

California Arbovirus Surveillance Bulletin #19

Week 28 Friday, July 15, 2016



Weekly Update

Humans

No human cases have been reported in 2016.

Dead Birds

This week, a total of 111 dead birds tested positive for West Nile virus (WNV) from the following 15 counties: Alameda (1), Contra Costa (3), Fresno (1), Lake (1), Los Angeles (10), Orange (5), Placer (2), Sacramento (50), San Diego (15), San Joaquin (1), Santa Clara (9), Stanislaus (1), Sutter (1), Ventura (4), and Yolo (7). **This is the first detection of WNV in Alameda County this year.** In 2016, 547 dead birds have tested positive for WNV from 23 counties, whereas at this time last year, 215 WNV positive birds had been reported from 30 counties.

Mosquito Pools

West Nile virus

A total of 298 WNV positive mosquito pools were reported this week from the following 25 counties: Butte (6), Contra Costa (1), Fresno (14), Kern (3), Kings (9), Lake (4), Los Angeles (12), Madera (5), Merced (4), Orange (3), Placer (16), Riverside (2), Sacramento (43), San Bernardino (25), San Joaquin (23), Santa Clara (1), Santa Cruz (1), Shasta (1), Solano (3), Sonoma (1), Stanislaus (17), Sutter (11), Tulare (73), Yolo (18), and Yuba (2). **This is the first detection of WNV activity in Merced, Shasta, and Sonoma counties in 2016.** To date this year, 905 WNV positive mosquito pools have been reported from 26 counties, whereas at this time last year, 497 WNV positive mosquito pools had been reported from 25 counties.

St. Louis encephalitis virus

A total of 11 SLEV positive mosquito pools were reported this week from Kern (4) and Riverside (7) counties. To date this year, 36 SLEV positive mosquito pools have been reported from 2 counties.

Sentinel Chickens

A total of 7 WNV seroconversions were reported this week from 4 flocks in 2 counties: Merced (1) and Sutter (6). **This is the first indication of WNV activity in Merced County in 2016.** To date this year, 19 WNV seroconversions have been detected in 8 flocks located in 4 counties, whereas at this time last year, 5 WNV seroconversions had been detected in 3 flocks located in 3 counties.

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	5,484	5,016
# Positive Counties	33	30
# Human Cases	0	0
# Positive Dead Birds / # Tested	215 / 1,317	547 / 1,417
# Positive Mosquito Pools / # Tested	497 / 14,435	905 / 20,884
# Seroconversions / # Tested	5 / 6,159	19 / 4,402

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Butte		1	8	
Contra Costa		4	1	
Fresno		3	64	
Kern			22	
Kings		3	36	
Lake		2	4	
Los Angeles		42	51	4
Madera		1	15	
Marin		2		
Merced			4	1
Orange		12	19	
Placer		3	26	
Riverside		2	19	
Sacramento		233	213	
San Bernardino			38	
San Diego		148	40	5
San Joaquin		14	84	
San Mateo		2		
Santa Clara		38	8	
Santa Cruz		1	1	
Shasta			1	
Solano		1	3	
Sonoma			1	
Stanislaus		4	48	
Sutter		5	33	9
Tulare			126	
Ventura		9		
Yolo		16	34	
Yuba			6	
Totals	0	547	905	19

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TESTING SUMMARIES

Humans

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

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	186	111
	YTD	1,417	547

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	523	7	0	0
	YTD	4,402	19	0	0

Mosquitoes

		Positive / Total Tested					
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		298 / 2,552	11 / 1,766	0 / 1,766	0 / 19	0 / 19	0 / 19
		905 / 20,884	36 / 12,463	0 / 12,463	0 / 87	0 / 87	0 / 87

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94536	American Crow	7/11/2016	WNV
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	7/11/2016	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/13/2016	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	7/11/2016	WNV
Fresno	Fresno MVCD	Fresno	93704	Western Scrub-Jay	7/12/2016	WNV
Lake	Lake Co VCD	Upper Lake	95485	Great Blue Heron	7/11/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91335	American Crow	7/5/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	West Hills	91307	American Crow	7/10/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Malibu	90265	American Crow	7/8/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Monrovia	91016	American Crow	7/11/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Palmdale	93552	American Crow	7/11/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91321	American Crow	7/12/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91321	Common Raven	7/11/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Sherman Oak/Los Angeles	91401	Unknown	7/11/2016	WNV

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Los Angeles	Los Angeles Co Veterinarian	Thousand Oaks	91362	Cooper's Hawk	7/12/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Woodland Hills	91367	American Crow	7/8/2016	WNV
Orange	Orange Co VCD	Anaheim	92801	Cooper's Hawk	6/23/2016	WNV
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	7/7/2016	WNV
Orange	Orange Co VCD	Huntington Beach	92648	Common Raven	7/12/2016	WNV
Orange	Orange Co VCD	Irvine	92604	American Crow	6/7/2016	WNV
Orange	Orange Co VCD	Orange	92868	Cooper's Hawk	6/21/2016	WNV
Placer	Placer MVCD	Loomis	95650	Western Scrub-Jay	7/7/2016	WNV
Placer	Placer MVCD	Rocklin	95765	Western Scrub-Jay	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Bushtit	7/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Bluebird	7/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	White-breasted Nuthatch	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	7/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Lesser Goldfinch	7/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	American Crow	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95742	American Crow	7/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rosemont	95826	Northern Mockingbird	7/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Robin	7/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95817	American Crow	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	Western Scrub-Jay	7/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	House Finch	7/4/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/4/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	7/4/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	House Sparrow	7/3/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	7/4/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Western Scrub-Jay	7/9/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	7/10/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/11/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	Escondido	92025	American Crow	7/13/2016	WNV
San Diego	San Diego Co VCP	Escondido	92026	American Crow	7/13/2016	WNV
San Diego	San Diego Co VCP	La Jolla	92037	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	7/14/2016	WNV
San Diego	San Diego Co VCP	Poway	92065	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	Poway	92065	Sharp-shinned Hawk	7/11/2016	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	San Diego	92107	American Crow	7/11/2016	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	7/13/2016	WNV
San Diego	San Diego Co VCP	San Diego	92127	American Crow	7/13/2016	WNV
San Diego	San Diego Co VCP	San Diego	92154	American Crow	7/13/2016	WNV
San Diego	San Diego Co VCP	San Marcos	92026	American Crow	7/11/2016	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Western Scrub-Jay	7/13/2016	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Western Scrub-Jay	7/12/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/8/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/11/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/12/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/14/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	7/13/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	7/13/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95138	American Crow	7/7/2016	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/6/2016	WNV
Stanislaus	Turlock MAD	Patterson	95363	American Crow	7/5/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	7/12/2016	WNV
Ventura	City Of Moorpark VCD	Moorpark	93021	Northern Mockingbird	6/28/2016	WNV
Ventura	Ventura Co Env Health Dept	Oak View	93022	American Crow	7/6/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93063	American Crow	6/29/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93063	American Crow	7/7/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/5/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/11/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/5/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/5/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/9/2016	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	7/11/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/9/2016	WNV

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Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO27	145	Cx. tarsalis	Gridley	50	CO2	7/11/2016	WNV
Butte	BUCO27	147	Cx. tarsalis	Gridley	50	CO2	7/11/2016	WNV
Butte	BUCO30	139	Cx. tarsalis	Chico	50	CO2	7/6/2016	WNV
Butte	BUCO43	151	Cx. tarsalis	Chico	50	CO2	7/11/2016	WNV
Butte	BUCO43	153	Cx. tarsalis	Chico	50	CO2	7/11/2016	WNV
Butte	BUCO91	134	Cx. tarsalis	Biggs	50	CO2	7/6/2016	WNV
Contra Costa	CNTR8152	256	Cx. tarsalis	Knightsen	50	CO2	7/11/2016	WNV
Fresno	CNSL1795	271	Cx. quinquefasciatus	Clovis	38	GRVD	7/12/2016	WNV
Fresno	CNSL1921	270	Cx. quinquefasciatus	Fresno	50	GRVD	7/12/2016	WNV
Fresno	CNSL3171	267	Cx. quinquefasciatus	Orange Cove	50	GRVD	7/8/2016	WNV
Fresno	CNSL3217	268	Cx. quinquefasciatus	Orange Cove	37	GRVD	7/8/2016	WNV
Fresno	FRNO112	90	Cx. quinquefasciatus	Fresno	50	GRVD	7/14/2016	WNV
Fresno	FRNO136	89	Cx. quinquefasciatus	Fresno	22	GRVD	7/7/2016	WNV
Fresno	FRNO14	88	Cx. quinquefasciatus	Fresno	32	GRVD	7/7/2016	WNV
Fresno	FRNO8	92	Cx. quinquefasciatus	Fresno	50	GRVD	7/14/2016	WNV
Fresno	FRWS300013	98	Cx. quinquefasciatus	Firebaugh	36	BGSENT	7/9/2016	WNV
Fresno	FRWS5101	103	Cx. tarsalis	Mendota	50	CO2	7/12/2016	WNV
Fresno	FRWS5101	104	Cx. tarsalis	Mendota	50	CO2	7/12/2016	WNV
Fresno	FRWS5101	105	Cx. tarsalis	Mendota	50	CO2	7/12/2016	WNV
Fresno	FRWS5110	94	Cx. tarsalis	Tranquillity	50	CO2	7/6/2016	WNV
Fresno	FRWS5116	107	Cx. tarsalis	Tranquility	30	CO2	7/12/2016	WNV
Kern	KERN1114	308	Cx. quinquefasciatus	Bakersfield	50	CO2	7/6/2016	WNV
Kern	KERN115	307	Cx. tarsalis	Bakersfield	50	CO2	7/6/2016	SLEV
Kern	KERN2007	316	Cx. quinquefasciatus	Bakersfield	41	GRVD	7/8/2016	SLEV
Kern	KERN2024	313	Cx. quinquefasciatus	Bakersfield	27	GRVD	7/7/2016	SLEV
Kern	KERN2040	306	Cx. quinquefasciatus	Arvin	50	GRVD	7/6/2016	WNV
Kern	KERN29	318	Cx. quinquefasciatus	Lamont	50	CO2	7/8/2016	SLEV
Kern	KERN29	318	Cx. quinquefasciatus	Lamont	50	CO2	7/8/2016	WNV
Kings	KNGS3018	167	Cx. tarsalis	Lemoore	50	CO2	7/7/2016	WNV
Kings	KNGS3072	182	Cx. tarsalis	Hanford	50	CO2	7/8/2016	WNV
Kings	KNGS3072	183	Cx. tarsalis	Hanford	50	CO2	7/8/2016	WNV
Kings	KNGS3072	184	Cx. tarsalis	Hanford	50	CO2	7/8/2016	WNV
Kings	KNGS3072	185	Cx. tarsalis	Hanford	15	CO2	7/8/2016	WNV
Kings	KNGS3078	176	Cx. tarsalis		50	CO2	7/8/2016	WNV
Kings	KNGS3085	142	Cx. tarsalis	Lemoore	24	CO2	6/29/2016	WNV
Kings	KNGS3102	172	Cx. tarsalis	Armona	50	CO2	7/7/2016	WNV
Kings	KNGS3102	173	Cx. tarsalis	Armona	50	CO2	7/7/2016	WNV
Lake	LAKE130	221	Cx. tarsalis	Lower Lake	50	CO2	7/13/2016	WNV
Lake	LAKE130	223	Cx. tarsalis	Lower Lake	50	CO2	7/13/2016	WNV
Lake	LAKE202	198	Cx. tarsalis	Cobb	50	CO2	7/12/2016	WNV
Lake	LAKE80	216	Cx. tarsalis	Upper Lake	24	REST	7/13/2016	WNV
Los Angeles	GRLA2101	459	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	7/7/2016	WNV
Los Angeles	GRLA2166	456	Cx. quinquefasciatus	Montebello	50	GRVD	7/7/2016	WNV
Los Angeles	GRLA2414	5452	Cx. quinquefasciatus	Granada Hills	46	GRVD	7/8/2016	WNV
Los Angeles	GRLA2419	5450	Cx. quinquefasciatus	Panorama City	50	CO2	7/8/2016	WNV
Los Angeles	GRLA2465	5435	Cx. quinquefasciatus	Los Feliz	13	GRVD	7/6/2016	WNV
Los Angeles	GRLA2637	5448	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/8/2016	WNV
Los Angeles	GRLA2651	5445	Cx. quinquefasciatus	Encino	34	CO2	7/8/2016	WNV
Los Angeles	GRLA2655	5446	Cx. quinquefasciatus	Encino	50	GRVD	7/8/2016	WNV
Los Angeles	GRLA2952	460	Cx. quinquefasciatus	South Whittier	50	GRVD	7/7/2016	WNV
Los Angeles	GRLA2953	463	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	7/7/2016	WNV

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Los Angeles	GRLA3034	5451	Cx. quinquefasciatus	North Hills	24	GRVD	7/8/2016	WNV
Los Angeles	GRLA3040	462	Cx. quinquefasciatus	La Mirada	50	GRVD	7/7/2016	WNV
Madera	MADR1109	167	Cx. tarsalis	Madera	50	CO2	6/30/2016	WNV
Madera	MADR253	172	Cx. tarsalis	Madera	21	CO2	7/8/2016	WNV
Madera	MADR300	169	Cx. quinquefasciatus	Chowchilla	20	CO2	7/6/2016	WNV
Madera	MADR300	174	Cx. tarsalis	Chowchilla	50	CO2	7/12/2016	WNV
Madera	MADR317	171	Cx. quinquefasciatus	Madera	50	CO2	7/8/2016	WNV
Merced	MERC102	173	Cx. tarsalis	Merced	50	CO2	7/14/2016	WNV
Merced	MERC102	174	Cx. tarsalis	Merced	50	CO2	7/14/2016	WNV
Merced	MERC909	160	Cx. tarsalis	Merced	33	CO2	7/13/2016	WNV
Merced	TRLK312	406	Cx. tarsalis	Newman	20	CO2	7/12/16	WNV
Orange	ORCO1011	1906	Cx. quinquefasciatus	La Habra	30	GRVD	7/8/2016	WNV
Orange	ORCO218	1942	Cx. quinquefasciatus	Anaheim	47	GRVD	7/12/2016	WNV
Orange	ORCO88	1979	Cx. quinquefasciatus	Fullerton	13	GRVD	7/12/2016	WNV
Placer	PLCR1003	976	Cx. tarsalis	Lincoln	50	CO2	7/12/2016	WNV
Placer	PLCR1003	978	Cx. tarsalis	Lincoln	47	CO2	7/12/2016	WNV
Placer	PLCR1070	1033	Cx. tarsalis	Roseville	50	CO2	7/12/2016	WNV
Placer	PLCR1114	1041	Cx. tarsalis	Lincoln	50	CO2	7/12/2016	WNV
Placer	PLCR17	1062	Cx. tarsalis	Sheridan	50	CO2	7/12/2016	WNV
Placer	PLCR191373	1068	Cx. tarsalis		50	CO2	7/12/2016	WNV
Placer	PLCR194232	952	Cx. tarsalis		50	CO2	7/7/2016	WNV
Placer	PLCR194232	953	Cx. tarsalis		50	CO2	7/7/2016	WNV
Placer	PLCR25	1051	Cx. tarsalis	Lincoln	50	CO2	7/12/2016	WNV
Placer	PLCR25	1052	Cx. tarsalis	Lincoln	50	CO2	7/12/2016	WNV
Placer	PLCR516	1006	Cx. tarsalis	Roseville	50	CO2	7/12/2016	WNV
Placer	PLCR516	1007	Cx. tarsalis	Roseville	50	CO2	7/12/2016	WNV
Placer	PLCR519	1070	Cx. tarsalis	Roseville	50	CO2	7/12/2016	WNV
Placer	PLCR668	1027	Cx. tarsalis	Elverta	50	CO2	7/12/2016	WNV
Placer	PLCR668	1028	Cx. tarsalis	Elverta	50	CO2	7/12/2016	WNV
Placer	PLCR668	1031	Cx. tarsalis	Elverta	50	CO2	7/12/2016	WNV
Riverside	COAV208	2596	Cx. quinquefasciatus	Palm Springs	7	GRVD	7/8/2016	WNV
Riverside	COAV33	2638	Cx. tarsalis	Mecca	50	CO2	7/12/16	SLEV
Riverside	COAV33	2639	Cx. tarsalis	Mecca	50	CO2	7/12/16	SLEV
Riverside	COAV34	2633	Cx. tarsalis	Mecca	22	CO2	7/12/16	SLEV
Riverside	COAV35	2629	Cx. tarsalis	Mecca	50	CO2	7/12/16	SLEV
Riverside	COAV48	2646	Cx. tarsalis	Mecca	12	CO2	7/12/2016	SLEV
Riverside	COAV540	2637	Cx. tarsalis	Mecca	35	CO2	7/12/16	SLEV
Riverside	COAV610	2635	Cx. tarsalis		22	CO2	7/12/16	SLEV
Riverside	NWST107	129	Cx. tarsalis	Corona	50	CO2	7/8/2016	WNV
Sacramento	SAYO202011	3275	Cx. tarsalis	Rio Linda	50	CO2	7/14/16	WNV
Sacramento	SAYO202011	3276	Cx. tarsalis	Rio Linda	50	CO2	7/14/16	WNV
Sacramento	SAYO202011	3277	Cx. tarsalis	Rio Linda	50	CO2	7/14/16	WNV
Sacramento	SAYO203037	2901	Cx. pipiens	Elverta	3	GRVD	7/8/2016	WNV
Sacramento	SAYO203039	3253	Cx. pipiens	North Highlands	39	GRVD	7/14/16	WNV
Sacramento	SAYO204020	2893	Cx. pipiens	Sacramento	16	GRVD	7/8/2016	WNV
Sacramento	SAYO204029	2909	Cx. pipiens	Orangevale	4	CO2	7/8/2016	WNV
Sacramento	SAYO204051	3192	Cx. pipiens	Citrus Heights	4	CO2	7/14/16	WNV
Sacramento	SAYO205009	3170	Cx. pipiens	Folsom	19	GRVD	7/14/16	WNV
Sacramento	SAYO205010	3178	Cx. pipiens	Orangevale	11	CO2	7/14/16	WNV
Sacramento	SAYO205010	3179	Cx. pipiens	Orangevale	14	GRVD	7/14/16	WNV
Sacramento	SAYO205028	3174	Cx. tarsalis	Orangevale	12	CO2	7/14/16	WNV
Sacramento	SAYO205029	2917	Cx. tarsalis	Orangevale	1	CO2	7/8/2016	WNV
Sacramento	SAYO212033	3271	Cx. tarsalis	Sacramento	50	CO2	7/14/16	WNV
Sacramento	SAYO212033	3274	Cx. pipiens	Sacramento	19	GRVD	7/14/16	WNV

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Sacramento	SAYO213017	3217	Cx. pipiens	Sacramento	39	CO2	7/14/16	WNV
Sacramento	SAYO213018	3239	Cx. tarsalis	Sacramento	5	GRVD	7/14/16	WNV
Sacramento	SAYO213039	3206	Cx. pipiens	Carmichael	2	GRVD	7/14/16	WNV
Sacramento	SAYO214011	2913	Cx. pipiens	Fair Oaks	7	GRVD	7/8/2016	WNV
Sacramento	SAYO214011	3180	Cx. tarsalis	Fair Oaks	25	CO2	7/14/16	WNV
Sacramento	SAYO214013	2885	Cx. tarsalis	Carmichael	23	CO2	7/8/2016	WNV
Sacramento	SAYO214013	2888	Cx. pipiens	Carmichael	5	GRVD	7/8/2016	WNV
Sacramento	SAYO214013	3196	Cx. pipiens	Carmichael	14	CO2	7/14/16	WNV
Sacramento	SAYO214013	3197	Cx. pipiens	Carmichael	15	GRVD	7/14/16	WNV
Sacramento	SAYO214031	3200	Cx. pipiens	Fair Oaks	3	GRVD	7/14/16	WNV
Sacramento	SAYO222017	3115	Cx. pipiens	Sacramento	11	CO2	7/12/16	WNV
Sacramento	SAYO222019	3120	Cx. tarsalis	Sacramento	29	CO2	7/12/16	WNV
Sacramento	SAYO222025	3109	Cx. pipiens	Sacramento	22	GRVD	7/12/16	WNV
Sacramento	SAYO222051	3103	Cx. pipiens	Sacramento	8	GRVD	7/12/16	WNV
Sacramento	SAYO232012	3305	Cx. tarsalis	Elk Grove	38	CO2	7/14/16	WNV
Sacramento	SAYO232020	3149	Cx. pipiens	Sacramento	16	GRVD	7/12/16	WNV
Sacramento	SAYO233009	3295	Cx. tarsalis	Elk Grove	50	CO2	7/14/16	WNV
Sacramento	SAYO233012	2824	Cx. tarsalis	Elk Grove	13	CO2	7/8/2016	WNV
Sacramento	SAYO233015	3153	Cx. pipiens	Sacramento	19	GRVD	7/12/16	WNV
Sacramento	SAYO233018	2820	Cx. pipiens	Sacramento	7	CO2	7/8/2016	WNV
Sacramento	SAYO233020	2829	Cx. tarsalis	Elk Grove	13	CO2	7/8/2016	WNV
Sacramento	SAYO233052	3158	Cx. pipiens	Sacramento	4	GRVD	7/12/16	WNV
Sacramento	SAYO233060	3283	Cx. tarsalis	Elk Grove	21	CO2	7/14/16	WNV
Sacramento	SAYO233060	3285	Cx. pipiens	Elk Grove	14	CO2	7/14/16	WNV
Sacramento	SAYO243010	3314	Cx. tarsalis	Elk Grove	19	GRVD	7/14/16	WNV
Sacramento	SAYO243010	3316	Cx. pipiens	Elk Grove	24	GRVD	7/14/16	WNV
Sacramento	SAYO243025	3329	Cx. pipiens	Elk Grove	50	CO2	7/14/16	WNV
Sacramento	SAYO243032	2846	Cx. pipiens	Elk Grove	16	GRVD	7/8/2016	WNV
San Bernardino	SANB72	376	Cx. quinquefasciatus	Ontario	27	CO2	7/7/2016	WNV
San Bernardino	WVAL2003	1230	Cx. tarsalis	Chino	6	CO2	6/29/16	WNV
San Bernardino	WVAL2022	1305	Cx. quinquefasciatus	Fwy CA 60	11	GRVD	7/7/2016	WNV
San Bernardino	WVAL2022	1305	Cx. quinquefasciatus	Fwy CA 60	11	GRVD	7/7/16	WNV
San Bernardino	WVAL2022	1402	Cx. quinquefasciatus	Fwy CA 60	17	GRVD	7/13/16	WNV
San Bernardino	WVAL5011	1333	Cx. quinquefasciatus	Fwy I-15	50	CO2	7/12/16	WNV
San Bernardino	WVAL5011	1334	Cx. quinquefasciatus	Fwy I-15	50	CO2	7/12/16	WNV
San Bernardino	WVAL6001	1356	Cx. quinquefasciatus	Ontario	25	GRVD	7/13/16	WNV
San Bernardino	WVAL7002	1297	Cx. quinquefasciatus	Montclair	25	GRVD	7/7/2016	WNV
San Bernardino	WVAL7002	1297	Cx. quinquefasciatus	Montclair	25	GRVD	7/7/16	WNV
San Bernardino	WVAL7002	1363	Cx. quinquefasciatus	Montclair	25	GRVD	7/13/16	WNV
San Bernardino	WVAL7002	1367	Cx. quinquefasciatus	Montclair	5	GRVD	7/13/16	WNV
San Bernardino	WVAL8001	1262	Cx. erythrothorax	Corona	50	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1262	Cx. erythrothorax	Corona	50	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1263	Cx. tarsalis	Corona	50	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1263	Cx. tarsalis	Corona	50	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1264	Cx. tarsalis	Corona	16	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1264	Cx. tarsalis	Corona	16	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1266	Cx. quinquefasciatus	Corona	52	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1266	Cx. quinquefasciatus	Corona	52	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1267	Cx. tarsalis	Corona	50	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1267	Cx. tarsalis	Corona	50	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1269	Cx. quinquefasciatus	Corona	51	CO2	6/30/2016	WNV
San Bernardino	WVAL8001	1269	Cx. quinquefasciatus	Corona	51	CO2	6/30/16	WNV
San Bernardino	WVAL8001	1330	Cx. tarsalis	Corona	22	CO2	7/8/16	WNV
San Joaquin	SJCM8004	1347	Cx. tarsalis	Lodi	50	CO2	7/12/16	WNV

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San Joaquin	SJCM8008	1402	Cx. pipiens	Manteca	23	CO2	7/12/16	WNV
San Joaquin	SJCM8018	1427	Cx. tarsalis	Stockton	50	CO2	7/12/16	WNV
San Joaquin	SJCM8018	1428	Cx. tarsalis	Stockton	50	CO2	7/12/16	WNV
San Joaquin	SJCM8018	1429	Cx. tarsalis	Stockton	50	CO2	7/12/16	WNV
San Joaquin	SJCM8027	1307	Cx. tarsalis	McDonald Isl. Bridge	49	CO2	7/12/16	WNV
San Joaquin	SJCM8037	1443	Cx. tarsalis	Lathrop	21	CO2	7/14/16	WNV
San Joaquin	SJCM8045	1461	Cx. tarsalis	Thornton	46	CO2	7/14/16	WNV
San Joaquin	SJCM8048	1380	Cx. tarsalis	Stockton	24	CO2	7/12/16	WNV
San Joaquin	SJCM8049	1298	Cx. tarsalis	Stockton	50	CO2	7/12/16	WNV
San Joaquin	SJCM8049	1299	Cx. tarsalis	Stockton	50	CO2	7/12/16	WNV
San Joaquin	SJCM8049	1301	Cx. pipiens	Stockton	48	CO2	7/12/16	WNV
San Joaquin	SJCM8076	1372	Cx. tarsalis	Stockton	46	CO2	7/12/16	WNV
San Joaquin	SJCM8076	1373	Cx. pipiens	Stockton	11	CO2	7/12/16	WNV
San Joaquin	SJCM8106	1403	Cx. tarsalis	Escalon	12	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1289	Cx. tarsalis	Escalon	50	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1290	Cx. tarsalis	Escalon	50	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1292	Cx. tarsalis	Escalon	50	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1294	Cx. tarsalis	Escalon	50	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1295	Cx. tarsalis	Escalon	50	CO2	7/12/16	WNV
San Joaquin	SJCM8109	1297	Cx. pipiens	Escalon	41	CO2	7/12/16	WNV
San Joaquin	SJCM8185	1450	Cx. tarsalis	Manteca	13	CO2	7/14/16	WNV
San Joaquin	SJCM8185	1451	Cx. pipiens	Manteca	26	CO2	7/14/16	WNV
Santa Clara	STCL1611	167	Cx. pipiens	San Jose	25	CO2	7/14/16	WNV
Santa Cruz	SCRZ116	137	Cx. pipiens	Santa Cruz	7	CO2	7/12/16	WNV
Shasta	SHAS10030	224	Cx. tarsalis	Anderson	44	CO2	7/12/16	WNV
Solano	SOLA1	121	Cx. tarsalis	Davis	50	CO2	7/12/16	WNV
Solano	SOLA3	136	Cx. tarsalis	Davis	50	CO2	7/12/16	WNV
Solano	SOLA6	140	Cx. tarsalis	Dixon	50	CO2	7/12/16	WNV
Sonoma	MARN560	464	Cx. stigmatosoma	Petaluma	6	GRVD	7/12/2016	WNV
Stanislaus	TRLK1672	392	Cx. pipiens	Denair	50	CO2	7/6/16	WNV
Stanislaus	TRLK2	469	Cx. tarsalis	Modesto	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	419	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	420	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	422	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	423	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	424	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	426	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	427	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	428	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	429	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	430	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK305	434	Cx. tarsalis	Grayson	43	CO2	7/12/16	WNV
Stanislaus	TRLK307	463	Cx. tarsalis	Grayson	50	CO2	7/12/16	WNV
Stanislaus	TRLK424	483	Cx. tarsalis	Patterson	50	CO2	7/12/16	WNV
Stanislaus	TRLK424	484	Cx. pipiens	Patterson	19	CO2	7/12/16	WNV
Stanislaus	TRLK432	381	Cx. pipiens	Turlock	50	CO2	7/6/16	WNV
Sutter	SUYA107	205	Cx. pipiens	Live Oak	13	REST	7/11/16	WNV
Sutter	SUYA107	207	Cx. tarsalis	Live Oak	47	REST	7/11/16	WNV
Sutter	SUYA14	201	Cx. tarsalis	Sutter	50	REST	7/11/16	WNV
Sutter	SUYA15	188	Cx. tarsalis	Robbins	35	REST	7/11/16	WNV
Sutter	SUYA30	198	Cx. tarsalis	Live Oak	50	REST	7/11/16	WNV
Sutter	SUYA30	199	Cx. tarsalis	Live Oak	50	REST	7/11/16	WNV
Sutter	SUYA30	200	Cx. pipiens	Live Oak	9	REST	7/11/16	WNV

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Sutter	SUYA44	187	Cx. tarsalis	Pleasant Grove	43	REST	7/11/16	WNV
Sutter	SUYA63	196	Cx. tarsalis	Live Oak	42	REST	7/11/16	WNV
Sutter	SUYA63	197	Cx. tarsalis	Live Oak	42	REST	7/11/16	WNV
Sutter	SUYA70	215	Cx. tarsalis	Yuba City	50	CO2	7/11/16	WNV
Tulare	DLTA6407	1862	Cx. quinquefasciatus	Dinuba	40	GRVD	7/12/16	WNV
Tulare	DLTA6407	1863	Cx. quinquefasciatus	Dinuba	21	GRVD	7/12/2016	WNV
Tulare	DLTA6407	1953	Cx. quinquefasciatus	Dinuba	16	GRVD	7/14/2016	WNV
Tulare	DLTA6408	1743	Cx. quinquefasciatus	Dinuba	50	GRVD	7/7/2016	WNV
Tulare	DLTA6408	1744	Cx. quinquefasciatus	Dinuba	50	GRVD	7/7/2016	WNV
Tulare	DLTA6408	1745	Cx. quinquefasciatus	Dinuba	39	GRVD	7/7/2016	WNV
Tulare	DLTA6408	1797	Cx. quinquefasciatus	Dinuba	50	GRVD	7/8/2016	WNV
Tulare	DLTA6408	1900	Cx. quinquefasciatus	Dinuba	50	GRVD	7/13/2016	WNV
Tulare	DLTA6408	1901	Cx. quinquefasciatus	Dinuba	50	GRVD	7/13/2016	WNV
Tulare	DLTA6408	1954	Cx. quinquefasciatus	Dinuba	11	GRVD	7/14/2016	WNV
Tulare	DLTA6417	1864	Cx. quinquefasciatus	Dinuba	16	GRVD	7/12/16	WNV
Tulare	DLTA6420	1951	Cx. quinquefasciatus	Dinuba	40	GRVD	7/14/2016	WNV
Tulare	DLTA6507	1908	Cx. quinquefasciatus	Orosi	50	GRVD	7/13/2016	WNV
Tulare	DLTA6507	1909	Cx. quinquefasciatus	Orosi	21	GRVD	7/13/2016	WNV
Tulare	DLTA6518	1756	Cx. quinquefasciatus	Cutler	13	GRVD	7/7/2016	WNV
Tulare	DLTA6518	1906	Cx. quinquefasciatus	Cutler	40	GRVD	7/13/2016	WNV
Tulare	DLTA7636	1818	Cx. quinquefasciatus	Woodlake	45	CO2	7/12/2016	WNV
Tulare	DLTA7636	1934	Cx. quinquefasciatus	Woodlake	50	GRVD	7/14/2016	WNV
Tulare	DLTA7730	1895	Cx. quinquefasciatus	Woodlake	33	GRVD	7/13/16	WNV
Tulare	DLTA8413	1807	Cx. quinquefasciatus	Visalia	50	GRVD	7/8/2016	WNV
Tulare	DLTA8413	1808	Cx. quinquefasciatus	Visalia	32	GRVD	7/8/2016	WNV
Tulare	DLTA8422	1706	Cx. quinquefasciatus	Goshen	50	GRVD	7/7/2016	WNV
Tulare	DLTA8423	1710	Cx. quinquefasciatus	Visalia	31	GRVD	7/7/2016	WNV
Tulare	DLTA8424	1920	Cx. quinquefasciatus	Visalia	31	GRVD	7/13/2016	WNV
Tulare	DLTA8427	1708	Cx. quinquefasciatus	Visalia	50	GRVD	7/7/2016	WNV
Tulare	DLTA8427	1709	Cx. quinquefasciatus	Visalia	50	GRVD	7/7/2016	WNV
Tulare	DLTA8427	1918	Cx. quinquefasciatus	Visalia	50	GRVD	7/13/2016	WNV
Tulare	DLTA8434	1803	Cx. quinquefasciatus	Visalia	45	GRVD	7/8/2016	WNV
Tulare	DLTA8435	1778	Cx. quinquefasciatus	Visalia	17	GRVD	7/8/2016	WNV
Tulare	DLTA8436	1776	Cx. quinquefasciatus	Visalia	30	GRVD	7/8/2016	WNV
Tulare	DLTA8508	1921	Cx. quinquefasciatus	Visalia	15	GRVD	7/13/2016	WNV
Tulare	DLTA8512	1713	Cx. quinquefasciatus	Ivanhoe	50	GRVD	7/7/2016	WNV
Tulare	DLTA8512	1715	Cx. quinquefasciatus	Ivanhoe	50	GRVD	7/7/2016	WNV
Tulare	DLTA8512	1932	Cx. quinquefasciatus	Ivanhoe	12	GRVD	7/14/2016	WNV
Tulare	DLTA8514	1782	Cx. quinquefasciatus	Visalia	27	GRVD	7/8/2016	WNV
Tulare	DLTA8519	1873	Cx. quinquefasciatus	Visalia	29	GRVD	7/12/16	WNV
Tulare	DLTA8521	1926	Cx. quinquefasciatus	Visalia	30	GRVD	7/14/2016	WNV
Tulare	DLTA8522	1794	Cx. quinquefasciatus	Visalia	37	GRVD	7/8/2016	WNV
Tulare	DLTA8527	1897	Cx. quinquefasciatus	Visalia	50	GRVD	7/13/2016	WNV
Tulare	DLTA8527	1929	Cx. quinquefasciatus	Visalia	50	GRVD	7/14/2016	WNV
Tulare	DLTA8527	1930	Cx. quinquefasciatus	Visalia	40	GRVD	7/14/2016	WNV
Tulare	DLTA8527	1931	Cx. quinquefasciatus	Visalia	25	GRVD	7/14/2016	WNV
Tulare	DLTA8528	1882	Cx. quinquefasciatus	Visalia	50	GRVD	7/12/16	WNV
Tulare	DLTA8529	1718	Cx. quinquefasciatus	Visalia	50	GRVD	7/7/2016	WNV
Tulare	DLTA8530	1800	Cx. quinquefasciatus	Visalia	40	GRVD	7/8/2016	WNV
Tulare	DLTA8530	1870	Cx. quinquefasciatus	Visalia	50	GRVD	7/12/16	WNV
Tulare	DLTA8533	1947	Cx. quinquefasciatus	Visalia	27	GRVD	7/14/2016	WNV
Tulare	DLTA8534	1736	Cx. quinquefasciatus	Visalia	26	GRVD	7/7/2016	WNV
Tulare	DLTA8534	1911	Cx. quinquefasciatus	Visalia	30	GRVD	7/13/2016	WNV
Tulare	DLTA8534	1949	Cx. quinquefasciatus	Visalia	21	GRVD	7/14/2016	WNV

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Tulare	DLTA9402	1761	Cx. quinquefasciatus	Visalia	45	GRVD	7/7/2016	WNV
Tulare	DLTA9411	1806	Cx. quinquefasciatus	Visalia	43	GRVD	7/8/2016	WNV
Tulare	DLTA9501	1842	Cx. quinquefasciatus	Farmersville	50	GRVD	7/12/2016	WNV
Tulare	DLTA9504	1739	Cx. quinquefasciatus	Visalia	50	GRVD	7/7/2016	WNV
Tulare	DLTA9504	1788	Cx. quinquefasciatus	Visalia	34	GRVD	7/8/2016	WNV
Tulare	DLTA9504	1950	Cx. quinquefasciatus	Visalia	38	GRVD	7/14/2016	WNV
Tulare	DLTA9506	1890	Cx. quinquefasciatus	Visalia	42	GRVD	7/13/16	WNV
Tulare	DLTA9603	1841	Cx. quinquefasciatus	Exeter	21	GRVD	7/12/2016	WNV
Tulare	DLTA9606	1733	Cx. quinquefasciatus	Farmersville	50	GRVD	7/7/2016	WNV
Tulare	DLTA9606	1942	Cx. quinquefasciatus	Farmersville	37	GRVD	7/14/2016	WNV
Tulare	DLTA9610	1893	Cx. quinquefasciatus	Exeter	40	GRVD	7/13/2016	WNV
Tulare	DLTA9611	1836	Cx. quinquefasciatus	Exeter	50	GRVD	7/12/2016	WNV
Tulare	TLRE114	40	Cx. tarsalis	Tulare	28	CO2	7/12/16	WNV
Tulare	TLRE114	41	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE114	42	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE114	43	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE114	44	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE114	46	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE114	47	Cx. quinquefasciatus	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE120	55	Cx. tarsalis	Tulare	50	CO2	7/13/16	WNV
Tulare	TLRE120	56	Cx. tarsalis	Tulare	41	CO2	7/13/16	WNV
Tulare	TLRE18	49	Cx. tarsalis	Tulare	50	CO2	7/12/16	WNV
Tulare	TLRE18	50	Cx. tarsalis	Tulare	50	CO2	7/12/16	WNV
Yolo	SAYO125014	3029	Cx. tarsalis	Woodland	50	CO2	7/12/16	WNV
Yolo	SAYO125016	3024	Cx. tarsalis	Woodland	50	CO2	7/12/16	WNV
Yolo	SAYO125029	3059	Cx. tarsalis	woodland	50	CO2	7/12/16	WNV
Yolo	SAYO125029	3060	Cx. tarsalis	woodland	50	CO2	7/12/16	WNV
Yolo	SAYO135006	2930	Cx. tarsalis	Woodland	50	CO2	7/8/2016	WNV
Yolo	SAYO135016	3021	Cx. tarsalis	Woodland	10	GRVD	7/12/16	WNV
Yolo	SAYO135016	3022	Cx. pipiens	Woodland	16	CO2	7/12/16	WNV
Yolo	SAYO136010	2941	Cx. pipiens	Woodland	9	CO2	7/8/2016	WNV
Yolo	SAYO136010	3397	Cx. tarsalis	Woodland	50	CO2	7/14/16	WNV
Yolo	SAYO143005	2956	Cx. tarsalis	Winters	50	CO2	7/8/16	WNV
Yolo	SAYO143008	2950	Cx. tarsalis	Winters	50	CO2	7/8/2016	WNV
Yolo	SAYO143008	2951	Cx. tarsalis	Winters	50	CO2	7/8/2016	WNV
Yolo	SAYO143008	2954	Cx. pipiens	Winters	11	GRVD	7/8/2016	WNV
Yolo	SAYO143008	3394	Cx. pipiens	Winters	25	GRVD	7/14/16	WNV
Yolo	SAYO143010	3366	Cx. tarsalis	Winters	50	CO2	7/14/16	WNV
Yolo	SAYO143010	3368	Cx. tarsalis	Winters	50	CO2	7/14/16	WNV
Yolo	SAYO145005	3068	Cx. tarsalis	Davis	50	CO2	7/12/16	WNV
Yolo	SAYO145010	3045	Cx. tarsalis	Davis	50	CO2	7/12/16	WNV
Yuba	SUYA4	222	Cx. tarsalis	Wheatland	45	CO2	7/11/16	WNV
Yuba	SUYA40	230	Cx. tarsalis	Marysville	50	CO2	7/11/16	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Merced	MERC1302	Los Banos	7/8/2016	WNV	1670		
Sutter	SUYA0030	Live Oak	7/7/2016	WNV	2054	2055	2056
Sutter	SUYA0031	Rio Oso	7/7/2016	WNV	2022	2023	
Sutter	SUYA0084	Yuba City	7/7/2016	WNV	2003		

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Test Protocols

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

Dead Birds

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the 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.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov.

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
