange	8	CO2	7/28/2016	WNV
Orange	ORCO217	2425	Cx. quinquefasciatus	Santa Ana	50	GRVD	7/28/2016	WNV
Orange	ORCO217	2434	Cx. quinquefasciatus	Santa Ana	50	GRVD	7/28/2016	WNV
Orange	ORCO217	2435	Cx. quinquefasciatus	Santa Ana	24	GRVD	7/28/2016	WNV
Orange	ORCO217	2437	Cx. quinquefasciatus	Santa Ana	50	GRVD	7/28/2016	WNV
Orange	ORCO217	2660	Cx. quinquefasciatus	Santa Ana	31	GRVD	8/4/2016	WNV
Orange	ORCO217	2698	Cx. quinquefasciatus	Santa Ana	43	CO2	8/9/2016	WNV
Orange	ORCO217	2736	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/9/2016	WNV
Orange	ORCO217	2737	Cx. quinquefasciatus	Santa Ana	42	GRVD	8/9/2016	WNV
Orange	ORCO218	2479	Cx. quinquefasciatus	Anaheim	50	GRVD	7/29/2016	WNV
Orange	ORCO218	2668	Cx. quinquefasciatus	Anaheim	10	GRVD	8/5/2016	WNV
Orange	ORCO218	2670	Cx. quinquefasciatus	Anaheim	27	GRVD	8/5/2016	WNV
Orange	ORCO219	2658	Cx. quinquefasciatus	Irvine	33	GRVD	8/4/2016	WNV
Orange	ORCO220	2484	Cx. quinquefasciatus		50	GRVD	7/29/2016	WNV
Orange	ORCO220	2485	Cx. quinquefasciatus		43	GRVD	7/29/2016	WNV
Orange	ORCO220	2487	Cx. quinquefasciatus		50	GRVD	7/29/2016	WNV
Orange	ORCO220	2488	Cx. quinquefasciatus		50	GRVD	7/29/2016	WNV
Orange	ORCO222	2555	Cx. quinquefasciatus	San Clemente	50	GRVD	8/2/2016	WNV
Orange	ORCO238	2436	Cx. quinquefasciatus	Anaheim	21	GRVD	7/28/2016	WNV
Orange	ORCO238	2761	Cx. quinquefasciatus	Anaheim	30	GRVD	8/9/2016	WNV
Orange	ORCO242	2402	Cx. quinquefasciatus	Fountain Valley	50	GRVD	7/28/2016	WNV
Orange	ORCO248	2647	Cx. quinquefasciatus	Dana Point	21	GRVD	8/4/2016	WNV
Orange	ORCO29	2495	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/2/2016	WNV
Orange	ORCO29	2694	Cx. quinquefasciatus	Santa Ana	35	GRVD	8/9/2016	WNV
Orange	ORCO33	2628	Cx. quinquefasciatus	Westminster	33	GRVD	8/4/2016	WNV
Orange	ORCO34	2771	Cx. quinquefasciatus	Brea	42	GRVD	8/9/2016	WNV
Orange	ORCO34	2772	Cx. quinquefasciatus	Brea	42	GRVD	8/9/2016	WNV
Orange	ORCO36	2538	Cx. quinquefasciatus	Cypress	37	GRVD	8/2/2016	WNV
Orange	ORCO41	2706	Cx. quinquefasciatus	Anaheim	13	GRVD	8/9/2016	WNV
Orange	ORCO55	2815	Cx. quinquefasciatus	Mission Viejo	14	GRVD	8/10/2016	WNV
Orange	ORCO6	2587	Cx. quinquefasciatus	Irvine	15	GRVD	8/3/2016	WNV
Orange	ORCO7	2446	Cx. quinquefasciatus	Seal Beach	50	GRVD	7/28/2016	WNV
Orange	ORCO76	2817	Cx. quinquefasciatus	San Juan Capistrano	13	GRVD	8/10/2016	WNV
Orange	ORCO82	2717	Cx. quinquefasciatus	Cypress	32	GRVD	8/9/2016	WNV
Orange	ORCO88	2735	Cx. quinquefasciatus	Fullerton	26	GRVD	8/9/2016	WNV
Placer	PLCR1023	1676	Cx. tarsalis	Roseville	50	CO2	8/9/2016	WNV

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Placer	PLCR1070	1647	Cx. tarsalis	Roseville	50	CO2	8/9/2016	WNV
Placer	PLCR1114	1685	Cx. tarsalis	Lincoln	50	CO2	8/9/2016	WNV
Placer	PLCR1114	1688	Cx. tarsalis	Lincoln	50	CO2	8/9/2016	WNV
Placer	PLCR1114	1691	Cx. tarsalis	Lincoln	50	CO2	8/9/2016	WNV
Placer	PLCR17	1623	Cx. tarsalis	Sheridan	50	CO2	8/9/2016	WNV
Placer	PLCR191218	1636	Cx. tarsalis		50	CO2	8/9/2016	WNV
Placer	PLCR191218	1640	Cx. tarsalis		6	CO2	8/9/2016	WNV
Placer	PLCR191218	1641	Cx. pipiens		11	CO2	8/9/2016	WNV
Placer	PLCR191235	1699	Cx. stigmatosoma	Newcastle	5	CO2	8/10/2016	WNV
Placer	PLCR191350	1613	Cx. pipiens		50	CO2	8/9/2016	WNV
Placer	PLCR194232	1603	Cx. tarsalis		50	CO2	8/9/2016	WNV
Placer	PLCR195690	1717	Cx. pipiens	Roseville	7	CO2	8/10/2016	WNV
Placer	PLCR195830	1563	Cx. tarsalis	Roseville	6	CO2	8/4/2016	WNV
Placer	PLCR195831	1560	Cx. tarsalis	Roseville	50	CO2	8/4/2016	WNV
Placer	PLCR195863	1589	Cx. pipiens	Roseville	3	CO2	8/5/2016	WNV
Placer	PLCR25	1660	Cx. tarsalis	Lincoln	50	CO2	8/9/2016	WNV
Placer	PLCR25	1661	Cx. tarsalis	Lincoln	50	CO2	8/9/2016	WNV
Riverside	COAV121	2902	Cx. tarsalis	Mecca	50	CO2	8/9/2016	SLEV
Riverside	COAV121	2902	Cx. tarsalis	Mecca	50	CO2	8/9/2016	WNV
Riverside	COAV121	2904	Cx. tarsalis	Mecca	50	CO2	8/9/2016	SLEV
Riverside	COAV121	2905	Cx. tarsalis	Mecca	50	CO2	8/9/2016	SLEV
Riverside	COAV45	2890	Cx. tarsalis	Mecca	15	CO2	8/9/2016	SLEV
Riverside	COAV8	2899	Cx. tarsalis	Mecca	26	CO2	8/9/2016	SLEV
Sacramento	SAYO201006	5183	Cx. tarsalis	Sacramento	50	CO2	8/11/2016	WNV
Sacramento	SAYO201006	5184	Cx. tarsalis	Sacramento	50	CO2	8/11/2016	WNV
Sacramento	SAYO204020	5217	Cx. pipiens	Sacramento	13	CO2	8/11/2016	WNV
Sacramento	SAYO205009	5251	Cx. pipiens	Folsom	4	GRVD	8/11/2016	WNV
Sacramento	SAYO222001	4933	Cx. pipiens	Sacramento	11	GRVD	8/9/2016	WNV
Sacramento	SAYO223006	4945	Cx. pipiens	South Watt Avenue	11	CO2	8/9/2016	WNV
Sacramento	SAYO232020	4967	Cx. pipiens	Sacramento	7	GRVD	8/9/2016	WNV
Sacramento	SAYO233001	5175	Cx. pipiens	Elk Grove	8	GRVD	8/11/2016	WNV
Sacramento	SAYO233041	5158	Cx. pipiens	Elk Grove	16	CO2	8/11/2016	WNV
Sacramento	SAYO234002	4973	Cx. tarsalis	Elk Grove	9	CO2	8/9/2016	WNV
Sacramento	SAYO234009	5168	Cx. tarsalis	Elk Grove	16	CO2	8/11/2016	WNV
Sacramento	SAYO234022	4980	Cx. pipiens	Elk Grove	1	GRVD	8/9/2016	WNV
Sacramento	SAYO235006	4984	Cx. tarsalis	Wilton	22	CO2	8/9/2016	WNV
Sacramento	SAYO235021	4986	Cx. tarsalis	Elk Grove	36	CO2	8/9/2016	WNV
Sacramento	SAYO243016	5131	Cx. pipiens	Elk Grove	13	GRVD	8/11/2016	WNV
Sacramento	SAYO243023	5111	Cx. tarsalis	Elk Grove	35	CO2	8/11/2016	WNV
Sacramento	SAYO243023	5113	Cx. pipiens	Elk Grove	50	CO2	8/11/2016	WNV
Sacramento	SAYO243025	5123	Cx. tarsalis	Elk Grove	17	CO2	8/11/2016	WNV
Sacramento	SAYO243025	5125	Cx. pipiens	Elk Grove	20	CO2	8/11/2016	WNV
Sacramento	SAYO244004	5052	Cx. tarsalis	Galt	50	CO2	8/10/2016	WNV
Sacramento	SAYO245009	5058	Cx. pipiens	Galt	18	CO2	8/10/2016	WNV
Sacramento	SAYO245026	4988	Cx. tarsalis	Wilton	50	CO2	8/9/2016	WNV
Sacramento	SAYO245028	5061	Cx. tarsalis	Herald	33	CO2	8/10/2016	WNV
Sacramento	SAYO254021	5079	Cx. tarsalis	Galt	41	CO2	8/10/2016	WNV
Sacramento	SAYO255003	5071	Cx. pipiens	Herald	20	GRVD	8/10/2016	WNV
Sacramento	SAYO255007	5072	Cx. tarsalis	Herald	50	CO2	8/10/2016	WNV
Sacramento	SAYO271007	5267	Cx. pipiens	Isleton	1	GRVD	8/11/2016	WNV
San Bernardino	WVAL2018	1723	Cx. quinquefasciatus	Chino	18	GRVD	8/10/2016	WNV
San Bernardino	WVAL2019	1716	Cx. quinquefasciatus	Chino	9	GRVD	8/10/2016	WNV

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San Bernardino	WVAL6012	1728	Cx. quinquefasciatus	Ontario	7	GRVD	8/10/2016	WNV
San Bernardino	WVAL6015	1719	Cx. quinquefasciatus	Ontario	7	GRVD	8/10/2016	WNV
San Bernardino	WVAL7001	1726	Cx. quinquefasciatus	Montclair	8	GRVD	8/10/2016	WNV
San Diego	SAND10713	738	Cx. quinquefasciatus	Oceanside	6	GRVD	7/14/2016	WNV
San Diego	SAND10718	733	Cx. quinquefasciatus	Bonita	17	GRVD	7/14/2016	WNV
San Diego	SAND10727	742	Cx. quinquefasciatus	San Diego	44	GRVD	7/19/2016	WNV
San Joaquin	SJCM8004	1978	Cx. pipiens	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8008	1955	Cx. tarsalis	Manteca	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8008	1956	Cx. tarsalis	Manteca	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8008	1957	Cx. tarsalis	Manteca	7	CO2	8/9/2016	WNV
San Joaquin	SJCM8010	1947	Cx. tarsalis	Ripon	17	CO2	8/9/2016	WNV
San Joaquin	SJCM8020	1966	Cx. tarsalis	Acampo	47	CO2	8/9/2016	WNV
San Joaquin	SJCM8020	1967	Cx. pipiens	Acampo	5	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1985	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1986	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1987	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1988	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1989	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1990	Cx. tarsalis	Lodi	24	CO2	8/9/2016	WNV
San Joaquin	SJCM8021	1991	Cx. pipiens	Lodi	7	CO2	8/9/2016	WNV
San Joaquin	SJCM8026	1971	Cx. tarsalis	Stockton	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8026	1972	Cx. tarsalis	Stockton	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8026	1973	Cx. tarsalis	Stockton	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8026	1974	Cx. tarsalis	Stockton	27	CO2	8/9/2016	WNV
San Joaquin	SJCM8032	2013	Cx. pipiens	Escalon	12	CO2	8/11/2016	WNV
San Joaquin	SJCM8037	2017	Cx. tarsalis	Lathrop	9	CO2	8/11/2016	WNV
San Joaquin	SJCM8041	1995	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8041	1996	Cx. tarsalis	Lodi	48	CO2	8/9/2016	WNV
San Joaquin	SJCM8041	1998	Cx. pipiens	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8047	2022	Cx. tarsalis	Stockton	10	CO2	8/11/2016	WNV
San Joaquin	SJCM8049	1961	Cx. tarsalis	Stockton	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8049	1962	Cx. tarsalis	Stockton	22	CO2	8/9/2016	WNV
San Joaquin	SJCM8049	1963	Cx. pipiens	Stockton	33	CO2	8/9/2016	WNV
San Joaquin	SJCM8056	1952	Cx. tarsalis	Manteca	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8056	1953	Cx. tarsalis	Manteca	41	CO2	8/9/2016	WNV
San Joaquin	SJCM8056	1954	Cx. pipiens	Manteca	37	CO2	8/9/2016	WNV
San Joaquin	SJCM8070	2026	Cx. tarsalis	Galt	6	CO2	8/11/2016	WNV
San Joaquin	SJCM8079	1949	Cx. tarsalis	Manteca	23	CO2	8/9/2016	WNV
San Joaquin	SJCM8079	1950	Cx. pipiens	Manteca	30	CO2	8/9/2016	WNV
San Joaquin	SJCM8097	1983	Cx. pipiens	Banta	9	CO2	8/9/2016	WNV
San Joaquin	SJCM8109	1937	Cx. tarsalis	Escalon	24	CO2	8/9/2016	WNV
San Joaquin	SJCM8111	2011	Cx. tarsalis	Stockton	32	CO2	8/9/2016	WNV
San Joaquin	SJCM8143	2001	Cx. tarsalis	Stockton	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8160	1968	Cx. tarsalis	Lodi	50	CO2	8/9/2016	WNV
San Joaquin	SJCM8160	1969	Cx. tarsalis	Lodi	21	CO2	8/9/2016	WNV
San Joaquin	SJCM8161	1941	Cx. pipiens	Ripon	54	CO2	8/9/2016	WNV
San Joaquin	SJCM8191	1981	Cx. tarsalis	Lodi	44	CO2	8/9/2016	WNV
San Joaquin	SJCM8191	1982	Cx. pipiens	Lodi	2	CO2	8/9/2016	WNV
San Joaquin	SJCM9906	1984	Cx. tarsalis	French Camp	17	CO2	8/9/2016	WNV
Shasta	SHAS10030	386	Cx. tarsalis	Anderson	18	CO2	8/9/2016	WNV
Shasta	SHAS110	395	Cx. tarsalis	Redding	37	CO2	8/9/2016	WNV
Shasta	SHAS245	382	Cx. tarsalis	Redding	13	CO2	8/9/2016	WNV
Shasta	SHAS293	383	Cx. tarsalis	Redding	26	CO2	8/9/2016	WNV

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Solano	SOLA297	157	Cx. tarsalis		50	CO2	8/10/2016	WNV
Solano	SOLA328	143	Cx. tarsalis	Suisun	12	CO2	7/25/2016	WNV
Stanislaus	TRLK1303	762	Cx. tarsalis	Patterson	13	CO2	8/9/2016	WNV
Stanislaus	TRLK1454	753	Cx. pipiens	Turlock	50	CO2	8/4/2016	WNV
Stanislaus	TRLK1454	754	Cx. pipiens	Turlock	50	CO2	8/4/2016	WNV
Stanislaus	TRLK16114	758	Cx. pipiens	Turlock	38	CO2	8/4/2016	WNV
Stanislaus	TRLK1615	801	Cx. tarsalis		50	CO2	8/9/2016	WNV
Stanislaus	TRLK1615	802	Cx. tarsalis		50	CO2	8/9/2016	WNV
Stanislaus	TRLK1615	803	Cx. tarsalis		50	CO2	8/9/2016	WNV
Stanislaus	TRLK1615	804	Cx. tarsalis		41	CO2	8/9/2016	WNV
Stanislaus	TRLK1615	805	Cx. pipiens		21	CO2	8/9/2016	WNV
Stanislaus	TRLK1673	806	Cx. tarsalis	Patterson	48	CO2	8/9/2016	WNV
Stanislaus	TRLK1678	738	Cx. pipiens	Turlock	50	CO2	8/4/2016	WNV
Stanislaus	TRLK1678	740	Cx. pipiens	Turlock	50	CO2	8/4/2016	WNV
Stanislaus	TRLK1680	747	Cx. pipiens	Turlock	50	CO2	8/4/2016	WNV
Stanislaus	TRLK1680	748	Cx. pipiens	Turlock	44	CO2	8/4/2016	WNV
Stanislaus	TRLK2	785	Cx. tarsalis	Modesto	50	CO2	8/9/2016	WNV
Stanislaus	TRLK305	777	Cx. tarsalis	Grayson	50	CO2	8/9/2016	WNV
Stanislaus	TRLK319	735	Cx. tarsalis	Newman	43	CO2	8/4/2016	WNV
Stanislaus	TRLK322	787	Cx. tarsalis	Modesto	50	CO2	8/9/2016	WNV
Stanislaus	TRLK424	797	Cx. pipiens	Patterson	47	CO2	8/9/2016	WNV
Stanislaus	TRLK424	798	Cx. tarsalis	Patterson	50	CO2	8/9/2016	WNV
Stanislaus	TRLK424	799	Cx. tarsalis	Patterson	50	CO2	8/9/2016	WNV
Stanislaus	TRLK424	800	Cx. tarsalis	Patterson	37	CO2	8/9/2016	WNV
Stanislaus	TRLK502	794	Cx. tarsalis	Vernalis	50	CO2	8/9/2016	WNV
Stanislaus	TRLK502	795	Cx. tarsalis	Vernalis	49	CO2	8/9/2016	WNV
Stanislaus	TRLK549	768	Cx. tarsalis	Newman	9	CO2	8/9/2016	WNV
Stanislaus	TRLK9768	773	Cx. tarsalis	Grayson	50	CO2	8/9/2016	WNV
Sutter	SUYA14	349	Cx. tarsalis	Sutter	30	REST	8/8/2016	WNV
Sutter	SUYA31	348	Cx. tarsalis	Rio Oso	36	REST	8/8/2016	WNV
Sutter	SUYA70	362	Cx. tarsalis	Yuba City	50	CO2	8/9/2016	WNV
Sutter	SUYA70	363	Cx. tarsalis	Yuba City	44	CO2	8/9/2016	WNV
Tulare	DLNO8	133	Cx. tarsalis	Delano	50	CO2	8/4/2016	WNV
Tulare	DLTA7520	2199	Cx. quinquefasciatus		50	CO2	8/9/2016	WNV
Tulare	DLTA7520	2200	Cx. quinquefasciatus		50	CO2	8/9/2016	WNV
Tulare	DLTA7520	2201	Cx. tarsalis		50	CO2	8/9/2016	WNV
Tulare	DLTA7528	2186	Cx. quinquefasciatus	Ivanhoe	50	CO2	8/9/2016	WNV
Tulare	DLTA7528	2187	Cx. quinquefasciatus	Ivanhoe	50	CO2	8/9/2016	WNV
Tulare	DLTA7528	2188	Cx. quinquefasciatus	Ivanhoe	50	CO2	8/9/2016	WNV
Tulare	DLTA7528	2192	Cx. tarsalis	Ivanhoe	50	CO2	8/9/2016	WNV
Tulare	DLTA7528	2194	Cx. tarsalis	Ivanhoe	28	CO2	8/9/2016	WNV
Tulare	DLTA7529	2205	Cx. quinquefasciatus	Visalia	50	CO2	8/9/2016	WNV
Tulare	DLTA8520	2159	Cx. quinquefasciatus	Visalia	13	GRVD	8/3/2016	WNV
Tulare	DLTA8528	2175	Cx. quinquefasciatus	Visalia	48	GRVD	8/5/2016	WNV
Tulare	DLTA9504	2157	Cx. quinquefasciatus	Visalia	38	GRVD	8/3/2016	WNV
Tulare	DLTA9511	2168	Cx. quinquefasciatus	Famersville	21	GRVD	8/4/2016	WNV
Yolo	SAYO103007	5025	Cx. tarsalis	Dunnigan	50	CO2	8/9/2016	WNV
Yolo	SAYO114001	5032	Cx. tarsalis	Zamora	50	CO2	8/9/2016	WNV
Yolo	SAYO115008	5038	Cx. tarsalis	Zamora	50	CO2	8/9/2016	WNV
Yolo	SAYO116002	5044	Cx. tarsalis	Knights Landing	50	CO2	8/9/2016	WNV
Yolo	SAYO116002	5045	Cx. tarsalis	Knights Landing	50	CO2	8/9/2016	WNV
Yolo	SAYO123010	5051	Cx. pipiens	Esparto	26	GRVD	8/9/2016	WNV
Yolo	SAYO125002	4854	Cx. tarsalis	Yolo	50	CO2	8/5/2016	WNV

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Yolo	SAYO125002	4855	Cx. tarsalis	Yolo	50	CO2	8/5/2016	WNV
Yolo	SAYO125012	4866	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO125021	4862	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO125029	4869	Cx. tarsalis	woodland	26	CO2	8/5/2016	WNV
Yolo	SAYO134011	4905	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO134011	4906	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO134011	4908	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135006	4912	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135006	4913	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135006	4914	Cx. tarsalis	Woodland	48	CO2	8/5/2016	WNV
Yolo	SAYO135016	4873	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135016	4874	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135016	4875	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135016	4876	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135020	4880	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135020	4881	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135020	4882	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO135020	4884	Cx. tarsalis	woodland	26	CO2	8/5/2016	WNV
Yolo	SAYO136010	4895	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO136010	4896	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO136010	4897	Cx. tarsalis	Woodland	50	CO2	8/5/2016	WNV
Yolo	SAYO143002	5017	Cx. tarsalis	Winters	50	CO2	8/9/2016	WNV
Yolo	SAYO143002	5018	Cx. pipiens	Winters	27	CO2	8/9/2016	WNV
Yolo	SAYO143002	5019	Cx. pipiens	Winters	8	GRVD	8/9/2016	WNV
Yolo	SAYO143006	5000	Cx. tarsalis	Winters	25	CO2	8/9/2016	WNV
Yolo	SAYO143008	5004	Cx. pipiens	Winters	37	GRVD	8/9/2016	WNV
Yolo	SAYO144002	5010	Cx. tarsalis	Davis	50	CO2	8/9/2016	WNV
Yolo	SAYO144002	5011	Cx. tarsalis	Davis	50	CO2	8/9/2016	WNV
Yolo	SAYO144002	5012	Cx. tarsalis	Davis	50	CO2	8/9/2016	WNV
Yolo	SAYO146002	5106	Cx. tarsalis	Davis	50	CO2	8/11/2016	WNV
Yuba	SUYA37	355	Cx. tarsalis	Marysville	43	CO2	8/9/2016	WNV
Yuba	SUYA40	353	Cx. tarsalis	Marysville (Linda)	34	CO2	8/9/2016	WNV
Yuba	SUYA8	360	Cx. tarsalis	Marysville	39	CO2	8/9/2016	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO0001	Chico	8/2/2016	WNV	1403	1405			
Butte	BUCO0002	Oroville	8/2/2016	WNV	1410	1411			
Butte	BUCO0003	Oroville	8/2/2016	WNV	1413	1415			
Butte	BUCO0004	Gridley	8/2/2016	WNV	1420	1421	1422	1423	1424
Butte	BUCO0005	Honcut	8/2/2016	WNV	1425	1426	1428	1429	1430
Butte	BUCO0006	Chico	8/2/2016	WNV	1431	1432	1433	1434	1435
Colusa	CLSA0001	Colusa	8/2/2016	WNV	1462				
Contra Costa	CNTR8152	Knightsen	8/1/2016	WNV	1502				
Glenn	GLEN9701	Willows	8/3/2016	WNV	1561	1562	1568		
Merced	MERC0001	Merced	8/5/2016	WNV	1640	1643			
Merced	MERC0002	Dos Palos	8/5/2016	WNV	1646	1649			
Merced	MERC0003	Gustine	8/5/2016	WNV	1656				
Merced	MERC0502	Hilmar	8/5/2016	WNV	1666				

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Merced	MERC0006	Merced	8/5/2016	WNV	1633	1635	1636		
Placer	PLCR0756	Roseville	8/1/2016	WNV	2142				
Placer	PLCR0757	Auburn	8/1/2016	WNV	2149				
Sutter	SUYA0014	Sutter	8/4/2016	WNV	2046	2047	2048		
Sutter	SUYA0015	Robbins	8/4/2016	WNV	2034	2035			
Sutter	SUYA0030	Live Oak	8/4/2016	WNV	2050	2051	2053		
Sutter	SUYA0084	Yuba City	8/4/2016	WNV	2002	2004	2007		
Yuba	SUYA0010	Olivehurst	8/4/2016	WNV	2018				
Yuba	SUYA0007	Marysville	8/4/2016	WNV	2010	2012			

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 University of California, Davis Arbovirus Research and Training laboratory (DART) 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 tested by the California Department of Public Health Vector-Borne Disease Laboratory for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by an EIA. Positive samples are confirmed by an IFA, western-blot, or plaque reduction neutralization test.

Mosquito Pools:

Mosquito pools submitted to DART are tested for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested for chikungunya, dengue, and Zika viral RNA.

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Website Information: For updated information on WNV in California, please visit the California WNV website, www.westmile.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 website, www.cdc.gov, and the USGS website, www.westmilemaps.usgs.gov
