

California Arbovirus Surveillance Bulletin #22

Week 31 Friday, August 5, 2016



Weekly Update

Humans

A total of 7 new cases of West Nile virus (WNV) illness were reported this week from the following 6 counties: Fresno (1), Kern (2), Orange (1) Sacramento (1), San Diego (1), and Tehama (1). To date this year, 10 cases of WNV illness have been reported from 8 counties. Of the 10 case-patients, 8 (80%) had neuroinvasive illness, and one fatality has been reported. The median age of the individuals is 55 years (range: 18-79 years) and 7 (70%) are male. Dates of symptom onset range from June 17 to July 31. In addition, 2 asymptomatic WNV-positive blood donors have been reported from Yolo County. At this time last year, 18 cases of WNV illness had been reported from 6 counties.

Dead Birds

This week, a total of 119 dead birds tested positive for WNV from the following 17 counties: Alameda (2), Butte (8), Contra Costa (3), Glenn (1), Los Angeles (6), Madera (1), Merced (1), Placer (3), Riverside (2), Sacramento (51), San Diego (16), San Joaquin (1), San Mateo (1), Santa Clara (3), Shasta (1), Ventura (1), and Yolo (18). **These are the first WNV positive birds from Glenn and Shasta Counties this year.** In 2016, 834 dead birds have tested positive for WNV from 28 counties, whereas at this time last year, 362 WNV positive birds had been reported from 34 counties.

Mosquito Pools

West Nile virus

A total of 354 WNV positive mosquito pools were reported this week from the following 23 counties: Butte (12), Contra Costa (2), Fresno (17), Kern (9), Kings (13), Lake (4), Los Angeles (45), Madera (3), Merced (1), Placer (15), Riverside (5), Sacramento (56), San Bernardino (5), San Diego (18), San Joaquin (36), San Mateo (2), Santa Clara (2), Santa Cruz (1), Stanislaus (45), Sutter (4), Tulare (16), Yolo (40), and Yuba (3). To date this year, 1,841 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 1,333 WNV positive mosquito pools had been reported from 28 counties.

St. Louis encephalitis virus

A total of 4 SLEV positive mosquito pools were reported this week from Kern (3) and Riverside (1) counties. To date this year, 70 SLEV positive mosquito pools have been reported from Kern (45) and Riverside (25) counties. At this time last year, 6 SLEV positive mosquito pools had been reported from Riverside County.

Sentinel Chickens

West Nile virus

A total of 11 WNV seroconversions were reported this week from 8 flocks in 3 counties: Los Angeles (9), San Diego (1), and Solano (1). **This is the first WNV positive chicken reported from Solano County in 2016.** To date this year, 84 WNV seroconversions have been detected in 33 flocks located in 12 counties, whereas at this time last year, 90 WNV seroconversions had been detected in 28 flocks located in 14 counties.

St. Louis encephalitis virus

Two SLEV seroconversions were reported this week from one flock located in San Bernardino County. This is the first detection of SLEV activity in San Bernardino County this year.

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YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		7	2	
Butte		11	29	4
Colusa				5
Contra Costa		8	4	2
Fresno	2	3	115	
Glenn		1	11	5
Kern	2		43	
Kings		3	55	
Lake		3	13	
Los Angeles	1	57	151	19
Madera		3	31	
Marin		2		
Merced		4	5	14
Napa			2	
Orange	1	19	60	
Placer		14	68	
Riverside		6	27	
Sacramento	1	344	340	
San Bernardino			49	2
San Diego	1	191	62	9
San Joaquin		21	185	
San Mateo		10	4	
Santa Clara		51	10	
Santa Cruz		1	3	
Shasta		1	1	
Solano		1	3	1
Sonoma			1	
Stanislaus		6	157	
Sutter		6	59	14
Tehama	1			2
Tulare		1	196	
Ventura		11		
Yolo		48	143	
Yuba	1	1	12	7
Totals	10	834	1,841	84

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	6,559	6,255
# Positive Counties	37	34
# Human Cases	18	10
# Positive Dead Birds / # Tested	362 / 1,616	834 / 1,846
# Positive Mosquito Pools / # Tested	1,333 / 18,508	1,841 / 26,562
# Seroconversions / # Tested	90 / 7,542	84 / 5,856

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	7	0	0
	YTD	10	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	162	119
	YTD	1,846	834

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	508	11	2	0
	YTD	5,856	84	2	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	354 / 1,918	4 / 1,500	0 / 1,500	0 / 32	0 / 32	0 / 32
	YTD	1,841 / 26,562	70 / 16,467	0 / 16,467	0 / 173	0 / 173	0 / 173

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94538	American Crow	7/31/2016	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	7/28/2016	WNV
Butte	Butte Co MVCD	Berry Creek	95916	Steller's Jay	7/25/2016	WNV
Butte	Butte Co MVCD	Chico	95926	Unknown	7/18/2016	WNV
Butte	Butte Co MVCD	Chico	95928	Sparrow	7/26/2016	WNV
Butte	Butte Co MVCD	Chico	95973	American Crow	7/20/2016	WNV
Butte	Butte Co MVCD	Chico	95973	Western Scrub-Jay	7/26/2016	WNV
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	7/21/2016	WNV
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	8/2/2016	WNV
Butte	Butte Co MVCD	Paradise	95969	American Crow	7/20/2016	WNV
Contra Costa	Contra Costa MVCD	Alamo	94507	American Crow	8/4/2016	WNV
Contra Costa	Contra Costa MVCD	Blackhawk	94506	American Crow	7/31/2016	WNV
Contra Costa	Contra Costa MVCD	Oakley	94561	Western Scrub-Jay	8/1/2016	WNV
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	7/29/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Agoura Hills	91301	American Crow	8/1/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Northridge	91326	American Crow	8/1/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	San Pedro	90731	American Crow	8/1/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Thousand Oaks	91360	American Crow	8/1/2016	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	8/2/2016	WNV
Los Angeles	Los Angeles Co West VCD	Torrance	90504	American Crow	8/2/2016	WNV
Madera	Madera Co MVCD	Madera	93637	American Crow	7/28/2016	WNV
Merced	Merced Co MAD	Merced	95348	American Crow	8/2/2016	WNV
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	8/3/2016	WNV
Placer	Placer MVCD	Roseville	95747	American Crow	8/1/2016	WNV
Placer	Placer MVCD	Roseville	95747	Unknown	7/29/2016	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/26/2016	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Robin	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Lesser Goldfinch	7/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	White-breasted Nuthatch	7/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	Yellow-billed Magpie	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	8/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	7/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Lesser Goldfinch	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	7/27/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Foothill Farms	95842	Cooper's Hawk	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Oak Titmouse	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	White-breasted Nuthatch	7/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	7/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95742	American Robin	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Western Scrub-Jay	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Crow	7/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95817	American Crow	7/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	Western Scrub-Jay	7/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Robin	7/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Western Scrub-Jay	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Yellow-billed Magpie	8/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Bewick's Wren	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	8/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	7/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	Canada Goose	7/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Crow	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	House Sparrow	8/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Robin	7/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Goldfinch	7/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Anna's Hummingbird	7/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Northern Mockingbird	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Northern Mockingbird	8/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/27/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92011	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/2/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	Poway	92064	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	San Diego	92037	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	8/1/2016	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	8/3/2016	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	8/3/2016	WNV
San Diego	San Diego Co VCP	San Diego	92123	American Crow	8/4/2016	WNV
San Diego	San Diego Co VCP	Solana Beach	92075	American Crow	8/1/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95219	Sparrow	8/3/2016	WNV
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	8/1/2016	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	7/26/2016	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/2/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Western Scrub-Jay	8/1/2016	WNV

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Shasta	Shasta MVCD	Palo Cedro	96073	Western Scrub-Jay	8/1/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	7/27/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/29/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/1/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/3/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Bluebird	7/27/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/2/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/30/2016	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	8/2/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Western Scrub-Jay	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Western Scrub-Jay	8/1/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Western Scrub-Jay	8/3/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Canary	7/29/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Canary	7/29/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/28/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/3/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO119	206	Cx. tarsalis		50	CO2	7/26/16	WNV
Butte	BUCO37	225	Cx. tarsalis	Honcut	50	CO2	8/1/16	WNV
Butte	BUCO38	226	Cx. tarsalis	Oroville	50	CO2	8/1/16	WNV
Butte	BUCO38	227	Cx. tarsalis	Oroville	50	CO2	8/1/16	WNV
Butte	BUCO4	210	Cx. tarsalis	Gridley	50	CO2	7/26/16	WNV
Butte	BUCO4	211	Cx. tarsalis	Gridley	50	CO2	7/26/16	WNV
Butte	BUCO4	212	Cx. tarsalis	Gridley	50	CO2	7/26/16	WNV
Butte	BUCO43	220	Cx. tarsalis	Chico	50	CO2	7/27/16	WNV
Butte	BUCO43	221	Cx. tarsalis	Chico	50	CO2	7/27/16	WNV
Butte	BUCO43	222	Cx. tarsalis	Chico	50	CO2	7/27/16	WNV
Butte	BUCO68	209	Cx. tarsalis	Gridley	50	CO2	7/26/16	WNV
Butte	BUCO83	229	Cx. tarsalis	Chico	50	CO2	8/1/16	WNV
Contra Costa	CNTR661	304	Cx. tarsalis	Byron	26	CO2	8/1/16	WNV
Contra Costa	CNTR8152	301	Cx. tarsalis	Knightsen	12	CO2	8/1/16	WNV
Fresno	CNSL1239	317	Cx. quinquefasciatus	Fresno	28	GRVD	7/29/16	WNV
Fresno	CNSL1239	318	Cx. quinquefasciatus	Fresno	50	GRVD	7/29/16	WNV
Fresno	CNSL1239	320	Cx. quinquefasciatus	Fresno	44	GRVD	7/29/16	WNV
Fresno	CNSL1445	302	Cx. quinquefasciatus	Clovis	18	GRVD	7/26/16	WNV
Fresno	CNSL1453	325	Cx. quinquefasciatus	Fresno	19	GRVD	8/2/16	WNV
Fresno	CNSL4007	301	Cx. quinquefasciatus	Selma	20	GRVD	7/22/16	WNV
Fresno	CNSL6030	311	Cx. quinquefasciatus	Riverdale	25	GRVD	7/28/16	WNV
Fresno	CNSL6061	313	Cx. quinquefasciatus	Laton	27	GRVD	7/28/16	WNV
Fresno	CNSL6237	312	Cx. quinquefasciatus	Laton	50	GRVD	7/28/16	WNV
Fresno	CNSL9123	324	Cx. quinquefasciatus	Clovis	20	GRVD	8/2/16	WNV
Fresno	CNSL9124	315	Cx. stigmatosoma	Sanger	23	GRVD	7/29/16	WNV
Fresno	FRNO36	103	Cx. quinquefasciatus	Fresno	47	BGSENT	8/2/16	WNV
Fresno	FRNO8	98	Cx. quinquefasciatus	Fresno	13	CO2	7/28/16	WNV
Fresno	FRWS100007	161	Cx. tarsalis	Firebaugh	38	CO2	8/2/16	WNV
Fresno	FRWS300042	158	Cx. tarsalis		37	CO2	7/28/16	WNV

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Fresno	FRWS400003	162	Cx. quinquefasciatus	Mendota	10	GRVD	8/2/16	WNV
Fresno	FRWS5101	163	Cx. tarsalis	Mendota	30	CO2	8/2/16	WNV
Kern	DLNO105	124	Cx. quinquefasciatus	Delano	50	GRVD	8/2/16	WNV
Kern	DLNO4	123	Cx. quinquefasciatus	Delano	33	GRVD	7/29/16	WNV
Kern	DLNO58	119	Cx. tarsalis	McFarland	45	CO2	7/28/16	SLEV
Kern	DLNO58	119	Cx. tarsalis	McFarland	45	CO2	7/28/16	WNV
Kern	DLNO86	125	Cx. quinquefasciatus	Delano	50	GRVD	8/2/16	WNV
Kern	KERN12	378	Cx. quinquefasciatus	Bakersfield	22	GRVD	7/29/16	SLEV
Kern	KERN156	372	Cx. tarsalis	Butttonwillow	23	CO2	7/26/16	WNV
Kern	KERN3027	379	Cx. quinquefasciatus	Arvin	50	CO2	7/29/16	WNV
Kern	KERN46	377	Cx. tarsalis	Wasco	35	CO2	7/28/16	WNV
Kern	KERN60	371	Cx. tarsalis	Bakersfield	24	CO2	7/26/16	WNV
Kern	KERN7	376	Cx. quinquefasciatus	Famoso	32	CO2	7/28/16	SLEV
Kern	KERN7	376	Cx. quinquefasciatus	Famoso	32	CO2	7/28/16	WNV
Kings	KNGS3005	257	Cx. tarsalis	Lemoore NAS	39	CO2	7/26/16	WNV
Kings	KNGS3010	275	Cx. pipiens	Hanford	47	BGSENT	7/29/16	WNV
Kings	KNGS3018	278	Cx. tarsalis	Lemoore	50	CO2	7/29/16	WNV
Kings	KNGS3072	271	Cx. tarsalis	Hanford	50	CO2	7/28/16	WNV
Kings	KNGS3072	272	Cx. tarsalis	Hanford	29	CO2	7/28/16	WNV
Kings	KNGS3084	252	Cx. tarsalis	Lemoore	18	CO2	7/26/16	WNV
Kings	KNGS3102	248	Cx. tarsalis	Armona	50	CO2	7/26/16	WNV
Kings	KNGS3102	249	Cx. tarsalis	Armona	50	CO2	7/26/16	WNV
Kings	KNGS4405	245	Cx. tarsalis	Lemoore	12	BGSENT	7/26/16	WNV
Kings	KNGS4408	227	Cx. tarsalis	Lemoore	33	BGSENT	7/19/16	WNV
Kings	KNGS4410	225	Cx. pipiens	Lemoore	33	BGSENT	7/19/16	WNV
Kings	KNGS5507	239	Cx. pipiens	Hanford	11	BGSENT	7/21/16	WNV
Kings	KNGS5519	261	Cx. pipiens	Hanford	31	BGSENT	7/27/16	WNV
Lake	LAKE131	419	Cx. tarsalis	Lower Lake	50	CO2	8/3/16	WNV
Lake	LAKE1404	373	Cx. tarsalis	Lakeport	50	REST	7/29/16	WNV
Lake	LAKE226	404	Cx. tarsalis	Lower Lake	50	CO2	8/3/16	WNV
Lake	LAKE80	358	Cx. tarsalis	Upper Lake	50	REST	7/28/16	WNV
Los Angeles	GRLA2021	5542	Cx. quinquefasciatus	Reseda	21	GRVD	7/28/16	WNV
Los Angeles	GRLA2023	5538	Cx. quinquefasciatus	Reseda	28	GRVD	7/28/16	WNV
Los Angeles	GRLA2029	5527	Cx. tarsalis	Canoga Park	8	CO2	7/28/16	WNV
Los Angeles	GRLA2031	5544	Cx. quinquefasciatus	Northridge	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2032	5543	Cx. quinquefasciatus	Northridge	31	GRVD	7/28/16	WNV
Los Angeles	GRLA2034	5536	Cx. quinquefasciatus	Tarzana	47	GRVD	7/28/16	WNV
Los Angeles	GRLA2065	593	Cx. quinquefasciatus	Gardena	50	GRVD	7/29/16	WNV
Los Angeles	GRLA2228	574	Cx. quinquefasciatus	Diamond Bar	32	GRVD	7/27/16	WNV
Los Angeles	GRLA2321	592	Cx. quinquefasciatus	Carson	50	GRVD	7/29/16	WNV
Los Angeles	GRLA2383	579	Cx. quinquefasciatus	Whittier	37	GRVD	7/27/16	WNV
Los Angeles	GRLA2476	5547	Cx. quinquefasciatus	Sunland	42	GRVD	7/28/16	WNV
Los Angeles	GRLA2478	5551	Cx. quinquefasciatus	Sunland	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2530	5549	Cx. quinquefasciatus	Sunland	16	GRVD	7/28/16	WNV
Los Angeles	GRLA2539	5541	Cx. quinquefasciatus	Northridge	33	GRVD	7/28/16	WNV
Los Angeles	GRLA2540	5539	Cx. quinquefasciatus	Porter Ranch	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2547	5546	Cx. quinquefasciatus	Sylmar	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2550	5552	Cx. quinquefasciatus	Mission Hills	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2554	5525	Cx. quinquefasciatus	Winnetka	26	GRVD	7/28/16	WNV
Los Angeles	GRLA2555	5535	Cx. quinquefasciatus	Encino	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2592	5555	Cx. quinquefasciatus	San Marino	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2593	5554	Cx. quinquefasciatus	San Marino	35	GRVD	7/28/16	WNV
Los Angeles	GRLA2635	5534	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/28/16	WNV
Los Angeles	GRLA2636	5533	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/28/16	WNV

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Los Angeles	GRLA2636	5540	Cx. tarsalis	Van Nuys	7	CO2	7/28/16	WNV
Los Angeles	GRLA2920	595	Cx. quinquefasciatus	Carson	31	CO2	7/29/16	WNV
Los Angeles	GRLA2950	5548	Cx. quinquefasciatus	Sunland	34	GRVD	7/28/16	WNV
Los Angeles	GRLA3000	5550	Cx. quinquefasciatus	Sun Valley	50	GRVD	7/28/16	WNV
Los Angeles	GRLA3028	5528	Cx. quinquefasciatus	West Hills	28	CO2	7/28/16	WNV
Los Angeles	GRLA3036	5530	Cx. quinquefasciatus	Canoga Park	14	GRVD	7/28/16	WNV
Los Angeles	GRLA3038	5518	Cx. quinquefasciatus	Valley Village	50	CO2	7/27/16	WNV
Los Angeles	GRLA3042	573	Cx. quinquefasciatus	Hacienda Heights	44	GRVD	7/27/16	WNV
Los Angeles	GRLA3044	572	Cx. quinquefasciatus	South El Monte	41	GRVD	7/27/16	WNV
Los Angeles	GRLA3045	578	Cx. quinquefasciatus	Whittier	19	GRVD	7/27/16	WNV
Los Angeles	GRLA3052	577	Cx. quinquefasciatus	La Habra Heights	50	GRVD	7/27/16	WNV
Los Angeles	GRLA3065	585	Cx. quinquefasciatus	Willowbrook	50	GRVD	7/28/16	WNV
Los Angeles	GRLA3067	594	Cx. quinquefasciatus	Gardena	50	GRVD	7/29/16	WNV
Los Angeles	GRLA3069	5519	Cx. quinquefasciatus	Valley Village	46	GRVD	7/27/16	WNV
Los Angeles	GRLA3076	5522	Cx. quinquefasciatus	Valley Glen	50	GRVD	7/27/16	WNV
Los Angeles	GRLA3102	5517	Cx. quinquefasciatus	Studio City	21	GRVD	7/27/16	WNV
Los Angeles	GRLA3133	5545	Cx. quinquefasciatus	San Fernando	50	GRVD	7/28/16	WNV
Los Angeles	SGVA11	280	Cx. tarsalis	Azusa	26	CO2	8/3/16	WNV
Los Angeles	SGVA32	281	Cx. quinquefasciatus	Arcadia	50	GRVD	8/3/16	WNV
Los Angeles	SGVA32	284	Cx. quinquefasciatus	Arcadia	41	GRVD	8/3/16	WNV
Los Angeles	SGVA64	244	Cx. quinquefasciatus	West Covina	50	GRVD	7/20/16	WNV
Los Angeles	SGVA8	223	Cx. quinquefasciatus	Pomona	50	GRVD	7/20/16	WNV
Madera	MADR197	198	Cx. tarsalis	Madera	23	CO2	7/28/16	WNV
Madera	MADR239	197	Cx. quinquefasciatus	Madera	35	CO2	7/27/16	WNV
Madera	MADR3334	196	Cx. quinquefasciatus	Madera	50	CO2	7/26/16	WNV
Merced	MERC408	203	Cx. tarsalis	Gustine	11	CO2	8/3/16	WNV
Placer	PLCR1003	1438	Cx. tarsalis	Lincoln	25	CO2	8/2/16	WNV
Placer	PLCR1023	1501	Cx. tarsalis	Roseville	50	CO2	8/2/16	WNV
Placer	PLCR1023	1503	Cx. tarsalis	Roseville	50	CO2	8/2/16	WNV
Placer	PLCR1023	1504	Cx. tarsalis	Roseville	50	CO2	8/2/16	WNV
Placer	PLCR1114	1495	Cx. tarsalis	Lincoln	50	CO2	8/2/16	WNV
Placer	PLCR1114	1496	Cx. tarsalis	Lincoln	50	CO2	8/2/16	WNV
Placer	PLCR191218	1482	Cx. tarsalis		50	CO2	8/2/16	WNV
Placer	PLCR191998	1464	Cx. tarsalis	Lincoln	30	CO2	8/2/16	WNV
Placer	PLCR195680	1391	Cx. tarsalis	Roseville	8	CO2	7/28/16	WNV
Placer	PLCR195688	1411	Cx. tarsalis	Roseville	2	CO2	7/28/16	WNV
Placer	PLCR195690	1405	Cx. pipiens	Roseville	8	CO2	7/28/16	WNV
Placer	PLCR195824	1535	Cx. pipiens	Roseville	8	CO2	8/3/16	WNV
Placer	PLCR195824	1536	Cx. tarsalis	Roseville	18	CO2	8/3/16	WNV
Placer	PLCR25	1480	Cx. tarsalis	Lincoln	50	CO2	8/2/16	WNV
Placer	PLCR668	1485	Cx. tarsalis	Elverta	50	CO2	8/2/16	WNV
Riverside	COAV0	2853	Cx. tarsalis	Indio	36	CO2	7/30/16	SLEV
Riverside	COAV0	2854	Cx. tarsalis	Indio	50	CO2	7/30/16	WNV
Riverside	COAV0	2855	Cx. tarsalis	Indio	50	CO2	7/30/16	WNV
Riverside	NWST109	151	Cx. tarsalis	Corona	50	CO2	7/29/16	WNV
Riverside	NWST214	150	Cx. quinquefasciatus	Corona	50	BGSENT	7/27/16	WNV
Riverside	RIVR88	412	Cx. tarsalis	Nuevo	50	CO2	7/27/16	WNV
Sacramento	SAYO201006	4421	Cx. tarsalis	Sacramento	50	CO2	7/29/16	WNV
Sacramento	SAYO201006	4422	Cx. tarsalis	Sacramento	50	CO2	7/29/16	WNV
Sacramento	SAYO201007	4767	Cx. tarsalis	Sacramento	50	CO2	8/4/16	WNV
Sacramento	SAYO201007	4768	Cx. tarsalis	Sacramento	50	CO2	8/4/16	WNV
Sacramento	SAYO202012	4435	Cx. tarsalis	Rio Linda	17	CO2	7/29/2016	WNV
Sacramento	SAYO202024	4418	Cx. pipiens	Sacramento	23	GRVD	7/29/16	WNV
Sacramento	SAYO203037	4442	Cx. tarsalis	Elverta	13	CO2	7/29/16	WNV

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Sacramento	SAYO204020	4463	Cx. pipiens	Sacramento	28	GRVD	7/29/16	WNV
Sacramento	SAYO204021	4715	Cx. tarsalis	Citrus Heights	10	CO2	8/4/16	WNV
Sacramento	SAYO204023	4469	Cx. tarsalis	Citrus Heights	9	CO2	7/29/2016	WNV
Sacramento	SAYO204032	4723	Cx. pipiens	Citrus Heights	1	GRVD	8/4/16	WNV
Sacramento	SAYO204051	4468	Cx. pipiens	Citrus Heights	16	GRVD	7/29/16	WNV
Sacramento	SAYO204052	4474	Cx. pipiens	Carmichael	4	GRVD	7/29/16	WNV
Sacramento	SAYO205008	4482	Cx. pipiens	Folsom	44	GRVD	7/29/16	WNV
Sacramento	SAYO205029	4750	Cx. pipiens	Orangevale	26	GRVD	8/4/16	WNV
Sacramento	SAYO212033	4429	Cx. tarsalis	Sacramento	22	CO2	7/29/16	WNV
Sacramento	SAYO213028	4747	Cx. pipiens	Carmichael	10	CO2	8/4/16	WNV
Sacramento	SAYO214046	4522	Cx. pipiens	Rancho Cordova	7	GRVD	8/2/16	WNV
Sacramento	SAYO215005	4488	Cx. pipiens	Folsom	50	GRVD	7/29/16	WNV
Sacramento	SAYO222001	4543	Cx. pipiens	Sacramento	7	CO2	8/2/16	WNV
Sacramento	SAYO222011	4562	Cx. pipiens	Sacramento	28	CO2	8/2/16	WNV
Sacramento	SAYO222011	4563	Cx. pipiens	Sacramento	38	GRVD	8/2/16	WNV
Sacramento	SAYO223009	4532	Cx. pipiens	Sacramento	8	GRVD	8/2/16	WNV
Sacramento	SAYO223016	4548	Cx. tarsalis	Sacramento	3	CO2	8/2/16	WNV
Sacramento	SAYO223031	4541	Cx. pipiens	Sacramento	25	GRVD	8/2/16	WNV
Sacramento	SAYO224010	4527	Cx. tarsalis	Sacramento	9	CO2	8/2/16	WNV
Sacramento	SAYO233001	4787	Cx. tarsalis	Elk Grove	6	CO2	8/4/16	WNV
Sacramento	SAYO233015	4567	Cx. pipiens	Sacramento	2	GRVD	8/2/16	WNV
Sacramento	SAYO233020	4790	Cx. tarsalis	Elk Grove	7	CO2	8/4/16	WNV
Sacramento	SAYO233064	4576	Cx. tarsalis	Sacramento	40	CO2	8/2/16	WNV
Sacramento	SAYO233079	4783	Cx. tarsalis	Elk Grove	19	CO2	8/4/16	WNV
Sacramento	SAYO233079	4785	Cx. pipiens	Elk Grove	22	CO2	8/4/16	WNV
Sacramento	SAYO234025	4594	Cx. tarsalis	Elk Grove	44	CO2	8/2/16	WNV
Sacramento	SAYO242014	4814	Cx. pipiens	Elk Grove	6	GRVD	8/4/16	WNV
Sacramento	SAYO243012	4827	Cx. tarsalis	Elk Grove	50	CO2	8/4/16	WNV
Sacramento	SAYO243012	4828	Cx. tarsalis	Elk Grove	26	CO2	8/4/16	WNV
Sacramento	SAYO243017	4847	Cx. pipiens	Elk Grove	50	CO2	8/4/2016	WNV
Sacramento	SAYO243025	4800	Cx. pipiens	Elk Grove	9	CO2	8/4/16	WNV
Sacramento	SAYO243026	4837	Cx. pipiens	Elk Grove	50	CO2	8/4/16	WNV
Sacramento	SAYO243026	4839	Cx. pipiens	Elk Grove	50	CO2	8/4/16	WNV
Sacramento	SAYO243026	4841	Cx. pipiens	Elk Grove	24	GRVD	8/4/16	WNV
Sacramento	SAYO243032	4819	Cx. tarsalis	Elk Grove	50	CO2	8/4/16	WNV
Sacramento	SAYO243032	4820	Cx. tarsalis	Elk Grove	48	CO2	8/4/16	WNV
Sacramento	SAYO243032	4825	Cx. pipiens	Elk Grove	50	CO2	8/4/16	WNV
Sacramento	SAYO244002	4599	Cx. tarsalis	Galt	25	CO2	8/2/16	WNV
Sacramento	SAYO244006	4587	Cx. pipiens	Wilton	27	CO2	8/2/16	WNV
Sacramento	SAYO245002	4591	Cx. tarsalis	Wilton	27	CO2	8/2/2016	WNV
Sacramento	SAYO252014	4515	Cx. tarsalis	Walnut Grove	33	CO2	7/29/16	WNV
Sacramento	SAYO252014	4517	Cx. pipiens	Walnut Grove	4	GRVD	7/29/16	WNV
Sacramento	SAYO253009	4620	Cx. tarsalis	Galt	15	CO2	8/2/16	WNV
Sacramento	SAYO255007	4605	Cx. tarsalis	Herald	26	CO2	8/2/16	WNV
Sacramento	SAYO255007	4606	Cx. pipiens	Herald	10	CO2	8/2/16	WNV
Sacramento	SAYO261002	4509	Cx. tarsalis	Isleton	50	CO2	7/29/16	WNV
Sacramento	SAYO261002	4513	Cx. pipiens	Isleton	8	CO2	7/29/16	WNV
Sacramento	SAYO280001	4502	Cx. tarsalis	Rio Vista	50	CO2	7/29/16	WNV
Sacramento	SAYO280001	4504	Cx. pipiens	Rio Vista	1	GRVD	7/29/2016	WNV
San Bernardino	SANB39	509	Cx. quinquefasciatus	Upland	22	CO2	8/4/16	WNV
San Bernardino	SANB44	506	Cx. stigmatosoma	Oro Grande	1	CO2	8/4/16	WNV
San Bernardino	SANB46	516	Cx. quinquefasciatus	Colton	49	CO2	8/4/16	WNV
San Bernardino	WVAL6005	1668	Cx. quinquefasciatus	Ontario	7	GRVD	8/3/16	WNV
San Bernardino	WVAL8001	1617	Cx. quinquefasciatus	Corona	50	CO2	7/28/16	WNV

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San Diego	SAND10615	660	Cx. quinquefasciatus	Poway	46	GRVD	6/14/16	WNV
San Diego	SAND10618	664	Cx. quinquefasciatus	San Diego	12	GRVD	6/14/16	WNV
San Diego	SAND10630	668	Cx. quinquefasciatus	La Jolla	28	GRVD	6/16/16	WNV
San Diego	SAND10651	687	Cx. quinquefasciatus	Carlsbad	10	GRVD	6/24/16	WNV
San Diego	SAND10666	697	Cx. quinquefasciatus	San Diego	49	GRVD	6/30/16	WNV
San Diego	SAND10673	700	Cx. quinquefasciatus	San Diego	13	GRVD	6/30/16	WNV
San Diego	SAND10682	719	Cx. quinquefasciatus	Rancho Santa Fe	35	GRVD	7/7/16	WNV
San Diego	SAND10683	717	Cx. quinquefasciatus		48	GRVD	7/7/16	WNV
San Diego	SAND10687	705	Cx. quinquefasciatus	San Diego	8	GRVD	7/8/16	WNV
San Diego	SAND10688	707	Cx. quinquefasciatus	Rancho Santa Fe	4	GRVD	7/8/16	WNV
San Diego	SAND10690	713	Cx. quinquefasciatus	San Diego	50	GRVD	7/9/16	WNV
San Diego	SAND10690	714	Cx. quinquefasciatus	San Diego	21	GRVD	7/9/16	WNV
San Diego	SAND10708	727	Cx. quinquefasciatus	Rancho Santa Fe	10	GRVD	7/13/16	WNV
San Diego	SAND10709	725	Cx. quinquefasciatus	Carlsbad	18	GRVD	7/13/16	WNV
San Diego	SAND20	677	Cx. tarsalis	San Diego	45	CO2	6/21/16	WNV
San Diego	SAND433	722	Cx. tarsalis		49	CO2	7/6/16	WNV
San Diego	SAND448	689	Cx. tarsalis	Oceanside	24	CO2	6/23/16	WNV
San Diego	SAND481	651	Cx. tarsalis	San Diego	26	CO2	6/14/16	WNV
San Joaquin	SJCM8004	1872	Cx. tarsalis	Lodi	7	CO2	8/2/16	WNV
San Joaquin	SJCM8008	1821	Cx. tarsalis	Manteca	50	CO2	8/2/16	WNV
San Joaquin	SJCM8008	1823	Cx. tarsalis	Manteca	50	CO2	8/2/16	WNV
San Joaquin	SJCM8008	1824	Cx. tarsalis	Manteca	42	CO2	8/2/16	WNV
San Joaquin	SJCM8008	1825	Cx. pipiens	Manteca	16	CO2	8/2/16	WNV
San Joaquin	SJCM8010	1834	Cx. tarsalis	Ripon	50	CO2	8/2/16	WNV
San Joaquin	SJCM8010	1835	Cx. tarsalis	Ripon	16	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1900	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1901	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1902	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1903	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1904	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1905	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8018	1906	Cx. tarsalis	Stockton	28	CO2	8/2/16	WNV
San Joaquin	SJCM8027	1862	Cx. tarsalis	McDonald Isl. bridge	40	CO2	8/2/16	WNV
San Joaquin	SJCM8027	1863	Cx. pipiens	McDonald Isl. bridge	14	CO2	8/2/16	WNV
San Joaquin	SJCM8056	1842	Cx. tarsalis	Manteca	50	CO2	8/2/16	WNV
San Joaquin	SJCM8056	1844	Cx. tarsalis	Manteca	50	CO2	8/2/16	WNV
San Joaquin	SJCM8056	1846	Cx. pipiens	Manteca	50	CO2	8/2/16	WNV
San Joaquin	SJCM8077	1870	Cx. tarsalis	Stockton	12	CO2	8/2/16	WNV
San Joaquin	SJCM8079	1837	Cx. tarsalis	Manteca	21	CO2	8/2/16	WNV
San Joaquin	SJCM8084	1818	Cx. tarsalis	Stockton	2	CO2	8/2/16	WNV
San Joaquin	SJCM8084	1819	Cx. pipiens	Stockton	6	CO2	8/2/16	WNV
San Joaquin	SJCM8100	1898	Cx. tarsalis	Tracy	8	CO2	8/2/16	WNV
San Joaquin	SJCM8109	1826	Cx. tarsalis	Escalon	28	CO2	8/2/16	WNV
San Joaquin	SJCM8125	1816	Cx. tarsalis	Stockton	5	CO2	8/2/16	WNV
San Joaquin	SJCM8125	1817	Cx. pipiens	Stockton	4	CO2	8/2/16	WNV
San Joaquin	SJCM8143	1893	Cx. tarsalis	Stockton	50	CO2	8/2/16	WNV
San Joaquin	SJCM8143	1894	Cx. tarsalis	Stockton	54	CO2	8/2/2016	WNV
San Joaquin	SJCM8143	1895	Cx. pipiens	Stockton	1	CO2	8/2/16	WNV
San Joaquin	SJCM8160	1891	Cx. tarsalis	Lodi	50	CO2	8/2/16	WNV
San Joaquin	SJCM8160	1892	Cx. pipiens	Lodi	9	CO2	8/2/16	WNV
San Joaquin	SJCM8161	1839	Cx. tarsalis	Ripon	38	CO2	8/2/16	WNV
San Joaquin	SJCM8161	1840	Cx. pipiens	Ripon	50	CO2	8/2/16	WNV

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San Joaquin	SJCM8161	1841	Cx. pipiens	Ripon	27	CO2	8/2/16	WNV
San Joaquin	SJCM8189	1922	Cx. tarsalis	Acampo	15	CO2	8/4/2016	WNV
San Mateo	SANM113624	153	Cx. tarsalis	Atherton	6	CO2	8/4/16	WNV
San Mateo	SANM949155	137	Cx. tarsalis	Atherton	1	CO2	8/2/16	WNV
Santa Clara	STCL2664	232	Cx. tarsalis	San Jose	10	CO2	7/28/16	WNV
Santa Clara	STCL2674	229	Cx. tarsalis	San Jose	18	CO2	7/28/16	WNV
Santa Cruz	SCRZ108	213	Cx. tarsalis	La Selva Beach	30	CO2	8/2/2016	WNV
Stanislaus	TRLK1107	678	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK1107	679	Cx. pipiens	Denair	34	CO2	8/2/16	WNV
Stanislaus	TRLK1107	680	Cx. tarsalis	Denair	31	CO2	8/2/16	WNV
Stanislaus	TRLK1202	690	Cx. tarsalis	Hughson	33	CO2	8/2/16	WNV
Stanislaus	TRLK1203	688	Cx. tarsalis	Hughson	39	CO2	8/2/16	WNV
Stanislaus	TRLK1219	691	Cx. tarsalis	Modesto	37	CO2	8/2/16	WNV
Stanislaus	TRLK1301	672	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK16102	664	Cx. pipiens	Ceres	13	CO2	7/29/16	WNV
Stanislaus	TRLK16109	662	Cx. tarsalis	Ceres	43	CO2	7/29/16	WNV
Stanislaus	TRLK1615	723	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	724	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	725	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	726	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	727	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	728	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	729	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	730	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	731	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK1615	732	Cx. tarsalis		50	CO2	8/2/16	WNV
Stanislaus	TRLK407	692	Cx. pipiens	Turlock	24	CO2	8/2/16	WNV
Stanislaus	TRLK432	697	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	698	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	699	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	700	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	701	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	702	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	703	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	705	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK432	707	Cx. tarsalis	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK516	683	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK516	685	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK524	660	Cx. pipiens	Keyes	43	CO2	7/29/16	WNV
Stanislaus	TRLK526	711	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	712	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	714	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	715	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	717	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	718	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	719	Cx. pipiens	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	721	Cx. tarsalis	Denair	50	CO2	8/2/16	WNV
Stanislaus	TRLK526	722	Cx. pipiens	Denair	28	CO2	8/2/16	WNV
Stanislaus	TRLK536	668	Cx. pipiens	Turlock	50	CO2	8/2/16	WNV
Stanislaus	TRLK613	687	Cx. tarsalis	Hickman	22	CO2	8/2/16	WNV
Stanislaus	TRLK625	652	Cx. pipiens	Turlock	50	CO2	7/28/16	WNV
Stanislaus	TRLK625	653	Cx. pipiens	Turlock	50	CO2	7/28/16	WNV
Sutter	SUYA107	321	Cx. pipiens	Live Oak	18	REST	8/1/16	WNV
Sutter	SUYA24	335	Cx. tarsalis	Yuba City	32	REST	8/2/16	WNV

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Sutter	SUYA31	315	Cx. tarsalis	Rio Oso	45	REST	8/1/16	WNV
Sutter	SUYA63	326	Cx. tarsalis	Live Oak	45	REST	8/1/16	WNV
Tulare	DLTA6236	2151	Cx. tarsalis	Kingsburg	50	CO2	8/2/16	WNV
Tulare	DLTA6236	2152	Cx. tarsalis	Kingsburg	50	CO2	8/2/16	WNV
Tulare	DLTA6236	2153	Cx. tarsalis	Kingsburg	27	CO2	8/2/16	WNV
Tulare	DLTA6236	2154	Cx. tarsalis	Kingsburg	50	CO2	8/2/16	WNV
Tulare	DLTA6236	2155	Cx. tarsalis	Kingsburg	36	CO2	8/2/16	WNV
Tulare	DLTA7316	2128	Cx. quinquefasciatus	Traver	31	GRVD	7/28/16	WNV
Tulare	DLTA8423	2134	Cx. quinquefasciatus	Visalia	25	GRVD	7/29/16	WNV
Tulare	DLTA8424	2122	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/16	WNV
Tulare	DLTA8424	2123	Cx. quinquefasciatus	Visalia	10	GRVD	7/28/16	WNV
Tulare	DLTA8426	2135	Cx. quinquefasciatus	Visalia	32	GRVD	7/29/16	WNV
Tulare	DLTA8512	2147	Cx. quinquefasciatus	Ivanhoe	7	GRVD	7/29/16	WNV
Tulare	DLTA8519	2132	Cx. quinquefasciatus	Visalia	31	GRVD	7/28/16	WNV
Tulare	DLTA8527	2140	Cx. quinquefasciatus	Visalia	19	GRVD	7/29/16	WNV
Tulare	DLTA8531	2144	Cx. quinquefasciatus	Visalia	9	GRVD	7/29/16	WNV
Tulare	DLTA8534	2150	Cx. quinquefasciatus	Visalia	14	GRVD	8/2/16	WNV
Tulare	DLTA9411	2129	Cx. quinquefasciatus	Visalia	23	GRVD	7/28/16	WNV
Yolo	SAYO103007	4627	Cx. tarsalis	Dunnigan	50	CO2	8/2/16	WNV
Yolo	SAYO103007	4629	Cx. tarsalis	Dunnigan	50	CO2	8/2/16	WNV
Yolo	SAYO103007	4631	Cx. tarsalis	Dunnigan	50	CO2	8/2/16	WNV
Yolo	SAYO115002	4642	Cx. tarsalis	Knights Landing	50	CO2	8/2/16	WNV
Yolo	SAYO115002	4643	Cx. tarsalis	Knights Landing	50	CO2	8/2/16	WNV
Yolo	SAYO116002	4647	Cx. tarsalis	Knights Landing	50	CO2	8/2/16	WNV
Yolo	SAYO125011	4339	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO125012	4335	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO125018	4318	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO125018	4319	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO125018	4323	Cx. tarsalis	Woodland	46	GRVD	7/29/16	WNV
Yolo	SAYO125021	4386	Cx. tarsalis	Woodland	43	CO2	7/29/16	WNV
Yolo	SAYO135005	4325	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135006	4374	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135006	4375	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135006	4376	Cx. tarsalis	Woodland	2	GRVD	7/29/16	WNV
Yolo	SAYO135009	4396	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135020	4363	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135020	4364	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135020	4365	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135020	4366	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO135020	4367	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO136010	4393	Cx. tarsalis	Woodland	50	CO2	7/29/16	WNV
Yolo	SAYO137011	4607	Cx. tarsalis	West Sacramento	7	CO2	8/2/16	WNV
Yolo	SAYO143008	4407	Cx. pipiens	Winters	12	GRVD	7/29/16	WNV
Yolo	SAYO143010	4408	Cx. tarsalis	Winters	50	CO2	7/29/16	WNV
Yolo	SAYO143010	4410	Cx. tarsalis	Winters	50	CO2	7/29/16	WNV
Yolo	SAYO143010	4414	Cx. pipiens	Winters	33	CO2	7/29/16	WNV
Yolo	SAYO145010	4676	Cx. tarsalis	Davis	50	CO2	8/3/16	WNV
Yolo	SAYO145010	4677	Cx. tarsalis	Davis	24	CO2	8/3/16	WNV
Yolo	SAYO145011	4698	Cx. tarsalis	Davis	50	CO2	8/3/2016	WNV
Yolo	SAYO145011	4699	Cx. tarsalis	Davis	50	CO2	8/3/16	WNV
Yolo	SAYO145011	4700	Cx. tarsalis	Davis	11	CO2	8/3/16	WNV
Yolo	SAYO145018	4659	Cx. tarsalis	Davis	23	CO2	8/3/2016	WNV
Yolo	SAYO146002	4674	Cx. tarsalis	Davis	3	GRVD	8/3/16	WNV
Yolo	SAYO146006	4680	Cx. tarsalis	Davis	50	CO2	8/3/16	WNV

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Yolo	SAYO146006	4682	Cx. tarsalis	Davis	49	CO2	8/3/16	WNV
Yolo	SAYO146006	4684	Cx. pipiens	Davis	2	GRVD	8/3/16	WNV
Yolo	SAYO146017	4690	Cx. tarsalis	Davis	50	CO2	8/3/16	WNV
Yolo	SAYO147013	4612	Cx. tarsalis	West Sacramento	29	CO2	8/2/16	WNV
Yuba	SUYA108	333	Cx. tarsalis	Plumas Lake	35	CO2	8/1/16	WNV
Yuba	SUYA112	339	Cx. tarsalis	Marysville	50	CO2	8/2/16	WNV
Yuba	SUYA8	337	Cx. tarsalis	Marysville	37	CO2	8/2/16	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Los Angeles	ANTV7263	Lancaster	7/27/2016	WNV	1059			
Los Angeles	GRLA2615	Newhall	7/25/2016	WNV	1282	1284	1285	1288
Los Angeles	GRLA2651	Encino	7/25/2016	WNV	1280			
Los Angeles	LACW1007	Baldwin Hills	7/21/2016	WNV	2340			
Los Angeles	LACW1010	Los Angeles	7/11/2016	WNV	2353			
Los Angeles	LONG0003	Long Beach	8/1/2016	WNV	2183			
San Bernardino	SANB0001	Needles	7/12/2016	SLEV	1711			
San Bernardino	SANB0001	Needles	7/27/2016	SLEV	1713			
San Diego	SAND0057	Sorrento Valley	7/26/2016	WNV	1325			
Solano	SOLA0125	Cordelia	7/26/2016	WNV	1877			

Test Protocols

Humans:

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

Dead Birds

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the University of California, Davis Arbovirus Research and Training laboratory (DART) for West Nile virus by the singleplex RT-PCR Taqman assay and confirmed with a second primer set. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are tested by the California Department of Public Health Vector-Borne Disease Laboratory for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by an EIA. Positive samples are confirmed by an IFA, western-blot, or plaque reduction neutralization test.

Mosquito Pools:

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

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Website Information: For updated information on WNV in California, please visit the California WNV website, www.westmile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC website, www.cdc.gov, and the USGS website, www.westmilemaps.usgs.gov
