

California Arbovirus Surveillance Bulletin #26

Week 35 Friday, September 2, 2016



Weekly Update

Humans

A total of 46 new cases of West Nile virus (WNV) illness were reported this week from the following 17 counties: Butte (2), El Dorado (1), Fresno (1), Glenn (1), Kern (1), Los Angeles (17), Madera (1), Orange (1), Riverside (1), Sacramento (5), Santa Clara (1), Stanislaus (5), Sutter (1), Tehama (3), Ventura (2), Yolo (1), and Yuba (2). **These are the first WNV cases reported from El Dorado, Glenn, Madera, Riverside, Santa Clara, and Ventura counties in 2016.** To date this year, 123 cases of WNV illness have been reported from 23 counties. Of the 123 case-patients, 87 (71%) had neuroinvasive illness, and two fatalities have been reported from Sacramento (1) and Yolo (1) counties. The median age of the individuals is 57 years (range: 8-85 years) and 73 (59%) are male. Dates of symptom onset range from June 17 to August 19. In addition, 21 asymptomatic WNV-positive blood donors have been reported from Fresno (2), Los Angeles (4), Orange (2), Sacramento (2), San Diego (2), San Luis Obispo (1), Stanislaus (4), Tehama (1), and Yolo (3) counties.

Dead Birds

This week, a total of 56 dead birds tested positive for WNV from the following 15 counties: Alameda (3), Contra Costa (2), Fresno (1), Kings (1), Los Angeles (11), Orange (8), Placer (4), Sacramento (7), San Diego (8), San Joaquin (2), Sonoma (1), Stanislaus (1), Sutter (1), Ventura (5), and Yolo (1). In 2016, 1,137 dead birds have tested positive for WNV from 32 counties, whereas at this time last year, 685 WNV positive birds had been reported from 36 counties.

Mosquito Pools

West Nile virus

A total of 160 WNV positive mosquito pools were reported this week from the following 19 counties: Butte (1), Contra Costa (2), Fresno (11), Kern (3), Kings (10), Lake (3), Los Angeles (29), Madera (9), Merced (1), Placer (2), Sacramento (20), San Bernardino (9), San Joaquin (20), Shasta (1), Solano (1), Stanislaus (16), Tulare (12), Yolo (8), and Yuba (2). In 2016, 2,939 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 2,303 WNV positive mosquito pools had been reported from 29 counties.

St. Louis encephalitis virus

A total of 17 SLEV positive mosquito pools were reported this week from the following 2 counties: Kern (2), and Riverside (15). To date this year, 127 SLEV positive mosquito pools have been reported from 5 counties. At this time last year, 21 SLEV positive mosquito pools had been reported from Riverside County.

Sentinel Chickens

West Nile virus

A total of 18 WNV seroconversions were reported this week from 12 flocks in 2 counties: Los Angeles (12), and San Bernardino (6). To date this year, 231 WNV seroconversions have been detected in 60 flocks located in 15 counties, whereas at this time last year, 193 WNV seroconversions had been detected in 49 flocks located in 20 counties.

St. Louis encephalitis virus

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

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YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		10	2	
Butte	14	18	44	33
Colusa	1			9
Contra Costa		19	6	5
El Dorado	1	1		
Fresno	5	6	169	
Glenn	1	4	11	9
Kern	6		76	
Kings	1	4	98	
Lake		3	32	2
Los Angeles	41	98	300	66
Madera	1	5	81	
Marin		4		
Merced		5	11	30
Napa			4	
Nevada		2		
Orange	2	46	272	
Placer		22	98	2
Riverside	1	12	29	
Sacramento	9	398	428	
San Bernardino	3	3	77	15
San Diego	3	235	65	9
San Joaquin	4	34	298	
San Mateo		10	5	
Santa Clara	1	71	11	
Santa Cruz		2	3	
Shasta	1	1	9	1
Solano		5	10	2
Sonoma		4	1	
Stanislaus	10	10	231	
Sutter	3	9	68	31
Tehama	4			4
Tulare		3	238	
Ventura	2	25		
Yolo	5	64	244	
Yuba	4	4	18	13
Totals	123	1,137	2,939	231

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	7,981	7,614
# Positive Counties	40	36
# Human Cases	108	123
# Positive Dead Birds / # Tested	685 / 2,144	1,137 / 2,319
# Positive Mosquito Pools / # Tested	2,303 / 25,317	2,939 / 32,887
# Seroconversions / # Tested	193 / 8,686	231 / 7,575

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	46	0	0
	YTD	123	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	94	56
	YTD	2,319	1,137

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	406	18	0	0
	YTD	7,572	231	2	0

Mosquitoes

		Positive / Total Tested					
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		160 / 1,427	17 / 1,177	0 / 1,177	0 / 58	0 / 58	0 / 58
		YTD	2,939 / 32,887	127 / 20,797	0 / 20,797	0 / 275	0 / 275

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/16/2016	WNV
Alameda	Alameda Co MAD	Pleasanton	94566	American Crow	8/25/2016	WNV
Alameda	Alameda Co MAD	Pleasanton	94566	American Crow	8/30/2016	WNV
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	8/30/2016	WNV
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	Western Scrub-Jay	8/31/2016	WNV
Fresno	Fresno Westside MAD	Firebaugh	93622	American Crow	8/23/2016	WNV
Kings	Kings MAD	Hanford	93230	American Crow	8/23/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Harbor City	90710	American Crow	8/15/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90713	American Crow	8/15/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	8/18/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Altadena	91001	American Crow	8/26/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Canyon Country	91351	American Crow	8/31/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Gardena	90249	American Crow	8/25/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91355	American Crow	8/29/2016	WNV
Los Angeles	Los Angeles Co West VCD	Culver City	90230	American Crow	8/30/2016	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90025	American Crow	8/29/2016	WNV
Los Angeles	San Gabriel Valley MVCD	Altadena	91001	Finch	8/14/2016	WNV
Los Angeles	San Gabriel Valley MVCD	Claremont	91711	Rock Dove	8/23/2016	WNV
Orange	Orange Co VCD	Anaheim	92804	American Crow	8/25/2016	WNV
Orange	Orange Co VCD	Anaheim	92807	American Crow	8/24/2016	WNV
Orange	Orange Co VCD	Anaheim	92807	American Crow	8/25/2016	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	8/22/2016	WNV
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	8/25/2016	WNV
Orange	Orange Co VCD	Lake Forest	92630	American Crow	8/25/2016	WNV
Orange	Orange Co VCD	Mission Viejo	92692	American Crow	8/24/2016	WNV
Orange	Orange Co VCD	San Juan Capistrano	92675	American Crow	8/24/2016	WNV
Placer	Placer MVCD	Loomis	95650	Bushtit	8/25/2016	WNV
Placer	Placer MVCD	Newcastle	95658	Western Scrub-Jay	8/29/2016	WNV
Placer	Placer MVCD	Roseville	95678	Barn Owl	8/31/2016	WNV
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	8/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	American Crow	8/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Robin	8/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	Western Scrub-Jay	8/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	House Finch	8/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Hooded Oriole	8/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Lesser Goldfinch	8/25/2016	WNV

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San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/29/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/29/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/29/2016	WNV
San Diego	San Diego Co VCP	Descanso	91916	Western Scrub-Jay	8/29/2016	WNV
San Diego	San Diego Co VCP	Escondido	92029	Sharp-shinned Hawk	9/1/2016	WNV
San Diego	San Diego Co VCP	Fallbrook	92028	American Crow	8/29/2016	WNV
San Diego	San Diego Co VCP	La Jolla	92037	American Crow	8/31/2016	WNV
San Diego	San Diego Co VCP	Valley Center	92082	American Crow	8/29/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Sparrow	8/30/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95215	Yellow-billed Magpie	8/25/2016	WNV
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95409	Western Scrub-Jay	8/30/2016	WNV
Stanislaus	Turlock MAD	Patterson	95363	American Crow	8/24/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	8/25/2016	WNV
Ventura	Ventura Co Env Health Dept	Oak Park	91377	American Crow	8/22/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/17/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/21/2016	WNV
Ventura	Ventura Co Env Health Dept	Thousand Oaks	91362	American Crow	8/17/2016	WNV
Ventura	Ventura Co Env Health Dept	Ventura	93003	American Crow	8/23/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/24/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO68	299	Cx. tarsalis	Gridley	48	CO2	8/29/16	WNV
Contra Costa	CNTR5525	347	Cx. tarsalis	Byron	50	CO2	8/29/16	WNV
Contra Costa	CNTR7202	340	Cx. tarsalis	Bethel Island	50	CO2	8/29/16	WNV
Fresno	CNSL1450	390	Cx. quinquefasciatus	Clovis	48	GRVD	8/25/16	WNV
Fresno	CNSL1731	386	Cx. quinquefasciatus	Fresno	22	GRVD	8/25/16	WNV
Fresno	CNSL1955	396	Cx. quinquefasciatus	Clovis	18	GRVD	8/26/16	WNV
Fresno	FRWS1202	236	Cx. tarsalis	Dos Palos	50	CO2	8/24/16	WNV
Fresno	FRWS1202	237	Cx. tarsalis	Dos Palos	50	CO2	8/24/16	WNV
Fresno	FRWS2105	248	Cx. tarsalis	Dos Palos	50	OTHER	8/30/16	WNV
Fresno	FRWS30042	238	Cx. tarsalis		50	CO2	8/25/16	WNV
Fresno	FRWS30042	239	Cx. tarsalis		50	CO2	8/25/16	WNV
Fresno	FRWS30042	240	Cx. tarsalis		50	CO2	8/25/16	WNV
Fresno	FRWS3201	246	Cx. quinquefasciatus	Firebaugh	20	OTHER	8/30/16	WNV
Fresno	FRWS500010	243	Cx. quinquefasciatus		10	GRVD	8/25/16	WNV
Kern	DLNO26	163	Cx. tarsalis	McFarland	50	CO2	8/25/16	WNV
Kern	DLNO97	165	Cx. quinquefasciatus	Delano	50	CO2	8/25/16	SLEV
Kern	DLNO97	165	Cx. quinquefasciatus	Delano	50	CO2	8/25/16	WNV
Kern	KERN91	415	Cx. tarsalis	Lost Hills	50	CO2	8/23/16	SLEV
Kern	KERN91	415	Cx. tarsalis	Lost Hills	50	CO2	8/23/16	WNV
Kings	KNGS3005	383	Cx. tarsalis	Lemoore NAS	50	CO2	8/23/16	WNV
Kings	KNGS3005	384	Cx. tarsalis	Lemoore NAS	50	CO2	8/23/16	WNV
Kings	KNGS3005	385	Cx. tarsalis	Lemoore NAS	28	CO2	8/23/16	WNV
Kings	KNGS3010	389	Cx. tarsalis	Hanford	44	BGSENT	8/24/16	WNV

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Kings	KNGS3043	386	Cx. tarsalis	Lemoore	12	CO2	8/23/16	WNV
Kings	KNGS3062	400	Cx. tarsalis	Lemoore	50	CO2	8/26/16	WNV
Kings	KNGS3063	379	Cx. pipiens	Lemoore	50	BGSENT	8/23/16	WNV
Kings	KNGS3302	353	Cx. tarsalis	Corcoran	11	BGSENT	8/17/16	WNV
Kings	KNGS4501	394	Cx. pipiens		15	BGSENT	8/25/16	WNV
Kings	KNGS5516	388	Cx. pipiens	Hanford	18	BGSENT	8/24/16	WNV
Lake	LAKE1404	548	Cx. tarsalis	Lakeport	24	REST	8/25/16	WNV
Lake	LAKE315	565	Cx. stigmatosoma	Kelseyville	6	REST	8/30/16	WNV
Lake	LAKE94	587	Cx. tarsalis	Upper Lake	50	CO2	8/31/16	WNV
Los Angeles	GRLA2123	725	Cx. quinquefasciatus	Harbor City	32	GRVD	8/25/16	WNV
Los Angeles	GRLA2221	701	Cx. quinquefasciatus	Rowland Heights	23	GRVD	8/24/16	WNV
Los Angeles	GRLA2222	700	Cx. quinquefasciatus	Rowland Heights	31	GRVD	8/24/16	WNV
Los Angeles	GRLA2228	699	Cx. quinquefasciatus	Diamond Bar	34	GRVD	8/24/16	WNV
Los Angeles	GRLA2321	726	Cx. quinquefasciatus	Carson	50	GRVD	8/25/16	WNV
Los Angeles	GRLA2383	704	Cx. quinquefasciatus	Whittier	49	GRVD	8/24/16	WNV
Los Angeles	GRLA2476	5656	Cx. quinquefasciatus	Sunland	30	GRVD	8/24/16	WNV
Los Angeles	GRLA2492	5670	Cx. quinquefasciatus	La Canada Flintridge	32	GRVD	8/26/16	WNV
Los Angeles	GRLA2550	5660	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/24/16	WNV
Los Angeles	GRLA2592	5672	Cx. quinquefasciatus	San Marino	49	GRVD	8/26/16	WNV
Los Angeles	GRLA2724	5663	Cx. quinquefasciatus	Canoga Park	25	GRVD	8/25/16	WNV
Los Angeles	GRLA3028	5667	Cx. quinquefasciatus	West Hills	13	GRVD	8/25/16	WNV
Los Angeles	GRLA3036	5666	Cx. quinquefasciatus	Canoga Park	27	GRVD	8/25/16	WNV
Los Angeles	GRLA3042	706	Cx. quinquefasciatus	Hacienda Heights	10	GRVD	8/24/16	WNV
Los Angeles	GRLA3045	703	Cx. quinquefasciatus	Whittier	41	GRVD	8/24/16	WNV
Los Angeles	GRLA3046	720	Cx. quinquefasciatus	Bellflower	45	GRVD	8/25/16	WNV
Los Angeles	GRLA3047	721	Cx. quinquefasciatus	Downey	50	GRVD	8/25/16	WNV
Los Angeles	GRLA3052	702	Cx. quinquefasciatus	La Habra Heights	37	GRVD	8/24/16	WNV
Los Angeles	GRLA3053	705	Cx. quinquefasciatus	Hacienda Heights	32	GRVD	8/24/16	WNV
Los Angeles	GRLA3055	711	Cx. quinquefasciatus	Maywood	50	GRVD	8/25/16	WNV
Los Angeles	GRLA3057	714	Cx. quinquefasciatus	Huntington Park	50	GRVD	8/25/16	WNV
Los Angeles	GRLA3067	728	Cx. quinquefasciatus	Gardena	50	GRVD	8/25/16	WNV
Los Angeles	GRLA3132	5674	Cx. quinquefasciatus	Eagle Rock	35	GRVD	8/26/16	WNV
Los Angeles	GRLA3133	5653	Cx. quinquefasciatus	San Fernando	25	GRVD	8/24/16	WNV
Los Angeles	LACW1080	350	Cx. erythrothorax	Playa Vista	50	CO2	8/25/16	WNV
Los Angeles	SGVA25	347	Cx. quinquefasciatus	Baldwin Park	50	GRVD	8/17/16	WNV
Los Angeles	SGVA712	337	Cx. quinquefasciatus	Arcadia	2	BGSENT	8/15/16	WNV
Los Angeles	SGVA761	341	Cx. quinquefasciatus	El Monte	42	BGSENT	8/15/16	WNV
Los Angeles	SGVA9	351	Cx. quinquefasciatus	Walnut	48	GRVD	8/17/16	WNV
Madera	MADR109	312	Cx. quinquefasciatus	Madera	33	CO2	8/26/16	WNV
Madera	MADR1111	300	Ae. aegypti	Madera	6	CO2	8/23/16	WNV
Madera	MADR178	313	Cx. quinquefasciatus	Madera	50	CO2	8/26/16	WNV
Madera	MADR195	309	Cx. quinquefasciatus	Madera	37	CO2	8/25/16	WNV
Madera	MADR204	287	Cx. quinquefasciatus	Madera	19	CO2	8/23/16	WNV
Madera	MADR227	302	Cx. quinquefasciatus	Madera	50	CO2	8/24/16	WNV
Madera	MADR239	290	Cx. quinquefasciatus	Madera	50	CO2	8/23/16	WNV
Madera	MADR259	286	Cx. quinquefasciatus	Madera	45	CO2	8/23/16	WNV
Madera	MADR3334	301	Cx. quinquefasciatus	Madera	50	CO2	8/23/16	WNV
Merced	MERC404	243	Cx. pipiens	Hilmar	36	CO2	8/31/16	WNV
Placer	PLCR183970	2117	Cx. stigmatosoma	Auburn	2	CO2	8/31/16	WNV
Placer	PLCR95	2037	Cx. tarsalis	Lincoln	38	CO2	8/30/16	WNV
Riverside	COAV121	3059	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV30	3037	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV33	3047	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV

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Riverside	COAV35	3044	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV45	3062	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV45	3063	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV45	3064	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV45	3065	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV45	3066	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV46	3049	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV46	3050	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV48	3041	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV611	3052	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV611	3055	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Riverside	COAV611	3056	Cx. tarsalis	Mecca	50	CO2	8/30/16	SLEV
Sacramento	SAYO201006	6071	Cx. tarsalis	Sacramento	50	CO2	8/25/16	WNV
Sacramento	SAYO204051	6043	Cx. tarsalis	Citrus Heights	7	CO2	8/25/16	WNV
Sacramento	SAYO205029	6031	Cx. pipiens	Orangevale	14	GRVD	8/25/16	WNV
Sacramento	SAYO212021	6425	Cx. tarsalis	Sacramento	27	CO2	9/1/16	WNV
Sacramento	SAYO212021	6427	Cx. pipiens	Sacramento	9	GRVD	9/1/16	WNV
Sacramento	SAYO212033	6063	Cx. tarsalis	Sacramento	28	CO2	8/25/16	WNV
Sacramento	SAYO212033	6065	Cx. pipiens	Sacramento	14	GRVD	8/25/16	WNV
Sacramento	SAYO213048	6013	Cx. pipiens	Sacramento	8	GRVD	8/25/16	WNV
Sacramento	SAYO232012	6142	Cx. pipiens	Elk Grove	5	CO2	8/26/16	WNV
Sacramento	SAYO233041	6145	Cx. pipiens	Elk Grove	20	CO2	8/26/16	WNV
Sacramento	SAYO243027	6114	Cx. pipiens	Elk Grove	20	GRVD	8/26/16	WNV
Sacramento	SAYO243032	6116	Cx. tarsalis	Elk Grove	50	CO2	8/26/16	WNV
Sacramento	SAYO243033	6131	Cx. tarsalis	elk grove	37	CO2	8/26/16	WNV
Sacramento	SAYO244002	6210	Cx. tarsalis	Galt	50	CO2	8/30/16	WNV
Sacramento	SAYO244002	6211	Cx. tarsalis	Galt	38	CO2	8/30/16	WNV
Sacramento	SAYO245008	6216	Cx. tarsalis	Wilton	50	CO2	8/30/16	WNV
Sacramento	SAYO254022	6194	Cx. pipiens	Galt	50	CO2	8/30/16	WNV
Sacramento	SAYO255007	6206	Cx. tarsalis	Herald	50	CO2	8/30/16	WNV
Sacramento	SAYO271007	6493	Cx. tarsalis	Isleton	50	CO2	9/1/16	WNV
Sacramento	SAYO271007	6495	Cx. pipiens	Isleton	21	CO2	9/1/16	WNV
San Bernardino	SANB61	591	Cx. quinquefasciatus	Loma Linda	9	CO2	8/30/16	WNV
San Bernardino	WVAL2007	1946	Cx. quinquefasciatus	Ontario	7	CO2	8/31/16	WNV
San Bernardino	WVAL2011	1922	Cx. quinquefasciatus	Chino	50	CO2	8/31/16	WNV
San Bernardino	WVAL2012	1943	Cx. quinquefasciatus	Chino	34	CO2	8/31/16	WNV
San Bernardino	WVAL2018	1992	Cx. quinquefasciatus	Chino	15	GRVD	8/31/16	WNV
San Bernardino	WVAL5009	1956	Cx. quinquefasciatus	Rancho Cucamonga	7	GRVD	8/31/16	WNV
San Bernardino	WVAL6003	1927	Cx. quinquefasciatus	Ontario	12	GRVD	8/31/16	WNV
San Bernardino	WVAL6003	1928	Cx. quinquefasciatus	Ontario	25	GRVD	8/31/16	WNV
San Bernardino	WVAL7002	1931	Cx. quinquefasciatus	Montclair	15	GRVD	8/31/16	WNV
San Joaquin	SJCM7022	2226	Cx. pipiens	Stockton	20	CO2	8/30/16	WNV
San Joaquin	SJCM8004	2191	Cx. pipiens	Lodi	55	CO2	8/30/16	WNV
San Joaquin	SJCM8010	2230	Cx. tarsalis	Ripon	9	CO2	8/30/16	WNV
San Joaquin	SJCM8018	2180	Cx. tarsalis	Stockton	50	CO2	8/30/16	WNV
San Joaquin	SJCM8018	2182	Cx. pipiens	Stockton	6	CO2	8/30/16	WNV
San Joaquin	SJCM8026	2199	Cx. tarsalis	Stockton	52	CO2	8/30/16	WNV
San Joaquin	SJCM8029	2252	Cx. tarsalis	Farmington	14	CO2	9/1/16	WNV
San Joaquin	SJCM8032	2254	Cx. tarsalis	Escalon	16	CO2	9/1/16	WNV
San Joaquin	SJCM8032	2255	Cx. pipiens	Escalon	39	CO2	9/1/16	WNV
San Joaquin	SJCM8056	2210	Cx. pipiens	Manteca	51	CO2	8/30/16	WNV
San Joaquin	SJCM8094	2229	Cx. tarsalis	Manteca	10	CO2	8/30/16	WNV
San Joaquin	SJCM8111	2237	Cx. tarsalis	Stockton	50	CO2	8/30/16	WNV

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San Joaquin	SJCM8111	2241	Cx. pipiens	Stockton	100	CO2	8/30/16	WNV
San Joaquin	SJCM8111	2242	Cx. pipiens	Stockton	100	CO2	8/30/16	WNV
San Joaquin	SJCM8160	2183	Cx. tarsalis	Lodi	50	CO2	8/30/16	WNV
San Joaquin	SJCM8160	2184	Cx. tarsalis	Lodi	48	CO2	8/30/16	WNV
San Joaquin	SJCM8161	2221	Cx. pipiens	Ripon	50	CO2	8/30/16	WNV
San Joaquin	SJCM8161	2223	Cx. pipiens	Ripon	50	CO2	8/30/16	WNV
San Joaquin	SJCM8161	2224	Cx. pipiens	Ripon	50	CO2	8/30/16	WNV
San Joaquin	SJCM8161	2225	Cx. pipiens	Ripon	12	CO2	8/30/16	WNV
Shasta	SHAS398	438	Cx. tarsalis		21	CO2	8/30/16	WNV
Solano	SOLA13	192	Cx. tarsalis	Dixon	7	CO2	8/25/16	WNV
Stanislaus	TRLK1107	946	Cx. tarsalis	Denair	50	CO2	8/30/16	WNV
Stanislaus	TRLK1107	947	Cx. pipiens	Denair	31	CO2	8/30/16	WNV
Stanislaus	TRLK1209	920	Cx. pipiens	Ceres	50	CO2	8/30/16	WNV
Stanislaus	TRLK1209	921	Cx. tarsalis	Ceres	50	CO2	8/30/16	WNV
Stanislaus	TRLK1219	964	Cx. pipiens	Modesto	31	CO2	8/30/16	WNV
Stanislaus	TRLK1302	913	Cx. pipiens	turlock	5	CO2	8/30/16	WNV
Stanislaus	TRLK16146	904	Cx. pipiens	Denair	50	CO2	8/24/16	WNV
Stanislaus	TRLK16151	943	Cx. pipiens	Turlock	26	CO2	8/30/16	WNV
Stanislaus	TRLK421	944	Cx. pipiens	Hughson	50	CO2	8/30/16	WNV
Stanislaus	TRLK432	930	Cx. pipiens	Turlock	50	CO2	8/30/16	WNV
Stanislaus	TRLK432	932	Cx. tarsalis	Turlock	50	CO2	8/30/16	WNV
Stanislaus	TRLK516	948	Cx. pipiens	Denair	50	CO2	8/30/16	WNV
Stanislaus	TRLK516	954	Cx. pipiens	Denair	50	CO2	8/30/16	WNV
Stanislaus	TRLK516	956	Cx. tarsalis	Denair	50	CO2	8/30/16	WNV
Stanislaus	TRLK536	916	Cx. pipiens	Turlock	50	CO2	8/30/16	WNV
Stanislaus	TRLK613	958	Cx. tarsalis	Hickman	50	CO2	8/30/16	WNV
Tulare	DLNO71	164	Cx. quinquefasciatus	Delano	50	CO2	8/25/16	WNV
Tulare	DLNO96	162	Cx. tarsalis	Earlimart	50	CO2	8/25/16	WNV
Tulare	DLTA8514	2298	Cx. quinquefasciatus	Visalia	34	CO2	8/30/16	WNV
Tulare	DLTA8514	2300	Cx. quinquefasciatus	Visalia	12	GRVD	8/30/16	WNV
Tulare	DLTA9412	2279	Cx. quinquefasciatus	Visalia	17	GRVD	8/26/16	WNV
Tulare	DLTA9501	2262	Cx. quinquefasciatus	Farmersville	14	GRVD	8/24/16	WNV
Tulare	DLTA9512	2265	Cx. quinquefasciatus	Farmersville	45	GRVD	8/24/16	WNV
Tulare	DLTA9602	2277	Cx. quinquefasciatus	Exeter	30	GRVD	8/25/16	WNV
Tulare	DLTA9602	2284	Cx. quinquefasciatus	Exeter	37	GRVD	8/26/16	WNV
Tulare	DLTA9603	2255	Cx. quinquefasciatus	Exeter	14	GRVD	8/24/16	WNV
Tulare	DLTA9606	2308	Cx. quinquefasciatus	Farmersville	50	GRVD	8/30/16	WNV
Tulare	DLTA9606	2309	Cx. quinquefasciatus	Farmersville	21	GRVD	8/30/16	WNV
Yolo	SAYO103012	6333	Cx. tarsalis	Woodland	38	CO2	8/30/16	WNV
Yolo	SAYO124007	6394	Cx. tarsalis	Woodland	11	CO2	9/1/16	WNV
Yolo	SAYO135006	6411	Cx. tarsalis	Woodland	50	CO2	9/1/16	WNV
Yolo	SAYO135006	6414	Cx. tarsalis	Woodland	41	CO2	9/1/16	WNV
Yolo	SAYO143008	6243	Cx. pipiens	Winters	50	GRVD	8/30/16	WNV
Yolo	SAYO143008	6244	Cx. pipiens	Winters	49	GRVD	8/30/16	WNV
Yolo	SAYO145016	6360	Cx. pipiens	Davis	9	GRVD	9/1/16	WNV
Yolo	SAYO146006	6365	Cx. tarsalis	Davis	50	CO2	9/1/16	WNV
Yuba	SUYA108	405	Cx. tarsalis	Plumas Lake	25	CO2	8/30/16	WNV
Yuba	SUYA37	406	Cx. tarsalis	Marysville	30	CO2	8/30/16	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Los Angeles	ANTV3247	Lancaster	8/24/2016	WNV	1002	1003
Los Angeles	ANTV8652	Palmdale	8/24/2016	WNV	1034	
Los Angeles	GRLA2132	Wilmington	8/24/2016	WNV	1218	
Los Angeles	GRLA2223	Rowland Heights	8/24/2016	WNV	1209	
Los Angeles	GRLA2371	South El Monte	8/25/2016	WNV	1236	1239
Los Angeles	GRLA2465	Los Feliz	8/22/2016	WNV	1241	1248
Los Angeles	GRLA2615	Newhall	8/22/2016	WNV	1286	
Los Angeles	GRLA2651	Encino	8/22/2016	WNV	1273	1277
San Bernardino	SANB0003	Colton	8/23/2016	WNV	1728	
San Bernardino	SANB0007	Fontana	8/24/2016	WNV	1744	
San Bernardino	SANB0011	Rialto	8/23/2016	WNV	1767	1771
San Bernardino	SANB0029	San Bernardino	8/22/2016	WNV	1703	1777

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
