

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016



Weekly Update

Humans

A total of 24 new cases of West Nile virus (WNV) illness were reported this week from the following 6 counties: Butte (7), Los Angeles (9) Sacramento (2), San Bernardino (3), Stanislaus (1), and Yolo (2). **These are the first WNV cases reported from Butte, San Bernardino, and Yolo counties in 2016.** To date this year, 46 cases of WNV illness have been reported from 13 counties. Of the 46 case-patients, 31 (67%) had neuroinvasive illness, and two fatalities have been reported from Sacramento (1) and Yolo (1) counties. The median age of the individuals is 59 years (range: 15-85 years) and 21 (46%) are male. Dates of symptom onset range from June 17 to August 3. In addition, 9 asymptomatic WNV-positive blood donors have been reported from Los Angeles (3), Orange (2), Stanislaus (1), Tehama (1), and Yolo (2) counties. At this time last year, 57 cases of WNV illness had been reported from 13 counties.

Dead Birds

This week, a total of 96 dead birds tested positive for WNV from the following 19 counties: Butte (2), Contra Costa (1), Glenn (1), Los Angeles (8), Marin (1), Nevada (1), Orange (15), Placer (2), Riverside (4), Sacramento (20), San Bernardino (3), San Diego (12), San Joaquin (3), Santa Clara (11), Sonoma (1), Sutter (1), Ventura (3), Yolo (6), and Yuba (1). **These are the first positive dead birds from San Bernardino and Sonoma Counties this year.** In 2016, 1,007 dead birds have tested positive for WNV from 31 counties, whereas at this time last year, 503 WNV positive birds had been reported from 36 counties.

Mosquito Pools

West Nile virus

A total of 341 WNV positive mosquito pools were reported this week from the following 22 counties: Butte (3), Fresno (22), Kern (9), Kings (18), Lake (4), Los Angeles (49), Madera (14), Merced (2), Napa (2), Orange (71), Placer (9), Riverside (1), Sacramento (32), San Bernardino (6), San Joaquin (36), San Mateo (1), Shasta (1), Stanislaus (19), Sutter (5), Tulare (8), Yolo (28), and Yuba (1). To date this year, 2,562 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 1,768 WNV positive mosquito pools had been reported from 29 counties.

St. Louis encephalitis virus

A total of 12 SLEV positive mosquito pools were reported this week from the following 4 counties: Kern (8), Los Angeles (1), Orange (2), and Tulare (1). **This is the first detection of SLEV in Los Angeles, Orange, and Tulare Counties this year.** To date this year, 92 SLEV positive mosquito pools have been reported from five counties (including Riverside). At this time last year, 14 SLEV positive mosquito pools had been reported from Riverside County.

Sentinel Chickens

West Nile virus

A total of 26 WNV seroconversions were reported this week from 12 flocks in 3 counties: Solano (1), Los Angeles (18), and San Bernardino (7). To date this year, 161 WNV seroconversions have been detected in 45 flocks located in 13 counties, whereas at this time last year, 150 WNV seroconversions had been detected in 44 flocks located in 18 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.

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		7	2	
Butte	7	15	38	25
Colusa				6
Contra Costa		13	4	3
Fresno	3	4	149	
Glenn		3	11	8
Kern	4		64	
Kings		3	75	
Lake		3	22	
Los Angeles	14	72	231	37
Madera		5	60	
Marin		4		
Merced		4	8	23
Napa			4	
Nevada		2		
Orange	1	34	240	
Placer		17	95	2
Riverside		11	29	
Sacramento	4	378	399	
San Bernardino	3	3	60	9
San Diego	1	220	65	9
San Joaquin	1	29	264	
San Mateo		10	5	
Santa Clara		66	10	
Santa Cruz		2	3	
Shasta		1	6	
Solano		3	5	2
Sonoma		1	1	
Stanislaus	4	6	202	
Sutter		7	68	25
Tehama	1			2
Tulare		2	218	
Ventura		20		
Yolo	2	59	208	
Yuba	1	3	16	10
Totals	46	1,007	2,562	161

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	7,275	7,060
# Positive Counties	39	35
# Human Cases	57	46
# Positive Dead Birds / # Tested	503 / 1,868	1,007 / 2,111
# Positive Mosquito Pools / # Tested	1,768 / 21,758	2,562 / 30,297
# Seroconversions / # Tested	150 / 8,067	161 / 6,748

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	24	0	0
	YTD	46	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	135	96
	YTD	2,111	1,007

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	337	26	0	0
	YTD	6,748	161	2	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	341 / 1,770	12 / 1,164	0 / 1,162	0 / 18	0 / 18	0 / 18
	YTD	2,562 / 30,297	92 / 18,791	0 / 18,789	0 / 201	0 / 201	0 / 201

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

NEW POSITIVES

Dead Birds

County	Agency	City	ZIP Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95973	Western Scrub-Jay	8/9/16	WNV
Butte	Butte Co MVCD	Oroville	95965	Canada Goose	8/11/16	WNV
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	8/18/16	WNV
Glenn	Glenn Co MVCD	Orland	95963	American Crow	8/15/16	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Valencia	91354	American Crow	8/12/16	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	West Hills	91307	American Crow	8/10/16	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	West Hills	91307	American Crow	8/10/16	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	91406	American Crow	8/16/16	WNV
Los Angeles	Los Angeles Co Veterinarian	North Hollywood	91606	American Crow	8/15/16	WNV
Los Angeles	Los Angeles Co Veterinarian	Sherman Oaks	91401	American Crow	8/16/16	WNV
Los Angeles	Los Angeles Co Veterinarian	Van Nuys	91401	American Crow	8/10/16	WNV
Los Angeles	Los Angeles Co Veterinarian	Winnetka	91306	American Crow	8/15/16	WNV
Marin	Marin-Sonoma MVCD	San Rafael	94903	American Crow	8/15/16	WNV
Nevada	Nevada Co Env Health - Nevada City	Grass Valley	95949	American Crow	8/8/16	WNV
Orange	Orange Co VCD	Anaheim	92807	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Anaheim Hills	92807	Mourning Dove	8/16/16	WNV
Orange	Orange Co VCD	Cypress	90630	American Crow	8/10/16	WNV
Orange	Orange Co VCD	Dana point	92624	House Finch	8/12/16	WNV
Orange	Orange Co VCD	Huntington Beach	92646	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Irvine	92612	American Crow	8/11/16	WNV
Orange	Orange Co VCD	Irvine	92614	American Crow	8/1/16	WNV
Orange	Orange Co VCD	Irvine	92614	American Crow	8/1/16	WNV
Orange	Orange Co VCD	Irvine	92620	American Crow	8/8/16	WNV
Orange	Orange Co VCD	Lake Forest	92630	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Orange	92866	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Placentia	92870	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Santa Ana	92706	American Crow	8/15/16	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	8/12/16	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/10/16	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/12/16	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/7/16	WNV
Riverside	Northwest Mosquito VCD	Mira Loma	91752	American Crow	8/7/16	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/2/16	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	American Crow	8/8/16	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	8/14/16	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/11/16	WNV

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/15/16	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	Western Scrub-Jay	8/9/16	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	Yellow-billed Magpie	8/14/16	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	8/9/16	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	8/13/16	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	8/15/16	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/11/16	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Western Scrub-Jay	8/12/16	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	8/10/16	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	8/15/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	Northern Mockingbird	8/10/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Screech Owl	8/15/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	American Crow	8/15/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/16/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Crow	8/10/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	8/13/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	House Finch	8/9/16	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	8/9/16	WNV
San Bernardino	San Bernardino Vector Control Program	Fontana	92335	American Crow	8/11/16	WNV
San Bernardino	San Bernardino Vector Control Program	Yucaipa	92399	American Crow	8/17/16	WNV
San Bernardino	West Valley MVCD	Rancho Cucamonga	91701	American Crow	8/11/16	WNV
San Diego	San Diego Co VCP	Alpine	91901	American Crow	8/11/16	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	8/16/16	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	8/15/16	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	8/16/16	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	8/15/16	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/16/16	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/16/16	WNV
San Diego	San Diego Co VCP	Escondido	92027	Common Raven	8/16/16	WNV
San Diego	San Diego Co VCP	Escondido	92027	Common Raven	8/16/16	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	8/11/16	WNV
San Diego	San Diego Co VCP	San Diego	92071	American Crow	8/16/16	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	8/16/16	WNV
San Joaquin	San Joaquin Co MVCD	Acampo	95220	American Crow	8/12/16	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Sparrow	8/16/16	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Unknown	8/12/16	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	8/11/16	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/11/16	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	Western Scrub-Jay	8/12/16	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/18/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	8/11/16	WNV

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	8/14/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	Common Raven	8/18/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	8/11/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	8/17/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/16/16	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/18/16	WNV
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	8/15/16	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	8/10/16	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/11/16	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/11/16	WNV
Ventura	Ventura Co Env Health Dept	Thousand Oaks	91362	American Crow	8/9/16	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/10/16	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/10/16	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/10/16	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/11/16	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	8/15/16	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95776	Western Scrub-Jay	8/10/16	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	Finch	8/10/16	WNV

Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Butte	BUCO121	261	Biggs	Cx. tarsalis	50	CO2	8/15/2016	WNV	RTPCR
Butte	BUCO43	265	Chico	Cx. tarsalis	50	CO2	8/15/2016	WNV	RTPCR
Butte	BUCO9	252	Chico	Cx. tarsalis	50	CO2	8/10/2016	WNV	RTPCR
Fresno	CNSLO	351		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSLO	354		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSLO	355		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSLO	357		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSLO	358		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSLO	360		Unknown	50	NA	8/18/2016	WNV	RTPCR
Fresno	CNSL1399	346	Clovis	Cx. quinquefasciatus	26	GRVD	8/10/2016	WNV	RTPCR
Fresno	CNSL1464	345	Clovis	Cx. quinquefasciatus	32	GRVD	8/10/2016	WNV	RTPCR
Fresno	CNSL2458	349	Sanger	Cx. quinquefasciatus	18	GRVD	8/11/2016	WNV	RTPCR
Fresno	CNSL2459	350	Sanger	Cx. quinquefasciatus	23	GRVD	8/11/2016	WNV	RTPCR
Fresno	FRWS100006	206	Dos Palos	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS100006	207	Dos Palos	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS100022	192		Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR
Fresno	FRWS1101	201	Dos Palos	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS1101	203	Dos Palos	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS300011	210	Firebaugh	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS400017	215	Mendota	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS400017	216	Mendota	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS400017	217	Mendota	Cx. quinquefasciatus	50	CO2	8/16/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Fresno	FRWS400017	218	Mendota	Cx. quinquefasciatus	50	CO2	8/16/2016	WNV	RTPCR
Fresno	FRWS5110	221	Tranquillity	Cx. quinquefasciatus	13	GRVD	8/16/2016	WNV	RTPCR
Fresno	PLCR668	1858	Elverta	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Kern	DLNO29	144	Delano	Cx. quinquefasciatus	39	GRVD	8/12/2016	SLEV	RTPCR
Kern	DLNO87	154	McFarland	Cx. quinquefasciatus	25	GRVD	8/16/2016	SLEV	RTPCR
Kern	KERN111	395	Arvin	Cx. quinquefasciatus	50	CO2	8/9/2016	SLEV	RTPCR
Kern	KERN114	394	Bakersfield	Cx. quinquefasciatus	24	CO2	8/9/2016	SLEV	RTPCR
Kern	KERN1144	400	Bakersfield	Cx. tarsalis	43	CO2	8/10/2016	SLEV	RTPCR
Kern	KERN2041	393	Arvin	Cx. quinquefasciatus	18	GRVD	8/9/2016	SLEV	RTPCR
Kern	KERN3030	402	Shafter	Cx. tarsalis	50	CO2	8/11/2016	SLEV	RTPCR
Kern	KERN45	398	Buttonwillow	Cx. quinquefasciatus	50	CO2	8/9/2016	SLEV	RTPCR
Kern	DLNO2	142		Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Kern	DLNO29	144	Delano	Cx. quinquefasciatus	39	GRVD	8/12/2016	WNV	RTPCR
Kern	DLNO34	153	McFarland	Cx. quinquefasciatus	34	GRVD	8/16/2016	WNV	RTPCR
Kern	DLNO40	145	Delano	Cx. quinquefasciatus	27	GRVD	8/12/2016	WNV	RTPCR
Kern	DLNO5	147	Delano	Cx. quinquefasciatus	30	GRVD	8/12/2016	WNV	RTPCR
Kern	DLNO87	154	McFarland	Cx. quinquefasciatus	25	GRVD	8/16/2016	WNV	RTPCR
Kern	KERN1104	397	Wasco	Cx. tarsalis	45	CO2	8/9/2016	WNV	RTPCR
Kern	KERN111	395	Arvin	Cx. quinquefasciatus	50	CO2	8/9/2016	WNV	RTPCR
Kern	KERN45	398	Buttonwillow	Cx. quinquefasciatus	50	CO2	8/9/2016	WNV	RTPCR
Kings	KNGS3010	337	Hanford	Cx. tarsalis	21	BGSENT	8/12/2016	WNV	RTPCR
Kings	KNGS3010	338	Hanford	Cx. pipiens	31	BGSENT	8/12/2016	WNV	RTPCR
Kings	KNGS3018	315	Lemoore	Cx. tarsalis	24	CO2	8/10/2016	WNV	RTPCR
Kings	KNGS3018	316	Lemoore	Cx. tarsalis	50	CO2	8/10/2016	WNV	RTPCR
Kings	KNGS3026	323	Hanford	Cx. pipiens	50	BGSENT	8/11/2016	WNV	RTPCR
Kings	KNGS3026	325	Hanford	Cx. pipiens	50	BGSENT	8/11/2016	WNV	RTPCR
Kings	KNGS3026	326	Hanford	Cx. pipiens	50	BGSENT	8/11/2016	WNV	RTPCR
Kings	KNGS3026	328	Hanford	Cx. tarsalis	50	BGSENT	8/11/2016	WNV	RTPCR
Kings	KNGS3061	333	Guernsey	Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR
Kings	KNGS3062	317	Lemoore	Cx. tarsalis	50	CO2	8/10/2016	WNV	RTPCR
Kings	KNGS3062	322	Lemoore	Cx. pipiens	27	CO2	8/10/2016	WNV	RTPCR
Kings	KNGS3077	311	Hanford	Cx. pipiens	34	BGSENT	8/10/2016	WNV	RTPCR
Kings	KNGS4401	297	Lemoore	Cx. tarsalis	32	BGSENT	8/9/2016	WNV	RTPCR
Kings	KNGS4401	298	Lemoore	Cx. pipiens	50	BGSENT	8/9/2016	WNV	RTPCR
Kings	KNGS4401	299	Lemoore	Cx. pipiens	50	BGSENT	8/9/2016	WNV	RTPCR
Kings	KNGS4404	296	Lemoore	Cx. pipiens	19	BGSENT	8/9/2016	WNV	RTPCR
Kings	KNGS4405	305	Lemoore	Cx. pipiens	36	BGSENT	8/9/2016	WNV	RTPCR
Kings	KNGS8022	308	Lemoore	Cx. tarsalis	12	CO2	8/9/2016	WNV	RTPCR
Lake	LAKE1404	470	Lakeport	Cx. tarsalis	36	REST	8/8/2016	WNV	RTPCR
Lake	LAKE315	483	Kelseyville	Cx. tarsalis	47	CO2	8/16/2016	WNV	RTPCR
Lake	LAKE325	499	Upper Lake	Cx. tarsalis	50	CO2	8/17/2016	WNV	RTPCR
Lake	LAKE80	494	Upper Lake	Cx. tarsalis	34	REST	8/17/2016	WNV	RTPCR
Los Angeles	GRLA3045	639	Whittier	Cx. quinquefasciatus	51	GRVD	8/10/2016	SLEV	RTPCR
Los Angeles	GRLA2021	5605	Reseda	Cx. quinquefasciatus	14	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2023	5606	Reseda	Cx. quinquefasciatus	21	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2029	5598	Canoga Park	Cx. quinquefasciatus	17	GRVD	8/10/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Los Angeles	GRLA2030	5599	West Hills	Cx. quinquefasciatus	16	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2031	5608	Northridge	Cx. quinquefasciatus	25	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2032	5607	Northridge	Cx. quinquefasciatus	41	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2065	660	Gardena	Cx. quinquefasciatus	35	GRVD	8/12/2016	WNV	RTPCR
Los Angeles	GRLA2194	629	South El Monte	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2222	635	Rowland Heights	Cx. quinquefasciatus	43	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2228	634	Diamond Bar	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2270	652	Bellflower	Cx. quinquefasciatus	17	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2383	640	Whittier	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2438	5601	Chatsworth	Cx. quinquefasciatus	20	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2539	5610	Northridge	Cx. quinquefasciatus	22	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2540	5609	Porter Ranch	Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2554	5595	Winnetka	Cx. quinquefasciatus	15	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2555	5603	Encino	Cx. quinquefasciatus	32	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2635	5602	Van Nuys	Cx. quinquefasciatus	19	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA2724	5597	Canoga Park	Cx. quinquefasciatus	21	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA2995	5596	Woodland Hills	Cx. quinquefasciatus	13	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA3044	630	South El Monte	Cx. quinquefasciatus	41	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA3045	639	Whittier	Cx. quinquefasciatus	51	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA3046	653	Bellflower	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA3053	637	Hacienda Heights	Cx. quinquefasciatus	35	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	GRLA3057	647	Huntington Park	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	GRLA3067	661	Gardena	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Los Angeles	SGVA24	313	Altadena	Cx. quinquefasciatus	20	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	SGVA24	345	Altadena	Cx. quinquefasciatus	32	GRVD	8/17/2016	WNV	RAMP
Los Angeles	SGVA25	349	Baldwin Park	Cx. quinquefasciatus	50	GRVD	8/17/2016	WNV	RAMP
Los Angeles	SGVA25	350	Baldwin Park	Cx. quinquefasciatus	25	GRVD	8/17/2016	WNV	RAMP
Los Angeles	SGVA32	282	Arcadia	Cx. quinquefasciatus	50	GRVD	8/3/2016	WNV	RTPCR
Los Angeles	SGVA4	317	Arcadia	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RTPCR
Los Angeles	SGVA4	318	Arcadia	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RAMP
Los Angeles	SGVA4	319	Arcadia	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RAMP
Los Angeles	SGVA4	320	Arcadia	Cx. quinquefasciatus	37	GRVD	8/10/2016	WNV	RAMP
Los Angeles	SGVA64	311	West Covina	Cx. quinquefasciatus	45	GRVD	8/10/2016	WNV	RAMP
Los Angeles	SGVA64	330	West Covina	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA64	332	West Covina	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA64	334	West Covina	Cx. quinquefasciatus	31	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA8	322	Pomona	Cx. tarsalis	14	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA8	324	Pomona	Cx. quinquefasciatus	18	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA868	314	Pomona	Cx. quinquefasciatus	50	GRVD	8/10/2016	WNV	RAMP
Los Angeles	SGVA892	353	San Dimas	Cx. quinquefasciatus	50	GRVD	8/17/2016	WNV	RAMP
Los Angeles	SGVA892	354	San Dimas	Cx. quinquefasciatus	29	GRVD	8/17/2016	WNV	RAMP
Los Angeles	SGVA898	325	San Gabriel	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Los Angeles	SGVA898	326	San Gabriel	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA898	327	San Gabriel	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA898	328	San Gabriel	Cx. quinquefasciatus	48	GRVD	8/11/2016	WNV	RAMP
Los Angeles	SGVA915	356	San Dimas	Cx. quinquefasciatus	38	GRVD	8/18/2016	WNV	RAMP

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Madera	MADR1057	225	Chowchilla	Cx. quinquefasciatus	24	CO2	8/9/2016	WNV	RTPCR
Madera	MADR1087	256	Madera	Aedes aegypti	19	BGSENT	8/12/2016	WNV	RTPCR
Madera	MADR12	247	Madera	Cx. quinquefasciatus	26	CO2	8/12/2016	WNV	RTPCR
Madera	MADR192	251	Madera	Cx. quinquefasciatus	27	CO2	8/12/2016	WNV	RTPCR
Madera	MADR239	243	Madera	Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Madera	MADR301	224	Chowchilla	Cx. quinquefasciatus	25	CO2	8/9/2016	WNV	RTPCR
Madera	MADR306	227	Chowchilla	Cx. quinquefasciatus	50	CO2	8/9/2016	WNV	RTPCR
Madera	MADR309	233	Madera	Cx. quinquefasciatus	11	CO2	8/11/2016	WNV	RTPCR
Madera	MADR3334	238	Madera	Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Madera	MADR3334	239	Madera	Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Madera	MADR3334	240	Madera	Cx. quinquefasciatus	50	CO2	8/11/2016	WNV	RTPCR
Madera	MADR3334	241	Madera	Cx. quinquefasciatus	8	CO2	8/11/2016	WNV	RTPCR
Madera	MADR993	226	Chowchilla	Cx. quinquefasciatus	50	CO2	8/9/2016	WNV	RTPCR
Madera	MADR994	229	Madera	Cx. tarsalis	20	CO2	8/10/2016	WNV	RTPCR
Merced	FRWS100009	195	Dos Palos	Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR
Merced	FRWS100009	197	Dos Palos	Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR
Napa	NAPA2814	79	Napa	Cx. tarsalis	21	CO2	8/11/2016	WNV	RTPCR
Napa	NAPA2833	89	American Canyon	Cx. pipiens	50	CO2	8/18/2016	WNV	RTPCR
Orange	ORCO3	2846	Garden Grove	Cx. quinquefasciatus	30	GRVD	8/11/2016	SLEV	RTPCR
Orange	ORCO3	2847	Garden Grove	Cx. quinquefasciatus	25	GRVD	8/11/2016	SLEV	RTPCR
Orange	ORCO1005	2970	Buena Park	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1005	3007	Buena Park	Cx. quinquefasciatus	50	OTHER	8/16/2016	WNV	RTPCR
Orange	ORCO1005	3034	Buena Park	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1005	3035	Buena Park	Cx. quinquefasciatus	11	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1005	3046	Buena Park	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1005	3048	Buena Park	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1008	2892	Fullerton	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1009	3030	Garden Grove	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1010	2872	Huntington Beach	Cx. quinquefasciatus	30	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1010	2889	Huntington Beach	Cx. quinquefasciatus	36	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1011	3050	La Habra	Cx. quinquefasciatus	30	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1014	2861	Mission Viejo	Cx. quinquefasciatus	33	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1014	2867	Mission Viejo	Cx. stigmatosoma	12	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1014	2875	Mission Viejo	Cx. quinquefasciatus	15	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1015	2876	Orange	Cx. quinquefasciatus	10	CO2	8/11/2016	WNV	RTPCR
Orange	ORCO1015	2894	Orange	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO1015	2899	Orange	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2900	Orange	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2903	Orange	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2904	Orange	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2905	Orange	Cx. quinquefasciatus	43	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2906	Orange	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	2907	Orange	Cx. quinquefasciatus	8	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1015	3003	Orange	Cx. quinquefasciatus	7	CO2	8/16/2016	WNV	RTPCR
Orange	ORCO1015	3022	Orange	Cx. quinquefasciatus	24	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1030	2834	Dana Point	Cx. quinquefasciatus	30	GRVD	8/11/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Orange	ORCO1031	2928	Los Alamitos	Cx. quinquefasciatus	48	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO1036	2942	Buena Park	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1038	2960	La Palma	Cx. quinquefasciatus	33	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1039	2997	Orange	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1040	2684	Orange	Cx. quinquefasciatus	50	GRVD	8/9/2016	WNV	RTPCR
Orange	ORCO1040	2986	Orange	Cx. quinquefasciatus	9	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1040	2987	Orange	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1040	2988	Orange	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1040	2989	Orange	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO1041	2993	Tustin	Cx. quinquefasciatus	33	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO138	2920	Fullerton	Cx. quinquefasciatus	35	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO16	3080	San Clemente	Cx. quinquefasciatus	14	GRVD	8/17/2016	WNV	RTPCR
Orange	ORCO169	2981	Orange	Cx. quinquefasciatus	36	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO17	2998	Orange	Cx. quinquefasciatus	38	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO170	2853	Anaheim	Cx. quinquefasciatus	49	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO170	2854	Anaheim	Cx. quinquefasciatus	3	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO2	2944	Fullerton	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO202	2961	Fullerton	Cx. quinquefasciatus	36	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO205	2995	Tustin	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO217	2871	Santa Ana	Cx. quinquefasciatus	13	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO217	2984	Santa Ana	Cx. quinquefasciatus	39	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO217	3010	Santa Ana	Cx. quinquefasciatus	47	OTHER	8/16/2016	WNV	RTPCR
Orange	ORCO217	3013	Santa Ana	Cx. quinquefasciatus	26	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO217	3036	Santa Ana	Cx. quinquefasciatus	30	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO217	3044	Santa Ana	Cx. quinquefasciatus	28	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	2973	Anaheim	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	2974	Anaheim	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	2975	Anaheim	Cx. quinquefasciatus	34	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	3038	Anaheim	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	3039	Anaheim	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO218	3041	Anaheim	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO219	2909	Irvine	Cx. quinquefasciatus	24	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO222	3037	San Clemente	Cx. quinquefasciatus	27	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO227	2915	Brea	Cx. quinquefasciatus	36	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO227	2924	Brea	Cx. quinquefasciatus	20	GRVD	8/12/2016	WNV	RTPCR
Orange	ORCO227	3019	Brea	Cx. quinquefasciatus	33	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO228	3016	Westminster	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO228	3017	Westminster	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO238	3002	Anaheim	Cx. quinquefasciatus	37	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO241	2848	Stanton	Cx. quinquefasciatus	50	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO242	2845	Fountain Valley	Cx. quinquefasciatus	37	GRVD	8/11/2016	WNV	RTPCR
Orange	ORCO29	2967	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO41	2980	Anaheim	Cx. quinquefasciatus	21	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO50	2941	Buena Park	Cx. quinquefasciatus	31	GRVD	8/16/2016	WNV	RTPCR
Orange	ORCO84	2977	Orange	Cx. quinquefasciatus	45	GRVD	8/16/2016	WNV	RTPCR
Placer	PLCR1070	1833	Roseville	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Placer	PLCR1070	1834	Roseville	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR1114	1867	Lincoln	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR139	1846	Roseville	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR191218	1800		Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR191373	1863		Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR191998	1812	Lincoln	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Placer	PLCR195981	1898		Cx. pipiens	19	CO2	8/17/2016	WNV	RTPCR
Placer	PLCR525	1789	Lincoln	Cx. tarsalis	37	CO2	8/16/2016	WNV	RTPCR
Riverside	NWST134	161	Mira Loma	Cx. quinquefasciatus	43	CO2	8/9/2016	WNV	RTPCR
Sacramento	SAYO212033	5695	Sacramento	Cx. pipiens	30	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO214029	5333	Rancho Cordova	Cx. pipiens	12	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO215018	5748	Folsom	Cx. pipiens	2	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO222001	5351	Sacramento	Cx. pipiens	21	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO222005	5343	Sacramento	Cx. pipiens	8	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO222011	5367	Sacramento	Cx. pipiens	28	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO222011	5368	Sacramento	Cx. pipiens	16	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO222020	5353	Sacramento	Cx. pipiens	26	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO222040	5365	Sacramento	Cx. pipiens	27	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO223023	5338	Rancho Cordova	Cx. pipiens	3	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO225005	5400	Elk Grove	Cx. pipiens	7	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO226006	5398	Rancho Murieta	Cx. tarsalis	5	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO232028	5687	Sacramento	Cx. pipiens	9	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO232036	5380	Sacramento	Cx. pipiens	5	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO233026	5635	Elk Grove	Cx. tarsalis	2	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO233026	5637	Elk Grove	Cx. pipiens	18	GRVD	8/18/2016	WNV	RTPCR
Sacramento	SAYO234017	5393	Sacramento	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO234017	5395	Sacramento	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO234017	5397	Sacramento	Cx. pipiens	13	GRVD	8/16/2016	WNV	RTPCR
Sacramento	SAYO234025	5390	Elk Grove	Cx. tarsalis	35	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO242016	5651	Elk Grove	Cx. tarsalis	24	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO242016	5652	Elk Grove	Cx. pipiens	50	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO243012	5672	Elk Grove	Cx. tarsalis	46	CO2	8/18/2016	WNV	RTPCR
Sacramento	SAYO244002	5425	Galt	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO244002	5426	Galt	Cx. tarsalis	24	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO245008	5423	Wilton	Cx. tarsalis	21	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO245026	5411	Wilton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO245026	5412	Wilton	Cx. tarsalis	47	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO253009	5447	Galt	Cx. tarsalis	35	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO254029	5439	Galt	Cx. tarsalis	33	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO255007	5434	Herald	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Sacramento	SAYO271003	5767	Isleton	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
San Bernardino	WVAL2003	1812	Chino	Cx. tarsalis	6	CO2	8/17/2016	WNV	RTPCR
San Bernardino	WVAL2008	1802	Chino	Cx. quinquefasciatus	25	CO2	8/17/2016	WNV	RTPCR
San Bernardino	WVAL2008	1803	Chino	Cx. quinquefasciatus	25	CO2	8/17/2016	WNV	RTPCR
San Bernardino	WVAL2018	1828	Chino	Cx. quinquefasciatus	25	GRVD	8/17/2016	WNV	RTPCR
San Bernardino	WVAL5011	1779	Fwy I-15	Cx. quinquefasciatus	10	GRVD	8/17/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

San Bernardino	WVAL8001	1764	Corona	Cx. quinquefasciatus	27	CO2	8/11/2016	WNV	RTPCR
San Joaquin	SJCM8005	2100	Stockton	Cx. tarsalis	34	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8008	2050	Manteca	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8008	2052	Manteca	Cx. pipiens	11	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2065	Stockton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2066	Stockton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2067	Stockton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2068	Stockton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2069	Stockton	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2070	Stockton	Cx. tarsalis	41	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8018	2071	Stockton	Cx. pipiens	8	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8020	2092	Acampo	Cx. tarsalis	17	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8021	2081	Lodi	Cx. tarsalis	36	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8022	2095	Holt	Cx. tarsalis	44	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8026	2078	Stockton	Cx. tarsalis	17	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8027	2096	McDonald Isl. Bridge	Cx. tarsalis	32	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8033	2108	Lockeford	Cx. tarsalis	28	CO2	8/18/2016	WNV	RTPCR
San Joaquin	SJCM8041	2089	Lodi	Cx. tarsalis	48	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8041	2090	Lodi	Cx. pipiens	51	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8049	2074	Stockton	Cx. tarsalis	17	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8056	2060	Manteca	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8056	2061	Manteca	Cx. tarsalis	20	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8056	2062	Manteca	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8056	2063	Manteca	Cx. pipiens	29	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8070	2109	Galt	Cx. tarsalis	16	CO2	8/18/2016	WNV	RTPCR
San Joaquin	SJCM8070	2110	Galt	Cx. pipiens	34	CO2	8/18/2016	WNV	RTPCR
San Joaquin	SJCM8083	2041	Escalon	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8083	2042	Escalon	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8083	2043	Escalon	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8109	2046	Escalon	Cx. tarsalis	32	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8109	2047	Escalon	Cx. pipiens	44	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8143	2091	Stockton	Cx. tarsalis	23	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8161	2032	Ripon	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8161	2033	Ripon	Cx. tarsalis	38	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8191	2085	Lodi	Cx. tarsalis	35	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM8197	2029	Stockton	Cx. tarsalis	12	CO2	8/16/2016	WNV	RTPCR
San Joaquin	SJCM9906	2054	French Camp	Cx. tarsalis	16	CO2	8/16/2016	WNV	RTPCR
San Mateo	SANM988966	175	San Mateo	Cx. pipiens	15	CO2	8/11/2016	WNV	RTPCR
Shasta	SHAS242	418	Cottonwood	Cx. tarsalis	44	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK1225	840	Turlock	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK1301	818	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK1308	847	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK1661	811	Turlock	Cx. pipiens	50	CO2	8/11/2016	WNV	RTPCR
Stanislaus	TRLK1661	812	Turlock	Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR
Stanislaus	TRLK327	809	Denair	Cx. tarsalis	50	CO2	8/11/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24
 Week 33 Friday, August 19, 2016

Stanislaus	TRLK406	815	Turlock	Cx. pipiens	30	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK432	843	Turlock	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK432	844	Turlock	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK432	846	Turlock	Cx. tarsalis	41	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK516	828	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK516	829	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK516	830	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK526	849	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK526	850	Denair	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK526	853	Denair	Cx. tarsalis	49	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK530	838	Turlock	Cx. pipiens	39	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK536	816	Turlock	Cx. pipiens	50	CO2	8/16/2016	WNV	RTPCR
Stanislaus	TRLK613	832	Hickman	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Sutter	SUYA15	366	Robbins	Cx. tarsalis	50	CO2	8/10/2016	WNV	RTPCR
Sutter	SUYA15	367	Robbins	Cx. tarsalis	50	CO2	8/10/2016	WNV	RTPCR
Sutter	SUYA15	384	Robbins	Cx. tarsalis	39	CO2	8/15/2016	WNV	RTPCR
Sutter	SUYA15	385	Robbins	Cx. tarsalis	38	CO2	8/15/2016	WNV	RTPCR
Sutter	SUYA84	376	Yuba City	Cx. tarsalis	21	CO2	8/15/2016	WNV	RTPCR
Tulare	DLNO10	149	Earlimart	Cx. quinquefasciatus	50	GRVD	8/12/2016	SLEV	RTPCR
Tulare	DLNO10	149	Earlimart	Cx. quinquefasciatus	50	GRVD	8/12/2016	WNV	RTPCR
Tulare	DLTA8425	2232	Visalia	Cx. quinquefasciatus	30	GRVD	8/12/2016	WNV	RTPCR
Tulare	DLTA8435	2217	Visalia	Cx. quinquefasciatus	45	GRVD	8/11/2016	WNV	RTPCR
Tulare	DLTA8436	2216	Visalia	Cx. quinquefasciatus	40	GRVD	8/11/2016	WNV	RTPCR
Tulare	DLTA8531	2223	Visalia	Cx. quinquefasciatus	29	GRVD	8/11/2016	WNV	RTPCR
Tulare	DLTA9402	2231	Visalia	Cx. quinquefasciatus	46	GRVD	8/12/2016	WNV	RTPCR
Tulare	DLTA9403	2215	Visalia	Cx. quinquefasciatus	36	GRVD	8/11/2016	WNV	RTPCR
Tulare	DLTA9506	2229	Visalia	Cx. quinquefasciatus	32	GRVD	8/12/2016	WNV	RTPCR
Yolo	SAYO103007	5520	Dunnigan	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Yolo	SAYO103007	5521	Dunnigan	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Yolo	SAYO115008	5500	Zamora	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Yolo	SAYO124007	5609	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125002	5488	Yolo	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Yolo	SAYO125002	5619	Yolo	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125018	5534	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125018	5535	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125018	5537	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125018	5538	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO125029	5526	woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO134010	5611	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO135006	5614	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO135006	5616	Woodland	Cx. tarsalis	1	GRVD	8/18/2016	WNV	RTPCR
Yolo	SAYO135016	5549	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO135021	5555	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO135021	5557	Woodland	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO143010	5464	Winters	Cx. tarsalis	50	CO2	8/16/2016	WNV	RTPCR
Yolo	SAYO145013	5563	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

Yolo	SAYO145013	5564	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO145016	5570	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO145021	5574	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO145021	5575	Davis	Cx. tarsalis	24	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO146002	5597	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO146006	5579	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO146006	5584	Davis	Cx. pipiens	5	GRVD	8/18/2016	WNV	RTPCR
Yolo	SAYO146012	5585	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yolo	SAYO146012	5589	Davis	Cx. tarsalis	50	CO2	8/18/2016	WNV	RTPCR
Yuba	SUYA39	377	Marysville (Hallwood)	Cx. tarsalis	50	CO2	8/15/2016	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Band 01	Band 02	Band 03	Band 04	Band 05	Virus
Los Angeles	ANTV7263	Lancaster	8/10/2016	1019	1056				WNV
Los Angeles	ANTV8652	Palmdale	8/10/2016	1033					WNV
Los Angeles	ANTV8656	Lancaster	8/10/2016	1011					WNV
Los Angeles	GRLA2056	Long Beach	8/10/2016	1223	1226				WNV
Los Angeles	GRLA2223	Rowland Heights	8/10/2016	1203					WNV
Los Angeles	GRLA2615	Newhall	8/8/2016	1281	1283	1287			WNV
Los Angeles	GRLA2651	Encino	8/8/2016	1272	1274	1275	1278	1279	WNV
Los Angeles	LACW1001	Rolling Hills Estates	8/2/2016	2303					WNV
Los Angeles	LACW1010	Los Angeles (Miracle Mile)	7/27/2016	2351	2352				WNV
San Bernardino	SANB0011	Rialto	8/10/2016	1707	1766	1769	1772		WNV
San Bernardino	SANB0029	San Bernardino	8/8/2016	1774	1779	1780			WNV
Solano	SOLA0015	Winters	8/12/2016	1869					WNV

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.

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 19, 2016

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
