

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017



Weekly Update

Humans

A total of 35 new human cases of West Nile virus (WNV) illness were reported this week from the following nine counties: Fresno (1), Inyo (2), Kern (1), Los Angeles (19), Orange (3), Riverside (2), San Bernardino (3), San Joaquin (3), and Stanislaus (1). To date this year, 143 human cases of WNV illness have been reported from 15 counties. Of the 143 case-patients, 114 (80%) had neuroinvasive disease and 6 fatalities have been reported from Kern (1), Los Angeles (4), and San Bernardino (1) counties. The median age of the individuals is 62 years (range: 4–85 years) and 101 (71%) are male. Dates of symptom onset ranged from March 16 to September 1. In addition to the 143 symptomatic cases, 16 asymptomatic WNV-positive blood donors have been reported from Humboldt (1), Los Angeles (4), Orange (4), Placer (1), San Bernardino (5), and Stanislaus (1) counties. As of this date in 2016, 199 human WNV cases had been reported from 24 counties.

Dead Birds

A total of 38 WNV positive dead birds were reported this week from the following 16 counties: Contra Costa (3), Fresno (1), Glenn (2), Humboldt (1), Lake (1), Los Angeles (8), Madera (1), Orange (4), Placer (1), Riverside (1), Sacramento (5), San Bernardino (3), San Diego (4), Shasta (1), Solano (1), and Yolo (1). **This is the first indication of WNV activity in Humboldt County and the first positive birds from Glenn and Madera counties in 2017.** To date this year, 336 birds from 36 counties have tested positive for WNV. As of this date in 2016, 1,235 WNV positive birds had been reported from 33 counties.

Mosquito Pools

West Nile Virus

A total of 161 WNV positive mosquito pools were reported this week from the following 19 counties: Butte (3), Contra Costa (1), Fresno (5), Inyo (1), Kern (1), Lake (1), Los Angeles (34), Madera (2), Orange (20), Placer (11), Riverside (5), Sacramento (16), San Bernardino (11), San Joaquin (18), Solano (1), Sonoma (1), Stanislaus (13), Tulare (15), and Yolo (2). **This is the first WNV positive mosquito pool reported from Sonoma County in 2017.** To date this year, 2,981 WNV positive mosquito pools have been reported from 25 counties. As of this date in 2016, 3,180 WNV positive mosquito pools had been reported from 30 counties.

St. Louis Encephalitis Virus

A total of 26 mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from 6 counties: Fresno (7), Imperial (1), Los Angeles (1), Merced (2), Riverside (10), and Stanislaus (5). **This is the first detection of SLEV activity in Los Angeles County, and the first SLEV positive mosquitoes reported from Merced County in 2017.** To date this year, 135 SLEV positive mosquito pools have been reported from 13 counties: Butte (1), Fresno (54), Imperial (3), Kern (12), Kings (17), Los Angeles (1), Madera (3), Merced (2), Placer (1), Riverside (22), Stanislaus (16), Tulare (2), and Yuba (1). As of this date in 2016, 151 SLEV positive mosquito pools had been reported from 6 counties.

Sentinel Chickens

West Nile Virus

A total of 15 WNV seroconversions were reported this week from 5 counties: Butte (4), Los Angeles (1), Placer (2), Solano (2), and Sutter (6). **These are the first WNV positive chickens reported from Placer County in 2017.** To date this year, 204 WNV seroconversions have been reported from 13 counties. As of this date in 2016, 279 WNV seroconversions had been detected from 17 counties.

St. Louis Encephalitis Virus

No SLEV seroconversions were reported this week. To date this year, 7 SLEV positive chickens have been reported from Merced (1) and San Bernardino (6) counties. As of this date in 2016, 2 SLEV seroconversions had been detected in one flock located in San Bernardino County.

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

YTD WNV Activity by Element and County, 2017					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			1		
Butte	2		4	46	29
Colusa			1		
Contra Costa		1	10	6	4
El Dorado			1		
Fresno	2	1	5	158	
Glenn		1	2	12	1
Humboldt			1		
Imperial	1				
Inyo	3			8	
Kern	12	2	3	149	
Kings	1		1	75	
Lake			3	16	1
Lassen		1			
Los Angeles	65		59	436	86
Madera			1	58	
Merced			1	39	19
Monterey			1		
Nevada			1		
Orange	11		37	221	
Placer			2	50	2
Plumas		1			
Riverside	7	2	29	184	
Sacramento	1		65	129	2
San Benito					1
San Bernardino	17		37	242	33
San Diego			22	5	
San Francisco			1		
San Joaquin	9	1	6	224	
San Mateo			1		
Santa Clara			7		
Santa Cruz			1		
Shasta			2		
Solano			2	6	3
Sonoma			2	1	
Stanislaus	7		4	186	
Sutter	1		2	16	18
Tehama		1			
Tulare	4		8	620	
Ventura			1		
Yolo			6	76	
Yuba			6	18	5
Totals	143	11	336	2,981	204

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

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

2016 & 2017 YTD West Nile Virus Comparisons		
	2016	2017
Total # Dead Bird Reports	8,060	6,142
# Positive Counties	36	42
# Human Cases	199	143
# Positive Dead Birds / # Tested	1,235 / 2,504	336 / 1,552
# Positive Mosquito Pools / # Tested	3,180 / 35,394	2,981 / 35,332
# Seroconversions / # Tested	279 / 8,307	204 / 8,833

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
	Week	35	0	0
	YTD	143	0	0

Dead Birds

		Number Tested	WNV Positive
	Week	56	38
	YTD	1,552	336

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
	Week	471	15	0	0
	YTD	8,833	204	7	0

Mosquitoes

		Positive / Total Tested						
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	161 / 1,773	26 / 1,301	0 / 1,301	0 / 63	0 / 63	0 / 63
		YTD	2,981 / 35,332	135 / 28,914	0 / 27,122	0 / 1,121	0 / 1,121	0 / 1,121

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	9/10/2017	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/8/2017	WNV
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/12/2017	WNV
Fresno	Fresno MVCD	Fresno	93711	Unknown - songbird	9/6/2017	WNV
Glenn	Glenn Co MVCD	Artois	95913	Western Scrub-Jay	8/24/2017	WNV
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	9/6/2017	WNV
Humboldt	Humboldt Co Env Health	Carlotta	95528	Turkey Vulture	9/13/2017	WNV
Lake	Lake Co VCD	Lakeport	95453	House Finch	9/10/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Granada Hills	91344	American Crow	9/7/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Palmdale	93551	Common Raven	9/5/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Rosemead	91770	American Crow	9/7/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	San Gabriel	91776	American Crow	9/6/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Monica	90404	American Crow	9/1/2017	WNV
Los Angeles	Los Angeles Co West VCD	West Hollywood	90046	American Crow	9/10/2017	WNV
Los Angeles	San Gabriel Valley MVCD	Bassett	91746	American Crow	8/29/2017	WNV
Los Angeles	San Gabriel Valley MVCD	Glendora	91741	American Crow	8/29/2017	WNV
Madera	Madera Co MVCD	Madera	93638	American Crow	8/28/2017	WNV
Orange	Orange Co VCD	Anaheim	92805	American Crow	9/11/2017	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	9/7/2017	WNV
Orange	Orange Co VCD	Garden Grove	92843	American Crow	9/8/2017	WNV
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/11/2017	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	9/11/2017	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/6/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	9/8/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Rosemont	95826	Western Bluebird	9/9/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	Western Scrub-Jay	9/10/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/6/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/7/2017	WNV
San Bernardino	San Bernardino VCP	Redlands	92373	American Crow	9/7/2017	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	9/5/2017	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	9/6/2017	WNV
San Diego	San Diego Co VCP	Aguanga	92536	Western Scrub-Jay	9/11/2017	WNV
San Diego	San Diego Co VCP	Aguanga	92536	Western Scrub-Jay	9/11/2017	WNV
San Diego	San Diego Co VCP	El Cajon	92021	American Crow	9/11/2017	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/12/2017	WNV
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	9/13/2017	WNV
Solano	Solano Co MAD	Vacaville	95688	American Crow	9/7/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/7/2017	WNV

California Arbovirus Surveillance Bulletin #24
 Week 37 Friday, September 15, 2017

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO113	377	Cx. tarsalis	Gridley	50	CO2	9/5/17	WNV
Butte	BUCO146	371	Cx. tarsalis	Palermo	50	CO2	9/5/17	WNV
Butte	BUCO67	391	Cx. pipiens	Gridley	50	CO2	9/11/17	WNV
Contra Costa	CNTR7402	401	Cx. tarsalis	Oakley	50	CO2	9/11/17	WNV
Fresno	FRNO133	292	Cx. quinquefasciatus	Fresno	18	GRVD	9/6/17	WNV
Fresno	FRNO72	293	Cx. quinquefasciatus	Fresno	44	GRVD	9/7/17	SLEV
Fresno	FRWS100006	537	Cx. tarsalis	Dos Palos	50	CO2	9/12/17	SLEV
Fresno	FRWS100006	538	Cx. tarsalis	Dos Palos	50	CO2	9/12/17	SLEV
Fresno	FRWS1101	529	Cx. tarsalis	Dos Palos	50	CO2	9/12/17	WNV
Fresno	FRWS1101	531	Cx. tarsalis	Dos Palos	50	CO2	9/12/17	WNV
Fresno	FRWS1202	534	Cx. tarsalis	Dos Palos	50	CO2	9/12/17	WNV
Fresno	FRWS300064	526	Cx. tarsalis		50	CO2	9/8/17	SLEV
Fresno	FRWS300064	526	Cx. tarsalis		50	CO2	9/8/17	WNV
Fresno	FRWS300064	528	Cx. quinquefasciatus		50	CO2	9/8/17	SLEV
Fresno	FRWS300084	520	Cx. quinquefasciatus		50	BGSENT	9/8/17	SLEV
Fresno	FRWS300089	516	Cx. quinquefasciatus		50	BGSENT	9/7/17	SLEV
Imperial	IMPR40	570	Cx. tarsalis	Imperial	8	BGSENT	9/11/17	SLEV
Inyo	INYO1008	85	Cx. tarsalis	Lone Pine	27	CO2	9/5/17	WNV
Kern	KERN2049	489	Cx. quinquefasciatus	Lamont	50	GRVD	9/6/17	WNV
Lake	LAKE1130	598	Cx. tarsalis	Lower Lake	50	CO2	9/7/17	WNV
Los Angeles	ANTV1439	74	Cx. quinquefasciatus	Lancaster	14	GRVD	9/12/17	WNV
Los Angeles	GRLA2097	725	Cx. quinquefasciatus	La Mirada	12	GRVD	9/7/17	WNV
Los Angeles	GRLA2278	742	Cx. quinquefasciatus	Long Beach	50	GRVD	9/8/17	WNV
Los Angeles	GRLA2346	734	Cx. quinquefasciatus	Montebello	50	GRVD	9/7/17	WNV
Los Angeles	GRLA2414	5724	Cx. quinquefasciatus	Granada Hills	41	GRVD	9/7/17	WNV
Los Angeles	GRLA2548	5729	Cx. quinquefasciatus	Sylmar	21	GRVD	9/8/17	WNV
Los Angeles	GRLA2574	5714	Cx. quinquefasciatus	Sherman Oaks	35	GRVD	9/7/17	WNV
Los Angeles	GRLA2637	5718	Cx. quinquefasciatus	Van Nuys	46	GRVD	9/7/17	WNV
Los Angeles	GRLA2650	5717	Cx. quinquefasciatus	Encino	50	CO2	9/7/17	WNV
Los Angeles	GRLA2655	5716	Cx. quinquefasciatus	Encino	50	GRVD	9/7/17	WNV
Los Angeles	GRLA2890	741	Cx. quinquefasciatus	Lakewood	50	GRVD	9/8/17	WNV
Los Angeles	GRLA2953	727	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	9/7/17	WNV
Los Angeles	GRLA2957	738	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	9/8/17	WNV
Los Angeles	GRLA3009	5726	Cx. quinquefasciatus	Santa Clarita	36	GRVD	9/8/17	WNV
Los Angeles	GRLA3034	5723	Cx. quinquefasciatus	North Hills	38	GRVD	9/7/17	WNV
Los Angeles	GRLA3035	5722	Cx. quinquefasciatus	North Hills	50	GRVD	9/7/17	WNV
Los Angeles	GRLA3048	732	Cx. quinquefasciatus	Pico Rivera	50	GRVD	9/7/17	WNV
Los Angeles	GRLA3051	740	Cx. quinquefasciatus	Signal Hill	50	GRVD	9/8/17	WNV
Los Angeles	GRLA3060	728	Cx. quinquefasciatus	Norwalk	50	GRVD	9/7/17	WNV
Los Angeles	LACW1047	307	Cx. quinquefasciatus	Inglewood	50	CO2	9/7/17	SLEV
Los Angeles	LACW1047	308	Cx. quinquefasciatus	Inglewood	50	CO2	9/7/17	WNV
Los Angeles	LACW1054	311	Cx. quinquefasciatus	Inglewood	50	CO2	9/7/17	WNV
Los Angeles	SGVA121	2162	Cx. quinquefasciatus	Alhambra	25	BGSENT	9/6/17	WNV
Los Angeles	SGVA121	2164	Cx. quinquefasciatus	Alhambra	25	BGSENT	9/6/17	WNV
Los Angeles	SGVA121	2168	Cx. quinquefasciatus	Alhambra	25	BGSENT	9/6/17	WNV
Los Angeles	SGVA16	2159	Cx. quinquefasciatus	Monterey Park	14	BGSENT	9/5/17	WNV
Los Angeles	SGVA68	2181	Cx. tarsalis	Irwindale	5	GRVD	9/7/17	WNV
Los Angeles	SGVA877	2128	Cx. quinquefasciatus	Arcadia	20	GRVD	8/31/17	WNV
Los Angeles	SGVA976	2125	Cx. quinquefasciatus		25	GRVD	8/31/17	WNV
Los Angeles	SGVA976	2126	Cx. quinquefasciatus		25	GRVD	8/31/17	WNV

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

Los Angeles	SGVA976	2127	Cx. quinquefasciatus		12	GRVD	8/31/17	WNV
Los Angeles	SGVA977	2112	Cx. tarsalis		6	GRVD	8/31/17	WNV
Los Angeles	SGVA977	2113	Cx. quinquefasciatus		11	GRVD	8/31/17	WNV
Los Angeles	SGVA977	2117	Cx. quinquefasciatus		16	GRVD	8/31/17	WNV
Los Angeles	SGVA978	2136	Cx. quinquefasciatus	Monrovia	1	GRVD	9/7/17	WNV
Madera	MADR178	324	Cx. quinquefasciatus	Madera	50	CO2	9/8/17	WNV
Madera	MADR195	315	Cx. tarsalis	Madera	25	CO2	9/6/17	WNV
Merced	MERC201721	331	Cx. tarsalis	Winton	5	CO2	9/13/17	SLEV
Merced	MERC201782	342	Cx. tarsalis	Merced	7	CO2	9/14/17	SLEV
Orange	ORCO1005	3968	Cx. quinquefasciatus	Buena Park	34	GRVD	9/8/17	WNV
Orange	ORCO1008	3883	Cx. quinquefasciatus	Fullerton	50	GRVD	9/6/17	WNV
Orange	ORCO1009	3962	Cx. quinquefasciatus	Garden Grove	37	GRVD	9/8/17	WNV
Orange	ORCO1011	3825	Cx. quinquefasciatus	La Habra	50	GRVD	9/1/17	WNV
Orange	ORCO1011	3915	Cx. quinquefasciatus	La Habra	41	GRVD	9/7/17	WNV
Orange	ORCO1011	3916	Cx. quinquefasciatus	La Habra	33	GRVD	9/7/17	WNV
Orange	ORCO1011	3917	Cx. quinquefasciatus	La Habra	21	GRVD	9/7/17	WNV
Orange	ORCO1011	3918	Cx. quinquefasciatus	La Habra	37	GRVD	9/7/17	WNV
Orange	ORCO1011	3919	Cx. quinquefasciatus	La Habra	26	GRVD	9/7/17	WNV
Orange	ORCO1011	3921	Cx. quinquefasciatus	La Habra	19	GRVD	9/7/17	WNV
Orange	ORCO1011	3925	Cx. quinquefasciatus	La Habra	33	GRVD	9/7/17	WNV
Orange	ORCO1011	3964	Cx. quinquefasciatus	La Habra	50	GRVD	9/8/17	WNV
Orange	ORCO1036	3934	Cx. quinquefasciatus	Buena Park	49	GRVD	9/8/17	WNV
Orange	ORCO1037	3943	Cx. quinquefasciatus	La Habra	37	GRVD	9/8/17	WNV
Orange	ORCO170	3952	Cx. quinquefasciatus	Anaheim	32	GRVD	9/8/17	WNV
Orange	ORCO202	3946	Cx. quinquefasciatus	Fullerton	50	GRVD	9/8/17	WNV
Orange	ORCO217	3818	Cx. quinquefasciatus	Santa Ana	50	GRVD	9/1/17	WNV
Orange	ORCO227	3827	Cx. quinquefasciatus	Brea	50	GRVD	9/1/17	WNV
Orange	ORCO227	3831	Cx. quinquefasciatus	Brea	30	GRVD	9/6/17	WNV
Orange	ORCO227	3843	Cx. quinquefasciatus	Brea	50	GRVD	9/6/17	WNV
Placer	PLCR1070	1937	Cx. tarsalis	Roseville	50	OTHER	9/12/17	WNV
Placer	PLCR1114	1950	Cx. tarsalis	Lincoln	50	CO2	9/12/17	WNV
Placer	PLCR191218	1896	Cx. tarsalis		50	CO2	9/12/17	WNV
Placer	PLCR191218	1898	Cx. tarsalis		50	CO2	9/12/17	WNV
Placer	PLCR191373	1974	Cx. tarsalis		50	CO2	9/12/17	WNV
Placer	PLCR191373	1975	Cx. tarsalis		50	CO2	9/12/17	WNV
Placer	PLCR411	1962	Cx. stigmatosoma	Roseville	41	CO2	9/12/17	WNV
Placer	PLCR516	2001	Cx. stigmatosoma	Roseville	50	CO2	9/12/17	WNV
Placer	PLCR668	1953	Cx. tarsalis	Elverta	21	CO2	9/12/17	WNV
Placer	PLCR668	2005	Cx. tarsalis	Elverta	34	CO2	9/12/17	WNV
Placer	PLCR86	1861	Cx. tarsalis	Rocklin	34	OTHER	9/8/17	WNV
Riverside	COAV121	3531	Cx. tarsalis	Mecca	50	CO2	9/8/17	SLEV
Riverside	COAV121	3532	Cx. tarsalis	Mecca	50	CO2	9/8/17	SLEV
Riverside	COAV121	3534	Cx. tarsalis	Mecca	50	CO2	9/8/17	SLEV
Riverside	COAV121	3535	Cx. tarsalis	Mecca	50	CO2	9/8/17	SLEV
Riverside	COAV121	3536	Cx. tarsalis	Mecca	50	CO2	9/8/17	SLEV
Riverside	COAV45	3619	Cx. tarsalis	Mecca	50	CO2	9/12/17	SLEV
Riverside	COAV45	3619	Cx. tarsalis	Mecca	50	CO2	9/12/17	WNV
Riverside	COAV45	3620	Cx. tarsalis	Mecca	50	CO2	9/12/17	SLEV
Riverside	COAV45	3622	Cx. tarsalis	Mecca	50	CO2	9/12/17	SLEV
Riverside	COAV46	3613	Cx. tarsalis	Mecca	50	CO2	9/12/17	WNV
Riverside	COAV46	3615	Cx. tarsalis	Mecca	50	CO2	9/12/17	SLEV
Riverside	COAV48	3627	Cx. tarsalis	Mecca	50	CO2	9/12/17	SLEV
Riverside	COAV538	3594	Cx. tarsalis	Thermal	50	CO2	9/12/17	WNV
Riverside	RIVR22	165	Cx. erythrothorax	Murrieta	50	CO2	8/15/17	WNV

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

Riverside	RIVR51	179	Cx. tarsalis	Moreno Valley	17	CO2	8/22/17	WNV
Sacramento	SAYO201009	5648	Cx. tarsalis	Sacramento	50	CO2	9/8/17	WNV
Sacramento	SAYO203039	5736	Cx. tarsalis	North Highlands	13	CO2	9/12/17	WNV
Sacramento	SAYO223006	5776	Cx. tarsalis	South Watt Avenue	15	CO2	9/12/17	WNV
Sacramento	SAYO223023	5728	Cx. pipiens	Rancho Cordova	8	CO2	9/8/17	WNV
Sacramento	SAYO232037	5811	Cx. tarsalis	Elk Grove	26	CO2	9/12/17	WNV
Sacramento	SAYO232037	5812	Cx. pipiens	Elk Grove	50	CO2	9/12/17	WNV
Sacramento	SAYO233009	5851	Cx. tarsalis	Elk Grove	50	CO2	9/12/17	WNV
Sacramento	SAYO233009	5853	Cx. tarsalis	Elk Grove	50	CO2	9/12/17	WNV
Sacramento	SAYO233009	5857	Cx. pipiens	Elk Grove	34	GRVD	9/12/17	WNV
Sacramento	SAYO233039	5819	Cx. pipiens	Elk Grove	3	GRVD	9/12/17	WNV
Sacramento	SAYO234008	5706	Cx. tarsalis	Wilton	17	CO2	9/8/17	WNV
Sacramento	SAYO243012	5826	Cx. tarsalis	Elk Grove	50	CO2	9/12/17	WNV
Sacramento	SAYO243012	5829	Cx. tarsalis	Elk Grove	2	GRVD	9/12/17	WNV
Sacramento	SAYO243013	5871	Cx. pipiens	Elk Grove	26	GRVD	9/12/17	WNV
Sacramento	SAYO243016	5822	Cx. pipiens	Elk Grove	50	CO2	9/12/17	WNV
Sacramento	SAYO252014	5678	Cx. pipiens	Walnut Grove	12	CO2	9/8/17	WNV
San Bernardino	WVAL108	2025	Cx. quinquefasciatus	Rancho Cucamonga	3	GRVD	9/6/17	WNV
San Bernardino	WVAL2005	1998	Cx. quinquefasciatus	Chino	10	CO2	9/6/17	WNV
San Bernardino	WVAL2005	2004	Cx. tarsalis	Chino	50	CO2	9/6/17	WNV
San Bernardino	WVAL5004	1984	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	9/6/17	WNV
San Bernardino	WVAL5005	1976	Cx. quinquefasciatus	Rancho Cucamonga	16	GRVD	9/6/17	WNV
San Bernardino	WVAL6002	1973	Cx. quinquefasciatus	Ontario	30	CO2	9/6/17	WNV
San Bernardino	WVAL6005	1960	Cx. quinquefasciatus	Ontario	32	GRVD	9/6/17	WNV
San Bernardino	WVAL6011	1980	Cx. quinquefasciatus	Ontario	8	GRVD	9/6/17	WNV
San Bernardino	WVAL70	1978	Cx. quinquefasciatus	Ontario	7	GRVD	9/6/17	WNV
San Bernardino	WVAL9003	1955	Cx. quinquefasciatus	Upland	19	GRVD	9/6/17	WNV
San Bernardino	WVAL9003	1956	Cx. quinquefasciatus	Upland	25	GRVD	9/6/17	WNV
San Joaquin	SJCM8008	2442	Cx. pipiens	Manteca	14	CO2	9/11/17	WNV
San Joaquin	SJCM8022	2471	Cx. tarsalis	Holt	55	CO2	9/11/17	WNV
San Joaquin	SJCM8022	2472	Cx. pipiens	Holt	43	CO2	9/11/17	WNV
San Joaquin	SJCM8041	2519	Cx. pipiens	Lodi	50	CO2	9/11/17	WNV
San Joaquin	SJCM8045	2473	Cx. tarsalis	Thornton	20	CO2	9/11/17	WNV
San Joaquin	SJCM8050	2533	Cx. pipiens	Linden	20	CO2	9/11/17	WNV
San Joaquin	SJCM8077	2492	Cx. pipiens	Stockton	16	CO2	9/11/17	WNV
San Joaquin	SJCM8094	2455	Cx. tarsalis	Manteca	54	CO2	9/11/17	WNV
San Joaquin	SJCM8094	2456	Cx. pipiens	Manteca	14	CO2	9/11/17	WNV
San Joaquin	SJCM8160	2532	Cx. tarsalis	Lodi	13	CO2	9/11/17	WNV
San Joaquin	SJCM8189	2544	Cx. tarsalis	Acampo	10	CO2	9/11/17	WNV
San Joaquin	SJCM8199	2446	Cx. pipiens	Manteca	49	CO2	9/11/17	WNV
San Joaquin	SJCM8201	2552	Cx. tarsalis	Lockford	40	CO2	9/11/17	WNV
San Joaquin	SJCM8210	2548	Cx. tarsalis	Escalon	5	CO2	9/11/17	WNV
San Joaquin	SJCM8210	2549	Cx. pipiens	Escalon	8	CO2	9/11/17	WNV
San Joaquin	SJCM8211	2498	Cx. pipiens	stockton	16	CO2	9/11/17	WNV
San Joaquin	SJCM8219	2530	Cx. tarsalis	Stockton	35	CO2	9/11/17	WNV
San Joaquin	SJCM8219	2531	Cx. pipiens	Stockton	26	CO2	9/11/17	WNV
Solano	SOLA297	161	Cx. tarsalis		50	CO2	9/8/17	WNV
Sonoma	MARN313	525	Cx. stigmatosoma	Santa Rosa	7	GRVD	9/12/17	WNV
Stanislaus	TRLK1306	1058	Cx. tarsalis	Patterson	24	CO2	9/12/17	WNV
Stanislaus	TRLK1615	1044	Cx. tarsalis	Modesto	50	CO2	9/12/17	WNV
Stanislaus	TRLK1615	1046	Cx. tarsalis	Modesto	21	CO2	9/12/17	WNV
Stanislaus	TRLK1616	1037	Cx. pipiens	Modesto	50	CO2	9/12/17	WNV
Stanislaus	TRLK1616	1039	Cx. pipiens	Modesto	50	CO2	9/12/17	WNV
Stanislaus	TRLK1616	1041	Cx. pipiens	Modesto	50	CO2	9/12/17	SLEV

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

Stanislaus	TRLK2	1065	Cx. pipiens	Vernalis	27	CO2	9/12/17	WNV
Stanislaus	TRLK305	1052	Cx. tarsalis	Grayson	50	CO2	9/12/17	WNV
Stanislaus	TRLK305	1053	Cx. tarsalis	Grayson	50	CO2	9/12/17	WNV
Stanislaus	TRLK305	1054	Cx. pipiens	Grayson	50	CO2	9/12/17	WNV
Stanislaus	TRLK305	1055	Cx. pipiens	Grayson	50	CO2	9/12/17	WNV
Stanislaus	TRLK305	1056	Cx. pipiens	Grayson	41	CO2	9/12/17	WNV
Stanislaus	TRLK312	1012	Cx. tarsalis	Newman	50	CO2	9/12/17	SLEV
Stanislaus	TRLK312	1015	Cx. tarsalis	Newman	50	CO2	9/12/17	SLEV
Stanislaus	TRLK312	1016	Cx. tarsalis	Newman	50	CO2	9/12/17	SLEV
Stanislaus	TRLK424	1077	Cx. pipiens	Patterson	27	CO2	9/12/17	WNV
Stanislaus	TRLK424	1080	Cx. tarsalis	Patterson	42	CO2	9/12/17	SLEV
Stanislaus	TRLK502	1070	Cx. tarsalis	Modesto	50	CO2	9/12/17	WNV
Tulare	DLTA6404	2674	Cx. quinquefasciatus	Dinuba	24	CO2	9/14/17	WNV
Tulare	DLTA6404	2678	Cx. tarsalis	Dinuba	50	CO2	9/14/17	WNV
Tulare	DLTA6407	2659	Cx. quinquefasciatus	Dinuba	36	GRVD	9/13/17	WNV
Tulare	DLTA6408	2592	Cx. quinquefasciatus	Dinuba	28	GRVD	9/7/17	WNV
Tulare	DLTA6416	2631	Cx. quinquefasciatus	Dinuba	26	GRVD	9/8/17	WNV
Tulare	DLTA8324	2646	Cx. quinquefasciatus	Goshen	10	GRVD	9/12/17	WNV
Tulare	DLTA8419	2664	Cx. quinquefasciatus	Goshen	13	GRVD	9/13/17	WNV
Tulare	DLTA8419	2694	Cx. quinquefasciatus	Goshen	41	GRVD	9/14/17	WNV
Tulare	DLTA8424	2584	Cx. quinquefasciatus	Visalia	19	GRVD	9/7/17	WNV
Tulare	DLTA8508	2660	Cx. quinquefasciatus	Visalia	33	GRVD	9/13/17	WNV
Tulare	DLTA8519	2655	Cx. quinquefasciatus	Visalia	30	GRVD	9/13/17	WNV
Tulare	DLTA8527	2602	Cx. quinquefasciatus	Visalia	19	GRVD	9/7/17	WNV
Tulare	DLTA8534	2647	Cx. quinquefasciatus	Visalia	28	GRVD	9/13/17	WNV
Tulare	DLTA9411	2579	Cx. quinquefasciatus	Visalia	25	GRVD	9/7/17	WNV
Tulare	DLTA9610	2600	Cx. quinquefasciatus	Exeter	14	GRVD	9/7/17	WNV
Yolo	SAYO146002	5889	Cx. tarsalis	Davis	50	CO2	9/12/17	WNV
Yolo	SAYO147013	5884	Cx. pipiens	West Sacramento	18	CO2	9/12/17	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO0002	Oroville	9/5/2017	WNV	1129	
Butte	BUCO0004	Gridley	9/5/2017	WNV	1165	
Butte	BUCO0005	Honcut	9/5/2017	WNV	1150	
Butte	BUCO0006	Chico	9/5/2017	WNV	1151	
Los Angeles	LACW1025	Westlake Village	9/6/2017	WNV	2605	
Placer	PLCR0757	Auburn	9/7/2017	WNV	1437	1438
Solano	SOLA0125	Cordelia	9/1/2017	WNV	1681	1684
Sutter	SUYA0014	Sutter	9/7/2017	WNV	1746	1749
Sutter	SUYA0015	Robbins	9/7/2017	WNV	1731	1732
Sutter	SUYA0084	Yuba City	9/7/2017	WNV	1705	1707

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 15, 2017

Test Protocols

Humans:

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

Dead Birds

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

Sentinel Chickens:

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

Mosquito Pools:

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

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov.