

California Arbovirus Surveillance Bulletin #21

Week 30 Friday, July 29, 2016



Weekly Update

Humans

The first confirmed human cases of West Nile virus (WNV) illness in 2016 have been reported from Fresno, Los Angeles, and Yuba counties. Of the 3 case-patients, 2 (67%) had neuroinvasive illness. In addition, 2 asymptomatic WNV-positive blood donors have been reported by Yolo County. At this time last year, 8 cases of WNV illness had been reported from 5 counties.

Dead Birds

This week, a total of 59 dead birds tested positive for WNV from the following 16 counties: Alameda (2), Butte (1), Contra Costa (1), Lake (1), Los Angeles (8), Madera (1), Orange (6), Placer (6), Sacramento (11), San Diego (9), San Joaquin (2), San Mateo (3), Santa Clara (1), Stanislaus (2), Tulare (1), and Yolo (4). **This is the first WNV positive bird from Tulare County this year.** In 2016, 715 dead birds have tested positive for WNV from 26 counties, whereas at this time last year, 301 WNV positive birds had been reported from 34 counties.

Mosquito Pools

West Nile virus

A total of 330 WNV positive mosquito pools were reported this week from the following 19 counties: Alameda (2), Butte (4), Fresno (11), Kern (6), Lake (5), Los Angeles (27), Madera (6), Orange (28), Placer (23), Riverside (3), Sacramento (41), San Bernardino (5), San Joaquin (44), San Mateo (2), Stanislaus (50), Sutter (15), Tulare (10), Yolo (47), and Yuba (1). **These are the first WNV positive mosquito pools reported from Alameda and San Mateo counties in 2016.** To date this year, 1,487 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 1,058 WNV positive mosquito pools had been reported from 27 counties.

St. Louis encephalitis virus

A total of 20 SLEV positive mosquito pools were reported this week from Kern (6) and Riverside (14) counties. To date this year, 66 SLEV positive mosquito pools have been reported from Kern (42) and Riverside (24) counties.

Sentinel Chickens

A total of 43 WNV seroconversions were reported this week from 20 flocks in 8 counties: Butte (4), Colusa (5), Contra Costa (2), Glenn (5), Merced (13), Sutter (5), Tehama (2), and Yuba (7). **This is the first detection of WNV activity in Colusa and Tehama counties in 2016, and the first WNV positive chickens reported from Butte, Contra Costa, Glenn, and Yuba counties this year.** To date this year, 73 WNV seroconversions have been detected in 28 flocks located in 11 counties, whereas at this time last year, 45 WNV seroconversions had been detected in 16 flocks located in 9 counties.

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YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		5	2	
Butte		3	17	4
Colusa				5
Contra Costa		5	2	2
Fresno	1	3	98	
Glenn			11	5
Kern			34	
Kings		3	42	
Lake		3	9	
Los Angeles	1	51	106	10
Madera		2	28	
Marin		2		
Merced		3	4	14
Napa			2	
Orange		19	60	
Placer		11	53	
Riverside		4	22	
Sacramento		293	284	
San Bernardino			44	2
San Diego		175	44	8
San Joaquin		20	149	
San Mateo		9	2	
Santa Clara		48	8	
Santa Cruz		1	2	
Shasta			1	
Solano		1	3	
Sonoma			1	
Stanislaus		6	112	
Sutter		6	55	14
Tehama				2
Tulare		1	180	
Ventura		10		
Yolo		30	103	
Yuba	1	1	9	7
Totals	3	715	1,487	73

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	6,168	5,865
# Positive Counties	36	34
# Human Cases	8	3
# Positive Dead Birds / # Tested	301 / 1,495	715 / 1,684
# Positive Mosquito Pools / # Tested	1,058 / 16,620	1,487 / 24,644
# Seroconversions / # Tested	45 / 7,093	73 / 5,348

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	3	0	0
	YTD	3	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	115	59
	YTD	1,684	715

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	573	43	0	0
	YTD	5,348	73	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	330 / 1,757	20 / 1,145	0 / 1,145	0 / 28	0 / 28	0 / 28
	YTD	1,487 / 24,644	66 / 14,967	0 / 14,967	0 / 141	0 / 141	0 / 141

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94539	American Crow	7/25/2016	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	7/21/2016	WNV
Butte	Butte Co MVCD	Gridley	95948	Western Scrub-Jay	7/25/2016	WNV
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	7/25/2016	WNV
Lake	Lake Co VCD	Lucerne	95458	American Crow	7/20/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Sunland-Tujunga	91040	American Crow	7/19/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Agoura Hills	91301	American Crow	7/14/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90028	Cooper's Hawk	7/14/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	LOS ANGELES	90049	American Crow	7/19/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Valley Glen	91401	Cooper's Hawk	7/26/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	West Hills	91307	American Crow	7/14/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Westlake Village	91361	American Crow	7/20/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Westlake Village	91362	American Crow	7/13/2016	WNV
Madera	Madera Co MVCD	Chowchilla	93610	Western Scrub-Jay	7/21/2016	WNV
Orange	Orange Co VCD	Cypress	90630	House Finch	7/13/2016	WNV
Orange	Orange Co VCD	Dana point	92624	American Crow	7/26/2016	WNV
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	7/14/2016	WNV
Orange	Orange Co VCD	Ladera Ranch	92694	American Crow	7/22/2016	WNV
Orange	Orange Co VCD	Ladera Ranch	92694	American Crow	7/22/2016	WNV
Orange	Orange Co VCD	Orange	92867	Cooper's Hawk	7/9/2016	WNV
Placer	Placer MVCD	Granite Bay	95746	Western Scrub-Jay	7/25/2016	WNV
Placer	Placer MVCD	Loomis	95650	Lesser Goldfinch	7/26/2016	WNV
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	7/26/2016	WNV
Placer	Placer MVCD	Roseville	95747	American Robin	7/26/2016	WNV
Placer	Placer MVCD	Roseville	95747	Bushtit	7/21/2016	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	7/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	House Finch	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	7/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	House Sparrow	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Yellow-billed Magpie	7/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	Black Phoebe	7/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Western Scrub-Jay	7/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/21/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	7/28/2016	WNV
San Diego	San Diego Co VCP	Escondido	92025	American Crow	7/28/2016	WNV
San Diego	San Diego Co VCP	Escondido	92026	American Crow	7/25/2016	WNV
San Diego	San Diego Co VCP	Escondido	92026	American Crow	7/25/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92056	American Crow	7/25/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92057	American Crow	7/27/2016	WNV

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San Diego	San Diego Co VCP	Oceanside	92057	American Crow	7/27/2016	WNV
San Diego	San Diego Co VCP	San Diego	92103	American Crow	7/28/2016	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	7/25/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Western Scrub-Jay	7/27/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95242	American Crow	7/28/2016	WNV
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	7/20/2016	WNV
San Mateo	San Mateo Co MAD	Burlingame	94010	House Sparrow	7/21/2016	WNV
San Mateo	San Mateo Co MAD	Redwood City	94061	American Crow	7/19/2016	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95054	American Crow	7/21/2016	WNV
Stanislaus	Turlock MAD	Ceres	95307	Yellow-billed Magpie	7/20/2016	WNV
Stanislaus	Turlock MAD	Turlock	95382	Western Scrub-Jay	7/18/2016	WNV
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	7/22/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Northern Mockingbird	7/22/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Unknown	7/21/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Western Scrub-Jay	7/22/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Crow	7/24/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO8073	341	Cx. pipiens		17	CO2	7/27/16	WNV
Alameda	ALCO8073	346	Cx. tarsalis		29	CO2	7/27/16	WNV
Butte	BUCO112	194	Cx. tarsalis	Wyandotte	40	CO2	7/25/16	WNV
Butte	BUCO123	190	Cx. tarsalis	oroville	50	CO2	7/20/16	WNV
Butte	BUCO13	181	Cx. tarsalis	Chico	50	CO2	7/19/16	WNV
Butte	BUCO78	193	Cx. tarsalis	Oroville	50	CO2	7/20/16	WNV
Fresno	FRWS100006	143	Cx. tarsalis	Dos Palos	50	CO2	7/26/16	WNV
Fresno	FRWS100006	146	Cx. tarsalis	Dos Palos	50	CO2	7/26/16	WNV
Fresno	FRWS1101	139	Cx. tarsalis	Dos Palos	50	CO2	7/26/16	WNV
Fresno	FRWS1101	141	Cx. tarsalis	Dos Palos	50	CO2	7/26/16	WNV
Fresno	FRWS1101	142	Cx. tarsalis	Dos Palos	50	CO2	7/26/16	WNV
Fresno	FRWS3201	156	Cx. quinquefasciatus	Firebaugh	50	GRVD	7/26/16	WNV
Fresno	FRWS400017	149	Cx. quinquefasciatus	Mendota	25	CO2	7/26/16	WNV
Fresno	FRWS410001	151	Cx. quinquefasciatus	Kerman	50	GRVD	7/26/16	WNV
Fresno	FRWS4102	148	Cx. tarsalis	Kerman	35	CO2	7/26/16	WNV
Fresno	FRWS5110	154	Cx. tarsalis	Tranquillity	50	CO2	7/26/16	WNV
Fresno	FRWS5110	157	Cx. quinquefasciatus	Tranquillity	16	GRVD	7/26/16	WNV
Kern	DLNO102	108	Cx. quinquefasciatus	McFarland	50	GRVD	7/22/16	WNV
Kern	KERN117	365	Cx. quinquefasciatus	Bakersfield	50	CO2	7/22/16	SLEV
Kern	KERN118	355	Cx. tarsalis	Buttonwillow	50	CO2	7/20/16	WNV
Kern	KERN2049	348	Cx. quinquefasciatus	Lamont	50	GRVD	7/19/16	SLEV
Kern	KERN2049	348	Cx. quinquefasciatus	Lamont	50	GRVD	7/19/16	WNV
Kern	KERN3010	353	Cx. quinquefasciatus	Bakersfield	20	CO2	7/20/16	SLEV
Kern	KERN3014	360	Cx. tarsalis	Bakersfield	50	CO2	7/21/16	WNV
Kern	KERN3026	364	Cx. quinquefasciatus	Arvin	50	CO2	7/22/16	SLEV
Kern	KERN33	366	Cx. quinquefasciatus	Arvin	50	CO2	7/22/16	WNV
Kern	KERN36	362	Cx. tarsalis	Bakersfield	35	CO2	7/22/16	WNV
Kern	KERN42	363	Cx. tarsalis	Bakersfield	50	CO2	7/22/16	SLEV
Kern	KERN43	359	Cx. quinquefasciatus	Shafter	37	CO2	7/21/16	SLEV
Lake	LAKE130	338	Cx. tarsalis	Lower Lake	50	CO2	7/26/16	WNV
Lake	LAKE202	300	Cx. tarsalis	Cobb	50	CO2	7/26/16	WNV
Lake	LAKE315	306	Cx. tarsalis	Kelseyville	36	CO2	7/26/16	WNV

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Lake	LAKE94	316	Cx. tarsalis	Upper Lake	50	CO2	7/26/16	WNV
Lake	LAKE94	317	Cx. tarsalis	Upper Lake	50	CO2	7/26/16	WNV
Los Angeles	GRLA2097	533	Cx. quinquefasciatus	La Mirada	50	GRVD	7/19/16	WNV
Los Angeles	GRLA2247	530	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/19/16	WNV
Los Angeles	GRLA2268	537	Cx. quinquefasciatus	Cerritos	50	GRVD	7/19/16	WNV
Los Angeles	GRLA2414	5513	Cx. quinquefasciatus	Granada Hills	38	GRVD	7/21/16	WNV
Los Angeles	GRLA2416	5509	Cx. quinquefasciatus	Panorama City	50	GRVD	7/21/16	WNV
Los Angeles	GRLA2419	5510	Cx. quinquefasciatus	Panorama City	50	GRVD	7/21/16	WNV
Los Angeles	GRLA2552	5500	Cx. quinquefasciatus	Glendale	36	GRVD	7/20/16	WNV
Los Angeles	GRLA2574	5504	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/21/16	WNV
Los Angeles	GRLA2637	5508	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/21/16	WNV
Los Angeles	GRLA2650	5507	Cx. quinquefasciatus	Encino	50	GRVD	7/21/16	WNV
Los Angeles	GRLA2889	565	Cx. quinquefasciatus	Lakewood	24	GRVD	7/22/16	WNV
Los Angeles	GRLA2890	566	Cx. quinquefasciatus	Lakewood	50	GRVD	7/22/16	WNV
Los Angeles	GRLA2937	5501	Cx. quinquefasciatus	Burbank	50	GRVD	7/20/16	WNV
Los Angeles	GRLA2952	532	Cx. quinquefasciatus	South Whittier	50	GRVD	7/19/16	WNV
Los Angeles	GRLA2953	535	Cx. quinquefasciatus	Santa Fe Springs	38	GRVD	7/19/16	WNV
Los Angeles	GRLA3034	5512	Cx. quinquefasciatus	North Hills	33	GRVD	7/21/16	WNV
Los Angeles	GRLA3035	5511	Cx. quinquefasciatus	North Hills	50	GRVD	7/21/16	WNV
Los Angeles	GRLA3046	561	Cx. quinquefasciatus	Bellflower	50	GRVD	7/21/16	WNV
Los Angeles	GRLA3049	550	Cx. quinquefasciatus	Downey	49	GRVD	7/21/16	WNV
Los Angeles	GRLA3074	547	Cx. quinquefasciatus	Lincoln Heights	37	GRVD	7/20/16	WNV
Los Angeles	SGVA4	252	Cx. quinquefasciatus	Arcadia	50	GRVD	7/27/16	WNV
Los Angeles	SGVA4	253	Cx. quinquefasciatus	Arcadia	35	GRVD	7/27/16	WNV
Los Angeles	SGVA64	243	Cx. quinquefasciatus	West Covina	50	GRVD	7/20/16	WNV
Los Angeles	SGVA64	247	Cx. quinquefasciatus	West Covina	41	GRVD	7/20/16	WNV
Los Angeles	SGVA8	220	Cx. quinquefasciatus	Pomona	50	GRVD	7/20/16	WNV
Los Angeles	SGVA8	229	Cx. quinquefasciatus	Pomona	50	GRVD	7/20/16	WNV
Los Angeles	SGVA898	259	Cx. quinquefasciatus	San Gabriel	50	GRVD	7/27/16	WNV
Madera	MADR1085	191	Cx. quinquefasciatus	madera	45	BGSENT	7/22/16	WNV
Madera	MADR1117	185	Cx. quinquefasciatus	Firebaugh	50	CO2	7/21/16	WNV
Madera	MADR1117	186	Cx. tarsalis	Firebaugh	50	CO2	7/21/16	WNV
Madera	MADR298	194	Cx. quinquefasciatus	Chowchilla	50	CO2	7/26/16	WNV
Madera	MADR299	193	Cx. quinquefasciatus	Chowchilla	25	CO2	7/26/16	WNV
Madera	MADR3334	184	Cx. quinquefasciatus	Madera	15	CO2	7/20/16	WNV
Orange	ORCO1010	2302	Cx. quinquefasciatus	Huntington Beach	50	GRVD	7/26/16	WNV
Orange	ORCO1011	2171	Cx. quinquefasciatus	La Habra	30	GRVD	7/20/16	WNV
Orange	ORCO1011	2172	Cx. quinquefasciatus	La Habra	50	GRVD	7/19/16	WNV
Orange	ORCO1011	2262	Cx. quinquefasciatus	La Habra	8	GRVD	7/23/16	WNV
Orange	ORCO1011	2264	Cx. quinquefasciatus	La Habra	6	GRVD	7/23/16	WNV
Orange	ORCO1011	2267	Cx. quinquefasciatus	La Habra	26	GRVD	7/23/16	WNV
Orange	ORCO1011	2269	Cx. quinquefasciatus	La Habra	50	GRVD	7/23/16	WNV
Orange	ORCO1011	2270	Cx. quinquefasciatus	La Habra	50	GRVD	7/23/16	WNV
Orange	ORCO1011	2271	Cx. quinquefasciatus	La Habra	50	GRVD	7/23/16	WNV
Orange	ORCO1011	2272	Cx. quinquefasciatus	La Habra	10	GRVD	7/23/16	WNV
Orange	ORCO1011	2351	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/16	WNV
Orange	ORCO1011	2367	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/16	WNV
Orange	ORCO1011	2368	Cx. quinquefasciatus	La Habra	50	GRVD	7/26/16	WNV
Orange	ORCO1015	2306	Cx. quinquefasciatus	Orange	50	GRVD	7/26/16	WNV
Orange	ORCO1015	2307	Cx. quinquefasciatus	Orange	50	GRVD	7/26/16	WNV
Orange	ORCO1025	2252	Cx. quinquefasciatus	Costa Mesa	12	GRVD	7/21/16	WNV
Orange	ORCO1027	2285	Cx. quinquefasciatus	La Palma	50	GRVD	7/26/16	WNV

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Orange	ORCO1027	2362	Cx. quinquefasciatus	La Palma	30	GRVD	7/26/16	WNV
Orange	ORCO1027	2363	Cx. quinquefasciatus	La Palma	30	GRVD	7/26/16	WNV
Orange	ORCO1027	2373	Cx. quinquefasciatus	La Palma	50	GRVD	7/26/16	WNV
Orange	ORCO1030	2249	Cx. quinquefasciatus	Dana Point	17	GRVD	7/21/16	WNV
Orange	ORCO1037	2281	Cx. quinquefasciatus	La Habra	48	GRVD	7/26/16	WNV
Orange	ORCO1038	2290	Cx. quinquefasciatus	La Palma	14	GRVD	7/26/16	WNV
Orange	ORCO207	2277	Cx. quinquefasciatus	Santa Ana	26	CO2	7/26/16	WNV
Orange	ORCO217	2250	Cx. quinquefasciatus	Santa Ana	47	GRVD	7/21/16	WNV
Orange	ORCO219	2364	Cx. quinquefasciatus	Irvine	50	GRVD	7/26/16	WNV
Orange	ORCO219	2365	Cx. quinquefasciatus	Irvine	42	GRVD	7/26/16	WNV
Orange	ORCO29	2187	Cx. quinquefasciatus	Santa Ana	50	CO2	7/20/16	WNV
Placer	PLCR1023	1354	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR1023	1355	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR1023	1357	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR1070	1311	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR1070	1313	Cx. tarsalis	Roseville	23	CO2	7/26/16	WNV
Placer	PLCR1114	1299	Cx. tarsalis	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR1114	1300	Cx. tarsalis	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR139	1323	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR139	1324	Cx. tarsalis	Roseville	50	CO2	7/26/16	WNV
Placer	PLCR139	1325	Cx. tarsalis	Roseville	48	CO2	7/26/16	WNV
Placer	PLCR17	1293	Cx. tarsalis	Sheridan	48	CO2	7/26/16	WNV
Placer	PLCR191218	1336	Cx. tarsalis		50	CO2	7/26/16	WNV
Placer	PLCR191218	1337	Cx. tarsalis		50	CO2	7/26/16	WNV
Placer	PLCR191998	1362	Cx. tarsalis	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR195540	1252	Cx. pipiens		3	CO2	7/21/16	WNV
Placer	PLCR25	1327	Cx. tarsalis	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR25	1328	Cx. tarsalis	Lincoln	16	CO2	7/26/16	WNV
Placer	PLCR30	1289	Cx. pipiens	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR30	1292	Cx. tarsalis	Lincoln	35	CO2	7/26/16	WNV
Placer	PLCR525	1318	Cx. pipiens	Lincoln	50	CO2	7/26/16	WNV
Placer	PLCR668	1344	Cx. tarsalis	Elverta	50	CO2	7/26/16	WNV
Placer	PLCR88	1268	Cx. stigmatosoma	Lincoln	7	CO2	7/21/16	WNV
Placer	PLCR95	1304	Cx. tarsalis	Lincoln	50	CO2	7/26/16	WNV
Riverside	COAV121	2791	Cx. tarsalis	Mecca	50	CO2	7/27/16	SLEV
Riverside	COAV123	2756	Cx. tarsalis	Mecca	50	CO2	7/26/16	SLEV
Riverside	COAV30	2798	Cx. tarsalis	Mecca	7	CO2	7/26/16	SLEV
Riverside	COAV33	2782	Cx. tarsalis	Mecca	50	CO2	7/26/16	SLEV
Riverside	COAV35	2783	Cx. tarsalis	Mecca	26	CO2	7/26/16	SLEV
Riverside	COAV37	2787	Cx. tarsalis	Mecca	50	CO2	7/26/16	SLEV
Riverside	COAV37	2788	Cx. tarsalis	Mecca	50	CO2	7/26/16	SLEV
Riverside	COAV45	2801	Cx. tarsalis	Mecca	49	CO2	7/27/16	SLEV
Riverside	COAV46	2796	Cx. tarsalis	Mecca	50	CO2	7/27/16	SLEV
Riverside	COAV46	2797	Cx. tarsalis	Mecca	16	CO2	7/27/16	SLEV
Riverside	COAV48	2795	Cx. tarsalis	Mecca	34	CO2	7/27/16	SLEV
Riverside	COAV536	2809	Cx. tarsalis	Thermal	50	CO2	7/28/16	WNV
Riverside	COAV536	2811	Cx. quinquefasciatus	Thermal	50	CO2	7/28/16	SLEV
Riverside	COAV536	2812	Cx. quinquefasciatus	Thermal	21	CO2	7/28/16	WNV
Riverside	COAV540	2779	Cx. tarsalis	Mecca	13	CO2	7/26/16	SLEV
Riverside	COAV611	2800	Cx. tarsalis	Mecca	50	CO2	7/27/16	SLEV
Riverside	NWST26	140	Cx. tarsalis	Corona	50	CO2	7/20/16	WNV
Sacramento	SAYO222001	4095	Cx. pipiens	Sacramento	40	GRVD	7/26/16	WNV
Sacramento	SAYO222011	4098	Cx. pipiens	Sacramento	50	CO2	7/26/16	WNV
Sacramento	SAYO222011	4100	Cx. pipiens	Sacramento	10	CO2	7/26/16	WNV

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Sacramento	SAYO223006	4064	Cx. tarsalis	S. Watt Avenue	5	CO2	7/26/16	WNV
Sacramento	SAYO223007	4062	Cx. tarsalis	Sacramento	11	CO2	7/26/16	WNV
Sacramento	SAYO223007	4063	Cx. tarsalis	Sacramento	1	GRVD	7/26/16	WNV
Sacramento	SAYO223035	4078	Cx. tarsalis	Sacramento	11	CO2	7/26/16	WNV
Sacramento	SAYO232012	4271	Cx. pipiens	Elk Grove	3	GRVD	7/28/16	WNV
Sacramento	SAYO232028	4289	Cx. tarsalis	Sacramento	50	CO2	7/28/16	WNV
Sacramento	SAYO233001	3843	Cx. tarsalis	Elk Grove	23	CO2	7/22/16	WNV
Sacramento	SAYO233001	4244	Cx. pipiens	Elk Grove	39	GRVD	7/28/16	WNV
Sacramento	SAYO233015	4076	Cx. pipiens	Sacramento	36	CO2	7/26/16	WNV
Sacramento	SAYO233015	4077	Cx. pipiens	Sacramento	18	GRVD	7/26/16	WNV
Sacramento	SAYO233028	4070	Cx. tarsalis	Sacramento	4	CO2	7/26/16	WNV
Sacramento	SAYO233036	4264	Cx. pipiens	Elk Grove	10	CO2	7/28/16	WNV
Sacramento	SAYO233052	4066	Cx. tarsalis	Sacramento	9	CO2	7/26/16	WNV
Sacramento	SAYO233052	4069	Cx. pipiens	Sacramento	9	GRVD	7/26/16	WNV
Sacramento	SAYO233061	4059	Cx. tarsalis	Sacramento	11	CO2	7/26/16	WNV
Sacramento	SAYO233065	4261	Cx. pipiens	Elk Grove	2	GRVD	7/28/16	WNV
Sacramento	SAYO233078	4082	Cx. tarsalis	Sacramento	6	CO2	7/26/16	WNV
Sacramento	SAYO233079	3866	Cx. tarsalis	Elk Grove	50	CO2	7/22/16	WNV
Sacramento	SAYO233079	3869	Cx. pipiens	Elk Grove	15	GRVD	7/22/16	WNV
Sacramento	SAYO234013	4054	Cx. pipiens	Elk Grove	24	CO2	7/26/16	WNV
Sacramento	SAYO234017	4058	Cx. pipiens	Sacramento	13	GRVD	7/26/16	WNV
Sacramento	SAYO235012	4118	Cx. tarsalis	Wilton	30	CO2	7/26/16	WNV
Sacramento	SAYO243010	4285	Cx. tarsalis	Elk Grove	32	CO2	7/28/16	WNV
Sacramento	SAYO243010	4286	Cx. tarsalis	Elk Grove	1	GRVD	7/28/16	WNV
Sacramento	SAYO243016	3881	Cx. tarsalis	Elk Grove	50	CO2	7/22/16	WNV
Sacramento	SAYO243017	3899	Cx. tarsalis	Elk Grove	38	CO2	7/22/16	WNV
Sacramento	SAYO243024	4251	Cx. tarsalis	Elk Grove	50	CO2	7/28/16	WNV
Sacramento	SAYO243024	4255	Cx. pipiens	Elk Grove	50	CO2	7/28/16	WNV
Sacramento	SAYO243025	4245	Cx. tarsalis	Elk Grove	28	CO2	7/28/16	WNV
Sacramento	SAYO243025	4246	Cx. pipiens	Elk Grove	45	CO2	7/28/16	WNV
Sacramento	SAYO245002	4102	Cx. tarsalis	Wilton	26	CO2	7/26/16	WNV
Sacramento	SAYO245026	4109	Cx. tarsalis	Wilton	50	CO2	7/26/16	WNV
Sacramento	SAYO245026	4112	Cx. pipiens	Wilton	49	CO2	7/26/16	WNV
Sacramento	SAYO253009	4144	Cx. tarsalis	Galt	18	CO2	7/26/16	WNV
Sacramento	SAYO254008	4157	Cx. tarsalis	Galt	9	CO2	7/26/16	WNV
Sacramento	SAYO254011	4151	Cx. pipiens	Galt	3	GRVD	7/26/16	WNV
Sacramento	SAYO255007	4153	Cx. tarsalis	Herald	22	CO2	7/26/16	WNV
Sacramento	SAYO255007	4154	Cx. tarsalis	Herald	2	GRVD	7/26/16	WNV
San Bernardino	WVAL2022	1572	Cx. quinquefasciatus	Fwy CA 60	7	GRVD	7/27/16	WNV
San Bernardino	WVAL6012	1558	Cx. quinquefasciatus	Ontario	32	CO2	7/26/16	WNV
San Bernardino	WVAL6014	1588	Cx. quinquefasciatus	Fwy CA 60	20	GRVD	7/27/16	WNV
San Bernardino	WVAL7002	1602	Cx. quinquefasciatus	Montclair	25	GRVD	7/27/16	WNV
San Bernardino	WVAL7002	1603	Cx. quinquefasciatus	Montclair	25	GRVD	7/27/16	WNV
San Joaquin	SJCM7022	1664	Cx. pipiens	Stockton	3	CO2	7/26/16	WNV
San Joaquin	SJCM8008	1707	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8008	1709	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8008	1710	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8008	1711	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8018	1641	Cx. tarsalis	Stockton	34	CO2	7/26/16	WNV
San Joaquin	SJCM8018	1765	Cx. tarsalis	Stockton	50	CO2	7/27/16	WNV
San Joaquin	SJCM8018	1766	Cx. tarsalis	Stockton	50	CO2	7/27/16	WNV
San Joaquin	SJCM8018	1769	Cx. tarsalis	Stockton	50	CO2	7/27/2016	WNV
San Joaquin	SJCM8020	1630	Cx. tarsalis	Acampo	50	CO2	7/26/16	WNV
San Joaquin	SJCM8020	1631	Cx. tarsalis	Acampo	50	CO2	7/26/16	WNV

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San Joaquin	SJCM8026	1644	Cx. tarsalis	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8037	1785	Cx. tarsalis	Lathrop	10	CO2	7/28/2016	WNV
San Joaquin	SJCM8041	1654	Cx. tarsalis	Lodi	50	CO2	7/26/16	WNV
San Joaquin	SJCM8056	1730	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8056	1731	Cx. tarsalis	Manteca	50	CO2	7/26/16	WNV
San Joaquin	SJCM8056	1732	Cx. tarsalis	Manteca	38	CO2	7/26/16	WNV
San Joaquin	SJCM8070	1795	Cx. pipiens	Galt	2	CO2	7/28/2016	WNV
San Joaquin	SJCM8076	1667	Cx. tarsalis	Stockton	22	CO2	7/26/16	WNV
San Joaquin	SJCM8079	1702	Cx. pipiens	Manteca	43	CO2	7/26/16	WNV
San Joaquin	SJCM8082	1663	Cx. tarsalis	Stockton	38	CO2	7/26/16	WNV
San Joaquin	SJCM8083	1687	Cx. tarsalis	Escalon	50	CO2	7/26/16	WNV
San Joaquin	SJCM8083	1690	Cx. pipiens	Escalon	50	CO2	7/26/16	WNV
San Joaquin	SJCM8083	1691	Cx. pipiens	Escalon	50	CO2	7/26/16	WNV
San Joaquin	SJCM8083	1693	Cx. pipiens	Escalon	50	CO2	7/26/16	WNV
San Joaquin	SJCM8083	1695	Cx. pipiens	Escalon	47	CO2	7/26/16	WNV
San Joaquin	SJCM8100	1762	Cx. pipiens	Tracy	8	CO2	7/27/16	WNV
San Joaquin	SJCM8109	1696	Cx. tarsalis	Escalon	24	CO2	7/26/16	WNV
San Joaquin	SJCM8111	1737	Cx. tarsalis	Stockton	51	CO2	7/26/16	WNV
San Joaquin	SJCM8111	1744	Cx. pipiens	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8111	1745	Cx. pipiens	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8111	1747	Cx. pipiens	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8111	1752	Cx. pipiens	Stockton	37	CO2	7/26/16	WNV
San Joaquin	SJCM8124	1788	Cx. tarsalis	Clements	8	CO2	7/28/2016	WNV
San Joaquin	SJCM8143	1650	Cx. tarsalis	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8143	1651	Cx. tarsalis	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8143	1652	Cx. tarsalis	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8143	1653	Cx. tarsalis	Stockton	33	CO2	7/26/16	WNV
San Joaquin	SJCM8159	1646	Cx. tarsalis	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8159	1647	Cx. tarsalis	Stockton	26	CO2	7/26/16	WNV
San Joaquin	SJCM8159	1648	Cx. pipiens	Stockton	50	CO2	7/26/16	WNV
San Joaquin	SJCM8159	1649	Cx. pipiens	Stockton	32	CO2	7/26/16	WNV
San Joaquin	SJCM8191	1635	Cx. tarsalis	Lodi	28	CO2	7/26/16	WNV
San Joaquin	SJCM9906	1699	Cx. tarsalis	French Camp	42	CO2	7/26/16	WNV
San Mateo	SANM277258	101	Cx. tarsalis	Atherton	2	CO2	7/26/16	WNV
San Mateo	SANM762698	100	Cx. pipiens	Atherton	1	CO2	7/26/16	WNV
Stanislaus	TRLK1615	541	Cx. tarsalis		50	CO2	7/21/16	WNV
Stanislaus	TRLK1615	542	Cx. tarsalis		50	CO2	7/21/2016	WNV
Stanislaus	TRLK1615	594	Cx. tarsalis		50	CO2	7/26/16	WNV
Stanislaus	TRLK1615	595	Cx. tarsalis		50	CO2	7/26/16	WNV
Stanislaus	TRLK1615	596	Cx. tarsalis		50	CO2	7/26/16	WNV
Stanislaus	TRLK1615	597	Cx. tarsalis		50	CO2	7/26/16	WNV
Stanislaus	TRLK1615	600	Cx. tarsalis		40	CO2	7/26/16	WNV
Stanislaus	TRLK1616	544	Cx. tarsalis	Patterson	50	CO2	7/21/16	WNV
Stanislaus	TRLK1616	545	Cx. tarsalis	Patterson	50	CO2	7/21/16	WNV
Stanislaus	TRLK1616	546	Cx. tarsalis	Patterson	46	CO2	7/21/2016	WNV
Stanislaus	TRLK1673	534	Cx. tarsalis	Patterson	50	CO2	7/21/16	WNV
Stanislaus	TRLK1673	593	Cx. tarsalis	Patterson	37	CO2	7/26/16	WNV
Stanislaus	TRLK1684	555	Cx. pipiens	Denair	50	CO2	7/21/16	WNV
Stanislaus	TRLK2	624	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK2	625	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK2	626	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK2	629	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	604	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	605	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV

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Stanislaus	TRLK305	606	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	607	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	608	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	609	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	610	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	611	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	612	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK305	614	Cx. tarsalis	Grayson	49	CO2	7/26/16	WNV
Stanislaus	TRLK319	588	Cx. tarsalis	Newman	50	CO2	7/26/16	WNV
Stanislaus	TRLK319	589	Cx. tarsalis	Newman	50	CO2	7/26/16	WNV
Stanislaus	TRLK322	632	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK322	633	Cx. tarsalis	Modesto	50	CO2	7/26/16	WNV
Stanislaus	TRLK322	635	Cx. tarsalis	Modesto	36	CO2	7/26/16	WNV
Stanislaus	TRLK424	547	Cx. tarsalis	Patterson	50	CO2	7/21/2016	WNV
Stanislaus	TRLK424	552	Cx. tarsalis	Patterson	50	CO2	7/21/2016	WNV
Stanislaus	TRLK424	641	Cx. tarsalis	Patterson	50	CO2	7/26/16	WNV
Stanislaus	TRLK424	644	Cx. tarsalis	Patterson	50	CO2	7/26/16	WNV
Stanislaus	TRLK424	646	Cx. tarsalis	Patterson	50	CO2	7/26/16	WNV
Stanislaus	TRLK424	647	Cx. tarsalis	Patterson	50	CO2	7/26/16	WNV
Stanislaus	TRLK424	649	Cx. tarsalis	Patterson	28	CO2	7/26/16	WNV
Stanislaus	TRLK502	636	Cx. tarsalis	Vernalis	50	CO2	7/26/16	WNV
Stanislaus	TRLK502	639	Cx. tarsalis	Vernalis	29	CO2	7/26/16	WNV
Stanislaus	TRLK804	560	Cx. pipiens	Turlock	50	CO2	7/21/16	WNV
Stanislaus	TRLK806	570	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK806	571	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK806	573	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK806	574	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK806	575	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Stanislaus	TRLK9739	618	Cx. tarsalis	Grayson	16	CO2	7/26/16	WNV
Stanislaus	TRLK9742	583	Cx. pipiens	Crows Landing	50	CO2	7/26/16	WNV
Stanislaus	TRLK9768	602	Cx. tarsalis	Grayson	50	CO2	7/26/16	WNV
Sutter	SUYA107	284	Cx. tarsalis	Live Oak	38	REST	7/25/16	WNV
Sutter	SUYA107	285	Cx. tarsalis	Live Oak	38	REST	7/25/16	WNV
Sutter	SUYA14	289	Cx. tarsalis	Sutter	44	REST	7/25/16	WNV
Sutter	SUYA14	290	Cx. tarsalis	Sutter	43	REST	7/25/16	WNV
Sutter	SUYA15	276	Cx. tarsalis	Robbins	35	REST	7/25/16	WNV
Sutter	SUYA24	277	Cx. tarsalis	Yuba City	47	REST	7/25/16	WNV
Sutter	SUYA24	313	Cx. tarsalis	Yuba City	48	REST	7/26/16	WNV
Sutter	SUYA3	291	Cx. tarsalis	Yuba City	14	CO2	7/25/16	WNV
Sutter	SUYA30	282	Cx. tarsalis	Live Oak	27	REST	7/25/16	WNV
Sutter	SUYA31	275	Cx. tarsalis	Rio Oso	40	REST	7/25/16	WNV
Sutter	SUYA63	286	Cx. tarsalis	Live Oak	44	REST	7/25/16	WNV
Sutter	SUYA63	287	Cx. tarsalis	Live Oak	42	REST	7/25/16	WNV
Sutter	SUYA63	288	Cx. tarsalis	Live Oak	42	REST	7/25/16	WNV
Sutter	SUYA70	293	Cx. tarsalis	Yuba City	29	CO2	7/25/16	WNV
Sutter	SUYA84	272	Cx. tarsalis	Yuba City	32	REST	7/25/2016	WNV
Tulare	DLNO16	116	Cx. quinquefasciatus	Earlimart	16	GRVD	7/26/16	WNV
Tulare	DLNO75	117	Cx. quinquefasciatus	Earlimart	50	GRVD	7/26/16	WNV
Tulare	DLTA7625	2109	Cx. quinquefasciatus	Woodlake	50	GRVD	7/27/16	WNV
Tulare	DLTA7625	2110	Cx. quinquefasciatus	Woodlake	15	GRVD	7/27/16	WNV
Tulare	DLTA8501	2082	Cx. quinquefasciatus	Ivanhoe	22	GRVD	7/22/16	WNV
Tulare	DLTA8521	2094	Cx. quinquefasciatus	Visalia	42	GRVD	7/22/16	WNV
Tulare	DLTA8529	2107	Cx. quinquefasciatus	Visalia	12	GRVD	7/27/16	WNV
Tulare	DLTA9604	2105	Cx. quinquefasciatus	Exeter	18	GRVD	7/26/16	WNV

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Tulare	DLTA9606	2084	Cx. quinquefasciatus	Farmersville	23	GRVD	7/22/16	WNV
Tulare	TLRE37	75	Cx. quinquefasciatus	Tulare	30	CO2	7/27/2016	WNV
Yolo	SAYO103005	4159	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103005	4181	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103007	4173	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103007	4175	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103007	4176	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103010	4190	Cx. tarsalis	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103010	4196	Cx. pipiens	Dunnigan	50	CO2	7/26/16	WNV
Yolo	SAYO103010	4198	Cx. pipiens	Dunnigan	50	GRVD	7/26/16	WNV
Yolo	SAYO114001	4202	Cx. tarsalis	Zamora	50	CO2	7/26/16	WNV
Yolo	SAYO114004	4183	Cx. tarsalis	Zamora	50	CO2	7/26/16	WNV
Yolo	SAYO114004	4185	Cx. tarsalis	Zamora	50	CO2	7/26/16	WNV
Yolo	SAYO114004	4187	Cx. tarsalis	Zamora	50	CO2	7/26/16	WNV
Yolo	SAYO115008	4210	Cx. tarsalis	Zamora	50	CO2	7/26/16	WNV
Yolo	SAYO124007	4037	Cx. tarsalis	Woodland	50	CO2	7/26/16	WNV
Yolo	SAYO124007	4038	Cx. tarsalis	Woodland	50	CO2	7/26/16	WNV
Yolo	SAYO125005	3928	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125005	3929	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125012	3938	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125016	3955	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125017	3993	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125017	3994	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125017	3995	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125018	3910	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125018	3911	Cx. tarsalis	Woodland	39	GRVD	7/23/16	WNV
Yolo	SAYO125026	3950	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125026	3951	Cx. tarsalis	Woodland	33	CO2	7/23/16	WNV
Yolo	SAYO125029	3914	Cx. tarsalis	woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125029	3916	Cx. tarsalis	woodland	50	CO2	7/23/16	WNV
Yolo	SAYO125029	3918	Cx. tarsalis	woodland	24	GRVD	7/23/16	WNV
Yolo	SAYO134010	4044	Cx. tarsalis	Woodland	50	CO2	7/26/16	WNV
Yolo	SAYO135005	3947	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO135010	3984	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO135010	3985	Cx. tarsalis	Woodland	50	CO2	7/23/16	WNV
Yolo	SAYO135010	3990	Cx. pipiens	Woodland	9	GRVD	7/23/16	WNV
Yolo	SAYO135020	3964	Cx. tarsalis	woodland	3	GRVD	7/23/16	WNV
Yolo	SAYO135020	3966	Cx. pipiens	woodland	10	GRVD	7/23/16	WNV
Yolo	SAYO137011	4234	Cx. pipiens	West Sacramento	9	GRVD	7/26/16	WNV
Yolo	SAYO145013	4007	Cx. tarsalis	Davis	50	CO2	7/26/16	WNV
Yolo	SAYO145013	4013	Cx. pipiens	Davis	6	CO2	7/26/16	WNV
Yolo	SAYO145016	3999	Cx. tarsalis	Davis	50	CO2	7/26/16	WNV
Yolo	SAYO145016	4001	Cx. tarsalis	Davis	50	CO2	7/26/16	WNV
Yolo	SAYO145016	4003	Cx. tarsalis	Davis	44	CO2	7/26/16	WNV
Yolo	SAYO145016	4006	Cx. pipiens	Davis	3	GRVD	7/26/16	WNV
Yolo	SAYO146006	4022	Cx. tarsalis	Davis	9	CO2	7/26/16	WNV
Yolo	SAYO147013	4226	Cx. tarsalis	West Sacramento	46	CO2	7/26/16	WNV
Yolo	SAYO147013	4228	Cx. pipiens	West Sacramento	29	CO2	7/26/16	WNV
Yolo	SAYO147015	4223	Cx. tarsalis	West Sacramento	2	GRVD	7/26/16	WNV
Yuba	SUYA40	309	Cx. tarsalis	Marysville	37	CO2	7/25/16	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO0002	Oroville	7/19/2016	WNV	1408				
Butte	BUCO0003	Oroville	7/19/2016	WNV	1417				
Butte	BUCO0005	Honcut	7/19/2016	WNV	1427				
Butte	BUCO0006	Chico	7/19/2016	WNV	1436				
Colusa	CLSA0001	Colusa	7/19/2016	WNV	1463	1464	1465	1466	1468
Contra Costa	CNTR7402	Oakley	7/18/2016	WNV	1512	1514			
Glenn	GLEN9701	Willows	7/20/2016	WNV	1563	1564	1566	1567	1569
Merced	MERC1302	Los Banos	7/22/2016	WNV	1667	1672			
Merced	MERC0002	Dos Palos	7/22/2016	WNV	1647	1648			
Merced	MERC0003	Gustine	7/22/2016	WNV	1657	1659			
Merced	MERC0501	El Nido	7/22/2016	WNV	1629	1630			
Merced	MERC0502	Hilmar	7/22/2016	WNV	1662	1663			
Merced	MERC0006	Merced	7/22/2016	WNV	1634	1637	1638		
Sutter	SUYA0015	Robbins	7/21/2016	WNV	2029				
Sutter	SUYA0030	Live Oak	7/21/2016	WNV	2052				
Sutter	SUYA0031	Rio Oso	7/21/2016	WNV	2027				
Sutter	SUYA0084	Yuba City	7/21/2016	WNV	2005	2006			
Tehama	TEHA0001	Red Bluff	7/19/2016	WNV	2081	2086			
Yuba	SUYA0010	Olivehurst	7/21/2016	WNV	2015	2020			
Yuba	SUYA0007	Marysville	7/21/2016	WNV	2008	2009	2011	2013	2014

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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.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
