

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015



Weekly Update

Humans

Eighteen new human cases of West Nile virus (WNV) illness were reported this week from the following ten counties: Butte (10), Glenn (2), Kern (2), Orange (1), Riverside (1), San Bernardino (1), and Santa Clara (1). These are the first cases reported from Kern, Orange, San Bernardino, and Santa Clara Counties this year. As of August 12, a total of 36 human cases of WNV illness have been reported to the California Department of Public Health from ten counties. Of the 36 case-patients, 24 (67%) had neuroinvasive illness. The median age of the 36 individuals is 55 years (range: 5-91 years); 24 (67%) are male. Dates of symptom onset ranged from May 15 to August 1. One WNV-related fatality has been reported to CDPH. In addition, ten asymptomatic WNV-positive blood donors have been reported this year from four counties. At this time last year, 36 WNV cases had been reported from eleven counties.

National Comments: As of August 11, 141 cases of WNV human disease have been reported from 27 states. Of these, 82 (58%) were classified as neuroinvasive disease and three fatalities have been reported.

Dead Birds

A total of 56 WNV positive dead birds were reported this week from the following 20 counties: Butte (4), Contra Costa (1), Fresno (1), Glenn (1), Los Angeles (1), Napa (2), Orange (7), Placer (1), Riverside (3), Sacramento (9), San Bernardino (1), San Diego (6), Santa Clara (4), Shasta (1), Solano (1), Sutter (2), Tulare (2), Ventura (2), Yolo (5), and Yuba (2). **This is the first detection of WNV in Napa County and the first positive bird from Fresno County this year.** In 2015, 418 birds have tested positive for WNV from 36 counties. At this time last year, 1,192 WNV positive birds had been detected in 33 counties.

Mosquito Pools

A total of 244 WNV positive mosquito pools were reported this week from the following 21 counties: Alameda (1), Butte (14), Fresno (16), Glenn (3), Kern (10), Kings (6), Lake (7), Los Angeles (13), Orange (21), Placer (7), Riverside (10), Sacramento (18), San Bernardino (30), San Joaquin (11), Shasta (7), Solano (1), Stanislaus (1), Sutter (3), Tulare (53), Yolo (10), and Yuba (2). In 2015, 1,577 WNV positive mosquito pools have been reported from 28 counties. **In addition, eight mosquito pools tested positive for St. Louis encephalitis virus (SLEV) from Riverside County (Coachella Valley). A total of 14 mosquito pools from Riverside County have tested positive for SLE in 2015. This is the first detection of SLEV activity in California since 2003.** At this time last year, 1,620 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 14 WNV seroconversions were reported this week from 8 flocks located in 7 counties: Butte (2), Placer (1), Sacramento (1), San Bernardino (2), Shasta (4), Ventura (3), and Yolo (1). **These are the first positive sentinel chickens from Sacramento, Ventura, and Yolo Counties this year.** In 2015, 104 WNV seroconversions have been detected among 33 flocks located in 17 counties. At this time last year, 106 WNV positive chickens had been reported from 40 flocks in 14 counties.

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		7	3	
Butte	16	21	81	34
Colusa		3		
Contra Costa		3	2	6
El Dorado		2		
Fresno		1	36	
Glenn	6	4	21	4
Humboldt		2		
Kern	2	1	101	
Kings		3	59	
Lake		2	17	2
Los Angeles	1	4	47	1
Madera		1		
Marin		2		
Merced		1	3	2
Napa		2		
Nevada	1	4		
Orange	1	17	86	
Placer		5	42	4
Riverside	3	23	99	
Sacramento		47	72	1
San Bernardino	1	2	110	4
San Diego		80	7	
San Joaquin		7	111	
San Mateo		7	4	
Santa Barbara			1	
Santa Clara	1	58	2	
Shasta		5	36	11
Solano		6	4	3
Sonoma		4	8	
Stanislaus		9	19	2
Sutter		14	47	13
Tehama				2
Trinity		1		
Tulare	4	21	411	
Ventura		4		3
Yolo		39	125	1
Yuba		6	23	11
Totals	36	418	1,577	104

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	8,547	6,891
# Positive Counties	36	38
# Human Cases	36	36
# Positive Dead Birds / # Tested	1,192 / 2,219	418 / 1,739
# Positive Mosquito Pools / # Tested	1,620 / 16,687	1,577 / 20,214
# Seroconversions / # Tested	106 / 8,968	104 / 7,643

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	18	0	0
	YTD	36	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	123	56
	YTD	1,739	418

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	555	14	0	0
	YTD	7,643	104	0	0
Mosquito Pools	Week	1,706	244	8	0
	YTD	20,214	1,577	14	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Nelson	95958	Yellow-billed Magpie	8/3/2015	WNV
Butte	Butte Co MVCD	Oroville	95965	American Crow	8/4/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Steller's Jay	8/3/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Western Scrub-Jay	7/30/2015	WNV
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	Steller's Jay	8/9/2015	WNV
Fresno	Consolidated MAD	Sanger	93657	Western Scrub-Jay	8/6/2015	WNV
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	8/3/2015	WNV
Los Angeles	San Gabriel Valley MVCD	Glendora	91741	Finch	8/5/2015	WNV
Napa	Napa Co MAD	Calistoga	94515	Western Scrub-Jay	8/6/2015	WNV
Napa	Napa Co MAD	Napa	94559	American Crow	7/31/2015	WNV
Orange	Orange Co VCD	Brea	92821	American Crow	8/12/2015	WNV

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

Orange	Orange Co VCD	Santa Ana	92705	House Finch	8/4/2015	WNV
Orange	Orange Co VCD	Santa Ana	92706	House Finch	8/6/2015	WNV
Orange	Orange Co VCD	Tustin	92704	American Crow	8/6/2015	WNV
Orange	Orange Co VCD	Tustin	92705	American Crow	8/10/2015	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	8/11/2015	WNV
Orange	Orange Co VCD	Tustin	92780	Northern Mockingbird	8/5/2015	WNV
Placer	Placer MVCD	Lincoln	95648	House Sparrow	8/6/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/4/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/4/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/4/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	8/7/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/7/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	House Finch	8/12/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	8/12/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	8/9/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	8/10/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/12/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Yellow-billed Magpie	8/11/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	Oak Titmouse	8/13/2015	WNV
San Bernardino	San Bernardino VCP	San Bernardino	92407	American Crow	7/28/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91914	American Crow	8/12/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	8/11/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	8/11/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92058	American Crow	8/12/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	8/12/2015	WNV
San Diego	San Diego Co VCP	San Marcos	92078	Cooper's Hawk	8/11/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	8/7/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	Western Scrub-Jay	8/4/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95121	American Crow	8/1/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95134	American Crow	8/7/2015	WNV
Shasta	Shasta MVCD	Fall River Mills	96028	Steller's Jay	8/3/2015	WNV
Solano	Solano Co MAD	Suisun City	94585	American Crow	8/12/2015	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	8/11/2015	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	8/5/2015	WNV
Tulare	Delta VCD	Visalia	93277	House Finch	8/7/2015	WNV
Tulare	Delta VCD	Visalia	93277	Northern Flicker	8/4/2015	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/3/2015	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/3/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/9/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/12/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/13/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Yellow-billed Magpie	8/10/2015	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Yellow-billed Magpie	8/12/2015	WNV
Yuba	Sutter-Yuba MVCD	Olivehurst	95961	American Crow	8/6/2015	WNV
Yuba	Sutter-Yuba MVCD	Wheatland	95692	Sparrow	8/10/2015	WNV

California Arbovirus Surveillance Bulletin #24
 Week 32 Friday, August 14, 2015

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO6002	146	Cx. tarsalis		8	CO2	8/7/2015	WNV
Butte	BUCO115	245	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO116	238	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO116	239	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO116	242	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO117	246	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO117	247	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO117	248	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO117	249	Cx. tarsalis	Nelson	50	CO2	8/11/2015	WNV
Butte	BUCO17	274	Cx. tarsalis	Oroville	50	CO2	8/11/2015	WNV
Butte	BUCO17	275	Cx. tarsalis	Oroville	50	CO2	8/11/2015	WNV
Butte	BUCO17	276	Cx. tarsalis	Oroville	50	CO2	8/11/2015	WNV
Butte	BUCO38	263	Cx. tarsalis	Oroville	50	CO2	8/11/2015	WNV
Butte	BUCO55	265	Cx. tarsalis	Palermo	50	CO2	8/11/2015	WNV
Butte	BUCO9	266	Cx. tarsalis	Chico	50	CO2	8/11/2015	WNV
Fresno	CNSL1232	109	Cx. quinquefasciatus	Sanger	50	GRVD	8/12/2015	WNV
Fresno	CNSL1429	110	Cx. quinquefasciatus	Fresno	16	GRVD	8/12/2015	WNV
Fresno	CNSL3075	389	Cx. quinquefasciatus	Parlier	48	GRVD	8/6/2015	WNV
Fresno	CNSL3214	400	Cx. quinquefasciatus	Reedley	15	GRVD	8/11/2015	WNV
Fresno	CNSL3336	398	Cx. tarsalis	Reedley	50	CO2	8/11/2015	WNV
Fresno	CNSL3336	399	Cx. quinquefasciatus	Reedley	50	CO2	8/11/2015	WNV
Fresno	CNSL4181	394	Cx. quinquefasciatus	Fowler	35	GRVD	8/7/2015	WNV
Fresno	CNSL6142	390	Cx. quinquefasciatus	Riverdale	50	CO2	8/7/2015	WNV
Fresno	CNSL7109	395	Culiseta incidens	Miramonte	34	BGSENT	8/10/2015	WNV
Fresno	FRNO112	79	Cx. quinquefasciatus	Fresno	37	GRVD	8/11/2015	WNV
Fresno	FRNO43	80	Cx. quinquefasciatus	Fresno	20	GRVD	8/11/2015	WNV
Fresno	FRNO81	77	Cx. quinquefasciatus		23	GRVD	8/7/2015	WNV
Fresno	FRNO84	78	Cx. quinquefasciatus		19	GRVD	8/7/2015	WNV
Fresno	FRWS1101	121	Cx. tarsalis	Dos Palos	50	CO2	8/11/2015	WNV
Fresno	FRWS1101	122	Cx. tarsalis	Dos Palos	50	CO2	8/11/2015	WNV
Fresno	FRWS4102	126	Cx. tarsalis	Kerman	38	CO2	8/11/2015	WNV
Glenn	BUCO47	269	Cx. tarsalis	Hamilton City	50	CO2	8/11/2015	WNV
Glenn	BUCO47	270	Cx. tarsalis	Hamilton City	50	CO2	8/11/2015	WNV
Glenn	BUCO47	271	Cx. tarsalis	Hamilton City	50	CO2	8/11/2015	WNV
Kern	DLNO20	79	Cx. quinquefasciatus	Delano	11	GRVD	8/11/2015	WNV
Kern	DLNO38	77	Cx. quinquefasciatus	Delano	21	GRVD	8/11/2015	WNV
Kern	DLNO78	78	Cx. quinquefasciatus	Delano	17	GRVD	8/11/2015	WNV
Kern	KERN1121	422	Cx. quinquefasciatus	Arvin	36	CO2	8/4/2015	WNV
Kern	KERN2042	419	Cx. quinquefasciatus	Lamont	32	GRVD	8/4/2015	WNV
Kern	KERN30	434	Cx. quinquefasciatus	Wasco	50	CO2	8/6/2015	WNV
Kern	KERN3029	426	Cx. quinquefasciatus	Buttonwillow	50	CO2	8/5/2015	WNV
Kern	KERN3030	430	Cx. quinquefasciatus	Shafter	32	CO2	8/6/2015	WNV
Kern	WEST6208	43	Cx. tarsalis	Union Rd & Coles Levee Rd	50	CO2	8/12/2015	WNV
Kern	WEST6236	45	Cx. tarsalis	Enos Lane & Hwy 119	50	CO2	8/12/2015	WNV
Kings	KNGS3108	335	Cx. tarsalis	Island	15	CO2	8/4/2015	WNV
Kings	KNGS4408	330	Cx. pipiens	Lemoore	12	BGSENT	8/6/2015	WNV
Kings	KNGS5506	325	Cx. pipiens	Hanford	50	BGSENT	8/5/2015	WNV
Kings	KNGS5510	324	Cx. pipiens	Hanford	13	BGSENT	8/4/2015	WNV

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

Kings	KNGS5519	333	Cx. pipiens	Hanford	50	BGSENT	8/6/2015	WNV
Kings	KNGS5519	334	Cx. pipiens	Hanford	41	BGSENT	8/6/2015	WNV
Lake	LAKE200	394	Cx. tarsalis	Spring Valley	40	CO2	8/11/2015	WNV
Lake	LAKE234	376	Cx. tarsalis	Clearlake Oaks	50	CO2	8/6/2015	WNV
Lake	LAKE234	377	Cx. tarsalis	Clearlake Oaks	42	CO2	8/6/2015	WNV
Lake	LAKE234	391	Cx. tarsalis	Clearlake Oaks	50	CO2	8/11/2015	WNV
Lake	LAKE234	392	Cx. tarsalis	Clearlake Oaks	50	CO2	8/11/2015	WNV
Lake	LAKE302	374	Cx. tarsalis	Clear Lake Oaks	50	CO2	8/6/2015	WNV
Lake	LAKE302	388	Cx. tarsalis	Clear Lake Oaks	50	CO2	8/11/2015	WNV
Los Angeles	GRLA2031	5623	Cx. quinquefasciatus	Northridge	43	GRVD	8/5/2015	WNV
Los Angeles	GRLA2034	5629	Cx. quinquefasciatus	Tarzana	50	GRVD	8/5/2015	WNV
Los Angeles	GRLA2222	524	Cx. quinquefasciatus	Rowland Heights	50	GRVD	8/6/2015	WNV
Los Angeles	GRLA2278	518	Cx. quinquefasciatus	Long Beach	34	GRVD	8/5/2015	WNV
Los Angeles	GRLA2383	528	Cx. quinquefasciatus	Whittier	32	GRVD	8/6/2015	WNV
Los Angeles	GRLA2492	5637	Cx. quinquefasciatus	La Canada Flintridge	50	GRVD	8/6/2015	WNV
Los Angeles	GRLA2540	5624	Cx. quinquefasciatus	Porter Ranch	50	GRVD	8/5/2015	WNV
Los Angeles	GRLA2890	517	Cx. quinquefasciatus	Lakewood	27	GRVD	8/5/2015	WNV
Los Angeles	GRLA2962	5616	Cx. quinquefasciatus	Chatsworth	50	CO2	8/4/2015	WNV
Los Angeles	GRLA2995	5613	Cx. quinquefasciatus	Woodland Hills	50	GRVD	8/4/2015	WNV
Los Angeles	GRLA3028	5619	Cx. quinquefasciatus	West Hills	32	CO2	8/4/2015	WNV
Los Angeles	GRLA3046	512	Cx. quinquefasciatus	Bellflower	43	GRVD	8/4/2015	WNV
Los Angeles	GRLA3051	514	Cx. quinquefasciatus	Signal Hill	34	GRVD	8/5/2015	WNV
Orange	ORCO1021	2351	Cx. quinquefasciatus	Tustin	14	GRVD	8/4/2015	WNV
Orange	ORCO1021	2352	Cx. quinquefasciatus	Tustin	18	GRVD	8/4/2015	WNV
Orange	ORCO1021	2353	Cx. quinquefasciatus	Tustin	50	GRVD	8/4/2015	WNV
Orange	ORCO1021	2433	Cx. quinquefasciatus	Tustin	24	GRVD	8/5/2015	WNV
Orange	ORCO1021	2434	Cx. quinquefasciatus	Tustin	28	GRVD	8/5/2015	WNV
Orange	ORCO1021	2439	Cx. quinquefasciatus	Tustin	50	GRVD	8/6/2015	WNV
Orange	ORCO170	2360	Cx. quinquefasciatus	Anaheim	50	GRVD	8/4/2015	WNV
Orange	ORCO2	2341	Cx. quinquefasciatus	Fullerton	51	GRVD	8/4/2015	WNV
Orange	ORCO2	2342	Cx. quinquefasciatus	Fullerton	50	GRVD	8/4/2015	WNV
Orange	ORCO205	2373	Cx. quinquefasciatus	Tustin	27	GRVD	8/4/2015	WNV
Orange	ORCO217	2374	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/4/2015	WNV
Orange	ORCO217	2375	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/4/2015	WNV
Orange	ORCO217	2376	Cx. quinquefasciatus	Santa Ana	15	GRVD	8/4/2015	WNV
Orange	ORCO217	2377	Cx. quinquefasciatus	Santa Ana	36	GRVD	8/4/2015	WNV
Orange	ORCO217	2449	Cx. erythrothorax	Santa Ana	45	GRVD	8/6/2015	WNV
Orange	ORCO29	2389	Cx. quinquefasciatus	Santa Ana	23	GRVD	8/5/2015	WNV
Orange	ORCO36	2345	Cx. quinquefasciatus	Cypress	49	GRVD	8/4/2015	WNV
Orange	ORCO41	2349	Cx. erythrothorax	Anaheim	47	GRVD	8/4/2015	WNV
Orange	ORCO50	2356	Cx. quinquefasciatus	Buena Park	50	GRVD	8/4/2015	WNV
Orange	ORCO52	2378	Cx. quinquefasciatus	Anaheim	52	GRVD	8/4/2015	WNV
Orange	ORCO82	2346	Cx. quinquefasciatus	Cypress	30	GRVD	8/4/2015	WNV
Placer	PLCR1023	1198	Cx. tarsalis	Roseville	33	CO2	8/11/2015	WNV
Placer	PLCR150704	1162	Cx. pipiens	Not entered	50	CO2	8/6/2015	WNV
Placer	PLCR17	1219	Cx. tarsalis	Sheridan	31	CO2	8/11/2015	WNV
Placer	PLCR188	1169	Cx. tarsalis	Lincoln	50	CO2	8/6/2015	WNV
Placer	PLCR188	1172	Cx. tarsalis	Lincoln	50	CO2	8/6/2015	WNV
Placer	PLCR188	1173	Cx. tarsalis	Lincoln	50	CO2	8/6/2015	WNV
Placer	PLCR668	1188	Cx. tarsalis	Elverta	50	CO2	8/11/2015	WNV
Riverside	COAV123	2485	Cx. tarsalis	Mecca	23	CO2	8/11/2015	SLEV
Riverside	COAV328	2520	Cx. quinquefasciatus		50	GRVD	8/13/2015	WNV

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

Riverside	COAV416	2471	Cx. quinquefasciatus	La Quinta	29	CO2	8/11/2015	WNV
Riverside	COAV418	2503	Cx. quinquefasciatus	Indian Wells	50	CO2	8/13/2015	WNV
Riverside	COAV45	2493	Cx. tarsalis	Mecca	50	CO2	8/11/2015	WNV
Riverside	COAV45	2493	Cx. tarsalis	Mecca	50	CO2	8/11/2015	SLEV
Riverside	COAV45	2494	Cx. tarsalis	Mecca	50	CO2	8/11/2015	SLEV
Riverside	COAV46	2498	Cx. tarsalis	Mecca	50	CO2	8/11/2015	SLEV
Riverside	COAV46	2499	Cx. tarsalis	Mecca	36	CO2	8/11/2015	SLEV
Riverside	COAV48	2496	Cx. tarsalis	Mecca	6	CO2	8/11/2015	SLEV
Riverside	COAV6	2482	Cx. tarsalis	Mecca	6	CO2	8/11/2015	SLEV
Riverside	COAV611	2495	Cx. tarsalis	Mecca	50	CO2	8/11/2015	SLEV
Riverside	RIVR27	413	Cx. erythrothorax	San Jacinto	50	CO2	8/12/2015	WNV
Riverside	RIVR51	417	Cx. quinquefasciatus	Moreno Valley	50	CO2	8/12/2015	WNV
Riverside	RIVR52	389	Cx. quinquefasciatus	Moreno Valley	50	CO2	8/12/2015	WNV
Riverside	RIVR82	368	Cx. erythrothorax	Hemet	50	CO2	8/5/2015	WNV
Riverside	RIVR82	369	Cx. erythrothorax	Hemet	50	CO2	8/5/2015	WNV
Riverside	RIVR90	400	Cx. tarsalis	Nuevo	50	CO2	8/12/2015	WNV
Sacramento	SAYO202006	3765	Cx. tarsalis	Sacramento	50	CO2	8/13/2015	WNV
Sacramento	SAYO204009	3725	Cx. pipiens	Citrus Heights	6	CO2	8/11/2015	WNV
Sacramento	SAYO204011	3727	Cx. tarsalis	Citrus Heights	4	CO2	8/11/2015	WNV
Sacramento	SAYO212007	3774	Cx. tarsalis	Sacramento	16	CO2	8/13/2015	WNV
Sacramento	SAYO215005	3708	Cx. tarsalis	Folsom	8	CO2	8/11/2015	WNV
Sacramento	SAYO222011	3761	Cx. pipiens	Sacramento	50	CO2	8/11/2015	WNV
Sacramento	SAYO233004	3632	Cx. pipiens	Elk Grove	6	GRVD	8/11/2015	WNV
Sacramento	SAYO233015	3875	Cx. pipiens	Sacramento	34	CO2	8/13/2015	WNV
Sacramento	SAYO233015	3876	Cx. pipiens	Sacramento	32	GRVD	8/13/2015	WNV
Sacramento	SAYO233026	3664	Cx. tarsalis	Elk Grove	7	CO2	8/11/2015	WNV
Sacramento	SAYO233026	3665	Cx. pipiens	Elk Grove	50	CO2	8/11/2015	WNV
Sacramento	SAYO233065	3688	Cx. tarsalis	Elk Grove	17	CO2	8/11/2015	WNV
Sacramento	SAYO234019	3679	Cx. tarsalis	Elk Grove	4	CO2	8/11/2015	WNV
Sacramento	SAYO242015	3639	Cx. pipiens	Elk Grove	50	CO2	8/11/2015	WNV
Sacramento	SAYO243026	3655	Cx. pipiens	Elk Grove	50	CO2	8/11/2015	WNV
Sacramento	SAYO243026	3658	Cx. pipiens	Elk Grove	50	CO2	8/11/2015	WNV
Sacramento	SAYO245002	3867	Cx. tarsalis	Wilton	49	CO2	8/13/2015	WNV
Sacramento	SAYO245026	3864	Cx. tarsalis	Wilton	2	GRVD	8/13/2015	WNV
San Bernardino	SANB43	309	Cx. tarsalis	Rialto	50	CO2	8/5/2015	WNV
San Bernardino	WVAL1009	1099	Cx. quinquefasciatus	Ontario	25	GRVD	8/7/2015	WNV
San Bernardino	WVAL2003	1088	Cx. stigmatosoma	Chino	11	GRVD	8/6/2015	WNV
San Bernardino	WVAL2007	1087	Cx. quinquefasciatus	Ontario	29	GRVD	8/6/2015	WNV
San Joaquin	SJCM7028	1760	Cx. pipiens	Lodi	3	GRVD	8/13/2015	WNV
San Joaquin	SJCM8004	1690	Cx. pipiens	Lodi	50	CO2	8/11/2015	WNV
San Joaquin	SJCM8021	1696	Cx. tarsalis	Lodi	50	CO2	8/11/2015	WNV
San Joaquin	SJCM8021	1697	Cx. tarsalis	Lodi	50	CO2	8/11/2015	WNV
San Joaquin	SJCM8041	1710	Cx. tarsalis	Lodi	36	CO2	8/11/2015	WNV
San Joaquin	SJCM8041	1711	Cx. pipiens	Lodi	50	CO2	8/11/2015	WNV
San Joaquin	SJCM8041	1712	Cx. pipiens	Lodi	36	CO2	8/11/2015	WNV
San Joaquin	SJCM8079	1654	Cx. pipiens	Manteca	49	CO2	8/11/2015	WNV
San Joaquin	SJCM8083	1645	Cx. pipiens	Escalon	9	CO2	8/11/2015	WNV
San Joaquin	SJCM8124	1751	Cx. tarsalis	Clements	14	CO2	8/13/2015	WNV
San Joaquin	SJCM9906	1674	Cx. pipiens	French Camp	5	CO2	8/11/2015	WNV
Shasta	SHAS10	390	Cx. pipiens	Shasta Lake City	49	CO2	8/6/2015	WNV
Shasta	SHAS110	398	Cx. pipiens	Redding	50	CO2	8/11/2015	WNV
Shasta	SHAS110	399	Cx. pipiens	Redding	44	CO2	8/11/2015	WNV
Shasta	SHAS110	400	Cx. tarsalis	Redding	48	CO2	8/11/2015	WNV

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

Shasta	SHAS177	404	Cx. tarsalis	Redding	17	CO2	8/11/2015	WNV
Shasta	SHAS239	403	Cx. tarsalis	Redding	21	CO2	8/11/2015	WNV
Shasta	SHAS242	397	Cx. tarsalis	Cottonwood	33	CO2	8/11/2015	WNV
Solano	SOLA297	98	Cx. tarsalis		50	CO2	8/5/2015	WNV
Stanislaus	TRLK1310	834	Cx. pipiens	Hughson	3	CO2	8/6/2015	WNV
Sutter	SUYA24	315	Cx. tarsalis	Yuba City	50	REST	8/10/2015	WNV
Sutter	SUYA63	313	Cx. tarsalis	Live Oak	39	REST	8/10/2015	WNV
Sutter	SUYA63	314	Cx. tarsalis	Live Oak	39	REST	8/10/2015	WNV
Tulare	DLTA8434	1095	Cx. quinquefasciatus	Visalia	24	GRVD	8/11/2015	WNV
Tulare	DLTA8434	1167	Cx. quinquefasciatus	Visalia	28	GRVD	8/13/2015	WNV
Tulare	DLTA8434	1168	Cx. quinquefasciatus	Visalia	23	GRVD	8/13/2015	WNV
Tulare	DLTA8435	1094	Cx. quinquefasciatus	Visalia	24	GRVD	8/11/2015	WNV
Tulare	DLTA8436	1092	Cx. quinquefasciatus	Visalia	50	GRVD	8/11/2015	WNV
Tulare	DLTA8436	1093	Cx. quinquefasciatus	Visalia	17	GRVD	8/11/2015	WNV
Tulare	DLTA8514	1079	Cx. quinquefasciatus	Visalia	15	GRVD	8/11/2015	WNV
Tulare	DLTA8514	1082	Cx. quinquefasciatus	Visalia	50	GRVD	8/11/2015	WNV
Tulare	DLTA8523	1086	Cx. quinquefasciatus	Visalia	24	GRVD	8/11/2015	WNV
Tulare	DLTA8523	1087	Cx. quinquefasciatus	Visalia	10	GRVD	8/11/2015	WNV
Tulare	DLTA8523	1089	Cx. quinquefasciatus	Visalia	45	GRVD	8/11/2015	WNV
Tulare	DLTA8523	1090	Cx. quinquefasciatus	Visalia	45	GRVD	8/11/2015	WNV
Tulare	DLTA8523	1091	Cx. quinquefasciatus	Visalia	23	GRVD	8/11/2015	WNV
Tulare	DLTA8527	1155	Cx. quinquefasciatus	Visalia	45	GRVD	8/13/2015	WNV
Tulare	DLTA8527	1159	Cx. quinquefasciatus	Visalia	45	GRVD	8/13/2015	WNV
Tulare	DLTA8527	1160	Cx. quinquefasciatus	Visalia	23	GRVD	8/13/2015	WNV
Tulare	DLTA8527	1161	Cx. quinquefasciatus	Visalia	16	GRVD	8/13/2015	WNV
Tulare	DLTA8527	1162	Cx. quinquefasciatus	Visalia	41	GRVD	8/13/2015	WNV
Tulare	DLTA8527	1163	Cx. quinquefasciatus	Visalia	22	GRVD	8/13/2015	WNV
Tulare	DLTA8529	1072	Cx. quinquefasciatus	Visalia	38	GRVD	8/7/2015	WNV
Tulare	DLTA8529	1076	Cx. quinquefasciatus	Visalia	33	GRVD	8/7/2015	WNV
Tulare	DLTA8530	1063	Cx. quinquefasciatus	Visalia	13	GRVD	8/7/2015	WNV
Tulare	DLTA8530	1067	Cx. quinquefasciatus	Visalia	35	GRVD	8/7/2015	WNV
Tulare	DLTA8532	1105	Cx. quinquefasciatus	Visalia	18	GRVD	8/11/2015	WNV
Tulare	DLTA8534	1107	Cx. quinquefasciatus	Visalia	10	GRVD	8/11/2015	WNV
Tulare	DLTA8536	1132	Cx. quinquefasciatus	Farmersville	48	GRVD	8/12/2015	WNV
Tulare	DLTA9402	1098	Cx. quinquefasciatus	Visalia	36	GRVD	8/11/2015	WNV
Tulare	DLTA9403	1096	Cx. quinquefasciatus	Visalia	50	GRVD	8/11/2015	WNV
Tulare	DLTA9403	1174	Cx. quinquefasciatus	Visalia	48	GRVD	8/13/2015	WNV
Tulare	DLTA9403	1175	Cx. quinquefasciatus	Visalia	11	GRVD	8/13/2015	WNV
Tulare	DLTA9403	1176	Cx. quinquefasciatus	Visalia	45	GRVD	8/13/2015	WNV
Tulare	DLTA9411	1099	Cx. quinquefasciatus	Visalia	44	GRVD	8/11/2015	WNV
Tulare	DLTA9412	1100	Cx. quinquefasciatus	Visalia	50	GRVD	8/11/2015	WNV
Tulare	DLTA9501	1116	Cx. quinquefasciatus	Farmersville	34	GRVD	8/11/2015	WNV
Tulare	DLTA9501	1148	Cx. quinquefasciatus	Farmersville	49	GRVD	8/12/2015	WNV
Tulare	DLTA9501	1151	Cx. quinquefasciatus	Farmersville	18	GRVD	8/12/2015	WNV
Tulare	DLTA9504	1108	Cx. quinquefasciatus	Visalia	50	GRVD	8/11/2015	WNV
Tulare	DLTA9505	1110	Cx. quinquefasciatus	Visalia	33	GRVD	8/11/2015	WNV
Tulare	DLTA9512	1117	Cx. quinquefasciatus	Farmersville	50	GRVD	8/11/2015	WNV
Tulare	DLTA9512	1136	Cx. quinquefasciatus	Farmersville	50	GRVD	8/12/2015	WNV
Tulare	DLTA9512	1142	Cx. quinquefasciatus	Farmersville	18	GRVD	8/12/2015	WNV
Tulare	DLTA9512	1144	Cx. quinquefasciatus	Farmersville	45	GRVD	8/12/2015	WNV
Tulare	DLTA9512	1145	Cx. quinquefasciatus	Farmersville	45	GRVD	8/12/2015	WNV
Tulare	DLTA9512	1146	Cx. quinquefasciatus	Farmersville	35	GRVD	8/12/2015	WNV
Tulare	DLTA9604	1114	Cx. quinquefasciatus	Exeter	45	GRVD	8/11/2015	WNV

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

Tulare	DLTA9606	1115	Cx. quinquefasciatus	Farmersville	45	GRVD	8/11/2015	WNV
Tulare	DLTA9606	1120	Cx. quinquefasciatus	Farmersville	30	GRVD	8/12/2015	WNV
Tulare	DLTA9606	1125	Cx. quinquefasciatus	Farmersville	17	GRVD	8/12/2015	WNV
Tulare	DLTA9606	1127	Cx. quinquefasciatus	Farmersville	50	GRVD	8/12/2015	WNV
Tulare	DLTA9606	1128	Cx. quinquefasciatus	Farmersville	24	GRVD	8/12/2015	WNV
Tulare	DLTA9607	1118	Cx. quinquefasciatus	Farmersville	15	GRVD	8/12/2015	WNV
Tulare	DLTA9607	1119	Cx. quinquefasciatus	Farmersville	39	GRVD	8/12/2015	WNV
Tulare	DLTA9611	1112	Cx. quinquefasciatus	Exeter	17	GRVD	8/11/2015	WNV
Yolo	SAYO103007	3940	Cx. tarsalis	Dunnigan	50	CO2	8/13/2015	WNV
Yolo	SAYO114001	3908	Cx. tarsalis	Zamora	50	CO2	8/13/2015	WNV
Yolo	SAYO114001	3909	Cx. tarsalis	Zamora	49	CO2	8/13/2015	WNV
Yolo	SAYO114004	3918	Cx. tarsalis	Zamora	50	CO2	8/13/2015	WNV
Yolo	SAYO135005	3615	Cx. pipiens	Woodland	2	GRVD	8/11/2015	WNV
Yolo	SAYO136010	3898	Cx. tarsalis	Woodland	50	CO2	8/13/2015	WNV
Yolo	SAYO136010	3901	Cx. tarsalis	Woodland	50	CO2	8/13/2015	WNV
Yolo	SAYO136010	3902	Cx. tarsalis	Woodland	50	CO2	8/13/2015	WNV
Yolo	SAYO146002	3599	Cx. tarsalis	Davis	50	CO2	8/11/2015	WNV
Yolo	SAYO146002	3600	Cx. tarsalis	Davis	22	CO2	8/11/2015	WNV
Yuba	SUYA4	318	Cx. tarsalis	Wheatland	50	CO2	8/10/2015	WNV
Yuba	SUYA8	325	Cx. tarsalis	Marysville	22	CO2	8/11/2015	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0004	Gridley	8/11/15	WNV	1721			
Butte	BUCO0006	Chico	8/11/15	WNV	1733			
Placer	PLCR0756	Roseville	8/10/15	WNV	2683			
Sacramento	SAYO261013	Isleton	7/29/15	WNV	4452			
San Bernardino	SANB0011	Rialto	8/4/15	WNV	2038	2039		
Shasta	BURN0002	Burney	8/7/15	WNV	1083	1084	1085	1087
Ventura	MOOR0029	Moorpark	8/5/15	WNV	1392	1393	1400	
Yolo	SAYO123001	Esparto	7/29/15	WNV	4464			

California Arbovirus Surveillance Bulletin #24

Week 32 Friday, August 14, 2015

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 Center for Vectorborne Diseases (CVEC) 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 submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of 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 are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.
