

California Arbovirus Surveillance Bulletin #18

Week 31 Friday, August 4, 2017



Weekly Update

Humans

Five new human cases of West Nile virus (WNV) illness were reported this week from Los Angeles County. To date this year, a total of 11 human cases of WNV illness have been reported from four counties. Of the 11 case-patients, six (55%) had neuroinvasive disease; no fatalities have been reported. The median age of the individuals is 60 years (range: 4–79 years) and seven (64%) are male. Dates of symptom onset ranged from March 16 to July 18. In addition to the 11 cases, three asymptomatic WNV-positive blood donors have been reported from Los Angeles (2) and Orange (1) counties. As of this date in 2016, 10 human WNV cases had been reported from eight counties.

Dead Birds

A total of 26 WNV positive dead birds were reported this week from nine counties: Butte (2), Contra Costa (1), Los Angeles (6), Orange (2), Sacramento (5), San Bernardino (5), San Joaquin (2), Santa Clara (1), and Stanislaus (2). **This is the first detection of WNV activity in Santa Clara County, and the first positive birds from Butte and Stanislaus Counties this year.** To date this year, 141 birds from 22 counties have tested positive for WNV. As of this date in 2016, 834 WNV positive birds had been reported from 28 counties.

Mosquito Pools

West Nile Virus

A total of 345 WNV positive mosquito pools were reported this week from the following 19 counties: Butte (3), Contra Costa (1), Fresno (25), Inyo (1), Kern (13), Los Angeles (43), Madera (7), Merced (6), Orange (41), Placer (10), Riverside (14), Sacramento (21), San Bernardino (51), San Joaquin (28), Stanislaus (27), Sutter (2), Tulare (42), Yolo (7), and Yuba (3). To date this year, 1,470 WNV positive mosquito pools have been reported from 22 counties. As of this date in 2016, 1,841 WNV positive mosquito pools had been reported from 30 counties.

St. Louis Encephalitis Virus

A total of three mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from three counties: Fresno (1), Stanislaus (1), and Yuba counties. **This is the first detection of SLEV activity in Stanislaus and Yuba counties in 2017.** To date this year, 20 SLEV positive mosquito pools have been reported from Fresno (7), Kern (6), Kings (4), Riverside (1), Stanislaus (1), and Yuba (1) counties. As of this date in 2016, 70 SLEV positive mosquito pools had been reported from 2 counties.

Sentinel Chickens

A total of six WNV seroconversions were reported this week from four counties: Butte (2), Los Angeles (1), Merced (2), and Yuba (1). These are the first WNV positive chickens reported from Butte and Yuba counties in 2017. To date this year, 40 WNV seroconversions have been reported from five counties. As of this date in 2016, 84 WNV seroconversions had been reported from 12 counties.

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2016 & 2017 YTD West Nile Virus Comparisons		
	2016	2017
Total # Dead Bird Reports	6,255	4,578
# Positive Counties	34	28
# Human Cases	10	11
# Positive Dead Birds / # Tested	834 / 1,846	141 / 1,166
# Positive Mosquito Pools / # Tested	1,841 / 26,562	1,470 / 25,398
# Seroconversions / # Tested	84 / 5,856	40 / 6,364

YTD WNV Activity by Element and County, 2017				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Butte		2	10	2
Colusa		1		
Contra Costa		3	2	
Fresno		2	53	
Inyo			4	
Kern	1	3	110	
Kings	1		37	
Lake		1	5	
Los Angeles	8	26	150	24
Madera			12	
Merced			12	5
Nevada		1		
Orange		10	64	
Placer		1	16	
Riverside		14	126	
Sacramento		32	47	
San Bernardino	1	18	166	8
San Diego		7	2	
San Joaquin		4	120	
San Mateo		1		
Santa Clara		1		
Santa Cruz		1		
Stanislaus		2	78	
Sutter			10	
Tulare		8	422	
Yolo			15	
Yuba		2	9	1
Totals	11	141	1,470	40

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.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.westnilemaps.usgs.gov

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	5	0	0
	YTD	11	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	80	26
	YTD	1,166	141

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	447	6	0	0
	YTD	6,364	40	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	345 / 1,902	3 / 1,411	0 / 1,286	0 / 51	0 / 51	0 / 51
		YTD	1,470 / 25,398	20 / 21,265	0 / 19,569	0 / 792	0 / 792	0 / 792

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Biggs	95917	American Robin	7/31/2017	WNV
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	7/31/2017	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	8/1/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Northridge	91324	American Crow	7/25/2017	WNV
Los Angeles	Long Beach Animal Control	Long Beach	90807	American Crow	7/25/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Downey	90241	American Crow	7/28/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	San Gabriel	91776	American Crow	7/27/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	South Pasadena	91030	Western Scrub-Jay	7/28/2017	WNV
Los Angeles	San Gabriel Valley MVCD	San Dimas	91773	Sparrow	8/2/2017	WNV
Orange	Orange Co VCD	Irvine	92602	American Crow	7/24/2017	WNV
Orange	Orange Co VCD	La Habra	92833	Western Bluebird	7/19/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	7/28/2017	WNV

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Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	House Finch	7/31/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Lesser Goldfinch	7/30/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Western Scrub-Jay	7/28/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Western Scrub-Jay	7/31/2017	WNV
San Bernardino	West Valley MVCD	Chino Hills	91709	Sparrow	7/14/2017	WNV
San Bernardino	West Valley MVCD	Montclair	91763	American Crow	7/10/2017	WNV
San Bernardino	West Valley MVCD	Upland	91786	American Crow	7/24/2017	WNV
San Bernardino	West Valley MVCD	Upland	91786	American Crow	7/25/2017	WNV
San Bernardino	West Valley MVCD	Upland	91786	Sparrow	7/10/2017	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95337	Western Scrub-Jay	7/31/2017	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95377	American Crow	7/31/2017	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	7/28/2017	WNV
Stanislaus	Turlock MAD	Ceres	95307	American Crow	7/21/2017	WNV
Stanislaus	Turlock MAD (or East Side MAD)	Modesto	95358	Unknown	7/18/2017	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO121	220	Cx. tarsalis	Biggs	50	CO2	7/31/2017	WNV
Butte	BUCO49	216	Cx. tarsalis	Biggs	50	CO2	7/31/2017	WNV
Butte	BUCO49	219	Cx. tarsalis	Biggs	50	CO2	7/31/2017	WNV
Contra Costa	CNTR661	281	Cx. tarsalis	Byron	17	CO2	8/2/2017	WNV
Fresno	CNSL1281	342	Cx. quinquefasciatus	Fresno	18	GRVD	7/27/2017	SLEV
Fresno	CNSL1989	277	Cx. quinquefasciatus	Fresno	14	GRVD	7/20/2017	WNV
Fresno	CNSL3249	360	Cx. quinquefasciatus	Reedley	16	GRVD	8/1/2017	WNV
Fresno	CNSL5059	365	Cx. quinquefasciatus	Kingsburg	50	GRVD	8/2/2017	WNV
Fresno	CNSL6128	261	Cx. quinquefasciatus	Riverdale	40	GRVD	7/18/2017	WNV
Fresno	CNSL8073	278	Cx. quinquefasciatus	Fresno	37	GRVD	7/20/2017	WNV
Fresno	CNSL8073	283	Cx. tarsalis	Fresno	13	BGSENT	7/20/2017	WNV
Fresno	FRNO36	228	Cx. quinquefasciatus	Fresno	9	BGSENT	7/28/2017	WNV
Fresno	FRNO8007	224	Cx. quinquefasciatus		20	BGSENT	7/27/2017	WNV
Fresno	FRWS100006	296	Cx. tarsalis	Dos Palos	50	CO2	8/1/2017	WNV
Fresno	FRWS100006	297	Cx. tarsalis	Dos Palos	50	CO2	8/1/2017	WNV
Fresno	FRWS100006	300	Cx. tarsalis	Dos Palos	50	CO2	8/1/2017	WNV
Fresno	FRWS100022	275	Cx. tarsalis		50	CO2	7/27/2017	WNV
Fresno	FRWS1101	295	Cx. tarsalis	Dos Palos	50	OTHER	8/1/2017	WNV
Fresno	FRWS1202	301	Cx. tarsalis	Dos Palos	50	CO2	8/1/2017	WNV
Fresno	FRWS1202	305	Cx. tarsalis	Dos Palos	50	OTHER	8/1/2017	WNV
Fresno	FRWS200002	307	Cx. quinquefasciatus	Firebaugh	24	OTHER	8/1/2017	WNV
Fresno	FRWS2105	306	Cx. tarsalis	Dos Palos	50	CO2	8/1/2017	WNV
Fresno	FRWS300026	289	Cx. quinquefasciatus	Firebaugh	41	BGSENT	8/1/2017	WNV
Fresno	FRWS300031	310	Cx. tarsalis		48	CO2	8/1/2017	WNV
Fresno	FRWS300031	311	Cx. quinquefasciatus		47	CO2	8/1/2017	WNV
Fresno	FRWS300057	272	Cx. quinquefasciatus		48	BGSENT	7/27/2017	WNV
Fresno	FRWS300058	273	Cx. tarsalis		26	BGSENT	7/27/2017	WNV
Fresno	FRWS400017	315	Cx. quinquefasciatus	Mendota	50	CO2	8/1/2017	WNV
Fresno	FRWS400027	280	Cx. quinquefasciatus		43	CO2	7/27/2017	WNV
Fresno	FRWS500028	287	Cx. tarsalis		50	CO2	7/27/2017	WNV
Inyo	INYO1035	4	Cx. tarsalis	Bishop	50	CO2	8/1/2017	WNV
Kern	DLNO102	184	Cx. quinquefasciatus	McFarland	25	GRVD	7/28/2017	WNV
Kern	DLNO29	186	Cx. quinquefasciatus	Delano	38	GRVD	8/1/2017	WNV

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Kern	DLNO62	180	Cx. quinquefasciatus	McFarland	50	CO2	7/27/2017	WNV
Kern	DLNO66	187	Cx. quinquefasciatus	Delano	16	GRVD	8/1/2017	WNV
Kern	DLNO97	181	Cx. quinquefasciatus	Delano	48	CO2	7/27/2017	WNV
Kern	KERN2031	438	Cx. quinquefasciatus	Bakersfield	13	GRVD	7/28/2017	WNV
Kern	KERN3027	439	Cx. tarsalis	Arvin	30	CO2	7/28/2017	WNV
Kern	KERN36	442	Cx. tarsalis	Bakersfield	50	CO2	7/28/2017	WNV
Kern	KERN44	437	Cx. tarsalis	Shafter	50	CO2	7/27/2017	WNV
Kern	KERN60	436	Cx. quinquefasciatus	Bakersfield	50	CO2	7/25/2017	WNV
Kern	WEST6224	22	Cx. quinquefasciatus	Taft	38	GRVD	8/2/2017	WNV
Kern	WEST6231	19	Cx. quinquefasciatus	Taft	50	GRVD	8/2/2017	WNV
Kern	WEST6231	20	Cx. quinquefasciatus	Taft	13	GRVD	8/2/2017	WNV
Los Angeles	GRLA2194	518	Cx. quinquefasciatus	South El Monte	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2221	525	Cx. quinquefasciatus	Rowland Heights	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2222	524	Cx. quinquefasciatus	Rowland Heights	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2228	522	Cx. quinquefasciatus	Diamond Bar	42	GRVD	7/26/2017	WNV
Los Angeles	GRLA2383	529	Cx. quinquefasciatus	Whittier	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2419	5529	Cx. quinquefasciatus	Panorama City	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2465	5541	Cx. quinquefasciatus	Los Feliz	50	GRVD	7/27/2017	WNV
Los Angeles	GRLA2500	5536	Cx. quinquefasciatus	Los Angeles	44	GRVD	7/27/2017	WNV
Los Angeles	GRLA2512	5540	Cx. quinquefasciatus	Los Angeles	50	GRVD	7/27/2017	WNV
Los Angeles	GRLA2521	5543	Cx. stigmatosoma	Los Feliz	12	GRVD	7/27/2017	WNV
Los Angeles	GRLA2552	5544	Cx. quinquefasciatus	Glendale	50	GRVD	7/27/2017	WNV
Los Angeles	GRLA2574	5523	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2580	5522	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2651	5524	Cx. quinquefasciatus	Encino	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA2937	5545	Cx. quinquefasciatus	Burbank	46	GRVD	7/27/2017	WNV
Los Angeles	GRLA3009	5548	Cx. quinquefasciatus	Santa Clarita	50	GRVD	7/28/2017	WNV
Los Angeles	GRLA3034	5532	Cx. quinquefasciatus	North Hills	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA3042	521	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	7/26/2017	WNV
Los Angeles	GRLA3053	526	Cx. quinquefasciatus	Hacienda Heights	44	GRVD	7/26/2017	WNV
Los Angeles	GRLA3063	546	Cx. quinquefasciatus	Watts	50	GRVD	7/28/2017	WNV
Los Angeles	GRLA3074	537	Cx. quinquefasciatus	Lincoln Heights	50	GRVD	7/27/2017	WNV
Los Angeles	GRLA3075	538	Cx. quinquefasciatus	El Sereno	50	GRVD	7/27/2017	WNV
Los Angeles	GRLA3127	5549	Cx. quinquefasciatus	Castaic	20	CO2	7/28/2017	WNV
Los Angeles	LACW1003	280	Cx. quinquefasciatus	Redondo Beach	47	GRVD	7/26/2017	WNV
Los Angeles	SGVA4	1869	Cx. quinquefasciatus	Arcadia	25	GRVD	7/27/2017	WNV
Los Angeles	SGVA4	1870	Cx. quinquefasciatus	Arcadia	25	GRVD	7/27/2017	WNV
Los Angeles	SGVA4	1871	Cx. quinquefasciatus	Arcadia	6	GRVD	7/27/2017	WNV
Los Angeles	SGVA4	1872	Cx. quinquefasciatus	Arcadia	25	GRVD	7/27/2017	WNV
Los Angeles	SGVA873	1860	Cx. quinquefasciatus	La Verne	9	GRVD	7/26/2017	WNV
Los Angeles	SGVA896	1831	Cx. tarsalis	La Verne	12	GRVD	7/26/2017	WNV
Los Angeles	SGVA896	1834	Cx. quinquefasciatus	La Verne	17	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1841	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1842	Cx. quinquefasciatus	San Gabriel	22	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1844	Cx. tarsalis	San Gabriel	3	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1846	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1847	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1848	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1849	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1850	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA898	1851	Cx. quinquefasciatus	San Gabriel	25	GRVD	7/26/2017	WNV
Los Angeles	SGVA960	1828	Cx. quinquefasciatus	Rosemead	8	GRVD	7/25/2017	WNV
Los Angeles	SGVA961	1837	Cx. quinquefasciatus	Alhambra	19	GRVD	7/27/2017	WNV
Los Angeles	SGVA961	1839	Cx. quinquefasciatus	Alhambra	11	GRVD	7/27/2017	WNV

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Madera	MADR1117	158	Cx. quinquefasciatus	Firebaugh	43	CO2	7/25/2017	WNV
Madera	MADR265	176	Cx. tarsalis	Madera	25	CO2	7/28/2017	WNV
Madera	MADR266	173	Cx. quinquefasciatus		50	CO2	7/27/2017	WNV
Madera	MADR266	174	Cx. quinquefasciatus		38	CO2	7/27/2017	WNV
Madera	MADR3334	177	Cx. quinquefasciatus	Madera	50	CO2	7/28/2017	WNV
Madera	MADR884	159	Cx. tarsalis	Madera	21	CO2	7/25/2017	WNV
Madera	MADR884	160	Cx. tarsalis	Madera	50	CO2	7/25/2017	WNV
Merced	MERC102	138	Cx. tarsalis	Merced	50	CO2	7/25/2017	WNV
Merced	MERC1222	127	Cx. tarsalis	Merced	50	CO2	7/25/2017	WNV
Merced	MERC405	154	Cx. pipiens	Hilmar	44	CO2	7/26/2017	WNV
Merced	MERC407	155	Cx. tarsalis	Gustine	10	CO2	7/27/2017	WNV
Merced	MERC5508	136	Cx. tarsalis	Merced	11	CO2	7/25/2017	WNV
Merced	MERC909	131	Cx. tarsalis	Merced	6	CO2	7/25/2017	WNV
Orange	ORCO1010	3001	Cx. tarsalis	Huntington Beach	3	GRVD	7/27/2017	WNV
Orange	ORCO1011	2943	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/2017	WNV
Orange	ORCO1011	2945	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/2017	WNV
Orange	ORCO1011	2947	Cx. quinquefasciatus	La Habra	45	GRVD	7/26/2017	WNV
Orange	ORCO1011	2948	Cx. quinquefasciatus	La Habra	26	GRVD	7/26/2017	WNV
Orange	ORCO1011	2950	Cx. quinquefasciatus	La Habra	12	GRVD	7/26/2017	WNV
Orange	ORCO1011	2953	Cx. quinquefasciatus	La Habra	35	GRVD	7/26/2017	WNV
Orange	ORCO1011	2955	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/2017	WNV
Orange	ORCO1011	2956	Cx. quinquefasciatus	La Habra	21	GRVD	7/26/2017	WNV
Orange	ORCO1011	3002	Cx. quinquefasciatus	La Habra	7	GRVD	7/27/2017	WNV
Orange	ORCO1011	3004	Cx. quinquefasciatus	La Habra	42	GRVD	7/27/2017	WNV
Orange	ORCO1011	3005	Cx. quinquefasciatus	La Habra	48	GRVD	7/27/2017	WNV
Orange	ORCO1011	3006	Cx. quinquefasciatus	La Habra	51	GRVD	7/27/2017	WNV
Orange	ORCO1011	3007	Cx. quinquefasciatus	La Habra	50	GRVD	7/27/2017	WNV
Orange	ORCO1011	3011	Cx. quinquefasciatus	La Habra	29	GRVD	7/27/2017	WNV
Orange	ORCO1011	3056	Cx. quinquefasciatus	La Habra	45	GRVD	8/2/2017	WNV
Orange	ORCO1011	3059	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2017	WNV
Orange	ORCO1011	3061	Cx. quinquefasciatus	La Habra	43	GRVD	8/2/2017	WNV
Orange	ORCO1011	3066	Cx. quinquefasciatus	La Habra	18	GRVD	8/2/2017	WNV
Orange	ORCO1011	3116	Cx. quinquefasciatus	La Habra	50	GRVD	8/2/2017	WNV
Orange	ORCO1011	3117	Cx. quinquefasciatus	La Habra	48	GRVD	8/2/2017	WNV
Orange	ORCO1037	2986	Cx. quinquefasciatus	La Habra	20	GRVD	7/27/2017	WNV
Orange	ORCO198	2987	Cx. quinquefasciatus	La Habra	50	GRVD	7/27/2017	WNV
Orange	ORCO198	2988	Cx. quinquefasciatus	La Habra	15	GRVD	7/27/2017	WNV
Orange	ORCO198	3130	Cx. quinquefasciatus	La Habra	50	GRVD	8/3/2017	WNV
Orange	ORCO198	3131	Cx. quinquefasciatus	La Habra	50	GRVD	8/3/2017	WNV
Orange	ORCO198	3132	Cx. quinquefasciatus	La Habra	50	GRVD	8/3/2017	WNV
Orange	ORCO198	3133	Cx. quinquefasciatus	La Habra	50	GRVD	8/3/2017	WNV
Orange	ORCO198	3134	Cx. quinquefasciatus	La Habra	50	GRVD	8/3/2017	WNV
Orange	ORCO198	3135	Cx. quinquefasciatus	La Habra	27	GRVD	8/3/2017	WNV
Orange	ORCO2	2992	Cx. quinquefasciatus	Fullerton	34	GRVD	7/27/2017	WNV
Orange	ORCO215	3090	Cx. quinquefasciatus	La Habra	50	CO2	8/2/2017	WNV
Orange	ORCO215	3091	Cx. quinquefasciatus	La Habra	50	CO2	8/2/2017	WNV
Orange	ORCO215	3092	Cx. quinquefasciatus	La Habra	33	CO2	8/2/2017	WNV
Orange	ORCO218	2875	Cx. quinquefasciatus	Anaheim	50	GRVD	7/25/2017	WNV
Orange	ORCO227	2918	Cx. quinquefasciatus	Brea	43	GRVD	7/25/2017	WNV
Orange	ORCO236	3140	Cx. quinquefasciatus	Garden Grove	50	GRVD	8/3/2017	WNV
Orange	ORCO237	3067	Cx. quinquefasciatus	Yorba Linda	17	GRVD	8/2/2017	WNV
Orange	ORCO29	2963	Cx. quinquefasciatus	Santa Ana	47	GRVD	7/26/2017	WNV
Orange	ORCO33	2984	Cx. quinquefasciatus	Westminster	25	GRVD	7/27/2017	WNV
Orange	ORCO50	2982	Cx. quinquefasciatus	Buena Park	34	GRVD	7/27/2017	WNV

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Placer	PLCR1113	1152	Cx. tarsalis	Pleasant Grove	50	CO2	8/1/2017	WNV
Placer	PLCR1114	1126	Cx. tarsalis	Lincoln	50	CO2	8/1/2017	WNV
Placer	PLCR1114	1129	Cx. tarsalis	Lincoln	50	CO2	8/1/2017	WNV
Placer	PLCR1114	1132	Cx. tarsalis	Lincoln	50	CO2	8/1/2017	WNV
Placer	PLCR139	1163	Cx. tarsalis	Roseville	50	CO2	8/1/2017	WNV
Placer	PLCR139	1174	Cx. tarsalis	Roseville	50	CO2	8/1/2017	WNV
Placer	PLCR139	1178	Cx. tarsalis	Roseville	50	CO2	8/1/2017	WNV
Placer	PLCR191218	1099	Cx. tarsalis		50	CO2	8/1/2017	WNV
Placer	PLCR191218	1102	Cx. tarsalis		15	CO2	8/1/2017	WNV
Placer	PLCR191373	1108	Cx. tarsalis		50	CO2	8/1/2017	WNV
Riverside	COAV35	3115	Cx. tarsalis	Mecca	15	CO2	8/1/2017	WNV
Riverside	COAV37	3118	Cx. tarsalis	Mecca	18	CO2	8/1/2017	WNV
Riverside	COAV9	3123	Cx. tarsalis	Mecca	12	CO2	8/1/2017	WNV
Riverside	NWST111	182	Cx. quinquefasciatus	Corona	31	CO2	8/1/2017	WNV
Riverside	NWST141	158	Cx. quinquefasciatus	Riverside	17	GRVD	7/19/2017	WNV
Riverside	NWST155	161	Cx. quinquefasciatus	Corona	35	CO2	7/20/2017	WNV
Riverside	NWST190	166	Cx. quinquefasciatus	Eastvale	50	CO2	7/25/2017	WNV
Riverside	NWST43	156	Cx. tarsalis	Corona	50	CO2	7/19/2017	WNV
Riverside	NWST52	165	Cx. quinquefasciatus	Eastvale	30	GRVD	7/25/2017	WNV
Riverside	NWST52	184	Cx. quinquefasciatus	Eastvale	21	CO2	8/1/2017	WNV
Riverside	NWST60	181	Cx. quinquefasciatus	Norco	40	GRVD	7/28/2017	WNV
Riverside	NWST6876	152	Cx. quinquefasciatus	Corona	15	CO2	7/19/2017	WNV
Riverside	NWST85	164	Cx. quinquefasciatus	Corona	28	GRVD	7/25/2017	WNV
Riverside	NWST9804	177	Cx. quinquefasciatus	Eastvale	50	CO2	7/27/2017	WNV
Sacramento	SAYO202006	3890	Cx. tarsalis	Sacramento	50	CO2	8/3/2017	WNV
Sacramento	SAYO203039	4031	Cx. pipiens	North Highlands	3	GRVD	8/3/2017	WNV
Sacramento	SAYO213009	3838	Cx. pipiens	Sacramento	37	GRVD	8/1/2017	WNV
Sacramento	SAYO213017	3825	Cx. pipiens	Sacramento	11	GRVD	8/1/2017	WNV
Sacramento	SAYO213033	3826	Cx. tarsalis	Sacramento	24	CO2	8/1/2017	WNV
Sacramento	SAYO223004	3689	Cx. tarsalis	Sacramento	28	CO2	8/1/2017	WNV
Sacramento	SAYO223004	3690	Cx. pipiens	Sacramento	8	CO2	8/1/2017	WNV
Sacramento	SAYO223006	3717	Cx. tarsalis	South Watt Avenue	37	CO2	8/1/2017	WNV
Sacramento	SAYO223007	3720	Cx. tarsalis	Sacramento	22	CO2	8/1/2017	WNV
Sacramento	SAYO233001	3730	Cx. tarsalis	Elk Grove	25	CO2	8/1/2017	WNV
Sacramento	SAYO233005	3736	Cx. pipiens	Elk Grove	28	GRVD	8/1/2017	WNV
Sacramento	SAYO242013	4011	Cx. tarsalis	Hood	45	CO2	8/3/2017	WNV
Sacramento	SAYO242013	4012	Cx. pipiens	Hood	24	CO2	8/3/2017	WNV
Sacramento	SAYO243012	3921	Cx. tarsalis	Elk Grove	21	CO2	8/3/2017	WNV
Sacramento	SAYO243016	3766	Cx. pipiens	Elk Grove	50	CO2	8/1/2017	WNV
Sacramento	SAYO243032	3907	Cx. tarsalis	Elk Grove	50	CO2	8/3/2017	WNV
Sacramento	SAYO243034	3932	Cx. pipiens	Elk Grove	50	CO2	8/3/2017	WNV
Sacramento	SAYO243035	3913	Cx. tarsalis	Elk Grove	16	CO2	8/3/2017	WNV
Sacramento	SAYO253015	4092	Cx. pipiens	Elk Grove	5	GRVD	8/3/2017	WNV
Sacramento	SAYO261002	3883	Cx. tarsalis	Isleton	50	CO2	8/3/2017	WNV
Sacramento	SAYO261012	3876	Cx. tarsalis	Isleton	50	CO2	8/3/2017	WNV
San Bernardino	SANB13	763	Cx. stigmatosoma	Highland	8	CO2	7/26/2017	WNV
San Bernardino	SANB136	734	Cx. quinquefasciatus	Fontana	6	CO2	7/25/2017	WNV
San Bernardino	SANB146	643	Cx. stigmatosoma		13	CO2	7/18/2017	WNV
San Bernardino	SANB146	644	Cx. quinquefasciatus		12	CO2	7/18/2017	WNV
San Bernardino	SANB146	645	Cx. tarsalis		5	CO2	7/18/2017	WNV
San Bernardino	SANB147	649	Cx. tarsalis		2	CO2	7/18/2017	WNV
San Bernardino	SANB147	774	Cx. tarsalis		15	CO2	7/26/2017	WNV
San Bernardino	SANB147	775	Cx. stigmatosoma		10	CO2	7/26/2017	WNV
San Bernardino	SANB147	776	Cx. quinquefasciatus		14	CO2	7/26/2017	WNV

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San Bernardino	SANB148	682	Cx. stigmatosoma		3	CO2	7/20/2017	WNV
San Bernardino	SANB3	720	Cx. stigmatosoma	Colton	41	CO2	7/25/2017	WNV
San Bernardino	SANB38	778	Cx. stigmatosoma	Grand Terrace	7	CO2	7/26/2017	WNV
San Bernardino	SANB43	636	Cx. stigmatosoma	Rialto	1	CO2	7/18/2017	WNV
San Bernardino	SANB43	637	Cx. quinquefasciatus	Rialto	1	CO2	7/18/2017	WNV
San Bernardino	SANB43	638	Cx. tarsalis	Rialto	5	CO2	7/18/2017	WNV
San Bernardino	SANB47	647	Cx. quinquefasciatus	San Bernardino	6	CO2	7/18/2017	WNV
San Bernardino	SANB47	648	Cx. stigmatosoma	San Bernardino	15	CO2	7/18/2017	WNV
San Bernardino	SANB65	640	Cx. quinquefasciatus	Rialto	21	CO2	7/18/2017	WNV
San Bernardino	SANB65	641	Cx. tarsalis	Rialto	11	CO2	7/18/2017	WNV
San Bernardino	WVAL1008	1545	Cx. quinquefasciatus	Ontario	50	CO2	7/26/2017	WNV
San Bernardino	WVAL2008	1554	Cx. stigmatosoma	Chino	7	CO2	7/26/2017	WNV
San Bernardino	WVAL2022	1550	Cx. quinquefasciatus	Fwy CA 60	11	GRVD	7/26/2017	WNV
San Bernardino	WVAL2024	1572	Cx. quinquefasciatus	Chino Hills	31	GRVD	7/26/2017	WNV
San Bernardino	WVAL2024	1573	Cx. stigmatosoma	Chino Hills	8	GRVD	7/26/2017	WNV
San Bernardino	WVAL3177	1541	Cx. quinquefasciatus	Ontario	23	BGSENT	7/21/2017	WNV
San Bernardino	WVAL3178	1538	Cx. quinquefasciatus	Ontario	6	BGSENT	7/21/2017	WNV
San Bernardino	WVAL3180	1537	Cx. quinquefasciatus	Ontario	28	BGSENT	7/21/2017	WNV
San Bernardino	WVAL3181	1588	Cx. quinquefasciatus	Chino	50	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3181	1589	Cx. quinquefasciatus	Chino	50	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3181	1592	Cx. quinquefasciatus	Chino	17	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3183	1595	Cx. quinquefasciatus	Chino	50	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3183	1597	Cx. quinquefasciatus	Chino	50	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3185	1593	Cx. quinquefasciatus	Chino	50	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3185	1594	Cx. quinquefasciatus	Chino	39	BGSENT	7/26/2017	WNV
San Bernardino	WVAL3186	1601	Cx. quinquefasciatus	Chino Hills	10	BGSENT	7/27/2017	WNV
San Bernardino	WVAL5005	1563	Cx. quinquefasciatus	Rancho Cucamonga	19	GRVD	7/26/2017	WNV
San Bernardino	WVAL5005	1564	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	7/26/2017	WNV
San Bernardino	WVAL5006	1560	Cx. quinquefasciatus	Rancho Cucamonga	34	GRVD	7/26/2017	WNV
San Bernardino	WVAL5009	1600	Cx. quinquefasciatus	Rancho Cucamonga	15	GRVD	7/27/2017	WNV
San Bernardino	WVAL6005	1565	Cx. quinquefasciatus	Ontario	18	GRVD	7/26/2017	WNV
San Bernardino	WVAL6009	1549	Cx. quinquefasciatus	Ontario	6	GRVD	7/26/2017	WNV
San Bernardino	WVAL6012	1571	Cx. quinquefasciatus	Ontario	20	GRVD	7/26/2017	WNV
San Bernardino	WVAL7002	1562	Cx. quinquefasciatus	Montclair	24	GRVD	7/26/2017	WNV
San Bernardino	WVAL75	1609	Cx. quinquefasciatus	Ontario	5	CO2	7/28/2017	WNV
San Bernardino	WVAL80	1605	Cx. quinquefasciatus	Ontario	18	GRVD	7/28/2017	WNV
San Bernardino	WVAL80	1606	Cx. quinquefasciatus	Ontario	20	GRVD	7/28/2017	WNV
San Bernardino	WVAL81	1603	Cx. quinquefasciatus	Ontario	30	GRVD	7/28/2017	WNV
San Bernardino	WVAL81	1604	Cx. quinquefasciatus	Ontario	17	GRVD	7/28/2017	WNV
San Bernardino	WVAL82	1602	Cx. quinquefasciatus	Ontario	30	GRVD	7/28/2017	WNV
San Bernardino	WVAL9003	1567	Cx. quinquefasciatus	Upland	30	GRVD	7/26/2017	WNV
San Bernardino	WVAL9006	1568	Cx. quinquefasciatus	Upland	11	GRVD	7/26/2017	WNV
San Joaquin	SJCM7021	1932	Cx. pipiens	Stockton	18	GRVD	7/31/2017	WNV
San Joaquin	SJCM8008	1917	Cx. tarsalis	Manteca	29	CO2	7/31/2017	WNV
San Joaquin	SJCM8018	1971	Cx. tarsalis	Stockton	100	CO2	7/31/2017	WNV
San Joaquin	SJCM8018	1972	Cx. tarsalis	Stockton	100	CO2	7/31/2017	WNV
San Joaquin	SJCM8018	1973	Cx. tarsalis	Stockton	100	CO2	7/31/2017	WNV
San Joaquin	SJCM8018	1974	Cx. tarsalis	Stockton	94	CO2	7/31/2017	WNV
San Joaquin	SJCM8018	1975	Cx. pipiens	Stockton	7	CO2	7/31/2017	WNV
San Joaquin	SJCM8022	1969	Cx. tarsalis	Holt	39	CO2	7/31/2017	WNV
San Joaquin	SJCM8027	1945	Cx. tarsalis	Stockton	25	CO2	7/31/2017	WNV
San Joaquin	SJCM8027	1946	Cx. pipiens	Stockton	8	CO2	7/31/2017	WNV
San Joaquin	SJCM8049	1940	Cx. pipiens	Stockton	12	CO2	7/31/2017	WNV
San Joaquin	SJCM8056	1923	Cx. tarsalis	Manteca	50	CO2	7/31/2017	WNV

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San Joaquin	SJCM8056	1924	Cx. tarsalis	Manteca	8	CO2	7/31/2017	WNV
San Joaquin	SJCM8056	1925	Cx. pipiens	Manteca	21	CO2	7/31/2017	WNV
San Joaquin	SJCM8094	1928	Cx. pipiens	Manteca	7	CO2	7/31/2017	WNV
San Joaquin	SJCM8106	1981	Cx. tarsalis	Escalon	20	CO2	8/2/2017	WNV
San Joaquin	SJCM8111	1962	Cx. tarsalis	Stockton	50	CO2	7/31/2017	WNV
San Joaquin	SJCM8198	1938	Cx. tarsalis	Stockton	9	CO2	7/31/2017	WNV
San Joaquin	SJCM8199	1922	Cx. tarsalis	Manteca	21	CO2	7/31/2017	WNV
San Joaquin	SJCM8209	1996	Cx. tarsalis	Lodi	44	CO2	8/2/2017	WNV
San Joaquin	SJCM8209	1997	Cx. pipiens	Lodi	8	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1985	Cx. tarsalis	Escalon	50	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1986	Cx. tarsalis	Escalon	50	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1987	Cx. tarsalis	Escalon	50	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1988	Cx. tarsalis	Escalon	50	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1989	Cx. tarsalis	Escalon	35	CO2	8/2/2017	WNV
San Joaquin	SJCM8218	1990	Cx. pipiens	Escalon	37	CO2	8/2/2017	WNV
San Joaquin	SJCM9906	1929	Cx. tarsalis	French Camp	7	CO2	7/31/2017	WNV
Stanislaus	TRLK1305	633	Cx. tarsalis	Patterson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK1615	621	Cx. tarsalis	Modesto	50	CO2	8/1/2017	WNV
Stanislaus	TRLK1616	622	Cx. tarsalis	Modesto	43	CO2	8/1/2017	WNV
Stanislaus	TRLK1673	650	Cx. tarsalis	Patterson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK1673	652	Cx. pipiens	Patterson	44	CO2	8/1/2017	WNV
Stanislaus	TRLK17152	589	Cx. pipiens	Denair	50	CO2	7/26/2017	WNV
Stanislaus	TRLK17152	590	Cx. pipiens	Denair	26	CO2	7/26/2017	WNV
Stanislaus	TRLK17156	609	Cx. tarsalis	Turlock	50	CO2	7/27/2017	WNV
Stanislaus	TRLK17156	610	Cx. pipiens	Turlock	44	CO2	7/27/2017	WNV
Stanislaus	TRLK17158	605	Cx. tarsalis	Turlock	50	CO2	7/27/2017	WNV
Stanislaus	TRLK2	637	Cx. tarsalis	Vernalis	50	CO2	8/1/2017	WNV
Stanislaus	TRLK2	638	Cx. tarsalis	Vernalis	48	CO2	8/1/2017	WNV
Stanislaus	TRLK305	628	Cx. tarsalis	Grayson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK305	629	Cx. tarsalis	Grayson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK424	646	Cx. tarsalis	Patterson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK424	648	Cx. tarsalis	Patterson	50	CO2	8/1/2017	WNV
Stanislaus	TRLK437	645	Cx. tarsalis	Patterson	17	CO2	8/1/2017	WNV
Stanislaus	TRLK502	639	Cx. tarsalis	Modesto	50	CO2	8/1/2017	WNV
Stanislaus	TRLK502	640	Cx. tarsalis	Modesto	50	CO2	8/1/2017	WNV
Stanislaus	TRLK502	641	Cx. tarsalis	Modesto	50	CO2	8/1/2017	WNV
Stanislaus	TRLK502	642	Cx. tarsalis	Modesto	37	CO2	8/1/2017	WNV
Stanislaus	TRLK703	600	Cx. pipiens	Turlock	50	CO2	7/27/2017	WNV
Stanislaus	TRLK806	635	Cx. tarsalis	Grayson	35	CO2	8/1/2017	WNV
Stanislaus	TRLK9732	617	Cx. tarsalis	Newman	47	CO2	8/1/2017	WNV
Stanislaus	TRLK9739	632	Cx. pipiens	Modesto	16	CO2	8/1/2017	WNV
Stanislaus	TRLK9742	612	Cx. tarsalis	Crows Landing	31	CO2	8/1/2017	WNV
Stanislaus	TRLK9768	627	Cx. tarsalis	Modesto	19	CO2	8/1/2017	SLEV
Stanislaus	TRLK9768	627	Cx. tarsalis	Modesto	19	CO2	8/1/2017	WNV
Sutter	SUYA14	271	Cx. tarsalis	Sutter	50	REST	7/31/2017	WNV
Sutter	SUYA24	268	Cx. tarsalis	Yuba City	50	REST	7/31/2017	WNV
Tulare	DLNO13	189	Cx. quinquefasciatus	Richgrove	50	GRVD	8/1/2017	WNV
Tulare	DLNO16	191	Cx. quinquefasciatus	Earlimart	15	GRVD	8/1/2017	WNV
Tulare	DLNO8	182	Cx. quinquefasciatus	Delano	50	CO2	7/27/2017	WNV
Tulare	DLTA6404	1935	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1938	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1939	Cx. quinquefasciatus	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1941	Cx. stigmatosoma	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1945	Cx. tarsalis	Dinuba	19	CO2	8/1/2017	WNV

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Tulare	DLTA6404	1946	Cx. quinquefasciatus	Dinuba	47	CO2	8/1/2017	WNV
Tulare	DLTA6404	1949	Cx. quinquefasciatus	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1952	Cx. quinquefasciatus	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1966	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6404	1968	Cx. tarsalis	Dinuba	29	CO2	8/1/2017	WNV
Tulare	DLTA6407	2009	Cx. quinquefasciatus	Dinuba	11	GRVD	8/2/2017	WNV
Tulare	DLTA6408	1923	Cx. quinquefasciatus	Dinuba	34	GRVD	7/28/2017	WNV
Tulare	DLTA6408	1947	Cx. quinquefasciatus	Dinuba	11	CO2	8/1/2017	WNV
Tulare	DLTA6409	1958	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6409	1959	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6409	1961	Cx. tarsalis	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6409	1962	Cx. quinquefasciatus	Dinuba	50	CO2	8/1/2017	WNV
Tulare	DLTA6416	1925	Cx. quinquefasciatus	Dinuba	22	GRVD	7/28/2017	WNV
Tulare	DLTA7502	1924	Cx. quinquefasciatus	Seville	12	GRVD	7/28/2017	WNV
Tulare	DLTA8413	1928	Cx. quinquefasciatus	Visalia	29	GRVD	7/28/2017	WNV
Tulare	DLTA8423	1926	Cx. quinquefasciatus	Visalia	32	GRVD	7/28/2017	WNV
Tulare	DLTA8424	1922	Cx. quinquefasciatus	Visalia	21	GRVD	7/28/2017	WNV
Tulare	DLTA8427	1933	Cx. quinquefasciatus	Visalia	18	GRVD	7/28/2017	WNV
Tulare	DLTA8427	1983	Cx. quinquefasciatus	Visalia	44	GRVD	8/1/2017	WNV
Tulare	DLTA8436	1990	Cx. quinquefasciatus	Visalia	35	GRVD	8/1/2017	WNV
Tulare	DLTA8521	2017	Cx. quinquefasciatus	Visalia	26	GRVD	8/2/2017	WNV
Tulare	DLTA8529	1917	Cx. quinquefasciatus	Visalia	48	GRVD	7/28/2017	WNV
Tulare	DLTA8529	1918	Cx. quinquefasciatus	Visalia	10	GRVD	7/28/2017	WNV
Tulare	DLTA8532	1991	Cx. quinquefasciatus	Visalia	20	GRVD	8/1/2017	WNV
Tulare	DLTA8533	2006	Cx. quinquefasciatus	Visalia	14	GRVD	8/2/2017	WNV
Tulare	DLTA8534	1998	Cx. quinquefasciatus	Visalia	50	GRVD	8/2/2017	WNV
Tulare	DLTA8534	1999	Cx. quinquefasciatus	Visalia	45	GRVD	8/2/2017	WNV
Tulare	DLTA9402	1910	Cx. quinquefasciatus	Visalia	10	GRVD	7/28/2017	WNV
Tulare	DLTA9403	1976	Cx. quinquefasciatus	Visalia	33	GRVD	8/1/2017	WNV
Tulare	DLTA9403	2003	Cx. quinquefasciatus	Visalia	21	GRVD	8/2/2017	WNV
Tulare	DLTA9412	1974	Cx. quinquefasciatus	Visalia	11	GRVD	8/1/2017	WNV
Tulare	DLTA9505	1906	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2017	WNV
Tulare	DLTA9606	1919	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2017	WNV
Tulare	TLRE202403	159	Cx. quinquefasciatus		24	GRVD	8/1/2017	WNV
Yolo	SAYO103007	4061	Cx. tarsalis	Dunnigan	50	CO2	8/3/2017	WNV
Yolo	SAYO114001	4066	Cx. tarsalis	Zamora	50	CO2	8/3/2017	WNV
Yolo	SAYO116006	4097	Cx. tarsalis	Knights Landing	50	CO2	8/3/2017	WNV
Yolo	SAYO125029	3977	Cx. tarsalis	woodland	50	CO2	8/3/2017	WNV
Yolo	SAYO125029	3979	Cx. tarsalis	woodland	43	CO2	8/3/2017	WNV
Yolo	SAYO146006	3801	Cx. tarsalis	Davis	50	CO2	8/1/2017	WNV
Yolo	SAYO146017	3793	Cx. tarsalis	Davis	50	CO2	8/1/2017	WNV
Yuba	SUYA108	288	Cx. tarsalis	Plumas Lake	37	CO2	7/31/2017	SLEV
Yuba	SUYA37	273	Cx. tarsalis	Marysville	45	CO2	7/31/2017	WNV
Yuba	SUYA39	292	Cx. tarsalis	Marysville	40	CO2	7/31/2017	WNV
Yuba	SUYA39	293	Cx. tarsalis	Marysville	39	CO2	7/31/2017	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO0003	Oroville	7/25/2017	WNV	1137	
Butte	BUCO0006	Chico	7/25/2017	WNV	1156	
Los Angeles	LACW1002	Torrance	7/18/2017	WNV	2510	
Merced	MERC0502	Hilmar	7/27/2017	WNV	1889	1892
Yuba	SUYA0007	Marysville	7/27/2017	WNV	1709	

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 Arbovirus Research and Training laboratory (DART) for West Nile virus by the singleplex qRT-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 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 submitted to DART are tested for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex qRT-PCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested for chikungunya, dengue, and Zika viral RNA by a separate qRT-PCR.

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.